



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

Yes No

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

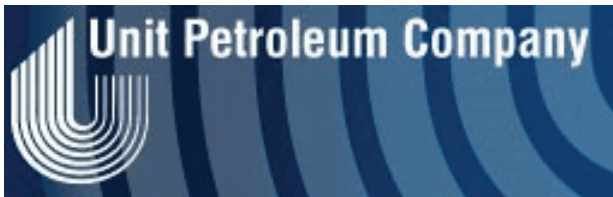
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Miller 26 #1H
Doc ID	1245589

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	28	20	75	160	H	100	2% CC
Intermediate	12.25	9.625	36	1502	A	605	2% CC & 1/4# celloflake
Intermediate	8.75	7	26	4308	AA-2	160	2% CC & 1/4# celloflake
Production	6.125	5.5	17	8285	50/50 POZ	400	2% CC & 1/4# celloflake
Production	6.125	4.5	11.6	8285	50/50 POZ	400	2% CC & 1/4# celloflake



Unit Petroleum

Reno County, Kansas [NAD 83]

Section 26 T25S R10W

Miller 26 No. 1H

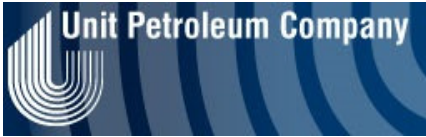
OH

Survey: MWD Surveys

EOW Report

13 January, 2015





Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 26 T25S R10W
 Well: Miller 26 No. 1H
 Wellbore: OH
 Design: Plan #3
 Lat: 37° 51' 8.282 N
 Long: 98° 22' 58.623 W
 Pad GL: 1728.00
 KB: KB: 14' @ 1742.00usft (UDI 331)



SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
2020.00	11.60	4.10	2016.51	-11.97	20.44	0.00	0.00	12.02	
2141.67	12.00	352.34	2135.63	12.77	19.63	2.00	-86.38	-12.72	
2548.89	12.00	352.34	2533.94	96.67	8.34	0.00	0.00	-96.65	
3148.82	0.00	0.00	3129.50	158.70	0.00	2.00	180.00	-158.70	
3198.82	0.00	0.00	3179.50	158.70	0.00	0.00	0.00	-158.70	
3886.32	55.00	179.85	3766.17	-146.70	0.80	8.00	179.85	146.70	
4036.32	55.00	179.85	3852.21	-269.57	1.12	0.00	0.00	269.58	
4326.36	89.81	179.85	3938.56	-541.82	1.83	12.00	0.00	541.82	
8286.87	89.81	179.85	3952.00	-4502.29	12.00	0.00	0.00	4502.30	

Azimuths to Grid North
 True North: -0.07°
 Magnetic North: 4.42°

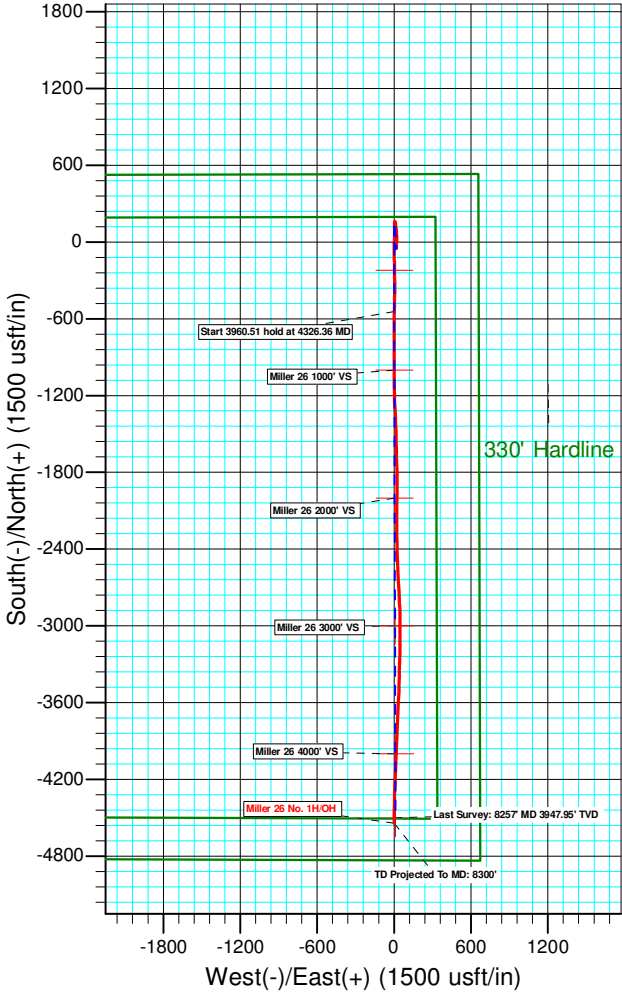
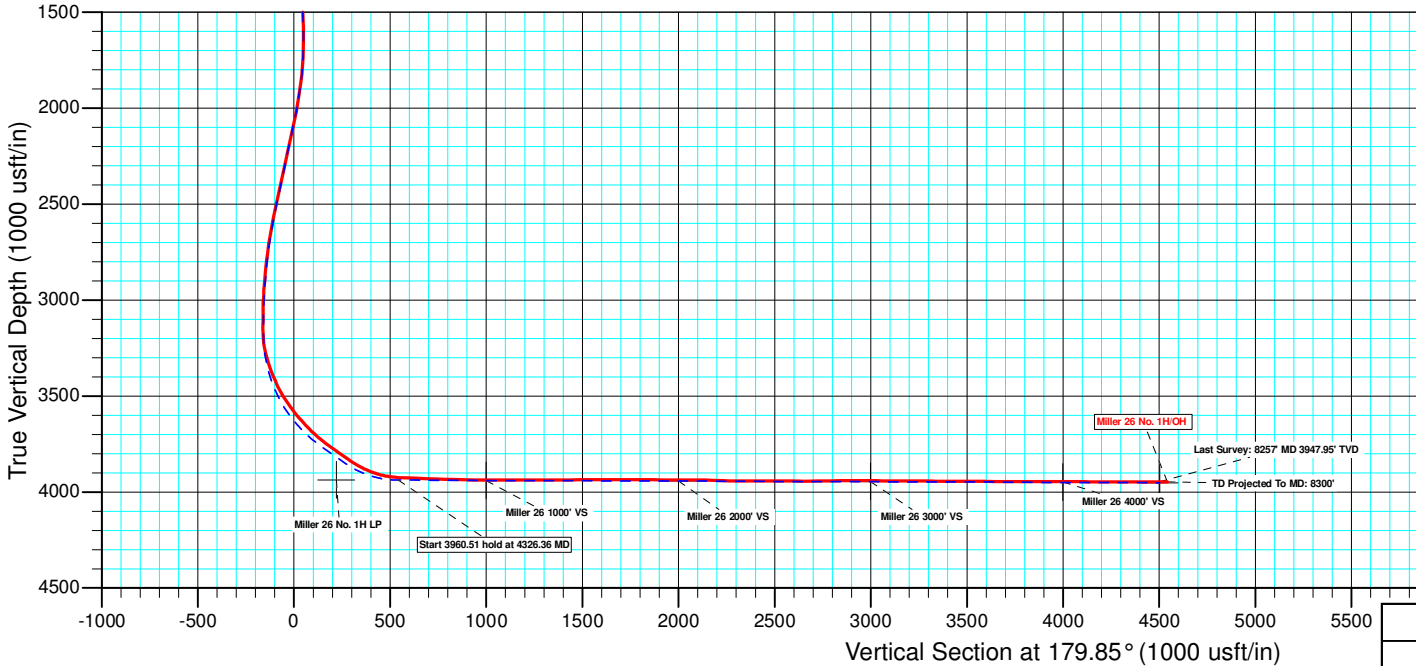
Magnetic Field
 Strength: 51960.9snT
 Dip Angle: 65.72°
 Date: 12/12/2014
 Model: IGRF2010

WELL DETAILS: Miller 26 No. 1H						
+N/-S	+E/-W	Northing	Ground Level: Easting	1728.00 Latitude	Longitude	Slot
0.00	0.00	1744070.00	1346128.00	37° 51' 8.282 N	98° 22' 58.623 W	

PROJECT DETAILS: Reno County, Kansas [NAD 83]

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Kansas Southern Zone
 System Datum: Mean Sea Level

NOTE: All Lease lines and Hard lines are estimates only and are subject to the customers' approval.





Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Miller 26 No. 1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Site:	Section 26 T25S R10W	MD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Well:	Miller 26 No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Project	Reno County, Kansas [NAD 83]		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		Using geodetic scale factor

Site	Section 26 T25S R10W				
Site Position:		Northing:	1,744,070.00 usft	Latitude:	37° 51' 8.282 N
From:	Map	Easting:	1,346,128.00 usft	Longitude:	98° 22' 58.623 W
Position Uncertainty:	3.30 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.07 °

Well	Miller 26 No. 1H					
Well Position	+N/-S	0.00 usft	Northing:	1,744,070.00 usft	Latitude:	37° 51' 8.282 N
	+E/-W	0.00 usft	Easting:	1,346,128.00 usft	Longitude:	98° 22' 58.623 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,728.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/12/2014	4.49	65.72	51,961

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	179.85

Survey Program	Date	1/8/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,400.00	VES Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
1,546.00	8,300.00	MWD Surveys (OH)	MWD	MWD - Standard	

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)		
1,400.00	2.33	169.35	1,399.18	-41.92	16.43	41.97	0.00		
1,546.00	2.50	182.60	1,545.05	-48.02	16.84	48.07	0.40		
1,640.00	0.50	46.70	1,639.02	-49.79	17.04	49.83	3.06		
1,735.00	2.90	8.30	1,733.98	-47.13	17.69	47.17	2.66		
1,830.00	5.60	5.50	1,828.71	-40.13	18.48	40.18	2.85		
1,925.00	8.50	3.40	1,922.98	-28.51	19.34	28.56	3.06		
2,020.00	11.60	4.10	2,016.51	-11.97	20.44	12.02	3.27		
2,115.00	12.10	0.70	2,109.48	7.51	21.25	-7.46	0.90		
2,209.00	12.10	2.10	2,201.40	27.21	21.73	-27.15	0.31		
2,305.00	12.40	357.00	2,295.21	47.56	21.56	-47.50	1.17		
2,399.00	12.40	355.70	2,387.02	67.70	20.27	-67.65	0.30		



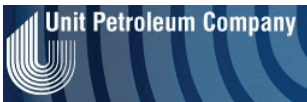
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Project:	Reno County, Kansas [NAD 83]	TVD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Site:	Section 26 T25S R10W	MD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Well:	Miller 26 No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
2,493.00	12.50	354.70	2,478.81	87.90	18.57	-87.85	0.25	
2,588.00	11.00	353.90	2,571.82	107.15	16.66	-107.10	1.59	
2,683.00	9.50	353.60	2,665.30	123.95	14.82	-123.91	1.58	
2,777.00	7.60	352.60	2,758.25	137.83	13.16	-137.79	2.03	
2,873.00	5.50	347.80	2,853.62	148.62	11.37	-148.59	2.26	
2,968.00	3.80	340.50	2,948.30	156.04	9.36	-156.01	1.89	
3,063.00	1.50	335.60	3,043.19	160.14	7.79	-160.12	2.43	
3,126.00	0.80	285.20	3,106.18	161.00	7.03	-160.98	1.85	
3,165.00	0.80	258.30	3,145.18	161.02	6.50	-161.00	0.95	
3,197.00	2.30	200.90	3,177.17	160.37	6.05	-160.36	6.21	
3,228.00	5.60	186.40	3,208.09	158.29	5.66	-158.27	11.04	
3,260.00	9.00	182.60	3,239.83	154.24	5.37	-154.22	10.73	
3,292.00	12.50	180.50	3,271.26	148.27	5.23	-148.26	11.00	
3,323.00	15.30	180.50	3,301.35	140.82	5.16	-140.81	9.03	
3,354.00	17.80	180.10	3,331.06	132.00	5.12	-131.98	8.07	
3,386.00	20.00	179.80	3,361.34	121.63	5.13	-121.62	6.88	
3,417.00	22.10	180.80	3,390.27	110.50	5.07	-110.48	6.87	
3,449.00	24.00	181.00	3,419.71	97.97	4.87	-97.96	5.94	
3,481.00	26.50	181.20	3,448.65	84.32	4.61	-84.31	7.82	
3,512.00	29.10	181.30	3,476.07	69.87	4.29	-69.86	8.39	
3,543.00	31.50	181.10	3,502.83	54.23	3.96	-54.22	7.75	
3,575.00	33.80	180.90	3,529.77	36.97	3.66	-36.96	7.20	
3,607.00	36.00	180.80	3,556.02	18.67	3.39	-18.66	6.88	
3,639.00	38.10	180.90	3,581.56	-0.61	3.10	0.62	6.57	
3,671.00	39.90	181.20	3,606.42	-20.74	2.73	20.75	5.66	
3,702.00	41.60	181.10	3,629.91	-40.97	2.33	40.98	5.49	
3,733.00	43.20	180.30	3,652.80	-61.87	2.08	61.88	5.45	
3,765.00	44.90	179.70	3,675.80	-84.12	2.08	84.13	5.47	
3,797.00	47.30	179.10	3,697.98	-107.18	2.32	107.18	7.62	
3,829.00	49.50	179.20	3,719.23	-131.10	2.68	131.11	6.88	
3,861.00	52.10	178.90	3,739.45	-155.89	3.09	155.90	8.16	
3,888.00	53.80	178.90	3,755.72	-177.44	3.50	177.45	6.30	
3,924.00	54.30	179.00	3,776.85	-206.58	4.04	206.59	1.41	
3,955.00	54.50	178.50	3,794.90	-231.78	4.59	231.79	1.46	
3,987.00	54.80	178.80	3,813.41	-257.87	5.20	257.88	1.21	
4,019.00	55.20	178.90	3,831.77	-284.08	5.73	284.09	1.28	
4,024.18	55.59	178.88	3,834.71	-288.34	5.81	288.36	7.50	
Miller 26 No. 1H LP								
4,051.00	57.60	178.80	3,849.48	-310.72	6.26	310.74	7.50	
4,083.00	61.20	179.40	3,865.76	-338.26	6.69	338.28	11.37	
4,115.00	64.70	180.30	3,880.31	-366.75	6.76	366.77	11.22	
4,146.00	68.40	181.00	3,892.65	-395.19	6.44	395.20	12.11	
4,178.00	72.30	181.70	3,903.41	-425.31	5.73	425.32	12.36	
4,210.00	76.20	181.60	3,912.09	-456.09	4.84	456.10	12.19	
4,241.00	80.00	181.10	3,918.48	-486.41	4.13	486.42	12.36	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Miller 26 No. 1H
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Well:	Miller 26 No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
4,261.00	82.40	180.90		3,921.54	-506.17	3.78	506.18	12.04
4,319.00	87.70	181.00		3,926.54	-563.92	2.82	563.93	9.14
4,382.00	88.00	180.80		3,928.91	-626.87	1.83	626.87	0.57
4,445.00	88.00	180.30		3,931.11	-689.83	1.23	689.83	0.79
4,508.00	87.90	180.40		3,933.36	-752.79	0.85	752.79	0.22
4,570.00	89.10	179.90		3,934.98	-814.77	0.68	814.76	2.10
4,632.00	89.10	180.10		3,935.96	-876.76	0.68	876.76	0.32
4,694.00	88.80	179.80		3,937.09	-938.75	0.74	938.75	0.68
4,755.29	89.99	179.70		3,937.74	-1,000.03	1.00	1,000.03	1.94
Miller 26 1000' VS								
4,756.00	90.00	179.70		3,937.74	-1,000.74	1.01	1,000.74	1.94
4,818.00	89.90	179.10		3,937.80	-1,062.74	1.66	1,062.74	0.98
4,880.00	89.90	178.90		3,937.90	-1,124.73	2.74	1,124.73	0.32
4,942.00	90.20	178.60		3,937.85	-1,186.71	4.09	1,186.72	0.68
5,004.00	89.80	178.00		3,937.85	-1,248.69	5.93	1,248.70	1.16
5,066.00	89.70	177.60		3,938.12	-1,310.64	8.31	1,310.66	0.67
5,127.00	90.10	177.00		3,938.23	-1,371.57	11.18	1,371.60	1.18
5,188.00	90.40	178.10		3,937.96	-1,432.51	13.79	1,432.55	1.87
5,250.00	91.40	178.00		3,936.99	-1,494.47	15.90	1,494.51	1.62
5,311.00	90.20	178.40		3,936.14	-1,555.43	17.82	1,555.47	2.07
5,372.00	90.90	178.40		3,935.55	-1,616.41	19.52	1,616.45	1.15
5,433.00	89.50	179.40		3,935.34	-1,677.39	20.69	1,677.44	2.82
5,495.00	89.80	178.70		3,935.72	-1,739.38	21.72	1,739.43	1.23
5,557.00	90.20	179.30		3,935.72	-1,801.37	22.80	1,801.43	1.16
5,618.00	89.00	180.10		3,936.14	-1,862.37	23.12	1,862.42	2.36
5,681.00	89.40	180.40		3,937.02	-1,925.36	22.85	1,925.41	0.79
5,742.00	90.20	180.10		3,937.23	-1,986.36	22.58	1,986.41	1.40
5,755.79	89.89	180.21		3,937.22	-2,000.15	22.54	2,000.20	2.40
Miller 26 2000' VS								
5,804.00	88.80	180.60		3,937.78	-2,048.35	22.20	2,048.40	2.40
5,865.00	89.70	180.10		3,938.57	-2,109.35	21.83	2,109.40	1.69
5,927.00	88.30	180.40		3,939.66	-2,171.34	21.56	2,171.38	2.31
5,988.00	88.40	179.80		3,941.41	-2,232.31	21.45	2,232.36	1.00
6,049.00	89.50	179.20		3,942.53	-2,293.30	21.98	2,293.35	2.05
6,111.00	90.00	178.60		3,942.80	-2,355.28	23.17	2,355.34	1.26
6,172.00	89.80	177.80		3,942.91	-2,416.25	25.09	2,416.31	1.35
6,233.00	89.70	178.00		3,943.17	-2,477.21	27.33	2,477.27	0.37
6,295.00	89.60	177.50		3,943.55	-2,539.16	29.76	2,539.23	0.82
6,356.00	89.80	177.30		3,943.87	-2,600.10	32.53	2,600.17	0.46
6,415.00	89.90	177.10		3,944.03	-2,659.03	35.41	2,659.11	0.38
6,477.00	90.30	177.20		3,943.92	-2,720.95	38.49	2,721.04	0.67
6,539.00	91.20	176.80		3,943.11	-2,782.86	41.74	2,782.96	1.59
6,600.00	90.90	177.90		3,941.99	-2,843.78	44.56	2,843.89	1.87
6,662.00	89.80	179.20		3,941.61	-2,905.76	46.12	2,905.87	2.75
6,724.00	90.40	179.80		3,941.50	-2,967.76	46.67	2,967.87	1.37



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Miller 26 No. 1H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Site:	Section 26 T25S R10W	MD Reference:	KB: 14' @ 1742.00usft (UDI 331)
Well:	Miller 26 No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM ON IWSERVER

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	
6,756.23	89.50	179.96	3,941.53	-2,999.99	46.73	3,000.10	2.83	
Miller 26 3000' VS								
6,785.00	88.70	180.10	3,941.98	-3,028.75	46.72	3,028.86	2.83	
6,847.00	90.10	179.90	3,942.63	-3,090.75	46.72	3,090.86	2.28	
6,909.00	89.10	181.00	3,943.06	-3,152.74	46.23	3,152.85	2.40	
6,970.00	89.60	180.90	3,943.75	-3,213.73	45.22	3,213.84	0.84	
7,032.00	90.30	180.60	3,943.81	-3,275.72	44.41	3,275.83	1.23	
7,094.00	89.10	181.70	3,944.13	-3,337.71	43.16	3,337.81	2.63	
7,156.00	89.70	181.50	3,944.78	-3,399.68	41.43	3,399.78	1.02	
7,217.00	90.30	181.20	3,944.78	-3,460.66	40.00	3,460.76	1.10	
7,279.00	90.20	182.10	3,944.51	-3,522.64	38.21	3,522.72	1.46	
7,341.00	89.20	182.90	3,944.84	-3,584.58	35.51	3,584.66	2.07	
7,402.00	89.70	182.80	3,945.42	-3,645.50	32.47	3,645.57	0.84	
7,464.00	89.90	182.80	3,945.64	-3,707.42	29.45	3,707.49	0.32	
7,526.00	89.70	182.50	3,945.86	-3,769.36	26.58	3,769.41	0.58	
7,588.00	89.60	182.40	3,946.23	-3,831.30	23.93	3,831.35	0.23	
7,649.00	90.10	182.10	3,946.39	-3,892.25	21.53	3,892.29	0.96	
7,712.00	89.50	182.50	3,946.61	-3,955.20	19.01	3,955.23	1.14	
7,757.13	89.80	182.50	3,946.89	-4,000.28	17.04	4,000.31	0.66	
Miller 26 4000' VS								
7,773.00	89.90	182.50	3,946.93	-4,016.14	16.34	4,016.17	0.66	
7,835.00	90.20	182.50	3,946.88	-4,078.08	13.64	4,078.10	0.48	
7,897.00	88.90	182.20	3,947.37	-4,140.03	11.10	4,140.04	2.15	
7,958.00	89.40	182.10	3,948.27	-4,200.98	8.81	4,200.98	0.84	
8,020.00	89.60	181.40	3,948.81	-4,262.94	6.92	4,262.95	1.17	
8,082.00	90.20	181.40	3,948.92	-4,324.92	5.40	4,324.92	0.97	
8,144.00	90.00	181.20	3,948.81	-4,386.91	4.00	4,386.90	0.46	
8,205.00	90.60	181.10	3,948.49	-4,447.90	2.77	4,447.89	1.00	
8,257.00	90.60	180.90	3,947.95	-4,499.88	1.86	4,499.87	0.38	
Last Survey: 8257' MD 3947.95' TVD - Miller 26 No. 1H TD/PBHL								
8,300.00	90.60	180.90	3,947.50	-4,542.88	1.19	4,542.86	0.00	
TD Projected To MD: 8300'								

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,257.00	3,947.95	-4,499.88	1.86	Last Survey: 8257' MD 3947.95' TVD	
8,300.00	3,947.50	-4,542.88	1.19	TD Projected To MD: 8300'	

Checked By: _____ Approved By: _____ Date: _____

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District R 10 W

MOTOR INFORMATION	
Desc:	6-3/4 Steerable Nudge Assembly
Bent Hsg/Sub:	1.7 / 1.7 5 / 5
Bit to Bend:	5.7
PAD OD:	7 1/16
NB Stab:	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	28-Dec	Drilling	10:45	11:45	1.00	1502	1529	27		27.0	0	0				2.47	181.00	0.40	
1	28-Dec	Drilling	14:50	16:20	1.50	1529	1593	64	8	42.7	50	0	432	1365		1.08	192.00	3.06	
1	28-Dec	Sliding	16:30	17:15	0.75	1593	1618	25	8	33.3	0	0	432	1365		0.41	223.00	3.06	
1	28-Dec	Drilling	17:15	18:50	1.58	1618	1687	69	8	43.6	50	0	432	1365		1.64	80.00	2.66	
1	28-Dec	Sliding	19:00	19:35	0.58	1687	1710	23	8	39.4	50	0	432	1365	354	2.24	83.00	2.66	
1	28-Dec	Drilling	19:35	21:05	1.50	1710	1782	72	8	48.0	50	0	432	1365		4.23	10.00	2.85	
1	28-Dec	Sliding	21:15	21:50	0.58	1782	1805	23	8	39.4	50	0	432	1365	354	4.89	11.00	2.85	
1	28-Dec	Drilling	21:50	23:10	1.33	1805	1877	72	8	54.0	50	0	432	1365		7.03	7.00	3.06	
1	28-Dec	Sliding	23:20	23:45	0.42	1877	1900	23	8	55.2	50	0	432	1365	354	7.74	7.00	3.06	
1	28-Dec	Drilling	23:45	24:00	0.25	1900	1907	7	8	28.0	50	0	432	1365		7.95	7.00	3.06	
1	29-Dec	Drilling	00:00	01:00	1.00	1907	1972	65	8	65.0	50	0	432	1365		10.03	4.00	3.27	
1	29-Dec	Sliding	01:10	01:30	0.33	1972	1995	23	8	69.0	50	0	432	1365	30L	10.78	4.00	3.27	
1	29-Dec	Drilling	01:30	02:50	1.33	1995	2067	72	8	54.0	50	0	432	1365		11.84	6.00	0.90	
1	29-Dec	Sliding	03:00	03:25	0.42	2067	2075	8	8	19.2	50	0	432	1365	90L	11.88	6.00	0.90	
1	29-Dec	Drilling	03:25	05:10	1.75	2075	2162	87	8	49.7	50	0	432	1365		12.10	1.00	0.31	
1	29-Dec	Drilling	05:25	07:10	1.75	2162	2256	94	8	53.7	50	0	432	1365		12.24	5.00	1.17	
1	29-Dec	Drilling	07:10	08:00	0.83	2256	2288	32	8	38.4	50	0	432	1365		12.34	6.00	1.17	
1	29-Dec	Sliding	08:10	08:25	0.25	2288	2298	10	8	40.0	50	0	432	1365	90L	12.37	7.00	1.17	
1	29-Dec	Drilling	08:25	09:20	0.92	2298	2352	54	8	58.9	50	0	432	1365		12.40	358.00	0.30	
1	29-Dec	Drilling	09:30	11:15	1.75	2352	2446	94	8	53.7	50	0	432	1365		12.45	356.00	0.25	
1	29-Dec	Drilling	11:25	13:00	1.58	2446	2540	94	8	59.4	50	0	432	1365		11.76	355.00	1.59	
1	29-Dec	Sliding	13:10	13:30	0.33	2540	2550	10	8	30.0	50	0	432	1365	180	11.60	355.00	1.59	
1	29-Dec	Drilling	13:30	15:15	1.75	2550	2635	85	8	48.6	50	0	432	1365		10.26	354.00	1.58	
1	29-Dec	Sliding	15:25	15:50	0.42	2635	2645	10	8	24.0	50	0	540	2040	180	10.10	354.00	1.58	
1	29-Dec	Drilling	15:50	17:25	1.58	2645	2730	85	8	53.7	50	0	432	2040		8.55	354.00	2.03	
1	29-Dec	Sliding	17:35	18:00	0.42	2730	2744	14	8	33.6	50	0	540	2040	180	8.27	354.00	2.03	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	29-Dec	Drilling	18:00	19:20	1.33	2744	2824	80	8	60.0	50	0	432	2040		6.57	355.00	2.26	
1	29-Dec	Sliding	19:30	19:55	0.42	2824	2842	18	8	43.2	50	0	540	2040	180	6.17	355.00	2.26	
1	29-Dec	Drilling	19:55	21:10	1.25	2842	2920	78	8	62.4	50	0	432	2040		4.65	351.00	1.89	
1	29-Dec	Sliding	21:20	21:45	0.42	2920	2938	18	8	43.2	50	0	540	2040	180	4.33	352.00	1.89	
1	29-Dec	Drilling	21:45	23:05	1.33	2938	3015	77	8	57.8	50	0	432	2040		2.66	342.00	2.43	
1	29-Dec	Sliding	23:15	23:45	0.50	3015	3035	20	8	40.0	50	0	540	2040	180	2.18	343.00	2.43	
1	30-Dec	Drilling	00:00	01:40	1.67	3035	3094	59	8	35.4	50	0	540	2040	180	1.06	352.00	1.85	
1	30-Dec	Sliding	01:40	02:00	0.33	3094	3110	16	8	48.0	50	0	540	2040	180	0.89	7.00	1.85	
1	30-Dec	Drilling	02:10	03:10	1.00	3110	3073	-37	8	-37.0	50	0	540	2040		1.35	340.00	1.85	
2	30-Dec	Sliding	14:00	15:10	1.17	3173	3212	39	8	33.4	50	0	540	2040	180	3.87	211.00	11.04	
2	30-Dec	Sliding	15:25	16:10	0.75	3212	3244	32	8	42.7	50	0	540	2040	180	7.30	189.00	10.73	
2	30-Dec	Sliding	16:25	17:35	1.17	3244	3275	31	8	26.6	50	0	540	2040		10.64	184.00	11.00	
2	30-Dec	Sliding	17:45	18:40	0.92	3275	3307	32	8	34.9	50	0	540	2040		13.85	181.00	9.03	
2	30-Dec	Sliding	18:50	19:20	0.50	3307	3339	32	8	64.0	50	0	540	2040		16.59	181.00	8.07	
2	30-Dec	Drilling	19:30	19:40	0.17	3339	3343	4	8	24.0	50	0	540	2040		16.91	181.00	8.07	
2	30-Dec	Sliding	19:40	20:10	0.50	3343	3370	27	8	54.0	50	0	540	2040		18.90	180.00	6.88	
2	30-Dec	Drilling	20:20	20:35	0.25	3370	3374	4	8	16.0	50	0	540	2040		19.17	180.00	6.88	
2	30-Dec	Sliding	20:35	21:00	0.42	3374	3401	27	8	64.8	50	0	540	2040		21.02	180.00	6.87	
2	30-Dec	Drilling	21:10	21:20	0.17	3401	3408	7	8	42.0	50	0	540	2040		21.49	181.00	6.87	
2	30-Dec	Sliding	21:20	21:40	0.33	3408	3433	25	8	75.0	50	0	540	2040		23.05	181.00	5.94	
2	30-Dec	Drilling	21:50	22:00	0.17	3433	3441	8	8	48.0	50	0	540	2040		23.52	181.00	5.94	
2	30-Dec	Sliding	22:00	22:20	0.33	3441	3464	23	8	69.0	50	0	540	2040		25.17	181.00	7.82	
2	30-Dec	Drilling	22:30	22:45	0.25	3464	3472	8	8	32.0	50	0	540	2040		25.80	181.00	7.82	
2	30-Dec	Sliding	22:45	23:25	0.67	3472	3496	24	8	36.0	50	0	540	2040		27.76	181.00	8.39	
2	30-Dec	Drilling	23:35	23:50	0.25	3496	3504	8	8	32.0	50	0	540	2040		28.43	181.00	8.39	
2	30-Dec	Sliding	23:50	24:00	0.17	3504	3506	2	8	12.0	50	0	540	2040		28.60	181.00	8.39	
2	31-Dec	Sliding	00:00	00:30	0.50	3506	3528	22	8	44.0	50	0	540	2040		30.34	181.00	7.75	
2	31-Dec	Drilling	00:40	00:55	0.25	3528	3538	10	8	40.0	50	0	540	2040		31.11	181.00	7.75	
2	31-Dec	Sliding	00:55	01:25	0.50	3538	3559	21	8	42.0	50	0	540	2040		32.65	181.00	7.20	
2	31-Dec	Drilling	01:35	02:00	0.42	3559	3571	12	8	28.8	50	0	540	2040		33.51	181.00	7.20	
2	31-Dec	Sliding	02:00	02:25	0.42	3571	3590	19	8	45.6	50	0	540	2040		34.83	181.00	6.88	
2	31-Dec	Drilling	02:35	03:00	0.42	3590	3602	12	8	28.8	50	0	540	2040		35.66	181.00	6.88	
2	31-Dec	Sliding	03:00	03:30	0.50	3602	3622	20	8	40.0	50	0	540	2040		36.98	181.00	6.57	
2	31-Dec	Drilling	03:40	04:05	0.42	3622	3637	15	8	36.0	50	0	540	2040		37.97	181.00	6.57	
2	31-Dec	Sliding	04:05	04:30	0.42	3637	3654	17	8	40.8	50	0	540	2040		38.94	181.00	5.66	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	31-Dec	Drilling	04:40	05:10	0.50	3654	3669	15	8	30.0	50	0	540	2040		39.79	181.00	5.66	
2	31-Dec	Sliding	05:10	05:30	0.33	3669	3686	17	8	51.0	50	0	540	2040		40.72	181.00	5.49	
2	31-Dec	Drilling	05:40	06:25	0.75	3686	3701	15	8	20.0	50	0	540	2040		41.55	181.00	5.49	
2	31-Dec	Sliding	06:25	07:00	0.58	3701	3718	17	8	29.1	50	0	540	2040		42.43	182.00	5.45	
2	31-Dec	Drilling	07:10	07:50	0.67	3718	3733	15	8	22.5	50	0	540	2040		43.20	182.00	5.45	
2	31-Dec	Sliding	07:50	08:25	0.58	3733	3749	16	8	27.4	50	0	540	2040		44.05	181.00	5.47	
2	31-Dec	Drilling	08:45	09:25	0.67	3749	3764	15	8	22.5	50	0	540	2040		44.85	181.00	5.47	
2	31-Dec	Sliding	09:25	09:50	0.42	3764	3780	16	8	38.4	50	0	540	2040		46.02	180.00	7.62	
2	31-Dec	Drilling	10:00	10:30	0.50	3780	3790	10	8	20.0	50	0	540	2040		46.77	180.00	7.62	
2	31-Dec	Sliding	10:30	11:10	0.67	3790	3812	22	8	33.0	50	0	540	2040		48.33	179.00	6.88	
2	31-Dec	Drilling	11:25	11:50	0.42	3812	3822	10	8	24.0	50	0	540	2040		49.02	179.00	6.88	
2	31-Dec	Sliding	11:50	12:30	0.67	3822	3844	22	8	33.0	50	0	540	2040		50.72	179.00	8.16	
2	31-Dec	Drilling	12:45	13:10	0.42	3844	3854	10	8	24.0	50	0	540	2040		51.53	179.00	8.16	
2	31-Dec	Sliding	13:10	13:45	0.58	3854	3876	22	8	37.7	50	0	540	2040		53.04	179.00	6.30	
2	31-Dec	Sliding	14:30	15:00	0.50	3876	3888	12	8	24.0	50	0	540	2040		53.80	179.00	6.30	
2	31-Dec	Drilling	15:00	15:45	0.75	3888	3908	20	8	26.7	50	0	540	2040		54.08	179.00	1.41	
2	31-Dec	Drilling	16:00	16:40	0.67	3908	3940	32	8	48.0	50	0	540	2040		54.40	179.00	1.02	
2	31-Dec	Drilling	16:55	17:45	0.83	3940	3971	31	8	37.2	50	0	540	2040		54.65	179.00	0.97	
2	31-Dec	Drilling	17:55	19:35	1.67	3971	4034	63	8	37.8	50	0	540	2040		56.32	179.00	7.50	
2	31-Dec	Sliding	19:45	21:05	1.33	4034	4066	32	8	24.0	50	0	540	2040		59.29	179.00	11.37	
2	31-Dec	Sliding	21:15	22:00	0.75	4066	4098	32	8	42.7	50	0	540	2040		62.84	180.00	11.22	
2	31-Dec	Sliding	22:10	23:05	0.92	4098	4130	32	8	34.9	50	0	540	2040		66.49	181.00	12.11	
2	31-Dec	Sliding	23:15	24:00	0.75	4130	4144	14	8	18.7	50	0	540	2040		68.16	181.00	12.11	
2	1-Jan	Sliding	00:00	00:40	0.67	4144	4162	18	8	27.0	50	0	540	2040		70.35	181.00	12.36	
2	1-Jan	Sliding	00:50	01:35	0.75	4162	4193	31	8	41.3	50	0	540	2040		74.13	182.00	12.19	
2	1-Jan	Sliding	01:45	02:35	0.83	4193	4225	32	8	38.4	50	0	540	2040		78.04	182.00	12.36	
2	1-Jan	Sliding	03:00	03:50	0.83	4225	4257	32	8	38.4	50	0	540	2040		81.92	181.00	12.04	
2	1-Jan	Sliding	04:00	04:45	0.75	4257	4288	31	8	41.3	50	0	540	2040		84.87	181.00	9.14	
2	1-Jan	Sliding	04:50	05:30	0.67	4288	4308	20	8	30.0	50	0	540	2040		86.69	181.00	9.14	
3	2-Jan	Drilling	19:30	21:00	1.50	4308	4365	57	8	38.0	80	0	250	1270		87.92	181.00	0.57	
3	2-Jan	Drilling	21:10	22:25	1.25	4365	4428	63	8	50.4	80	0	250	1270		88.00	181.00	0.79	
3	2-Jan	Drilling	22:35	23:40	1.08	4428	4491	63	8	58.2	80	0	250	1270		87.93	180.00	0.22	
3	2-Jan	Drilling	23:50	24:00	0.17	4491	4498	7	8	42.0	80	0	250	1270		87.92	180.00	0.22	
3	3-Jan	Drilling	00:00	00:55	0.92	4498	4554	56	8	61.1	80	0	250	1270		88.79	181.00	2.10	
3	3-Jan	Sliding	01:05	01:20	0.25	4554	4562	8	8	32.0	80	0	250	1270		88.95	181.00	2.10	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	3-Jan	Drilling	01:20	02:20	1.00	4562	4616	54	8	54.0	80	0	250	1270		89.10	180.00	0.32	
3	3-Jan	Drilling	02:30	03:30	1.00	4616	4678	62	8	62.0	80	0	250	1270		88.88	180.00	0.68	
3	3-Jan	Drilling	03:40	04:15	0.58	4678	4709	31	8	53.1	80	0	250	1270		89.09	180.00	1.94	
3	3-Jan	Sliding	04:15	04:30	0.25	4709	4715	6	8	24.0	80	0	250	1270		89.21	180.00	1.94	
3	3-Jan	Drilling	04:30	04:50	0.33	4715	4740	25	8	75.0	80	0	250	1270		89.69	180.00	1.94	
3	3-Jan	Drilling	05:00	05:55	0.92	4740	4802	62	8	67.6	80	0	250	1270		89.93	180.00	0.98	
3	3-Jan	Drilling	06:05	07:35	1.50	4802	4864	62	8	41.3	80	0	250	1270		89.90	179.00	0.32	
3	3-Jan	Drilling	07:45	09:00	1.25	4864	4926	62	8	49.6	80	0	250	1270		90.12	179.00	0.68	
3	3-Jan	Drilling	09:10	09:40	0.50	4926	4958	32	8	64.0	80	0	250	1270		90.10	179.00	1.16	
3	3-Jan	Drilling	10:00	10:30	0.50	4958	4988	30	8	60.0	80	0	250	1270		89.90	179.00	1.16	
3	3-Jan	Drilling	10:40	11:55	1.25	4988	5050	62	8	49.6	80	0	250	1270		89.73	178.00	0.67	
3	3-Jan	Drilling	12:05	13:20	1.25	5050	5112	62	8	49.6	80	0	250	1270		90.00	178.00	1.18	
3	3-Jan	Drilling	13:30	14:40	1.17	5112	5173	61	8	52.3	80	0	250	1270		90.33	178.00	1.87	
3	3-Jan	Sliding	14:55	15:20	0.42	5173	5185	12	8	28.8	80	0	250	1270	90R	90.39	178.00	1.87	
3	3-Jan	Drilling	15:20	16:20	1.00	5185	5234	49	8	49.0	80	0	250	1270		91.14	178.00	1.62	
3	3-Jan	Drilling	16:30	17:20	0.83	5234	5265	31	8	37.2	80	0	250	1270		91.10	178.00	2.07	
3	3-Jan	Sliding	17:20	17:50	0.50	5265	5275	10	8	20.0	80	0	250	1270	180	90.91	178.00	2.07	
3	3-Jan	Drilling	17:50	18:20	0.50	5275	5296	21	8	42.0	80	0	250	1270		90.50	178.00	2.07	
3	3-Jan	Drilling	18:30	19:40	1.17	5296	5358	62	8	53.1	80	0	250	1270		90.74	178.00	1.15	
3	3-Jan	Drilling	19:50	20:35	0.75	5358	5387	29	8	38.7	80	0	250	1270		90.56	179.00	2.82	
3	3-Jan	Sliding	20:35	21:05	0.50	5387	5397	10	8	20.0	80	0	250	1270	180	90.33	179.00	2.82	
3	3-Jan	Drilling	21:05	21:25	0.33	5397	5418	21	8	63.0	80	0	250	1270		89.84	179.00	2.82	
3	3-Jan	Drilling	21:35	23:00	1.42	5418	5479	61	8	43.1	80	0	250	1270		89.72	180.00	1.23	
3	3-Jan	Drilling	23:10	24:00	0.83	5479	5520	41	8	49.2	80	0	250	1270		89.96	179.00	1.16	
3	4-Jan	Drilling	00:00	00:20	0.33	5520	5541	21	8	63.0	80	0	250	1270		90.10	179.00	1.16	
3	4-Jan	Sliding	00:30	01:05	0.58	5541	5554	13	8	22.3	80	0	250	1270	180	90.18	179.00	1.16	
3	4-Jan	Drilling	01:05	01:50	0.75	5554	5574	20	8	26.7	80	0	250	1270		89.87	180.00	2.36	
3	4-Jan	Sliding	01:50	02:15	0.42	5574	5587	13	8	31.2	80	0	250	1270	180	89.61	180.00	2.36	
3	4-Jan	Drilling	02:15	02:35	0.33	5587	5603	16	8	48.0	80	0	250	1270		89.30	180.00	2.36	
3	4-Jan	Drilling	02:45	04:10	1.42	5603	5664	61	8	43.1	80	0	250	1270		89.29	180.00	0.79	
3	4-Jan	Drilling	04:20	05:50	1.50	5664	5727	63	8	42.0	80	0	250	1270		90.00	181.00	1.40	
3	4-Jan	Drilling	06:00	06:40	0.67	5727	5757	30	8	45.0	80	0	250	1270		89.86	180.00	2.40	
3	4-Jan	Sliding	06:55	07:15	0.33	5757	5767	10	8	30.0	80	0	250	1270	180	89.64	180.00	2.40	
3	4-Jan	Drilling	07:15	07:45	0.50	5767	5788	21	8	42.0	80	0	250	1270		89.16	180.00	2.40	
3	4-Jan	Drilling	07:55	09:25	1.50	5788	5850	62	8	41.3	80	0	250	1270		89.48	181.00	1.69	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	4-Jan	Drilling	09:35	11:00	1.42	5850	5911	61	8	43.1	80	0	250	1270		88.66	180.00	2.31	
3	4-Jan	Sliding	11:25	11:50	0.42	5911	5921	10	8	24.0	80	0	250	1270	180	88.44	180.00	2.31	
3	4-Jan	Drilling	11:50	13:05	1.25	5921	5973	52	8	41.6	80	0	250	1270		88.38	181.00	1.00	
3	4-Jan	Drilling	13:15	14:30	1.25	5973	6034	61	8	48.8	80	0	250	1270		89.23	180.00	2.05	
3	4-Jan	Drilling	14:40	16:00	1.33	6034	6095	61	8	45.8	80	0	250	1270		89.87	180.00	1.26	
3	4-Jan	Drilling	16:10	17:40	1.50	6095	6157	62	8	41.3	80	0	250	1270		89.85	179.00	1.35	
3	4-Jan	Drilling	17:50	19:10	1.33	6157	6218	61	8	45.8	80	0	250	1270		89.72	178.00	0.37	
3	4-Jan	Drilling	19:20	20:20	1.00	6218	6279	61	8	61.0	80	0	250	1270		89.63	178.00	0.82	
3	4-Jan	Drilling	20:30	22:10	1.67	6279	6341	62	8	37.2	80	0	250	1270		89.75	178.00	0.46	
3	4-Jan	Drilling	22:20	23:30	1.17	6341	6402	61	8	52.3	80	0	250	1270		89.88	177.00	0.38	
3	4-Jan	Drilling	23:40	24:00	0.33	6402	6416	14	8	42.0	80	0	250	1270		89.91	177.00	0.67	
3	5-Jan	Drilling	00:00	00:25	0.42	6416	6422	6	8	14.4	80	0	250	1270		89.95	177.00	0.67	
4	5-Jan	Drilling	12:45	13:30	0.75	6422	6458	36	8	48.0	80	0	250	2050		90.18	177.00	0.67	
4	5-Jan	Drilling	13:40	15:00	1.33	6458	6520	62	8	46.5	80	0	250	2050		90.92	177.00	1.59	
4	5-Jan	Drilling	15:15	16:00	0.75	6520	6551	31	8	41.3	80	0	250	2050		91.14	177.00	1.87	
4	5-Jan	Sliding	16:00	16:30	0.50	6551	6562	11	8	22.0	80	0	250	2050	95R	91.09	177.00	1.87	
4	5-Jan	Drilling	16:30	17:00	0.50	6562	6582	20	8	40.0	80	0	250	2050		90.99	178.00	1.87	
4	5-Jan	Drilling	17:10	18:35	1.42	6582	6643	61	8	43.1	65	0	250	2050		90.14	179.00	2.75	
4	5-Jan	Sliding	18:45	19:35	0.83	6643	6665	22	8	26.4	65	0	250	2050	95R	89.83	179.00	1.37	
4	5-Jan	Drilling	19:35	20:40	1.08	6665	6705	40	8	36.9	65	0	250	2050		90.22	180.00	1.37	
4	5-Jan	Drilling	20:50	21:40	0.83	6705	6736	31	8	37.2	65	0	250	2050		90.07	180.00	2.83	
4	5-Jan	Sliding	21:40	22:00	0.33	6736	6746	10	8	30.0	65	0	250	2050	95R	89.79	180.00	2.83	
4	5-Jan	Drilling	22:00	22:20	0.33	6746	6767	21	8	63.0	65	0	250	2050		89.20	180.00	2.83	
4	5-Jan	Drilling	22:30	23:50	1.33	6767	6828	61	8	45.8	65	0	250	2050		89.67	180.00	2.28	
4	6-Jan	Drilling	00:00	01:20	1.33	6828	6890	62	8	46.5	65	0	250	2050		89.41	181.00	2.40	
4	6-Jan	Sliding	01:30	02:10	0.67	6890	6900	10	8	15.0	65	0	250	2050	95R	89.25	181.00	2.40	
4	6-Jan	Drilling	02:10	03:20	1.17	6900	6952	52	8	44.6	65	0	250	2050		89.45	181.00	0.84	
4	6-Jan	Drilling	03:30	04:50	1.33	6952	7013	61	8	45.8	65	0	250	2050		90.09	181.00	1.23	
4	6-Jan	Drilling	05:00	06:20	1.33	7013	7075	62	8	46.5	65	0	250	2050		89.47	181.00	2.63	
4	6-Jan	Sliding	06:30	07:05	0.58	7075	7090	15	8	25.7	65	0	250	2050	95R	89.18	182.00	2.63	
4	6-Jan	Drilling	07:05	08:10	1.08	7090	7137	47	8	43.4	65	0	250	2050		89.52	182.00	1.02	
4	6-Jan	Drilling	08:20	10:00	1.67	7137	7199	62	8	37.2	65	0	250	2050		90.12	182.00	1.10	
4	6-Jan	Drilling	10:10	11:00	0.83	7199	7229	30	8	36.0	65	0	250	2050		90.28	181.00	1.46	
4	6-Jan	Sliding	11:00	11:35	0.58	7229	7239	10	8	17.1	65	0	250	2050	95R	90.26	182.00	1.46	
4	6-Jan	Drilling	11:35	12:00	0.42	7239	7260	21	8	50.4	65	0	250	2050		90.23	182.00	1.46	

Slide Report for all BHA's in Job: 14-329

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	6-Jan	Drilling	12:10	13:45	1.58	7260	7322	62	8	39.2	65	0	250	2050		89.51	183.00	2.07	
4	6-Jan	Sliding	13:55	14:20	0.42	7322	7337	15	12	36.0	65	0	250	2050	95R	89.26	183.00	2.07	
4	6-Jan	Drilling	14:20	15:35	1.25	7337	7384	47	8	37.6	65	0	250	2050		89.55	183.00	0.84	
4	6-Jan	Drilling	15:45	17:00	1.25	7384	7445	61	8	48.8	65	0	250	2050		89.84	183.00	0.32	
4	6-Jan	Drilling	17:10	18:45	1.58	7445	7507	62	8	39.2	65	0	250	2050		89.76	183.00	0.58	
4	6-Jan	Drilling	18:55	20:20	1.42	7507	7569	62	8	43.8	65	0	250	2050		89.63	183.00	0.23	
4	6-Jan	Drilling	20:30	22:00	1.50	7569	7631	62	8	41.3	65	0	250	2050		89.95	183.00	0.96	
4	6-Jan	Drilling	22:10	23:20	1.17	7631	7677	46	8	39.4	65	0	250	2050		89.83	182.00	1.14	
4	6-Jan	Sliding	23:20	23:50	0.50	7677	7687	10	12	20.0	65	0	250	2050	95R	89.74	182.00	1.14	
4	6-Jan	Drilling	23:50	24:00	0.17	7687	7692	5	8	30.0	65	0	250	2050		89.69	182.00	1.14	
4	7-Jan	Drilling	00:10	00:50	0.67	7692	7723	31	8	46.5	65	0	250	2050		89.57	183.00	0.68	
5	7-Jan	Drilling	15:40	18:00	2.33	7723	7816	93	8	39.9	80	0	250	2050		90.11	182.00	0.51	
5	7-Jan	Drilling	18:10	19:00	0.83	7816	7847	31	8	37.2	80	0	250	2050		89.95	183.00	2.15	
5	7-Jan	Sliding	19:00	19:30	0.50	7847	7859	12	12	24.0	80	0	250	2050	180	89.70	183.00	2.15	
5	7-Jan	Drilling	19:30	19:55	0.42	7859	7878	19	8	45.6	80	0	250	2050		89.30	183.00	2.15	
5	7-Jan	Drilling	20:05	21:25	1.33	7878	7940	62	8	46.5	80	0	250	2050		89.25	182.00	0.84	
5	7-Jan	Drilling	21:35	23:00	1.42	7940	8001	61	8	43.1	80	0	250	2050		89.54	183.00	1.17	
5	7-Jan	Drilling	23:10	24:00	0.83	8001	8038	37	8	44.4	80	0	250	2050		89.77	181.00	0.97	
5	8-Jan	Drilling	00:00	00:35	0.58	8038	8063	25	8	42.9	80	0	250	2050		90.02	181.00	0.97	
5	8-Jan	Drilling	00:45	02:00	1.25	8063	8125	62	8	49.6	80	0	250	2050		90.06	182.00	0.46	
5	8-Jan	Drilling	02:10	03:10	1.00	8125	8187	62	8	62.0	80	0	250	2050		90.42	181.00	1.00	
5	8-Jan	Drilling	03:20	04:20	1.00	8187	8248	61	8	61.0	80	0	250	2050		90.60	181.00	0.38	
5	8-Jan	Drilling	04:30	05:25	0.92	8248	8300	52	8	56.7	80	0	250	2050		90.60	181.00	0.00	

Total Drilled:	6698	Avg. Total ROP:	42.44	DEPTH% - TIME %
Total Rotary Drilled:	5439	Avg. Rotary ROP:	44.86	Percent Rotary: 81.20 - 76.82
Total Drilled Sliding:	1259	Avg. Slide ROP:	34.41	Percent Slide: 18.80 - 23.18

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District: R 10 W

MOTOR INFORMATION	
Desc:	6-3/4 Steerable Nudge Assembly
Bent Hsg/Sub:	1.7 / 1.7 5 / 5
Bit to Bend:	5.7
PAD OD:	7 1/16
NB Stab:	

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	28-Dec	Drilling	10:45	11:45	1.00	1502	1529	27		27.0	0	0				2.47	181.00	0.40	
1	28-Dec	Drilling	14:50	16:20	1.50	1529	1593	64	8	42.7	50	0	432	1365		1.08	192.00	3.06	
1	28-Dec	Sliding	16:30	17:15	0.75	1593	1618	25	8	33.3	0	0	432	1365		0.41	223.00	3.06	
1	28-Dec	Drilling	17:15	18:50	1.58	1618	1687	69	8	43.6	50	0	432	1365		1.64	80.00	2.66	
1	28-Dec	Sliding	19:00	19:35	0.58	1687	1710	23	8	39.4	50	0	432	1365	354	2.24	83.00	2.66	
1	28-Dec	Drilling	19:35	21:05	1.50	1710	1782	72	8	48.0	50	0	432	1365		4.23	10.00	2.85	
1	28-Dec	Sliding	21:15	21:50	0.58	1782	1805	23	8	39.4	50	0	432	1365	354	4.89	11.00	2.85	
1	28-Dec	Drilling	21:50	23:10	1.33	1805	1877	72	8	54.0	50	0	432	1365		7.03	7.00	3.06	
1	28-Dec	Sliding	23:20	23:45	0.42	1877	1900	23	8	55.2	50	0	432	1365	354	7.74	7.00	3.06	
1	28-Dec	Drilling	23:45	24:00	0.25	1900	1907	7	8	28.0	50	0	432	1365		7.95	7.00	3.06	
1	29-Dec	Drilling	00:00	01:00	1.00	1907	1972	65	8	65.0	50	0	432	1365		10.03	4.00	3.27	
1	29-Dec	Sliding	01:10	01:30	0.33	1972	1995	23	8	69.0	50	0	432	1365	30L	10.78	4.00	3.27	
1	29-Dec	Drilling	01:30	02:50	1.33	1995	2067	72	8	54.0	50	0	432	1365		11.84	6.00	0.90	
1	29-Dec	Sliding	03:00	03:25	0.42	2067	2075	8	8	19.2	50	0	432	1365	90L	11.88	6.00	0.90	
1	29-Dec	Drilling	03:25	05:10	1.75	2075	2162	87	8	49.7	50	0	432	1365		12.10	1.00	0.31	
1	29-Dec	Drilling	05:25	07:10	1.75	2162	2256	94	8	53.7	50	0	432	1365		12.24	5.00	1.17	
1	29-Dec	Drilling	07:10	08:00	0.83	2256	2288	32	8	38.4	50	0	432	1365		12.34	6.00	1.17	
1	29-Dec	Sliding	08:10	08:25	0.25	2288	2298	10	8	40.0	50	0	432	1365	90L	12.37	7.00	1.17	
1	29-Dec	Drilling	08:25	09:20	0.92	2298	2352	54	8	58.9	50	0	432	1365		12.40	358.00	0.30	
1	29-Dec	Drilling	09:30	11:15	1.75	2352	2446	94	8	53.7	50	0	432	1365		12.45	356.00	0.25	
1	29-Dec	Drilling	11:25	13:00	1.58	2446	2540	94	8	59.4	50	0	432	1365		11.76	355.00	1.59	
1	29-Dec	Sliding	13:10	13:30	0.33	2540	2550	10	8	30.0	50	0	432	1365	180	11.60	355.00	1.59	
1	29-Dec	Drilling	13:30	15:15	1.75	2550	2635	85	8	48.6	50	0	432	1365		10.26	354.00	1.58	
1	29-Dec	Sliding	15:25	15:50	0.42	2635	2645	10	8	24.0	50	0	540	2040	180	10.10	354.00	1.58	
1	29-Dec	Drilling	15:50	17:25	1.58	2645	2730	85	8	53.7	50	0	432	2040		8.55	354.00	2.03	
1	29-Dec	Sliding	17:35	18:00	0.42	2730	2744	14	8	33.6	50	0	540	2040	180	8.27	354.00	2.03	

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	29-Dec	Drilling	18:00	19:20	1.33	2744	2824	80	8	60.0	50	0	432	2040		6.57	355.00	2.26	
1	29-Dec	Sliding	19:30	19:55	0.42	2824	2842	18	8	43.2	50	0	540	2040	180	6.17	355.00	2.26	
1	29-Dec	Drilling	19:55	21:10	1.25	2842	2920	78	8	62.4	50	0	432	2040		4.65	351.00	1.89	
1	29-Dec	Sliding	21:20	21:45	0.42	2920	2938	18	8	43.2	50	0	540	2040	180	4.33	352.00	1.89	
1	29-Dec	Drilling	21:45	23:05	1.33	2938	3015	77	8	57.8	50	0	432	2040		2.66	342.00	2.43	
1	29-Dec	Sliding	23:15	23:45	0.50	3015	3035	20	8	40.0	50	0	540	2040	180	2.18	343.00	2.43	
1	30-Dec	Drilling	00:00	01:40	1.67	3035	3094	59	8	35.4	50	0	540	2040	180	1.06	352.00	1.85	
1	30-Dec	Sliding	01:40	02:00	0.33	3094	3110	16	8	48.0	50	0	540	2040	180	0.89	7.00	1.85	
1	30-Dec	Drilling	02:10	03:10	1.00	3110	3073	-37	8	-37.0	50	0	540	2040		1.35	340.00	1.85	

Total Drilled:	1571	Avg. Total ROP:	45.98	DEPTH% - TIME %	
Total Rotary Drilled:	1330	Avg. Rotary ROP:	47.50	Percent Rotary:	84.66 - 81.95
Total Drilled Sliding:	241	Avg. Slide ROP:	39.08	Percent Slide:	15.34 - 18.05

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District R 10 W

MOTOR INFORMATION	
Desc:	6-3/4 Steerable Curve Assembly
Bent Hsg/Sub: 2 / 0	Bit to Bend: 0
PAD OD: 7 1/16	NB Stab:

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	30-Dec	Sliding	14:00	15:10	1.17	3173	3212	39	8	33.4	50	0	540	2040	180	3.87	211.00	11.04	
2	30-Dec	Sliding	15:25	16:10	0.75	3212	3244	32	8	42.7	50	0	540	2040	180	7.30	189.00	10.73	
2	30-Dec	Sliding	16:25	17:35	1.17	3244	3275	31	8	26.6	50	0	540	2040		10.64	184.00	11.00	
2	30-Dec	Sliding	17:45	18:40	0.92	3275	3307	32	8	34.9	50	0	540	2040		13.85	181.00	9.03	
2	30-Dec	Sliding	18:50	19:20	0.50	3307	3339	32	8	64.0	50	0	540	2040		16.59	181.00	8.07	
2	30-Dec	Drilling	19:30	19:40	0.17	3339	3343	4	8	24.0	50	0	540	2040		16.91	181.00	8.07	
2	30-Dec	Sliding	19:40	20:10	0.50	3343	3370	27	8	54.0	50	0	540	2040		18.90	180.00	6.88	
2	30-Dec	Drilling	20:20	20:35	0.25	3370	3374	4	8	16.0	50	0	540	2040		19.17	180.00	6.88	
2	30-Dec	Sliding	20:35	21:00	0.42	3374	3401	27	8	64.8	50	0	540	2040		21.02	180.00	6.87	
2	30-Dec	Drilling	21:10	21:20	0.17	3401	3408	7	8	42.0	50	0	540	2040		21.49	181.00	6.87	
2	30-Dec	Sliding	21:20	21:40	0.33	3408	3433	25	8	75.0	50	0	540	2040		23.05	181.00	5.94	
2	30-Dec	Drilling	21:50	22:00	0.17	3433	3441	8	8	48.0	50	0	540	2040		23.52	181.00	5.94	
2	30-Dec	Sliding	22:00	22:20	0.33	3441	3464	23	8	69.0	50	0	540	2040		25.17	181.00	7.82	
2	30-Dec	Drilling	22:30	22:45	0.25	3464	3472	8	8	32.0	50	0	540	2040		25.80	181.00	7.82	
2	30-Dec	Sliding	22:45	23:25	0.67	3472	3496	24	8	36.0	50	0	540	2040		27.76	181.00	8.39	
2	30-Dec	Drilling	23:35	23:50	0.25	3496	3504	8	8	32.0	50	0	540	2040		28.43	181.00	8.39	
2	30-Dec	Sliding	23:50	24:00	0.17	3504	3506	2	8	12.0	50	0	540	2040		28.60	181.00	8.39	
2	31-Dec	Sliding	00:00	00:30	0.50	3506	3528	22	8	44.0	50	0	540	2040		30.34	181.00	7.75	
2	31-Dec	Drilling	00:40	00:55	0.25	3528	3538	10	8	40.0	50	0	540	2040		31.11	181.00	7.75	
2	31-Dec	Sliding	00:55	01:25	0.50	3538	3559	21	8	42.0	50	0	540	2040		32.65	181.00	7.20	
2	31-Dec	Drilling	01:35	02:00	0.42	3559	3571	12	8	28.8	50	0	540	2040		33.51	181.00	7.20	
2	31-Dec	Sliding	02:00	02:25	0.42	3571	3590	19	8	45.6	50	0	540	2040		34.83	181.00	6.88	
2	31-Dec	Drilling	02:35	03:00	0.42	3590	3602	12	8	28.8	50	0	540	2040		35.66	181.00	6.88	
2	31-Dec	Sliding	03:00	03:30	0.50	3602	3622	20	8	40.0	50	0	540	2040		36.98	181.00	6.57	
2	31-Dec	Drilling	03:40	04:05	0.42	3622	3637	15	8	36.0	50	0	540	2040		37.97	181.00	6.57	
2	31-Dec	Sliding	04:05	04:30	0.42	3637	3654	17	8	40.8	50	0	540	2040		38.94	181.00	5.66	

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	31-Dec	Drilling	04:40	05:10	0.50	3654	3669	15	8	30.0	50	0	540	2040		39.79	181.00	5.66	
2	31-Dec	Sliding	05:10	05:30	0.33	3669	3686	17	8	51.0	50	0	540	2040		40.72	181.00	5.49	
2	31-Dec	Drilling	05:40	06:25	0.75	3686	3701	15	8	20.0	50	0	540	2040		41.55	181.00	5.49	
2	31-Dec	Sliding	06:25	07:00	0.58	3701	3718	17	8	29.1	50	0	540	2040		42.43	182.00	5.45	
2	31-Dec	Drilling	07:10	07:50	0.67	3718	3733	15	8	22.5	50	0	540	2040		43.20	182.00	5.45	
2	31-Dec	Sliding	07:50	08:25	0.58	3733	3749	16	8	27.4	50	0	540	2040		44.05	181.00	5.47	
2	31-Dec	Drilling	08:45	09:25	0.67	3749	3764	15	8	22.5	50	0	540	2040		44.85	181.00	5.47	
2	31-Dec	Sliding	09:25	09:50	0.42	3764	3780	16	8	38.4	50	0	540	2040		46.02	180.00	7.62	
2	31-Dec	Drilling	10:00	10:30	0.50	3780	3790	10	8	20.0	50	0	540	2040		46.77	180.00	7.62	
2	31-Dec	Sliding	10:30	11:10	0.67	3790	3812	22	8	33.0	50	0	540	2040		48.33	179.00	6.88	
2	31-Dec	Drilling	11:25	11:50	0.42	3812	3822	10	8	24.0	50	0	540	2040		49.02	179.00	6.88	
2	31-Dec	Sliding	11:50	12:30	0.67	3822	3844	22	8	33.0	50	0	540	2040		50.72	179.00	8.16	
2	31-Dec	Drilling	12:45	13:10	0.42	3844	3854	10	8	24.0	50	0	540	2040		51.53	179.00	8.16	
2	31-Dec	Sliding	13:10	13:45	0.58	3854	3876	22	8	37.7	50	0	540	2040		53.04	179.00	6.30	
2	31-Dec	Sliding	14:30	15:00	0.50	3876	3888	12	8	24.0	50	0	540	2040		53.80	179.00	6.30	
2	31-Dec	Drilling	15:00	15:45	0.75	3888	3908	20	8	26.7	50	0	540	2040		54.08	179.00	1.41	
2	31-Dec	Drilling	16:00	16:40	0.67	3908	3940	32	8	48.0	50	0	540	2040		54.40	179.00	1.02	
2	31-Dec	Drilling	16:55	17:45	0.83	3940	3971	31	8	37.2	50	0	540	2040		54.65	179.00	0.97	
2	31-Dec	Drilling	17:55	19:35	1.67	3971	4034	63	8	37.8	50	0	540	2040		56.32	179.00	7.50	
2	31-Dec	Sliding	19:45	21:05	1.33	4034	4066	32	8	24.0	50	0	540	2040		59.29	179.00	11.37	
2	31-Dec	Sliding	21:15	22:00	0.75	4066	4098	32	8	42.7	50	0	540	2040		62.84	180.00	11.22	
2	31-Dec	Sliding	22:10	23:05	0.92	4098	4130	32	8	34.9	50	0	540	2040		66.49	181.00	12.11	
2	31-Dec	Sliding	23:15	24:00	0.75	4130	4144	14	8	18.7	50	0	540	2040		68.16	181.00	12.11	
2	1-Jan	Sliding	00:00	00:40	0.67	4144	4162	18	8	27.0	50	0	540	2040		70.35	181.00	12.36	
2	1-Jan	Sliding	00:50	01:35	0.75	4162	4193	31	8	41.3	50	0	540	2040		74.13	182.00	12.19	
2	1-Jan	Sliding	01:45	02:35	0.83	4193	4225	32	8	38.4	50	0	540	2040		78.04	182.00	12.36	
2	1-Jan	Sliding	03:00	03:50	0.83	4225	4257	32	8	38.4	50	0	540	2040		81.92	181.00	12.04	
2	1-Jan	Sliding	04:00	04:45	0.75	4257	4288	31	8	41.3	50	0	540	2040		84.87	181.00	9.14	
2	1-Jan	Sliding	04:50	05:30	0.67	4288	4308	20	8	30.0	50	0	540	2040		86.69	181.00	9.14	

Total Drilled:	1135	Avg. Total ROP:	35.01	DEPTH% - TIME %
Total Rotary Drilled:	324	Avg. Rotary ROP:	30.61	Percent Rotary: 28.55 - 32.65
Total Drilled Sliding:	811	Avg. Slide ROP:	37.15	Percent Slide: 71.45 - 67.35

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District R 10 W

MOTOR INFORMATION	
Desc:	4-3/4 Steerable Lateral Assembly
Bent Hsg/Sub:	1.5 / 1.5 Bit to Bend: 4.86
PAD OD:	5 1/4 NB Stab:

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	2-Jan	Drilling	19:30	21:00	1.50	4308	4365	57	8	38.0	80	0	250	1270		87.92	181.00	0.57	
3	2-Jan	Drilling	21:10	22:25	1.25	4365	4428	63	8	50.4	80	0	250	1270		88.00	181.00	0.79	
3	2-Jan	Drilling	22:35	23:40	1.08	4428	4491	63	8	58.2	80	0	250	1270		87.93	180.00	0.22	
3	2-Jan	Drilling	23:50	24:00	0.17	4491	4498	7	8	42.0	80	0	250	1270		87.92	180.00	0.22	
3	3-Jan	Drilling	00:00	00:55	0.92	4498	4554	56	8	61.1	80	0	250	1270		88.79	181.00	2.10	
3	3-Jan	Sliding	01:05	01:20	0.25	4554	4562	8	8	32.0	80	0	250	1270		88.95	181.00	2.10	
3	3-Jan	Drilling	01:20	02:20	1.00	4562	4616	54	8	54.0	80	0	250	1270		89.10	180.00	0.32	
3	3-Jan	Drilling	02:30	03:30	1.00	4616	4678	62	8	62.0	80	0	250	1270		88.88	180.00	0.68	
3	3-Jan	Drilling	03:40	04:15	0.58	4678	4709	31	8	53.1	80	0	250	1270		89.09	180.00	1.94	
3	3-Jan	Sliding	04:15	04:30	0.25	4709	4715	6	8	24.0	80	0	250	1270		89.21	180.00	1.94	
3	3-Jan	Drilling	04:30	04:50	0.33	4715	4740	25	8	75.0	80	0	250	1270		89.69	180.00	1.94	
3	3-Jan	Drilling	05:00	05:55	0.92	4740	4802	62	8	67.6	80	0	250	1270		89.93	180.00	0.98	
3	3-Jan	Drilling	06:05	07:35	1.50	4802	4864	62	8	41.3	80	0	250	1270		89.90	179.00	0.32	
3	3-Jan	Drilling	07:45	09:00	1.25	4864	4926	62	8	49.6	80	0	250	1270		90.12	179.00	0.68	
3	3-Jan	Drilling	09:10	09:40	0.50	4926	4958	32	8	64.0	80	0	250	1270		90.10	179.00	1.16	
3	3-Jan	Drilling	10:00	10:30	0.50	4958	4988	30	8	60.0	80	0	250	1270		89.90	179.00	1.16	
3	3-Jan	Drilling	10:40	11:55	1.25	4988	5050	62	8	49.6	80	0	250	1270		89.73	178.00	0.67	
3	3-Jan	Drilling	12:05	13:20	1.25	5050	5112	62	8	49.6	80	0	250	1270		90.00	178.00	1.18	
3	3-Jan	Drilling	13:30	14:40	1.17	5112	5173	61	8	52.3	80	0	250	1270		90.33	178.00	1.87	
3	3-Jan	Sliding	14:55	15:20	0.42	5173	5185	12	8	28.8	80	0	250	1270	90R	90.39	178.00	1.87	
3	3-Jan	Drilling	15:20	16:20	1.00	5185	5234	49	8	49.0	80	0	250	1270		91.14	178.00	1.62	
3	3-Jan	Drilling	16:30	17:20	0.83	5234	5265	31	8	37.2	80	0	250	1270		91.10	178.00	2.07	
3	3-Jan	Sliding	17:20	17:50	0.50	5265	5275	10	8	20.0	80	0	250	1270	180	90.91	178.00	2.07	
3	3-Jan	Drilling	17:50	18:20	0.50	5275	5296	21	8	42.0	80	0	250	1270		90.50	178.00	2.07	
3	3-Jan	Drilling	18:30	19:40	1.17	5296	5358	62	8	53.1	80	0	250	1270		90.74	178.00	1.15	
3	3-Jan	Drilling	19:50	20:35	0.75	5358	5387	29	8	38.7	80	0	250	1270		90.56	179.00	2.82	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	3-Jan	Sliding	20:35	21:05	0.50	5387	5397	10	8	20.0	80	0	250	1270	180	90.33	179.00	2.82	
3	3-Jan	Drilling	21:05	21:25	0.33	5397	5418	21	8	63.0	80	0	250	1270		89.84	179.00	2.82	
3	3-Jan	Drilling	21:35	23:00	1.42	5418	5479	61	8	43.1	80	0	250	1270		89.72	180.00	1.23	
3	3-Jan	Drilling	23:10	24:00	0.83	5479	5520	41	8	49.2	80	0	250	1270		89.96	179.00	1.16	
3	4-Jan	Drilling	00:00	00:20	0.33	5520	5541	21	8	63.0	80	0	250	1270		90.10	179.00	1.16	
3	4-Jan	Sliding	00:30	01:05	0.58	5541	5554	13	8	22.3	80	0	250	1270	180	90.18	179.00	1.16	
3	4-Jan	Drilling	01:05	01:50	0.75	5554	5574	20	8	26.7	80	0	250	1270		89.87	180.00	2.36	
3	4-Jan	Sliding	01:50	02:15	0.42	5574	5587	13	8	31.2	80	0	250	1270	180	89.61	180.00	2.36	
3	4-Jan	Drilling	02:15	02:35	0.33	5587	5603	16	8	48.0	80	0	250	1270		89.30	180.00	2.36	
3	4-Jan	Drilling	02:45	04:10	1.42	5603	5664	61	8	43.1	80	0	250	1270		89.29	180.00	0.79	
3	4-Jan	Drilling	04:20	05:50	1.50	5664	5727	63	8	42.0	80	0	250	1270		90.00	181.00	1.40	
3	4-Jan	Drilling	06:00	06:40	0.67	5727	5757	30	8	45.0	80	0	250	1270		89.86	180.00	2.40	
3	4-Jan	Sliding	06:55	07:15	0.33	5757	5767	10	8	30.0	80	0	250	1270	180	89.64	180.00	2.40	
3	4-Jan	Drilling	07:15	07:45	0.50	5767	5788	21	8	42.0	80	0	250	1270		89.16	180.00	2.40	
3	4-Jan	Drilling	07:55	09:25	1.50	5788	5850	62	8	41.3	80	0	250	1270		89.48	181.00	1.69	
3	4-Jan	Drilling	09:35	11:00	1.42	5850	5911	61	8	43.1	80	0	250	1270		88.66	180.00	2.31	
3	4-Jan	Sliding	11:25	11:50	0.42	5911	5921	10	8	24.0	80	0	250	1270	180	88.44	180.00	2.31	
3	4-Jan	Drilling	11:50	13:05	1.25	5921	5973	52	8	41.6	80	0	250	1270		88.38	181.00	1.00	
3	4-Jan	Drilling	13:15	14:30	1.25	5973	6034	61	8	48.8	80	0	250	1270		89.23	180.00	2.05	
3	4-Jan	Drilling	14:40	16:00	1.33	6034	6095	61	8	45.8	80	0	250	1270		89.87	180.00	1.26	
3	4-Jan	Drilling	16:10	17:40	1.50	6095	6157	62	8	41.3	80	0	250	1270		89.85	179.00	1.35	
3	4-Jan	Drilling	17:50	19:10	1.33	6157	6218	61	8	45.8	80	0	250	1270		89.72	178.00	0.37	
3	4-Jan	Drilling	19:20	20:20	1.00	6218	6279	61	8	61.0	80	0	250	1270		89.63	178.00	0.82	
3	4-Jan	Drilling	20:30	22:10	1.67	6279	6341	62	8	37.2	80	0	250	1270		89.75	178.00	0.46	
3	4-Jan	Drilling	22:20	23:30	1.17	6341	6402	61	8	52.3	80	0	250	1270		89.88	177.00	0.38	
3	4-Jan	Drilling	23:40	24:00	0.33	6402	6416	14	8	42.0	80	0	250	1270		89.91	177.00	0.67	
3	5-Jan	Drilling	00:00	00:25	0.42	6416	6422	6	8	14.4	80	0	250	1270		89.95	177.00	0.67	

Total Drilled:	2114	Avg. Total ROP:	45.63	DEPTH% - TIME %
Total Rotary Drilled:	2022	Avg. Rotary ROP:	47.39	Percent Rotary: 95.65 - 92.09
Total Drilled Sliding:	92	Avg. Slide ROP:	25.09	Percent Slide: 4.35 - 7.91

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District: R 10 W

MOTOR INFORMATION	
Desc:	4-3/4 Steerable Lateral Assembly
Bent Hsg/Sub:	1.7 / 1.7 5 / 5
PAD OD:	5 1/4
Bit to Bend:	0
NB Stab:	

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	5-Jan	Drilling	12:45	13:30	0.75	6422	6458	36	8	48.0	80	0	250	2050		90.18	177.00	0.67	
4	5-Jan	Drilling	13:40	15:00	1.33	6458	6520	62	8	46.5	80	0	250	2050		90.92	177.00	1.59	
4	5-Jan	Drilling	15:15	16:00	0.75	6520	6551	31	8	41.3	80	0	250	2050		91.14	177.00	1.87	
4	5-Jan	Sliding	16:00	16:30	0.50	6551	6562	11	8	22.0	80	0	250	2050	95R	91.09	177.00	1.87	
4	5-Jan	Drilling	16:30	17:00	0.50	6562	6582	20	8	40.0	80	0	250	2050		90.99	178.00	1.87	
4	5-Jan	Drilling	17:10	18:35	1.42	6582	6643	61	8	43.1	65	0	250	2050		90.14	179.00	2.75	
4	5-Jan	Sliding	18:45	19:35	0.83	6643	6665	22	8	26.4	65	0	250	2050	95R	89.83	179.00	1.37	
4	5-Jan	Drilling	19:35	20:40	1.08	6665	6705	40	8	36.9	65	0	250	2050		90.22	180.00	1.37	
4	5-Jan	Drilling	20:50	21:40	0.83	6705	6736	31	8	37.2	65	0	250	2050		90.07	180.00	2.83	
4	5-Jan	Sliding	21:40	22:00	0.33	6736	6746	10	8	30.0	65	0	250	2050	95R	89.79	180.00	2.83	
4	5-Jan	Drilling	22:00	22:20	0.33	6746	6767	21	8	63.0	65	0	250	2050		89.20	180.00	2.83	
4	5-Jan	Drilling	22:30	23:50	1.33	6767	6828	61	8	45.8	65	0	250	2050		89.67	180.00	2.28	
4	6-Jan	Drilling	00:00	01:20	1.33	6828	6890	62	8	46.5	65	0	250	2050		89.41	181.00	2.40	
4	6-Jan	Sliding	01:30	02:10	0.67	6890	6900	10	8	15.0	65	0	250	2050	95R	89.25	181.00	2.40	
4	6-Jan	Drilling	02:10	03:20	1.17	6900	6952	52	8	44.6	65	0	250	2050		89.45	181.00	0.84	
4	6-Jan	Drilling	03:30	04:50	1.33	6952	7013	61	8	45.8	65	0	250	2050		90.09	181.00	1.23	
4	6-Jan	Drilling	05:00	06:20	1.33	7013	7075	62	8	46.5	65	0	250	2050		89.47	181.00	2.63	
4	6-Jan	Sliding	06:30	07:05	0.58	7075	7090	15	8	25.7	65	0	250	2050	95R	89.18	182.00	2.63	
4	6-Jan	Drilling	07:05	08:10	1.08	7090	7137	47	8	43.4	65	0	250	2050		89.52	182.00	1.02	
4	6-Jan	Drilling	08:20	10:00	1.67	7137	7199	62	8	37.2	65	0	250	2050		90.12	182.00	1.10	
4	6-Jan	Drilling	10:10	11:00	0.83	7199	7229	30	8	36.0	65	0	250	2050		90.28	181.00	1.46	
4	6-Jan	Sliding	11:00	11:35	0.58	7229	7239	10	8	17.1	65	0	250	2050	95R	90.26	182.00	1.46	
4	6-Jan	Drilling	11:35	12:00	0.42	7239	7260	21	8	50.4	65	0	250	2050		90.23	182.00	1.46	
4	6-Jan	Drilling	12:10	13:45	1.58	7260	7322	62	8	39.2	65	0	250	2050		89.51	183.00	2.07	
4	6-Jan	Sliding	13:55	14:20	0.42	7322	7337	15	12	36.0	65	0	250	2050	95R	89.26	183.00	2.07	
4	6-Jan	Drilling	14:20	15:35	1.25	7337	7384	47	8	37.6	65	0	250	2050		89.55	183.00	0.84	

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	6-Jan	Drilling	15:45	17:00	1.25	7384	7445	61	8	48.8	65	0	250	2050		89.84	183.00	0.32	
4	6-Jan	Drilling	17:10	18:45	1.58	7445	7507	62	8	39.2	65	0	250	2050		89.76	183.00	0.58	
4	6-Jan	Drilling	18:55	20:20	1.42	7507	7569	62	8	43.8	65	0	250	2050		89.63	183.00	0.23	
4	6-Jan	Drilling	20:30	22:00	1.50	7569	7631	62	8	41.3	65	0	250	2050		89.95	183.00	0.96	
4	6-Jan	Drilling	22:10	23:20	1.17	7631	7677	46	8	39.4	65	0	250	2050		89.83	182.00	1.14	
4	6-Jan	Sliding	23:20	23:50	0.50	7677	7687	10	12	20.0	65	0	250	2050	95R	89.74	182.00	1.14	
4	6-Jan	Drilling	23:50	24:00	0.17	7687	7692	5	8	30.0	65	0	250	2050		89.69	182.00	1.14	
4	7-Jan	Drilling	00:10	00:50	0.67	7692	7723	31	8	46.5	65	0	250	2050		89.57	183.00	0.68	

Total Drilled:	1301	Avg. Total ROP:	40.03	DEPTH% - TIME %	
Total Rotary Drilled:	1198	Avg. Rotary ROP:	42.66	Percent Rotary:	92.08 - 86.41
Total Drilled Sliding:	103	Avg. Slide ROP:	23.32	Percent Slide:	7.92 - 13.59

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Country
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
SD District: R 10 W

MOTOR INFORMATION	
Desc:	4-3/4 Steerable Lateral Assembly
Bent Hsg/Sub:	1.5 / 1.5 Bit to Bend: 4.25
PAD OD:	5 1/4 NB Stab:

Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
5	7-Jan	Drilling	15:40	18:00	2.33	7723	7816	93	8	39.9	80	0	250	2050		90.11	182.00	0.51	
5	7-Jan	Drilling	18:10	19:00	0.83	7816	7847	31	8	37.2	80	0	250	2050		89.95	183.00	2.15	
5	7-Jan	Sliding	19:00	19:30	0.50	7847	7859	12	12	24.0	80	0	250	2050	180	89.70	183.00	2.15	
5	7-Jan	Drilling	19:30	19:55	0.42	7859	7878	19	8	45.6	80	0	250	2050		89.30	183.00	2.15	
5	7-Jan	Drilling	20:05	21:25	1.33	7878	7940	62	8	46.5	80	0	250	2050		89.25	182.00	0.84	
5	7-Jan	Drilling	21:35	23:00	1.42	7940	8001	61	8	43.1	80	0	250	2050		89.54	183.00	1.17	
5	7-Jan	Drilling	23:10	24:00	0.83	8001	8038	37	8	44.4	80	0	250	2050		89.77	181.00	0.97	
5	8-Jan	Drilling	00:00	00:35	0.58	8038	8063	25	8	42.9	80	0	250	2050		90.02	181.00	0.97	
5	8-Jan	Drilling	00:45	02:00	1.25	8063	8125	62	8	49.6	80	0	250	2050		90.06	182.00	0.46	
5	8-Jan	Drilling	02:10	03:10	1.00	8125	8187	62	8	62.0	80	0	250	2050		90.42	181.00	1.00	
5	8-Jan	Drilling	03:20	04:20	1.00	8187	8248	61	8	61.0	80	0	250	2050		90.60	181.00	0.38	
5	8-Jan	Drilling	04:30	05:25	0.92	8248	8300	52	8	56.7	80	0	250	2050		90.60	181.00	0.00	

Total Drilled:	577	Avg. Total ROP:	46.47	DEPTH% - TIME %
Total Rotary Drilled:	565	Avg. Rotary ROP:	47.41	Percent Rotary: 97.92 - 95.97
Total Drilled Sliding:	12	Avg. Slide ROP:	24.00	Percent Slide: 2.08 - 4.03

SDI Job #:	14-329
COMPANY:	Unit Petroleum
LOCATION:	ENE of Turon
RIG NAME:	Texas Unit #331
STATE:	Kansas
COUNTY:	USA
WELL NAME:	Miller 26 - #1H

FIELD:	Mississippian	
SEC-TWIN KING	T 25 S	
AFE# & District	26	R 10 W

Tool Utilization Report

Bits

12424245 - MMD64C ; 6-13' jets

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
5	11.92	0.50	13.42	13.42	62.50	577.00
1	11.92	0.50	13.42	13.42	62.50	577.00

<< Summary for 12424245

11951734 - FX 55 M 5x14's

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00
1	28.00	6.17	35.83	35.83	49.42	1,571.00

<< Summary for 11951734

12092285 - FX64D ; 3-14 ;3-12

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
4	28.08	4.42	33.75	34.50	51.00	1,301.00
2	70.75	8.08	82.83	84.08	115.50	3,563.00

<< Summary for 12092285

12103763 - MMD64M 6x13's

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
2	10.58	21.83	35.83	36.25	75.25	1,135.00
1	10.58	21.83	35.83	36.25	75.25	1,135.00
5	121.25	36.58	167.92	169.58	302.67	6,846.00

<< Summary for 12103763

<< Summary for Bits

DC

475301963 - NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
4	28.08	4.42	33.75	34.50	51.00	1,301.00
5	11.92	0.50	13.42	13.42	62.50	577.00
3	82.67	8.58	96.25	97.50	178.00	4,140.00

<< Summary for 475301963

Tool Utilization Report

65301955 - NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00
2	10.58	21.83	35.83	36.25	75.25	1,135.00
2	38.58	28.00	71.67	72.08	124.67	2,706.00

<< Summary for 65301955

Rig - 6.25 DC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00
1	28.00	6.17	35.83	35.83	49.42	1,571.00
6	149.25	42.75	203.75	205.42	352.08	8,417.00

<< Summary for Rig

<< Summary for DC

Flex Joints

475302988 - NMFC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
4	28.08	4.42	33.75	34.50	51.00	1,301.00
5	11.92	0.50	13.42	13.42	62.50	577.00
3	82.67	8.58	96.25	97.50	178.00	4,140.00

<< Summary for 475302988

6503007 - NMFC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00
2	10.58	21.83	35.83	36.25	75.25	1,135.00
2	38.58	28.00	71.67	72.08	124.67	2,706.00
5	121.25	36.58	167.92	169.58	302.67	6,846.00

<< Summary for 6503007

<< Summary for Flex Joints

Float Sub

INW4709 - Float Sub

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
1	42.67	3.67	49.08	49.58	64.50	2,262.00
1	42.67	3.67	49.08	49.58	64.50	2,262.00

<< Summary for INW4709

<< Summary for Float Sub

Motors

Tool Utilization Report

4750047SH - 1.5 Fixed

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
1	42.67	3.67	49.08	49.58	64.50	2,262.00

<< Summary for 4750047SH

475018 - 1.5 Fixed MTR

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
5	11.92	0.50	13.42	13.42	62.50	577.00
1	11.92	0.50	13.42	13.42	62.50	577.00

<< Summary for 475018

475021 - 1.75 Fixed Mtr.

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
4	28.08	4.42	33.75	34.50	51.00	1,301.00
1	28.08	4.42	33.75	34.50	51.00	1,301.00

<< Summary for 475021

675021 - 1.75 Deg FBH Motor

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00
1	28.00	6.17	35.83	35.83	49.42	1,571.00

<< Summary for 675021

675041 - 2.0 Deg FBH Motor

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
2	10.58	21.83	35.83	36.25	75.25	1,135.00
1	10.58	21.83	35.83	36.25	75.25	1,135.00
5	121.25	36.58	167.92	169.58	302.67	6,846.00

<< Summary for 675041

<< Summary for Motors

Muleshoes

MSDi669 - Muleshoe Sub

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
3	42.67	3.67	49.08	49.58	64.50	2,262.00
4	28.08	4.42	33.75	34.50	51.00	1,301.00
5	11.92	0.50	13.42	13.42	62.50	577.00
3	82.67	8.58	96.25	97.50	178.00	4,140.00

<< Summary for MSDi669

MWDSi 642 - UBHO

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	28.00	6.17	35.83	35.83	49.42	1,571.00

Tool Utilization Report

2	10.58	21.83	35.83	36.25	75.25	1,135.00
2	38.58	28.00	71.67	72.08	124.67	2,706.00
5	121.25	36.58	167.92	169.58	302.67	6,846.00

<< Summary for MWDSi 642

<< Summary for Muleshoes

SDI Job #: 14-329
COMPANY: Unit Petroleum
LOCATION: ENE of Turon
RIG NAME: Texas Unit #331
STATE: Kansas
COUNTY: Reno
WELL NAME: Miller 26 - #1H

FIELD: Mississippian
Sec-Twn-Rng: T 25 S
AFE# & District: 26 R 10 W

COMMENT		

BHA Summary Report for JOB

#	TIME IN - OUT			DEPTHS		Footage			ROP		RPM	FLOW	Incl.		Azimuth		Weight Ranges			
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary			Slide	Rate	IN	OUT	IN	OUT	SO	PU
1	28-Dec-14 @ 09:20	30-Dec-14 @ 10:45	49.42	1502.0	3110.0	1330.0	241.0	1571.0	45.98	47.5	39.1	0-50	0-540	.0	.0	.0	.0	0-90	0-108	0-90
				Hours>		28.00	6.17	34.17												

FX 55 M 5x14's
 O.D.= 8-3/4
 Length=1

UBHO
 O.D.=8-3/4
 Length=2.49



1.75 Deg FBH Motor
 O.D.=8-3/4
 Length=25.8

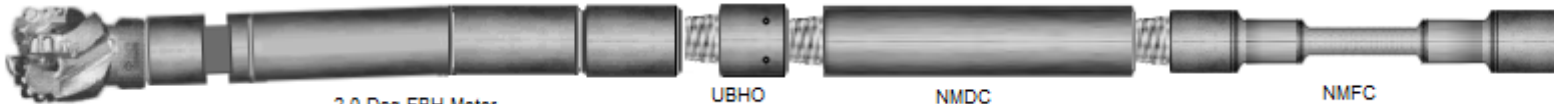
NMDC
 O.D.=8-1/4
 Length=29.81

NMFC
 O.D.=8-9/16
 Length=29.95

8.25 DC
 O.D.=8.25
 Length=182.08

#	TIME IN - OUT			DEPTHS		Footage			ROP		RPM	FLOW	Incl.		Azimuth		Weight Ranges			
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary			Slide	Rate	IN	OUT	IN	OUT	SO	PU
2	30-Dec-14 @ 10:45	02-Jan-15 @ 14:00	75.25	3173.0	4308.0	324.0	811.0	1135.0	35.01	30.6	37.1	50-50	540-540	.0	.0	.0	.0	90-90	108-108	90-90
				Hours>		10.58	21.83	32.42												

MMD64M 6x13's
 O.D.= 8-3/4
 Length=1



2.0 Deg FBH Motor
 O.D.=8-3/4
 Length=25.84

UBHO
 O.D.=8-3/4
 Length=2.49

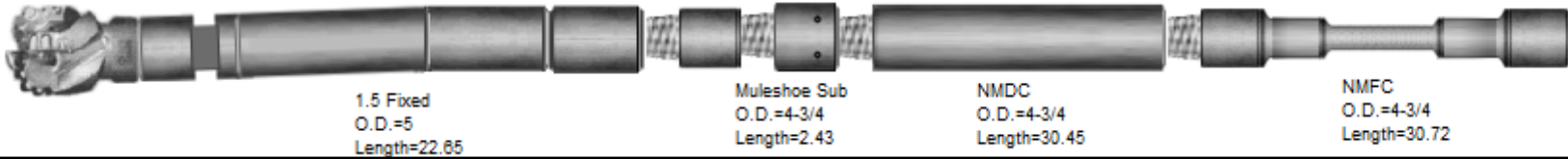
NMDC
 O.D.=8-1/4
 Length=29.81

NMFC
 O.D.=8-9/16
 Length=29.95

BHA Summary Report for JOB

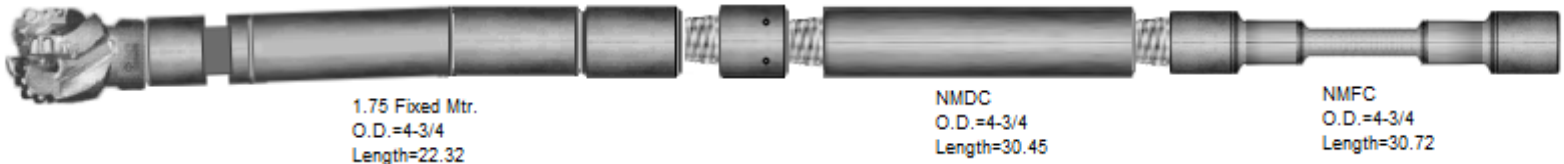
#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW Rate	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide			IN	OUT	IN	OUT	SO	PU	RAB
3	02-Jan-15 @ 14:00	05-Jan-15 @ 06:30	64.50	4146.0	6422.0	2022.0	92.0	2262.0	48.82	47.4	25.1	50-80	250-250	.0	.0	.0	.0	65-90	78-110	78-90
				Hours>		42.67	3.67	46.33												

FX64D ; 3-14 ;3-12
O.D.=6-1/8
Length=0.75



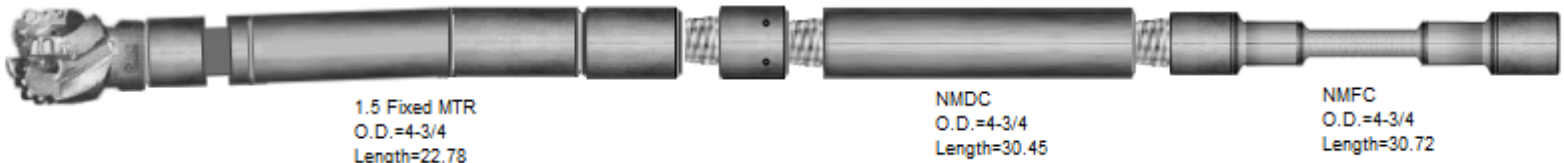
#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW Rate	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide			IN	OUT	IN	OUT	SO	PU	RAB
4	05-Jan-15 @ 06:30	07-Jan-15 @ 09:30	51.00	6422.0	7723.0	1198.0	103.0	1301.0	40.03	42.7	23.3	65-80	250-250	.0	.0	.0	.0	76-76	78-78	78-78
				Hours>		28.08	4.42	32.50												

FX64D ; 3-14 ;3-12
O.D.=6-1/8
Length=0.75



#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW Rate	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide			IN	OUT	IN	OUT	SO	PU	RAB
5	07-Jan-15 @ 09:30	09-Jan-15 @ 24:00	62.50	7723.0	8300.0	565.0	12.0	577.0	46.47	47.4	24.0	80-80	250-250	.0	.0	.0	.0	76-76	78-78	78-78
				Hours>		11.92	0.50	12.42												

MMD64C ; 6-13' jets
O.D.=6-1/8
Length=0.75



BHA # 1

SDI Job #: 14-329	Work Order:	FIELD: Mississippian
COMPANY: Unit Petroleum		Sec-Twn-Rng: T 25 S
LOCATION: ENE of Turon		PO #/ DISTRICT: 26 R 10 W
RIG NAME: Texas Unit #331		Lead DD: Robert Johnson
STATE: Kansas		Co. Man: L. Miller, G. Monday
COUNTY: Reno		BHA TYPE: Steerable Assembly
WELL NAME: Miller 26 - #1H		BHA WT: 21959 Wt @ Jars: N/A

Time and Depths		Motor Data		Drilling Parameters	
Date In: 28-Dec-14 @ 09:20	6-3/4 Steerable Nudge	SO/PU: 0 - 90 / 0-108			
Date Out: 30-Dec-14 @ 10:45	MFG.: InWell	Rot Strg Wt: 0-90			
Hrs In Hole: 49.42	PAD OD: 7 1/16	WOB: 0 - 8			
Start Depth: 1502.00	NB Stab: 0	TORQ: 0 - 0			
End Depth: 3110.00	Bit to Bend: 5.7	SPP: 0 - 2040			
Total Drilled: 1571.00	Bent Hsg/Sub°: 1.75 / 1.75	Motor RPM: 124 - 156			
Avg. Total ROP: 45.98	Lobe/Stage: 7/8 / 5	Rotary RPM: 0 - 50			
Circ Hrs: Tot/Only 35.83 / 1.67	Rev/GAL: 0.288	Flow Rate: 0 - 540			
Percent Slide: 15.34	Rotor Jet: 0	Avg Diff:			
Percent Hrs: 18.05	Prop BUR: 10	Stall Pres.:			
Slide Hours: 6.17	Act BUR:	Off Bot Pres.:			
Total Sliding: 241.00	Mud Data		Bit Record		
Avg. Slide ROP: 39.08	Type		OTHER / FX 55 M 5x14's		
Percent Rotary: 84.66	WT: 0	GAS: 0	Run #: 2		
Percent Hrs: 81.95	Vis: 0	PV: 0	Type Bit: PDC		
Rotary Hours: 28.00	WL: 0	PH: 0	IADC#:	TFA: 0.751	
Total Rotary: 1330.00	SOL: 0	SAND: 0	JETS: 5-14		
Avg. Rotary ROP: 47.50	Oil %: 0	T °: 0	Bit Drop: 0 PSI @ 540 GPM		
Reason POOH:	Chlor: 0	YP: 0	Cond.:		

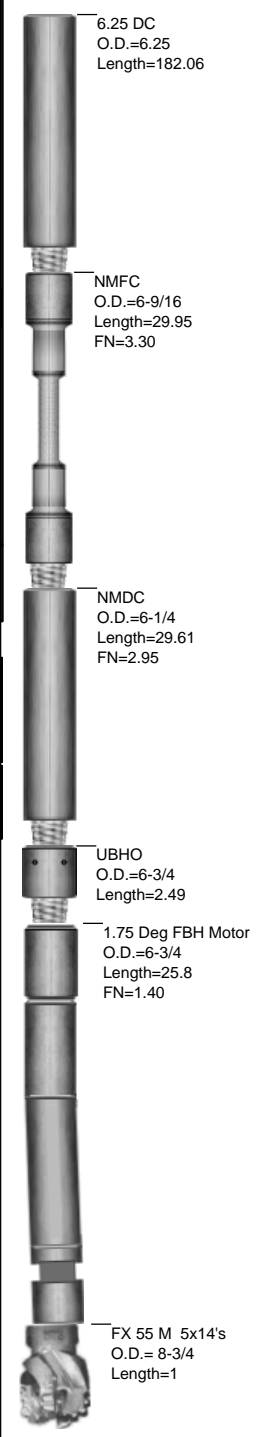
MWD Spacing	Gamma: 36	Restiv: 0	Sensor: 47	Last Casing	O.D.
	GYRO: 0	DNSC: 1502	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 **INC OUT:** .0 **AZM IN:** .00 **AZM OUT:** .00

6 3/4 In. 7/8 Lobe 5.0 Stage Bit to Bend = 5.70'
 Rev.Per Gal = .288 Flow Rate = 300 to 600 GPM
 Bit to Survey = 45.00' + 2' (Stick-Up) = 47.00'
 Bit to Gamma = 36.00'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
FX 55 M 5x14's	11951734	2-3/4	8-3/4	1.00	1.00	4 1/2 REGP	
1.75 Deg FBH Motor	675021	5-3/4	6-3/4	25.80	26.80	4 1/2 XHB	InWell
UBHO	MWDSi 642	2-13/16	6-3/4	2.49	29.29	4 1/2 XHB	MWDSI
NMDC	65301955	2-3/4	6-1/4	29.61	58.90	4 1/2 XHB	AWF
NMFC	6503007	2-3/4	6-9/16	29.95	88.85	4 1/2 XHB	AWF
6.25 DC	Rig	2-3/4	6.25	182.06	270.91	4 1/2 XHB	



BHA # 2

SDI Job #: 14-329	Work Order:	FIELD: Mississippian
COMPANY: Unit Petroleum		Sec-Twn-Rng: T 25 S
LOCATION: ENE of Turon		PO #/ DISTRICT 26 R 10 W
RIG NAME: Texas Unit #331		Lead DD: Robert Johnson
STATE: Kansas		Co. Man: L. Miller, G. Monday
COUNTY: Reno		BHA TYPE: Steerable Assembly
WELL NAME: Miller 26 - #1H		BHA WT: 6633 Wt @ Jars: N/A

Time and Depths		Motor Data		Drilling Parameters	
Date In: 30-Dec-14 @ 10:45	6-3/4 Steerable Curve	SO/PU: 90 - 90 / 108-108			
Date Out: 02-Jan-15 @ 14:00	MFG.: InWell	Rot Strg Wt: 90-90			
Hrs In Hole: 55.75	PAD OD: 7 1/16	WOB: 8 - 8			
Start Depth: 3173.00	NB Stab: 0	TORQ: 0 - 0			
End Depth: 4308.00	Bit to Bend: 0	SPP: 2040 - 2040			
Total Drilled: 1135.00	Bent Hsg/Sub°: 2 /	Motor RPM: 156			
Avg. Total ROP: 35.01	Lobe/Stage: 7/8 / 5	Rotary RPM: 50 - 50			
Circ Hrs: Tot/Only 36.25 / 3.83	Rev/GAL: 0.288	Flow Rate: 540 - 540			
Percent Slide: 71.45	Rotor Jet: 0	Avg Diff:			
Percent Hrs: 67.35	Prop BUR: 12	Stall Pres.:			
Slide Hours: 21.83	Act BUR:	Off Bot Pres.:			
Total Sliding: 811.00					
Avg. Slide ROP: 37.15					
Percent Rotary: 28.55					
Percent Hrs: 32.65					
Rotary Hours: 10.58					
Total Rotary: 324.00					
Avg. Rotary ROP: 30.61					
Reason POOH:					

Mud Data				Bit Record	
Type				/ MMD64M 6x13's	
WT: 0	GAS: 0	Run #: 3			
Vis: 0	PV: 0	Type Bit: PDC			
WL: 0	PH: 0	IADC#: TFA: 0.777			
SOL: 0	SAND: 0	JETS: 6-13			
Oil %: 0	T °: 0	Bit Drop: 0 PSI @ 540 GPM			
Chlor: 0	YP: 0	Cond.:			

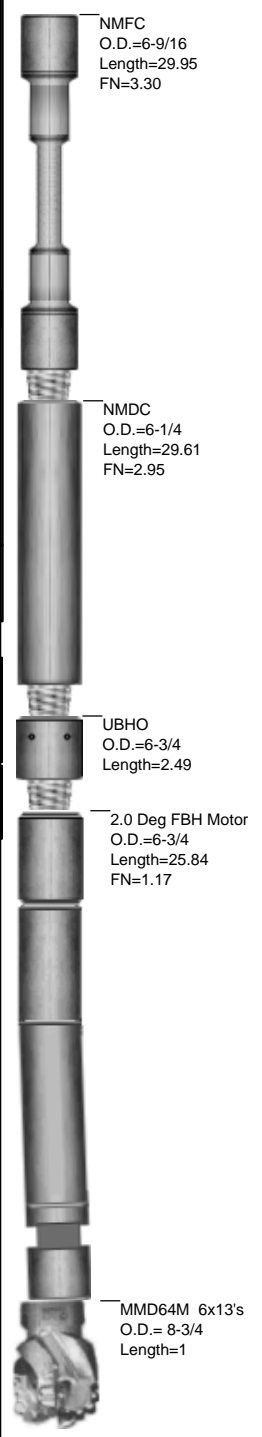
MWD Spacing	Gamma: 47	Restiv: 0	Sensor: 36	Last Casing	O.D.
	GYRO: 0	DNCS: 3173	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 **INC OUT:** .0 **AZM IN:** .00 **AZM OUT:** .00

6 3/4 In. 7/8 Lobe 5.0 Stage Bit to Bend = 5.70'
 Rev.Per Gal = .288 Flow Rate = 300 to 600 GPM
 Bit to Survey = 45.00' + 2' (Stick-Up) = 47.00'
 Bit to Gamma = 36.00'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
MMD64M 6x13's	12103763	2-3/4	8-3/4	1.00	1.00	4 1/2 REGP	
2.0 Deg FBH Motor	675041	5-3/4	6-3/4	25.84	26.84	4 1/2 XHB	InWell
UBHO	MWDSi 642	2-13/16	6-3/4	2.49	29.33	4 1/2 XHB	MWDSI
NMDC	65301955	2-3/4	6-1/4	29.61	58.94	4 1/2 XHB	AWF
NMFC	6503007	2-3/4	6-9/16	29.95	88.89	4 1/2 XHB	AWF



BHA # 3

SDI Job #: 14-329	Work Order:	FIELD: Mississippian
COMPANY: Unit Petroleum		Sec-Twn-Rng: T 25 S
LOCATION: ENE of Turon		PO #/ DISTRICT: 26 R 10 W
RIG NAME: Texas Unit #331		Lead DD: Robert Johnson
STATE: Kansas		Co. Man: L. Miller, M. Lopez
COUNTY: Reno		BHA TYPE: Steerable Assembly
WELL NAME: Miller 26 - #1H		BHA WT: 3440 Wt @ Jars: N/A

Time and Depths	Motor Data	Drilling Parameters
Date In: 02-Jan-15 @ 14:00	4-3/4 Steerable Lateral	SO/PU: 65 - 90 / 78-110
Date Out: 05-Jan-15 @ 06:30	MFG.: InWell	Rot Strg Wt: 78-90
Hrs In Hole: 64.50	PAD OD: 5 1/4	WOB: 8 - 8
Start Depth: 4308.00	NB Stab: 0	TORQ: 0 - 0
End Depth: 6422.00	Bit to Bend: 4.86	SPP: 1270 - 2040
Total Drilled: 2114.00	Bent Hsg/Sub°: 1.5 / 1.5	Motor RPM: 130
Avg. Total ROP: 45.63	Lobe/Stage: 7/8 / 3.8	Rotary RPM: 80 - 80
Circ Hrs: Tot/Only 49.58 / 3.25	Rev/GAL: 0.521	Flow Rate: 250 - 250
Percent Slide: 4.35	Rotor Jet: 0	Avg Diff:
Percent Hrs: 7.91	Prop BUR: 10	Stall Pres.:
Slide Hours: 3.67	Act BUR:	Off Bot Pres.:
Total Sliding: 92.00		
Avg. Slide ROP: 25.09		
Percent Rotary: 95.65		
Percent Hrs: 92.09		
Rotary Hours: 42.67		
Total Rotary: 2022.00		
Avg. Rotary ROP: 47.39		
Reason POOH:		

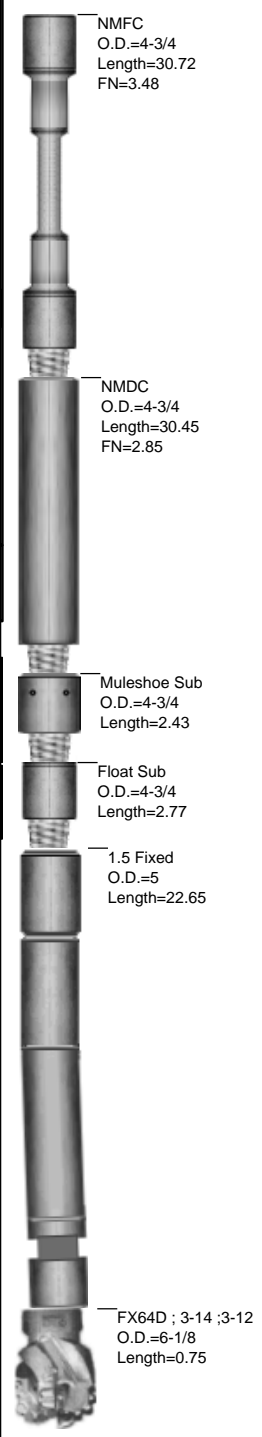
Mud Data	Bit Record
Type	SMITH / FX64D ; 3-14 ;3-12
WT: 0 GAS: 0	Run #: 4
Vis: 0 PV: 0	Type Bit: PDC
WL: 0 PH: 0	IADC#: TFA: 0.782
SOL: 0 SAND: 0	JETS: 3-12,3-14
Oil %: 0 T °: 0	Bit Drop: 0 PSI @ 250 GPM
Chlor: 0 YP: 0	Cond.:

MWD Spacing	Gamma: 35	Restiv: 0	Sensor: 46	Last Casing	O.D.
	GYRO: 0	DNCS: 4308	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 **INC OUT:** .0 **AZM IN:** .00 **AZM OUT:** .00

4 3/4 In. 7/8 Lobe 3.8 Stage Bit to Bend = 4.86'
 Rev.Per Gal = .521 Flow Rate = 150 to 300 GPM
 Bit to Survey = 44.00' + 2' (Stick-Up) = 46.00'
 Bit to Gamma = 35.00'

BHA Detail							
Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
FX64D ; 3-14 ;3-12	12092285	2-1/2	6-1/8	0.75	0.75	3 1/2 REGP	
1.5 Fixed	4750047SH	3-3/4	5	22.65	23.40	3 1/2 IFB	TomHawk
Float Sub	INW4709	2-3/4	4-3/4	2.77	26.17	3 1/2 IFB	InWell
Muleshoe Sub	MSDi669	2-3/4	4-3/4	2.43	28.60	3 1/2 IFB	MWDSI
NMDC	475301963	2-11/16	4-3/4	30.45	59.05	3 1/2 IFB	AWF
NMFC	475302988	2-11/16	4-3/4	30.72	89.77	3 1/2 IFB	AWF



BHA # 4

SDI Job #: 14-329	Work Order:	FIELD: Mississippian
COMPANY: Unit Petroleum		Sec-Twn-Rng: T 25 S
LOCATION: ENE of Turon		PO #/ DISTRICT: 26 R 10 W
RIG NAME: Texas Unit #331		Lead DD: Robert Johnson
STATE: Kansas		Co. Man: L. Miller, M. Lopez
COUNTY: Reno		BHA TYPE: Steerable Assembly
WELL NAME: Miller 26 - #1H		BHA WT: 3174 Wt @ Jars: N/A

Time and Depths		Motor Data		Drilling Parameters	
Date In: 05-Jan-15 @ 06:30	4-3/4 Steerable Lateral	SO/PU: 76 - 76 / 78-78			
Date Out: 07-Jan-15 @ 09:30	MFG.: InWell	Rot Strg Wt: 78-78			
Hrs In Hole: 51.00	PAD OD: 5 1/4	WOB: 8 - 12			
Start Depth: 6422.00	NB Stab: 0	TORQ: 0 - 0			
End Depth: 7723.00	Bit to Bend: 0	SPP: 1270 - 2050			
Total Drilled: 1301.00	Bent Hsg/Sub°: 1.75 / 1.75	Motor RPM: 130			
Avg. Total ROP: 40.03	Lobe/Stage: 7/8 / 3.8	Rotary RPM: 65 - 80			
Circ Hrs: Tot/Only 34.50 / 2.00	Rev/GAL: 0.521	Flow Rate: 250 - 250			
Percent Slide: 7.92	Rotor Jet: 0	Avg Diff:			
Percent Hrs: 13.59	Prop BUR: 10	Stall Pres.:			
Slide Hours: 4.42	Act BUR:	Off Bot Pres.:			
Total Sliding: 103.00					
Avg. Slide ROP: 23.32					
Percent Rotary: 92.08					
Percent Hrs: 86.41					
Rotary Hours: 28.08					
Total Rotary: 1198.00					
Avg. Rotary ROP: 42.66					
Reason POOH:					

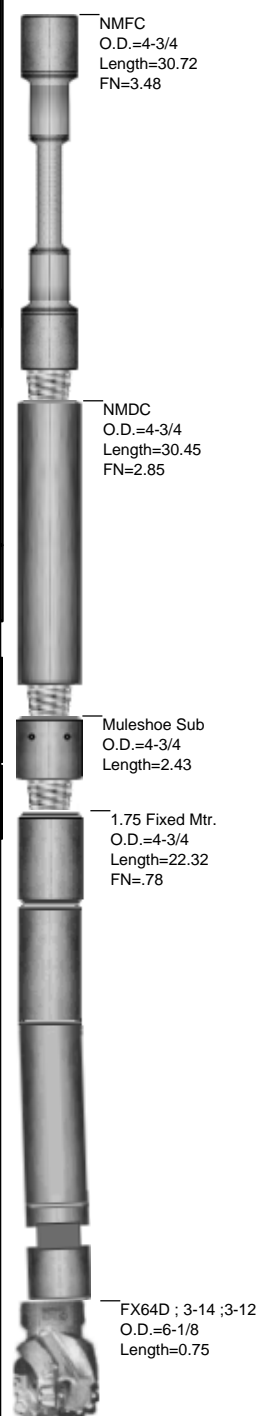
MWD Spacing	Gamma: 32	Restiv: 0	Sensor: 43	Last Casing	O.D.
	GYRO: 0	DNCS: 6422	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 **INC OUT:** .0 **AZM IN:** .00 **AZM OUT:** .00

4 3/4 In. 7/8 Lobe 3.8 Stage Bit to Bend = 4.86'
 Rev.Per Gal = .521 Flow Rate = 150 to 300 GPM
 Bit to Survey = 41.00' + 2' (Stick-Up) = 43.00'
 Bit to Gamma = 32.00'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
FX64D ; 3-14 ;3-12	12092285	2-1/2	6-1/8	0.75	0.75	3 1/2 REGP	
1.75 Fixed Mtr.	475021	3-3/4	4-3/4	22.32	23.07	3 1/2 IFB	InWell
Muleshoe Sub	MSDi669	2-3/4	4-3/4	2.43	25.50	3 1/2 IFB	MWDSI
NMDC	475301963	2-11/16	4-3/4	30.45	55.95	3 1/2 IFB	AWF
NMFC	475302988	2-11/16	4-3/4	30.72	86.67	3 1/2 IFB	AWF



BHA # 5

SDI Job #: 14-329	Work Order:	FIELD: Mississippian
COMPANY: Unit Petroleum		Sec-Twn-Rng: T 25 S
LOCATION: ENE of Turon		PO #/ DISTRICT 26 R 10 W
RIG NAME: Texas Unit #331		Lead DD: Robert Johnson
STATE: Kansas		Co. Man: L. Miller, M. Lopez
COUNTY: Reno		BHA TYPE: Steerable Assembly
WELL NAME: Miller 26 - #1H		BHA WT: 3184 Wt @ Jars: N/A

Time and Depths	Motor Data	Drilling Parameters
Date In: 07-Jan-15 @ 09:30	4-3/4 Steerable Lateral	SO/PU: 76 - 76 / 78-78
Date Out: 09-Jan-15 @ 24:00	MFG.: InWell	Rot Strg Wt: 78-78
Hrs In Hole: 27.00	PAD OD: 5 1/4	WOB: 8 - 12
Start Depth: 7723.00	NB Stab: 0	TORQ: 0 - 0
End Depth: 8300.00	Bit to Bend: 4.25	SPP: 2050 - 2050
Total Drilled: 577.00	Bent Hsg/Sub°: 1.5 / 1.5	Motor RPM: 130
Avg. Total ROP: 46.47	Lobe/Stage: 7/8 / 3.8	Rotary RPM: 80 - 80
Circ Hrs: Tot/Only 13.42 / 1.00	Rev/GAL: 0.521	Flow Rate: 250 - 250
Percent Slide: 2.08	Rotor Jet: 0	Avg Diff:
Percent Hrs: 4.03	Prop BUR: 10	Stall Pres.:
Slide Hours: .50	Act BUR:	Off Bot Pres.:
Total Sliding: 12.00		
Avg. Slide ROP: 24.00		
Percent Rotary: 97.92		
Percent Hrs: 95.97		
Rotary Hours: 11.92		
Total Rotary: 565.00		
Avg. Rotary ROP: 47.41		
Reason POOH:		

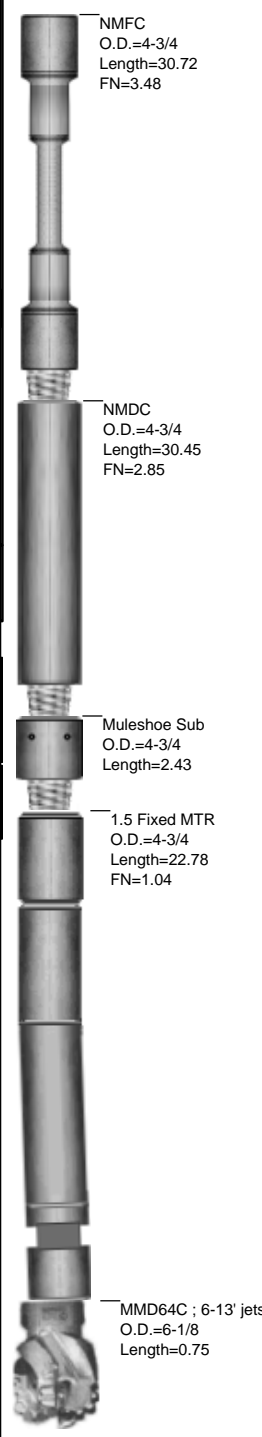
Mud Data		Bit Record	
Type		OTHER / MMD64C ; 6-13' jets	
WT: 0	GAS: 0	Run #:	
Vis: 0	PV: 0	Type Bit: PDC	
WL: 0	PH: 0	IADC#:	TFA: 0.777
SOL: 0	SAND: 0	JETS: 6-13	
Oil %: 0	T °: 0	Bit Drop: 0 PSI @ 250 GPM	
Chlor: 0	YP: 0	Cond.:	

MWD Spacing	Gamma: 32	Restiv: 0	Sensor: 43	Last Casing	O.D.
	GYRO: 0	DNVC: 7723	Sonic: 0	Shoe @:	Hanger @:

INC IN: .0 **INC OUT:** .0 **AZM IN:** .00 **AZM OUT:** .00

4 3/4 In. 7/8 Lobe 3.8 Stage Bit to Bend = 4.25'
 Rev.Per Gal = .521 Flow Rate = 150 to 300 GPM
 Bit to Survey = 41.00' + 2' (Stick-Up) = 43.00'
 Bit to Gamma = 32.00'

BHA Detail							
Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
MMD64C ; 6-13' jets	12424245	2-1/2	6-1/8	0.75	0.75	3 1/2 REGP	
1.5 Fixed MTR	475018	3-3/4	4-3/4	22.78	23.53	3 1/2 IFB	InWell
Muleshoe Sub	MSDi669	2-3/4	4-3/4	2.43	25.96	3 1/2 IFB	MWDSI
NMDC	475301963	2-11/16	4-3/4	30.45	56.41	3 1/2 IFB	AWF
NMFC	475302988	2-11/16	4-3/4	30.72	87.13	3 1/2 IFB	AWF



SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 1 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Friday, December 26, 2014 at 0000 to Friday, December 26, 2014 at 2400

DAILY TOTALS			Assembly Totals									
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
0.00	0.00	0.00										
Total Drilled:	0.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 0
Avg. Total ROP:	NA		WOB:	0	Weight:	0	Model					
Slide Footage:	0.00		Rot Wt:	0	Visc:	0	SN.:					
Slide Hours	0.00		Pick UP:	0	Chlorides:	0	MFG.					
Avg. Slide ROP:	NA		Slack Off:	0	YP:	0	Type					
Rotate Footage:	0.00		SPP:	0	PV:	0	IADC					
Rotary Hours	0.00		Flow:	0 - 0	PH:	0	JETS					
Avg. Rot ROP:	NA		SPM:	0	GAS:	0	TFA:					
Circ Hours	0.00		Rot. RPM	-	SAND:	0	Hole ID: N/A					
Ream Hours	0.00		Mot RPM:	-	WL:	0	Bit Hrs:					
Rotary Hrs%:	NA		Incl. In:	0	SOLID:	0	Bit Ftg:					
Slide Hrs%:	NA		Azm. In:	0	BHT°:	0	Pumps					
Rotary Ftg%:	NA		Incl. Out:	0	Flow T°:	0	Liner	0	0			
Slide Ftg%:	NA		Azm. Out:	0	Oil %:	0	Stroke	0	0			
Casing			Cost Breakdown									
Size	Lb/Ft	MD										
			Effic. 95.00% 95.00%									
			Gal/Stk 0.00 0.00									
			BBL/Stk 0.000 0.000									

GENERAL COMMENT

Personal Standby / Travel Day

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
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00:00	24:00	24.00	1502	1502	0	.00	Standby	Personal Standby / Travel Day
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SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 2 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Saturday, December 27, 2014 at 0000 to Saturday, December 27, 2014 at 2400

DAILY TOTALS			Assembly Totals									
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
0.00	0.00	0.00										
Total Drilled:	0.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 0
Avg. Total ROP:	NA		WOB:	0	Weight:	0	Model					
Slide Footage:	0.00		Rot Wt:	0	Visc:	0	SN.:					
Slide Hours	0.00		Pick UP:	0	Chlorides:	0	MFG.					
Avg. Slide ROP:	NA		Slack Off:	0	YP:	0	Type					
Rotate Footage:	0.00		SPP:	0	PV:	0	IADC					
Rotary Hours	0.00		Flow:	0 - 0	PH:	0	JETS					
Avg. Rot ROP:	NA		SPM:	0	GAS:	0	TFA:					
Circ Hours	0.00		Rot. RPM	-	SAND:	0	Hole ID: N/A					
Ream Hours	0.00		Mot RPM:	-	WL:	0	Bit Hrs:					
Rotary Hrs%:	NA		Incl. In:	0	SOLID:	0	Bit Ftg:					
Slide Hrs%:	NA		Azm. In:	0	BHT°:	0	Pumps					
Rotary Ftg%:	NA		Incl. Out:	0	Flow T°:	0	Liner	0	0			
Slide Ftg%:	NA		Azm. Out:	0	Oil %:	0	Stroke	0	0			
Casing			Cost Breakdown									
Size	Lb/Ft	MD										
			Effic. 95.00% 95.00%									
			Gal/Stk 0.00 0.00									
			BBL/Stk 0.000 0.000									

GENERAL COMMENT

Nipple Up and Test BOP's

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
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00:00	24:00	24.00	1502	1502	0	.00	Standby	Nipple Up BOP's, and Test
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SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 3 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Sunday, December 28, 2014 at 0000 to Sunday, December 28, 2014 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
1502.00	1907.00	16.02	1	675021	241.00	6.17	1,330.00	28.00	1.67	35.83	1,571.00	43.84	
Total Drilled:	405.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 1	
Avg. Total ROP:	42.63		WOB:	8	Weight:	0	Bit No:	2	FX 55 M 5x14's 1.75 Deg FBH Motor UBHO NMDC NMFC 6.25 DC				
Slide Footage:	94.00		Rot Wt:	0	Visc:	0	Model:	FX 55 M					
Avg. Slide ROP:	40.29		Pick UP:	0	Chlorides:	0	SN.:	11951734					
Rotate Footage:	311.00		Slack Off:	0	YP:	0	MFG.	OTHER					
Rotary Hours	7.17		SPP:	1365	PV:	0	Type	PDC					
Avg. Rot ROP:	43.40		Flow:	0 - 432	PH:	0	IADC						
Circ Hours	0.25		SPM:	160	GAS:	0	JETS	5-14					
Ream Hours	0.00		Rot. RPM	0 - 50	SAND:	0	TFA:	0.751					
Rotary Hrs%:	75.44		Mot RPM:	0 - 50	WL:	0	Hole ID:	8-3/4					
Slide Hrs%:	24.56		Incl. In:	2.33	SOLID:	0	Bit Hrs:	34.17					
Rotary Ftg%:	76.79		Azm. In:	169.35	BHT°:	0	Bit Ftg:	1571.00					
Slide Ftg%:	23.21		Incl. Out:	5.6	Flow T°:	0	Pumps						
Casing			Azm. Out:	5.5	Oil %:	0	Liner	0	0				
Size	Lb/Ft	MD	Cost Breakdown			Stroke	0	0					
						Effic.	95.00%	95.00%					
						Gal/Stk	0.00	0.00					
						BBL/Stk	0.000	0.000					

GENERAL COMMENT

Drilling Nudge

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:01	0.02	1502	1502	0	.00		
00:01	08:00	7.98	1502	1502	0	.00	Standby	Standby
08:00	09:20	1.33	1502	1502	0	.00	Change BHA	Change BHA
09:20	10:45	1.42	1502	1502	0	.00	TIH	TIH
10:45	11:45	1.00	1502	1529	27	27.00	Drilling	TIH
11:45	12:00	0.25	1529	1529	0	.00	Circulating	Circulating
12:00	13:15	1.25	1529	1529	0	.00	Wireline	Wireline
13:15	14:50	1.58	1529	1529	0	.00	Other	Other-Working on Flow Line.
14:50	16:20	1.50	1529	1593	64	42.67	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
16:20	16:30	0.17	1593	1593	0	.00	Survey & Conn.	Survey & Conn. @1546' Inc 2.5° Azm 182.6°
16:30	17:15	0.75	1593	1618	25	33.33	Sliding	Sliding - (WOB:8;GPM :432;TFO:0))
17:15	18:50	1.58	1618	1687	69	43.58	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
18:50	19:00	0.17	1687	1687	0	.00	Survey & Conn.	Survey & Conn. @1640' Inc 0.5° Azm 46.7°
19:00	19:35	0.58	1687	1710	23	39.43	Sliding	Sliding - (WOB:8;GPM :432;TFO:0))

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
19:35	21:05	1.50	1710	1782	72	48.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
21:05	21:15	0.17	1782	1782	0	.00	Survey & Conn.	Survey & Conn.@1735' Inc 2.9° Azm 8.3°
21:15	21:50	0.58	1782	1805	23	39.43	Sliding	Sliding - (WOB:8;GPM :432;TFO:0))
21:50	23:10	1.33	1805	1877	72	54.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
23:10	23:20	0.17	1877	1877	0	.00	Survey & Conn.	Survey & Conn.@1830' Inc 5.6° Azm 5.5°
23:20	23:45	0.42	1877	1900	23	55.20	Sliding	Sliding - (WOB:8;GPM :432;TFO:354)
23:45	24:00	0.25	1900	1907	7	28.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 4 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Monday, December 29, 2014 at 0000 to Monday, December 29, 2014 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
1907.00	3035.00	24.00	1	675021	241.00	6.17	1,330.00	28.00	1.67	35.83	1,571.00	43.84	
Total Drilled:	1128.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 1	
Avg. Total ROP:	52.06		WOB:	8	Weight:	0	Bit No:	2	FX 55 M 5x14's 1.75 Deg FBH Motor UBHO NMDC NMFC 6.25 DC				
Slide Footage:	131.00		Rot Wt:	90	Visc:	0	Model:	FX 55 M					
Slide Hours:	3.50		Pick UP:	108	Chlorides:	0	SN.:	11951734					
Avg. Slide ROP:	37.43		Slack Off:	90	YP:	0	MFG.:	OTHER					
Rotate Footage:	997.00		SPP:	2040	PV:	0	Type:	PDC					
Rotary Hours:	18.17		Flow:	432 - 540	PH:	0	IADC:						
Avg. Rot ROP:	54.88		SPM:	200	GAS:	0	JETS:	5-14					
Circ Hours:	0.42		Rot. RPM:	50 - 50	SAND:	0	TFA:	0.751					
Ream Hours:	0.00		Mot RPM:	50 - 50	WL:	0	Hole ID:	8-3/4					
Rotary Hrs%:	83.85		Incl. In:	5.6	SOLID:	0	Bit Hrs:	34.17					
Slide Hrs%:	16.15		Azm. In:	5.5	BHT°:	0	Bit Ftg:	1571.00					
Rotary Ftg%:	88.39		Incl. Out:	3.8	Flow T°:	0	Pumps						
Slide Ftg%:	11.61		Azm. Out:	340.5	Oil %:	0	Liner	0	0				
Casing			Cost Breakdown			Stroke	0	0					
Size	Lb/Ft	MD				Effic.	95.00%	95.00%					
						Gal/Stk	0.00	0.00					
						BBL/Stk	0.000	0.000					

GENERAL COMMENT

Drilling Nudge

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	01:00	1.00	1907	1972	65	65.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
01:00	01:10	0.17	1972	1972	0	.00	Survey & Conn.	Survey & Conn. @1925' Inc 8.5° Azm 3.4°
01:10	01:30	0.33	1972	1995	23	69.00	Sliding	Sliding - (WOB:8;GPM :432;TFO:354))
01:30	02:50	1.33	1995	2067	72	54.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
02:50	03:00	0.17	2067	2067	0	.00	Survey & Conn.	Survey & Conn. @2020' Inc 11.6° Azm 4.1°
03:00	03:25	0.42	2067	2075	8	19.20	Sliding	Sliding - (WOB:8;GPM :432;TFO:354))
03:25	05:10	1.75	2075	2162	87	49.71	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
05:10	05:25	0.25	2162	2162	0	.00	Survey & Conn.	Survey & Conn. @2115' Inc 12.1° Azm 0.7°
05:25	07:10	1.75	2162	2256	94	53.71	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
07:10	08:00	0.83	2256	2288	32	38.40	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
08:00	08:10	0.17	2288	2288	0	.00	Circulating	Circulating
08:10	08:25	0.25	2288	2298	10	40.00	Sliding	Sliding - (WOB:8;GPM :432;TFO:90L))
08:25	09:20	0.92	2298	2352	54	58.91	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
09:20	09:30	0.17	2352	2352	0	.00	Survey & Conn.	Survey & Conn. @2305' Inc 12.4° Azm 357°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
09:30	11:15	1.75	2352	2446	94	53.71	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
11:15	11:25	0.17	2446	2446	0	.00	Survey & Conn.	Survey & Conn.@2399' Inc 12.4° Azm 355.7°
11:25	13:00	1.58	2446	2540	94	59.37	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
13:00	13:10	0.17	2540	2540	0	.00	Survey & Conn.	Survey & Conn.@2493' Inc 12.5° Azm 354.7°
13:10	13:30	0.33	2540	2550	10	30.00	Sliding	Sliding - (WOB:8;GPM :432;TFO:180))
13:30	15:15	1.75	2550	2635	85	48.57	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
15:15	15:25	0.17	2635	2635	0	.00	Survey & Conn.	Survey & Conn.@2588' Inc 11° Azm 353.9°
15:25	15:50	0.42	2635	2645	10	24.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:180))
15:50	17:25	1.58	2645	2730	85	53.68	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
17:25	17:35	0.17	2730	2730	0	.00	Survey & Conn.	Survey & Conn.@2683' Inc 9.5° Azm 353.6°
17:35	18:00	0.42	2730	2744	14	33.60	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
18:00	19:20	1.33	2744	2824	80	60.00	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
19:20	19:30	0.17	2824	2824	0	.00	Survey & Conn.	Survey & Conn.@2777' Inc 7.6° Azm 352.6°
19:30	19:55	0.42	2824	2842	18	43.20	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
19:55	21:10	1.25	2842	2920	78	62.40	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
21:10	21:20	0.17	2920	2920	0	.00	Survey & Conn.	Survey & Conn.@2873' Inc 5.5° Azm 347.8°
21:20	21:45	0.42	2920	2938	18	43.20	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
21:45	23:05	1.33	2938	3015	77	57.75	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
23:05	23:15	0.17	3015	3015	0	.00	Survey & Conn.	Survey & Conn.@2968' Inc 3.8° Azm 340.5°
23:15	23:45	0.50	3015	3035	20	40.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
23:45	24:00	0.25	3035	3035	0	.00	Circulating	Circulating

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 5 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Tuesday, December 30, 2014 at 0000 to Tuesday, December 30, 2014 at 2400

DAILY TOTALS			Assembly Totals													
Start Depth	End Depth	Below Rot Hrs.	Total Drilled:	Avg. Total ROP:	Slide Footage:	Slide Hours	Avg. Slide ROP:	Rotate Footage:	Rotary Hours	Avg. Rot ROP:	Circ Hours	Ream Hours	Rotary Hrs%:	Slide Hrs%:	Rotary Ftg%:	Slide Ftg%:
3035.00	3506.00	24.00	371.00	33.22	310.00	7.25	42.76	61.00	3.92	15.57	1.75	0.33	35.07	64.93	16.44	83.56
			BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP				
			1	675021	241.00	6.17	1,330.00	28.00	1.67	35.83	1,571.00	43.84				
			2	675041	294.00	6.92	39.00	1.25	.75	8.92	333.00	0.00				
			Drilling Parameters			Mud Record			Bit Record			Current BHA # 2				
			WOB:	8	Weight:	0	Bit No:	3	MMD64M 6x13's 2.0 Deg FBH Motor UBHO NMDC NMFC							
			Rot Wt:	90	Visc:	0	Model	MMD64M								
			Pick UP:	108	Chlorides:	0	SN.:	12103763								
			Slack Off:	90	YP:	0	MFG.									
			SPP:	2040	PV:	0	Type	PDC								
			Flow:	540 - 540	PH:	0	IADC									
			SPM:	200	GAS:	0	JETS	6-13								
			Rot. RPM	50 - 50	SAND:	0	TFA:	0.777								
			Mot RPM:	50 - 50	WL:	0	Hole ID:	8-3/4								
			Incl. In:	3.8	WOLID:	0	Bit Hrs:	32.42								
			Azm. In:	340.5	BHT°:	0	Bit Ftg:	1135.00								
			Incl. Out:	24	Flow T°:	0	Pumps									
			Azm. Out:	181	Oil %:	0	Liner	0	0							
			Cost Breakdown						Stroke	0	0					
									Effic.	95.00%	95.00%					
									Gal/Stk	0.00	0.00					
									BBL/Stk	0.000	0.000					

GENERAL COMMENT

Drilling Nudge / Kick Off Curve

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	01:40	1.67	3035	3094	59	35.40	Drilling	Drilling - (WOB:8;GPM :432;RPM:50)
01:40	02:00	0.33	3094	3110	16	48.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
02:00	02:10	0.17	3110	3110	0	.00	Survey & Conn.	Survey & Conn.@3063' Inc 1.5° Azm 335.6°
02:10	03:10	1.00	3110	3073	-37	-37.00	Drilling	Drilling - (WOB:8;GPM :540;RPM:50)
03:10	03:20	0.17	3073	3073	0	.00	Survey & Conn.	Survey & Conn.@3063' Inc 1.5° Azm 335.6°
03:20	04:20	1.00	3073	3073	0	.00	Circulating	Circulating
04:20	07:00	2.67	3073	3073	0	.00	POOH	POOH
07:00	10:45	3.75	3073	3073	0	.00	Change BHA	Change BHA
10:45	13:15	2.50	3073	3073	0	.00	TIH	TIH
13:15	13:35	0.33	3155	3173	18	54.00	Reaming	TIH
13:35	14:00	0.42	3173	3173	0	.00	Circulating	Circulating
14:00	15:10	1.17	3173	3212	39	33.43	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)
15:10	15:25	0.25	3212	3212	0	.00	Survey & Conn.	Survey & Conn.@3165' Inc 0.8° Azm 258.3°
15:25	16:10	0.75	3212	3244	32	42.67	Sliding	Sliding - (WOB:8;GPM :540;TFO:180)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
16:10	16:25	0.25	3244	3244	0	.00	Survey & Conn.	Survey & Conn.@3197' Inc 2.3° Azm 200.9°
16:25	17:35	1.17	3244	3275	31	26.57	Sliding	Sliding - (WOB:8; :540;TFO:180))
17:35	17:45	0.17	3275	3275	0	.00	Survey & Conn.	Survey & Conn.@3228' Inc 5.6° Azm 186.4°
17:45	18:40	0.92	3275	3307	32	34.91	Sliding	Sliding - (WOB:8; :540;TFO:180))
18:40	18:50	0.17	3307	3307	0	.00	Survey & Conn.	Survey & Conn.@3260' Inc 9° Azm 182.6°
18:50	19:20	0.50	3307	3339	32	64.00	Sliding	Sliding - (WOB:8; :540;TFO:180))
19:20	19:30	0.17	3339	3339	0	.00	Survey & Conn.	Survey & Conn.@3292' Inc 12.5° Azm 180.5°
19:30	19:40	0.17	3339	3343	4	24.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
19:40	20:10	0.50	3343	3370	27	54.00	Sliding	Sliding - (WOB:8; :540;TFO:180))
20:10	20:20	0.17	3370	3370	0	.00	Survey & Conn.	Survey & Conn.@3323' Inc 15.3° Azm 180.5°
20:20	20:35	0.25	3370	3374	4	16.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
20:35	21:00	0.42	3374	3401	27	64.80	Sliding	Sliding - (WOB:8; :540;TFO:180))
21:00	21:10	0.17	3401	3401	0	.00	Survey & Conn.	Survey & Conn.@3354' Inc 17.8° Azm 180.1°
21:10	21:20	0.17	3401	3408	7	42.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
21:20	21:40	0.33	3408	3433	25	75.00	Sliding	Sliding - (WOB:8; :540;TFO:180))
21:40	21:50	0.17	3433	3433	0	.00	Survey & Conn.	Survey & Conn.@3386' Inc 20° Azm 179.8°
21:50	22:00	0.17	3433	3441	8	48.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
22:00	22:20	0.33	3441	3464	23	69.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
22:20	22:30	0.17	3464	3464	0	.00	Survey & Conn.	Survey & Conn.@3417' Inc 22.1° Azm 180.8°
22:30	22:45	0.25	3464	3472	8	32.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
22:45	23:25	0.67	3472	3496	24	36.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
23:25	23:35	0.17	3496	3496	0	.00	Survey & Conn.	Survey & Conn.@3449' Inc 24° Azm 181°
23:35	23:50	0.25	3496	3504	8	32.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
23:50	24:00	0.17	3504	3506	2	12.00	Sliding	Sliding - (WOB:8; :540;TFO:0)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
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 WELL NAME: Miller 26 - #1H
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Report Time: 2400 6 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Wednesday, December 31, 2014 at 0000 to Wednesday, December 31, 2014 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
3506.00	4144.00	24.00	2	675041	811.00	21.83	324.00	10.58	3.83	36.25	1,135.00	31.67	
Total Drilled:	638.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 2	
Avg. Total ROP:	32.30		WOB:	8	Weight:	0	Bit No:	3	MMD64M 6x13's 2.0 Deg FBH Motor UBHO NMDC NMFC				
Slide Footage:	353.00		Rot Wt:	90	Visc:	0	Model:	MMD64M					
Slide Hours	10.42		Pick UP:	108	Chlorides:	0	SN.:	12103763					
Avg. Slide ROP:	33.89		Slack Off:	90	YP:	0	MFG.						
Rotate Footage:	285.00		SPP:	2040	PV:	0	Type	PDC					
Rotary Hours	9.33		Flow:	540 - 540	PH:	0	IADC						
Avg. Rot ROP:	30.54		SPM:	200	GAS:	0	JETS	6-13					
Circ Hours	0.50		Rot. RPM	50 - 50	SAND:	0	TFA:	0.777					
Ream Hours	0.00		Mot RPM:	50 - 50	WL:	0	Hole ID:	8-3/4					
Rotary Hrs%:	47.26		Incl. In:	24	SOLID:	0	Bit Hrs:	32.42					
Slide Hrs%:	52.74		Azm. In:	181	BHT°:	0	Bit Ftg:	1135.00					
Rotary Ftg%:	44.67		Incl. Out:	61.2	Flow T°:	0	Pumps						
Slide Ftg%:	55.33		Azm. Out:	179.4	Oil %:	0	Liner	0	0				
Casing			Cost Breakdown										
Size	Lb/Ft	MD											
			Effic. 95.00% 95.00%										
			Gal/Stk 0.00 0.00										
			BBL/Stk 0.000 0.000										

GENERAL COMMENT

Drilling Curve

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:30	0.50	3506	3528	22	44.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
00:30	00:40	0.17	3528	3528	0	.00	Survey & Conn.	Survey & Conn.@3481' Inc 26.5° Azm 181.2°
00:40	00:55	0.25	3528	3538	10	40.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
00:55	01:25	0.50	3538	3559	21	42.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
01:25	01:35	0.17	3559	3559	0	.00	Survey & Conn.	Survey & Conn.@3512' Inc 29.1° Azm 181.3°
01:35	02:00	0.42	3559	3571	12	28.80	Drilling	Drilling - (WOB:8; :540;RPM:50)
02:00	02:25	0.42	3571	3590	19	45.60	Sliding	Sliding - (WOB:8; :540;TFO:0)
02:25	02:35	0.17	3590	3590	0	.00	Survey & Conn.	Survey & Conn.@3543' Inc 31.5° Azm 181.1°
02:35	03:00	0.42	3590	3602	12	28.80	Drilling	Drilling - (WOB:8; :540;RPM:50)
03:00	03:30	0.50	3602	3622	20	40.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
03:30	03:40	0.17	3622	3622	0	.00	Survey & Conn.	Survey & Conn.@3575' Inc 33.8° Azm 180.9°
03:40	04:05	0.42	3622	3637	15	36.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
04:05	04:30	0.42	3637	3654	17	40.80	Sliding	Sliding - (WOB:8; :540;TFO:0)
04:30	04:40	0.17	3654	3654	0	.00	Survey & Conn.	Survey & Conn.@3607' Inc 36° Azm 180.8°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
04:40	05:10	0.50	3654	3669	15	30.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
05:10	05:30	0.33	3669	3686	17	51.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
05:30	05:40	0.17	3686	3686	0	.00	Survey & Conn.	Survey & Conn.@3639' Inc 38.1° Azm 180.9°
05:40	06:25	0.75	3686	3701	15	20.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
06:25	07:00	0.58	3701	3718	17	29.14	Sliding	Sliding - (WOB:8; :540;TFO:0)
07:00	07:10	0.17	3718	3718	0	.00	Survey & Conn.	Survey & Conn.@3671' Inc 39.9° Azm 181.2°
07:10	07:50	0.67	3718	3733	15	22.50	Drilling	Drilling - (WOB:8; :540;RPM:50)
07:50	08:25	0.58	3733	3749	16	27.43	Sliding	Sliding - (WOB:8; :540;TFO:0)
08:25	08:45	0.33	3749	3749	0	.00	Survey & Conn.	Survey & Conn.@3702' Inc 41.6° Azm 181.1°
08:45	09:25	0.67	3749	3764	15	22.50	Drilling	Drilling - (WOB:8; :540;RPM:50)
09:25	09:50	0.42	3764	3780	16	38.40	Sliding	Sliding - (WOB:8; :540;TFO:0)
09:50	10:00	0.17	3780	3780	0	.00	Survey & Conn.	Survey & Conn.@3733' Inc 43.2° Azm 180.3°
10:00	10:30	0.50	3780	3790	10	20.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
10:30	11:10	0.67	3790	3812	22	33.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
11:10	11:25	0.25	3812	3812	0	.00	Survey & Conn.	Survey & Conn.@3765' Inc 44.9° Azm 179.7°
11:25	11:50	0.42	3812	3822	10	24.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
11:50	12:30	0.67	3822	3844	22	33.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
12:30	12:45	0.25	3844	3844	0	.00	Survey & Conn.	Survey & Conn.@3797' Inc 47.3° Azm 179.1°
12:45	13:10	0.42	3844	3854	10	24.00	Drilling	Drilling - (WOB:8; :540;RPM:50)
13:10	13:45	0.58	3854	3876	22	37.71	Sliding	Sliding - (WOB:8; :540;TFO:0)
13:45	14:15	0.50	3876	3876	0	.00	Circulating	Circulating-Rig Service
14:15	14:30	0.25	3876	3876	0	.00	Survey & Conn.	Survey & Conn.@3829' Inc 49.5° Azm 179.2°
14:30	15:00	0.50	3876	3888	12	24.00	Sliding	Sliding - (WOB:8; :540;TFO:0)
15:00	15:45	0.75	3888	3908	20	26.67	Drilling	Drilling - (WOB:8;GPM :540;RPM:50)
15:45	16:00	0.25	3908	3908	0	.00	Survey & Conn.	Survey & Conn.@3861' Inc 52.1° Azm 178.9°
16:00	16:40	0.67	3908	3940	32	48.00	Drilling	Drilling - (WOB:8;GPM :540;RPM:50)
16:40	16:55	0.25	3940	3940	0	.00	Survey & Conn.	Survey & Conn.@3888' Inc 53.8° Azm 178.9°
16:55	17:45	0.83	3940	3971	31	37.20	Drilling	Drilling - (WOB:8;GPM :540;RPM:50)
17:45	17:55	0.17	3971	3971	0	.00	Survey & Conn.	Survey & Conn.@3924' Inc 54.3° Azm 179°
17:55	19:35	1.67	3971	4034	63	37.80	Drilling	Drilling - (WOB:8;GPM :540;RPM:50)
19:35	19:45	0.17	4034	4034	0	.00	Survey & Conn.	Survey & Conn.@3987' Inc 54.8° Azm 178.8°
19:45	21:05	1.33	4034	4066	32	24.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
21:05	21:15	0.17	4066	4066	0	.00	Survey & Conn.	Survey & Conn.@4019' Inc 55.2° Azm 178.9°
21:15	22:00	0.75	4066	4098	32	42.67	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
22:00	22:10	0.17	4098	4098	0	.00	Survey & Conn.	Survey & Conn.@4051' Inc 57.6° Azm 178.8°
22:10	23:05	0.92	4098	4130	32	34.91	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
23:05	23:15	0.17	4130	4130	0	.00	Survey & Conn.	Survey & Conn.@4083' Inc 61.2° Azm 179.4°
23:15	24:00	0.75	4130	4144	14	18.67	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 7 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Thursday, January 01, 2015 at 0000 to Thursday, January 01, 2015 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
4144.00	4308.00	14.50	2	675041	811.00	21.83	324.00	10.58	3.83	36.25	1,135.00	31.67	
Total Drilled:	164.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 2	
Avg. Total ROP:	36.44		WOB:	8	Weight:	0	Bit No:	3	MMD64M 6x13's 2.0 Deg FBH Motor UBHO NMDC NMFC				
Slide Footage:	164.00		Rot Wt:	90	Visc:	0	Model:	MMD64M					
Slide Hours	4.50		Pick UP:	108	Chlorides:	0	SN.:	12103763					
Avg. Slide ROP:	36.44		Slack Off:	90	YP:	0	Type:	PDC					
Rotate Footage:	0.00		SPP:	2040	PV:	0	IADC:						
Rotary Hours	0.00		Flow:	540 - 540	PH:	0	JETS:	6-13					
Avg. Rot ROP:	NA		SPM:	200	GAS:	0	TFA:	0.777					
Circ Hours	2.58		Rot. RPM	-	SAND:	0	Hole ID:	8-3/4					
Ream Hours	0.00		Mot RPM:	50 - 50	WL:	0	Bit Hrs:	32.42					
Rotary Hrs%:	.00		Incl. In:	61.2	SOLID:	0	Bit Ftg:	1135.00					
Slide Hrs%:	100.00		Azm. In:	179.4	BHT°:	0	Pumps						
Rotary Ftg%:	.00		Incl. Out:	82.4	Flow T°:	0	Liner	0	0				
Slide Ftg%:	100.00		Azm. Out:	180.9	Oil %:	0	Stroke	0	0				
Casing			Cost Breakdown										
Size	Lb/Ft	MD											

GENERAL COMMENT

Drilling Curve

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:40	0.67	4144	4162	18	27.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
00:40	00:50	0.17	4162	4162	0	.00	Survey & Conn.	Survey & Conn.@4115' Inc 64.7° Azm 180.3°
00:50	01:35	0.75	4162	4193	31	41.33	Sliding	Sliding - (WOB:8;GPM :540;TFO:0))
01:35	01:45	0.17	4193	4193	0	.00	Survey & Conn.	Survey & Conn.@4146' Inc 68.4° Azm 181°
01:45	02:35	0.83	4193	4225	32	38.40	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
02:35	03:00	0.42	4225	4225	0	.00	Survey & Conn.	Survey & Conn.@4178' Inc 72.3° Azm 181.7°
03:00	03:50	0.83	4225	4257	32	38.40	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
03:50	04:00	0.17	4257	4257	0	.00	Survey & Conn.	Survey & Conn.@4210' Inc 76.2° Azm 181.6°
04:00	04:45	0.75	4257	4288	31	41.33	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
04:45	04:50	0.08	4288	4288	0	.00	Survey & Conn.	Survey & Conn.@4261' Inc 82.4° Azm 180.9°
04:50	05:30	0.67	4288	4308	20	30.00	Sliding	Sliding - (WOB:8;GPM :540;TFO:0)
05:30	05:35	0.08	4308	4308	0	.00	MWD Survey	MWD Survey@4261' Inc 82.4° Azm 180.9°
05:35	06:50	1.25	4308	4308	0	.00	Circulating	Circulating
06:50	08:30	1.67	4308	4308	0	.00	Short Trip	Short Trip

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
08:30	09:45	1.25	4308	4308	0	.00	Circulating	Circulating
09:45	14:30	4.75	4308	4308	0	.00	POOH	POOH-Laid down Tools
14:30	24:00	9.50	4308	4308	0	.00	Standby	Standby-Location

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 8 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Friday, January 02, 2015 at 0000 to Friday, January 02, 2015 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
4308.00	4498.00	14.00	2	675041	811.00	21.83	324.00	10.58	3.83	36.25	1,135.00	31.67	
			3	4750047SH	0.00	0.00	190.00	4.00	1.83	5.83	190.00	0.00	
Total Drilled:	190.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 3	
Avg. Total ROP:	47.50		WOB:	8	Weight:	0	Model	FX64D ; 3-14	FX64D ; 3-14 ;3-12				
Slide Footage:	0.00		Rot Wt:	78	Visc:	0	SN.:	12092285	1.5 Fixed				
Slide Hours	0.00		Pick UP:	78	Chlorides:	0	MFG.	SMITH	Float Sub				
Avg. Slide ROP:	NA		Slack Off:	76	YP:	0	Type	PDC	Muleshoe Sub				
Rotate Footage:	190.00		SPP:	1270	PV:	0	IADC		NMDC				
Rotary Hours	4.00		Flow:	250 - 250	PH:	0	JETS	3-12,3-14	NMFC				
Avg. Rot ROP:	47.50		SPM:	90	GAS:	0	TFA:	0.782					
Circ Hours	1.83		Rot. RPM	80 - 80	SAND:	0	Hole ID:	6-1/8					
Ream Hours	0.50		Mot RPM:	-	WL:	0	Bit Hrs:	46.33					
Rotary Hrs%:	100.00		Incl. In:	82.4	SOLID:	0	Bit Ftg:	2114.00					
Slide Hrs%:	.00		Azm. In:	180.9	BHT°:	0	Pumps						
Rotary Ftg%:	100.00		Incl. Out:	88	Flow T°:	0	Liner	0	0				
Slide Ftg%:	.00		Azm. Out:	180.3	Oil %:	0	Stroke	0	0				
Casing			Cost Breakdown										
Size	Lb/Ft	MD											

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	10:00	10.00	4308	4308	0	.00	Standby	Standby
10:00	14:00	4.00	4308	4308	0	.00	Change BHA	Change BHA
14:00	14:10	0.17	4308	4308	0	.00	Circulating	Circulating-Tested Motor & MWD
14:10	17:50	3.67	4308	4146	-162	-44.18	TIH	TIH
17:50	19:00	1.17	4146	4294	148	126.86	Circulating	Wash & Ream
19:00	19:30	0.50	4294	4308	14	28.00	Reaming	Drill Cement & Plug
19:30	21:00	1.50	4308	4365	57	38.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
21:00	21:10	0.17	4365	4365	0	.00	Survey & Conn.	Survey & Conn.@4319' Inc 87.7° Azm 181°
21:10	22:25	1.25	4365	4428	63	50.40	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
22:25	22:35	0.17	4428	4428	0	.00	Survey & Conn.	Survey & Conn.@4382' Inc 88° Azm 180.8°
22:35	23:40	1.08	4428	4491	63	58.15	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
23:40	23:50	0.17	4491	4491	0	.00	Survey & Conn.	Survey & Conn.@4445' Inc 88° Azm 180.3°
23:50	24:00	0.17	4491	4498	7	42.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 9 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, G. Monday
 2nd Dir Hand : Bobby Hardcastle

From Saturday, January 03, 2015 at 0000 to Saturday, January 03, 2015 at 2400

DAILY TOTALS				Assembly Totals							
Start Depth	4498.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	5520.00	3	4750047SH	92.00	3.67	2,022.00	42.67	3.25	49.58	2,262.00	46.08
Below Rot Hrs.	24.00										
Total Drilled:	1022.00	Drilling Parameters		Mud Record			Bit Record		Current BHA # 3		
Avg. Total ROP:	48.86	WOB: 8		Weight: 0			Bit No: 4		FX64D ; 3-14 ; 3-12		
Slide Footage:	46.00	Rot Wt: 78		Visc: 0			Model FX64D ; 3-14		1.5 Fixed		
Slide Hours	1.92	Pick UP: 78		Chlorides: 0			SN.: 12092285		Float Sub		
Avg. Slide ROP:	24.00	Slack Off: 76		YP: 0			MFG. SMITH		Muleshoe Sub		
Rotate Footage:	976.00	SPP: 1270		PV: 0			Type PDC		NMDC		
Rotary Hours	19.00	Flow: 250 - 250		PH: 0			IADC		NMFC		
Avg. Rot ROP:	51.37	SPM: 90		GAS: 0			JETS 3-12,3-14				
Circ Hours	0.33	Rot. RPM 80 - 80		SAND: 0			TFA: 0.782				
Ream Hours	0.00	Mot RPM: 80 - 80		WL: 0			Hole ID: 6-1/8				
Rotary Hrs%:	90.84	Incl. In: 88		SOLID: 0			Bit Hrs: 46.33				
Slide Hrs%:	9.16	Azm. In: 180.3		BHT°: 0			Bit Ftg: 2114.00				
Rotary Ftg%:	95.50	Incl. Out: 89.5		Flow T°: 0			Pumps				
Slide Ftg%:	4.50	Azm. Out: 179.1		Oil %: 0			Liner 0 0				
Casing											
Size	Lb/Ft	MD									
Cost Breakdown											
				Effic. 95.00% 95.00%		Gal/Stk 0.00 0.00		BBL/Stk 0.000 0.000			

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:55	0.92	4498	4554	56	61.09	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
00:55	01:05	0.17	4554	4554	0	.00	Survey & Conn.	Survey & Conn. @4508' Inc 87.9° Azm 180.4°
01:05	01:20	0.25	4554	4562	8	32.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:0))
01:20	02:20	1.00	4562	4616	54	54.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
02:20	02:30	0.17	4616	4616	0	.00	Survey & Conn.	Survey & Conn. @4570' Inc 89.1° Azm 179.9°
02:30	03:30	1.00	4616	4678	62	62.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
03:30	03:40	0.17	4678	4678	0	.00	Survey & Conn.	Survey & Conn. @4632' Inc 89.1° Azm 180.1°
03:40	04:15	0.58	4678	4709	31	53.14	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
04:15	04:30	0.25	4709	4715	6	24.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:0)
04:30	04:50	0.33	4715	4740	25	75.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
04:50	05:00	0.17	4740	4740	0	.00	Survey & Conn.	Survey & Conn. @4694' Inc 88.8° Azm 179.8°
05:00	05:55	0.92	4740	4802	62	67.64	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
05:55	06:05	0.17	4802	4802	0	.00	Survey & Conn.	Survey & Conn. @4756' Inc 90° Azm 179.7°
06:05	07:35	1.50	4802	4864	62	41.33	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
07:35	07:45	0.17	4864	4864	0	.00	Survey & Conn.	Survey & Conn.@4818' Inc 89.9° Azm 179.1°
07:45	09:00	1.25	4864	4926	62	49.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
09:00	09:10	0.17	4926	4926	0	.00	Survey & Conn.	Survey & Conn.@4880' Inc 89.9° Azm 178.9°
09:10	09:40	0.50	4926	4958	32	64.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
09:40	10:00	0.33	4958	4958	0	.00	Circulating	Circulating-Rig service
10:00	10:30	0.50	4958	4988	30	60.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
10:30	10:40	0.17	4988	4988	0	.00	Survey & Conn.	Survey & Conn.@4942' Inc 90.2° Azm 178.6°
10:40	11:55	1.25	4988	5050	62	49.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
11:55	12:05	0.17	5050	5050	0	.00	Survey & Conn.	Survey & Conn.@5004' Inc 89.8° Azm 178°
12:05	13:20	1.25	5050	5112	62	49.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
13:20	13:30	0.17	5112	5112	0	.00	Survey & Conn.	Survey & Conn.@5066' Inc 89.7° Azm 177.6°
13:30	14:40	1.17	5112	5173	61	52.29	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
14:40	14:55	0.25	5173	5173	0	.00	Survey & Conn.	Survey & Conn.@5127' Inc 90.1° Azm 177°
14:55	15:20	0.42	5173	5185	12	28.80	Sliding	Sliding - (WOB:8;GPM :250;TFO:0))
15:20	16:20	1.00	5185	5234	49	49.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
16:20	16:30	0.17	5234	5234	0	.00	Survey & Conn.	Survey & Conn.@5188' Inc 90.4° Azm 178.1°
16:30	17:20	0.83	5234	5265	31	37.20	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
17:20	17:50	0.50	5265	5275	10	20.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:180))
17:50	18:20	0.50	5275	5296	21	42.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
18:20	18:30	0.17	5296	5296	0	.00	Survey & Conn.	Survey & Conn.@5250' Inc 91.4° Azm 178°
18:30	19:40	1.17	5296	5358	62	53.14	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
19:40	19:50	0.17	5358	5358	0	.00	Survey & Conn.	Survey & Conn.@5311' Inc 90.2° Azm 178.4°
19:50	20:35	0.75	5358	5387	29	38.67	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
20:35	21:05	0.50	5387	5397	10	20.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:180)
21:05	21:25	0.33	5397	5418	21	63.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
21:25	21:35	0.17	5418	5418	0	.00	Survey & Conn.	Survey & Conn.@5372' Inc 90.9° Azm 178.4°
21:35	23:00	1.42	5418	5479	61	43.06	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
23:00	23:10	0.17	5479	5479	0	.00	Survey & Conn.	Survey & Conn.@5433' Inc 89.5° Azm 179.4°
23:10	24:00	0.83	5479	5520	41	49.20	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 10 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, M. Lopez
 2nd Dir Hand : Bobby Hardcastle

From Sunday, January 04, 2015 at 0000 to Sunday, January 04, 2015 at 2400

DAILY TOTALS			Assembly Totals											
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP		
5520.00	6416.00	24.00	3	4750047SH	92.00	3.67	2,022.00	42.67	3.25	49.58	2,262.00	46.08		
Total Drilled:	896.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 3		
Avg. Total ROP:	42.67		WOB:	8	Weight:	0	Bit No:	4	FX64D ; 3-14 ;3-12					
Slide Footage:	46.00		Rot Wt:	78	Visc:	0	Model:	FX64D ; 3-14	1.5 Fixed					
Slide Hours:	1.75		Pick UP:	78	Chlorides:	0	SN.:	12092285	Float Sub					
Avg. Slide ROP:	26.29		Slack Off:	76	YP:	0	MFG.	SMITH	Muleshoe Sub					
Rotate Footage:	850.00		SPP:	1270	PV:	0	Type:	PDC	NMDC					
Rotary Hours:	19.25		Flow:	250 - 250	PH:	0	IADC:		NMFC					
Avg. Rot ROP:	44.16		SPM:	90	GAS:	0	JETS:	3-12,3-14						
Circ Hours:	0.50		Rot. RPM:	80 - 80	SAND:	0	TFA:	0.782						
Ream Hours:	0.00		Mot RPM:	80 - 80	WL:	0	Hole ID:	6-1/8						
Rotary Hrs%:	91.67		Incl. In:	89.5	SOLID:	0	Bit Hrs:	46.33						
Slide Hrs%:	8.33		Azm. In:	179.1	BHT°:	0	Bit Ftg:	2114.00						
Rotary Ftg%:	94.87		Incl. Out:	89.8	Flow T°:	0	Pumps							
Slide Ftg%:	5.13		Azm. Out:	177.3	Oil %:	0	Liner	0	0					
Casing														
Size	Lb/Ft	MD												
Cost Breakdown														

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:20	0.33	5520	5541	21	63.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
00:20	00:30	0.17	5541	5541	0	.00	Survey & Conn.	Survey & Conn. @5495' Inc 89.8° Azm 178.7°
00:30	01:05	0.58	5541	5554	13	22.29	Sliding	Sliding - (WOB:8;GPM :250;TFO:180)
01:05	01:50	0.75	5554	5574	20	26.67	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
01:50	02:15	0.42	5574	5587	13	31.20	Sliding	Sliding - (WOB:8;GPM :250;TFO:180)
02:15	02:35	0.33	5587	5603	16	48.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
02:35	02:45	0.17	5603	5603	0	.00	Survey & Conn.	Survey & Conn. @5557' Inc 90.2° Azm 179.3°
02:45	04:10	1.42	5603	5664	61	43.06	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
04:10	04:20	0.17	5664	5664	0	.00	Survey & Conn.	Survey & Conn. @5618' Inc 89° Azm 180.1°
04:20	05:50	1.50	5664	5727	63	42.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
05:50	06:00	0.17	5727	5727	0	.00	Survey & Conn.	Survey & Conn. @5681' Inc 89.4° Azm 180.4°
06:00	06:40	0.67	5727	5757	30	45.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
06:40	06:55	0.25	5757	5757	0	.00	Circulating	Circulating
06:55	07:15	0.33	5757	5767	10	30.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:180)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
07:15	07:45	0.50	5767	5788	21	42.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
07:45	07:55	0.17	5788	5788	0	.00	Survey & Conn.	Survey & Conn.@5742' Inc 90.2° Azm 180.1°
07:55	09:25	1.50	5788	5850	62	41.33	Drilling	Drilling - (WOB:8; :250;RPM:80)
09:25	09:35	0.17	5850	5850	0	.00	Survey & Conn.	Survey & Conn.@5804' Inc 88.8° Azm 180.6°
09:35	11:00	1.42	5850	5911	61	43.06	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
11:00	11:15	0.25	5911	5911	0	.00	Circulating	Circulating
11:15	11:25	0.17	5911	5911	0	.00	Survey & Conn.	Survey & Conn.@5865' Inc 89.7° Azm 180.1°
11:25	11:50	0.42	5911	5921	10	24.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:180)
11:50	13:05	1.25	5921	5973	52	41.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
13:05	13:15	0.17	5973	5973	0	.00	Survey & Conn.	Survey & Conn.@5927' Inc 88.3° Azm 180.4°
13:15	14:30	1.25	5973	6034	61	48.80	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
14:30	14:40	0.17	6034	6034	0	.00	Survey & Conn.	Survey & Conn.@5988' Inc 88.4° Azm 179.8°
14:40	16:00	1.33	6034	6095	61	45.75	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
16:00	16:10	0.17	6095	6095	0	.00	Survey & Conn.	Survey & Conn.@6049' Inc 89.5° Azm 179.2°
16:10	17:40	1.50	6095	6157	62	41.33	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
17:40	17:50	0.17	6157	6157	0	.00	Survey & Conn.	Survey & Conn.@6111' Inc 90° Azm 178.6°
17:50	19:10	1.33	6157	6218	61	45.75	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
19:10	19:20	0.17	6218	6218	0	.00	Survey & Conn.	Survey & Conn.@6172' Inc 89.8° Azm 177.8°
19:20	20:20	1.00	6218	6279	61	61.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
20:20	20:30	0.17	6279	6279	0	.00	Survey & Conn.	Survey & Conn.@6233' Inc 89.7° Azm 178°
20:30	22:10	1.67	6279	6341	62	37.20	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
22:10	22:20	0.17	6341	6341	0	.00	Survey & Conn.	Survey & Conn.@6295' Inc 89.6° Azm 177.5°
22:20	23:30	1.17	6341	6402	61	52.29	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
23:30	23:40	0.17	6402	6402	0	.00	Survey & Conn.	Survey & Conn.@6356' Inc 89.8° Azm 177.3°
23:40	24:00	0.33	6402	6416	14	42.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)

SDI Job #: 14-329 Report Time: 2400 11 of 15
 COMPANY: Unit Petroleum API JOB # 15-155-21720
 LOCATION: ENE of Turon WORK ORDER#
 RIG NAME: Texas Unit #331 FIELD: Mississippian
 STATE: Kansas Sec-Twn-Rng: T 25 S
 COUNTY: Reno Range/Section R 10 W 26
 WELL NAME: Miller 26 - #1H Company Man L. Miller, M. Lopez
 Lead Directional: Robert Johnson 2nd Dir Hand: Bobby Hardcastle

From Monday, January 05, 2015 at 0000 to Monday, January 05, 2015 at 2400

DAILY TOTALS				Assembly Totals								
Start Depth	6416.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
End Depth	6828.00	3	4750047SH	92.00	3.67	2,022.00	42.67	3.25	49.58	2,262.00	46.08	
Below Rot Hrs.	24.00	4	475021	43.00	1.67	363.00	8.33	1.00	11.00	406.00	0.00	
Total Drilled:	412.00	Drilling Parameters				Mud Record		Bit Record		Current BHA # 4		
Avg. Total ROP:	39.55	WOB:	8	Weight:	0	Bit No:	5	FX64D ; 3-14 ;3-12 1.75 Fixed Mtr. Muleshoe Sub NMDC NMFC				
Slide Footage:	43.00	Rot Wt:	78	Visc:	0	Model	FX64D ; 3-14					
Slide Hours	1.67	Pick UP:	78	Chlorides:	0	SN.:	12092285					
Avg. Slide ROP:	25.80	Slack Off:	76	YP:	0	MFG.						
Rotate Footage:	369.00	SPP:	2050	PH:	0	Type	PDC					
Rotary Hours	8.75	Flow:	250 - 250	GAS:	0	IADC						
Avg. Rot ROP:	42.17	SPM:	90	SAND:	0	JETS	3-12,3-14					
Circ Hours	1.58	Rot. RPM	65 - 80	WL:	0	TFA:	0.782					
Ream Hours	0.75	Mot RPM:	65 - 80	SOLID:	0	Hole ID:	6-1/8					
Rotary Hrs%:	84.00	Incl. In:	89.8	BHT°:	0	Bit Hrs:	46.33					
Slide Hrs%:	16.00	Incl. Out:	88.7	Flow T°:	0	Bit Ftg:	2114.00					
Rotary Ftg%:	89.56	Azm. In:	177.3	Oil %:	0	Pumps						
Slide Ftg%:	10.44	Azm. Out:	180.1			Liner	0	0				
Casing												
Size	Lb/Ft	MD										
Cost Breakdown												

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:25	0.42	6416	6422	6	14.40	Drilling	Drilling - (WOB:8; :250;RPM:80)
00:25	01:00	0.58	6422	6422	0	.00	Circulating	Circulating
01:00	04:20	3.33	6422	6422	0	.00	POOH	POOH
04:20	06:30	2.17	6422	6422	0	.00	Change BHA	Change BHA
06:30	06:45	0.25	6422	6422	0	.00	Circulating	Circulating-Tested.
06:45	09:15	2.50	6422	6422	0	.00	TIH	TIH
09:15	10:30	1.25	6422	6422	0	.00	Other	Other-Slip & Cut Drill Line
10:30	12:00	1.50	6422	6422	0	.00	TIH	TIH
12:00	12:45	0.75	6415	6422	7	9.33	Reaming	TIH
12:45	13:30	0.75	6422	6458	36	48.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
13:30	13:40	0.17	6458	6458	0	.00	Survey & Conn.	Survey & Conn. @6415' Inc 89.9° Azm 177.1°
13:40	15:00	1.33	6458	6520	62	46.50	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
15:00	15:15	0.25	6520	6520	0	.00	Survey & Conn.	Survey & Conn. @6477' Inc 90.3° Azm 177.2°
15:15	16:00	0.75	6520	6551	31	41.33	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
16:00	16:30	0.50	6551	6562	11	22.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:180))
16:30	17:00	0.50	6562	6582	20	40.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
17:00	17:10	0.17	6582	6582	0	.00	Survey & Conn.	Survey & Conn.@6539' Inc 91.2° Azm 176.8°
17:10	18:35	1.42	6582	6643	61	43.06	Drilling	Drilling - (WOB:8; :250;RPM:65)
18:35	18:45	0.17	6643	6643	0	.00	Survey & Conn.	Survey & Conn.@6600' Inc 90.9° Azm 177.9°
18:45	19:35	0.83	6643	6665	22	26.40	Sliding	Sliding - (WOB:8; :250;TFO:95R)
19:35	20:40	1.08	6665	6705	40	36.92	Drilling	Drilling - (WOB:8; :250;RPM:65)
20:40	20:50	0.17	6705	6705	0	.00	Survey & Conn.	Survey & Conn.@6662' Inc 89.8° Azm 179.2°
20:50	21:40	0.83	6705	6736	31	37.20	Drilling	Drilling - (WOB:8; :250;RPM:65)
21:40	22:00	0.33	6736	6746	10	30.00	Sliding	Sliding - (WOB:8; :250;TFO:95R)
22:00	22:20	0.33	6746	6767	21	63.00	Drilling	Drilling - (WOB:8; :250;RPM:65)
22:20	22:30	0.17	6767	6767	0	.00	Survey & Conn.	Survey & Conn.@6724' Inc 90.4° Azm 179.8°
22:30	23:50	1.33	6767	6828	61	45.75	Drilling	Drilling - (WOB:8; :250;RPM:65)
23:50	24:00	0.17	6828	6828	0	.00	Survey & Conn.	Survey & Conn.@6785' Inc 88.7° Azm 180.1°

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 12 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, M. Lopez
 2nd Dir Hand : Bobby Hardcastle

From Tuesday, January 06, 2015 at 0000 to Tuesday, January 06, 2015 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
6828.00	7692.00	24.00	4	475021	103.00	4.42	1,198.00	28.08	2.00	34.50	1,301.00	38.55	
Total Drilled:	864.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 4	
Avg. Total ROP:	39.57		WOB:	8	Weight:	0	Bit No:	5	FX64D ; 3-14 ;3-12 1.75 Fixed Mtr. Muleshoe Sub NMDC NMFC				
Slide Footage:	60.00		Rot Wt:	78	Visc:	0	Model	FX64D ; 3-14					
Slide Hours	2.75		Pick UP:	78	Chlorides:	0	SN.:	12092285					
Avg. Slide ROP:	21.82		Slack Off:	76	YP:	0	Type	PDC					
Rotate Footage:	804.00		SPP:	2050	PV:	0	IADC						
Rotary Hours	19.08		Flow:	250 - 250	PH:	0	JETS	3-12,3-14					
Avg. Rot ROP:	42.13		SPM:	90	GAS:	0	TFA:	0.782					
Circ Hours	0.00		Rot. RPM	65 - 65	SAND:	0	Hole ID:	6-1/8					
Ream Hours	0.00		Mot RPM:	65 - 65	WL:	0	Bit Hrs:	46.33					
Rotary Hrs%:	87.40		Incl. In:	88.7	SOLID:	0	Bit Ftg:	2114.00					
Slide Hrs%:	12.60		Azm. In:	180.1	BHT°:	0	Pumps						
Rotary Ftg%:	93.06		Incl. Out:	89.6	Flow T°:	0	Liner	0	0				
Slide Ftg%:	6.94		Azm. Out:	182.4	Oil %:	0	Stroke	0	0				
Casing			Cost Breakdown										
Size	Lb/Ft	MD											

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	01:20	1.33	6828	6890	62	46.50	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
01:20	01:30	0.17	6890	6890	0	.00	Survey & Conn.	Survey & Conn. @6847' Inc 90.1° Azm 179.9°
01:30	02:10	0.67	6890	6900	10	15.00	Sliding	Sliding - (WOB:8;GPM :250;TFO:95R)
02:10	03:20	1.17	6900	6952	52	44.57	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
03:20	03:30	0.17	6952	6952	0	.00	Survey & Conn.	Survey & Conn. @6909' Inc 89.1° Azm 181°
03:30	04:50	1.33	6952	7013	61	45.75	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
04:50	05:00	0.17	7013	7013	0	.00	Survey & Conn.	Survey & Conn. @6970' Inc 89.6° Azm 180.9°
05:00	06:20	1.33	7013	7075	62	46.50	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
06:20	06:30	0.17	7075	7075	0	.00	Survey & Conn.	Survey & Conn. @7032' Inc 90.3° Azm 180.6°
06:30	07:05	0.58	7075	7090	15	25.71	Sliding	Sliding - (WOB:8;GPM :250;TFO:95R)
07:05	08:10	1.08	7090	7137	47	43.38	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
08:10	08:20	0.17	7137	7137	0	.00	Survey & Conn.	Survey & Conn. @7094' Inc 89.1° Azm 181.7°
08:20	10:00	1.67	7137	7199	62	37.20	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
10:00	10:10	0.17	7199	7199	0	.00	Survey & Conn.	Survey & Conn. @7156' Inc 89.7° Azm 181.5°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
10:10	11:00	0.83	7199	7229	30	36.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
11:00	11:35	0.58	7229	7239	10	17.14	Sliding	Sliding - (WOB:8;GPM :250;TFO:95R)
11:35	12:00	0.42	7239	7260	21	50.40	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
12:00	12:10	0.17	7260	7260	0	.00	Survey & Conn.	Survey & Conn.@7217' Inc 90.3° Azm 181.2°
12:10	13:45	1.58	7260	7322	62	39.16	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
13:45	13:55	0.17	7322	7322	0	.00	Survey & Conn.	Survey & Conn.@7279' Inc 90.2° Azm 182.1°
13:55	14:20	0.42	7322	7337	15	36.00	Sliding	Sliding - (WOB:12;GPM :250;TFO:95R))
14:20	15:35	1.25	7337	7384	47	37.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
15:35	15:45	0.17	7384	7384	0	.00	Survey & Conn.	Survey & Conn.@7341' Inc 89.2° Azm 182.9°
15:45	17:00	1.25	7384	7445	61	48.80	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
17:00	17:10	0.17	7445	7445	0	.00	Survey & Conn.	Survey & Conn.@7402' Inc 89.7° Azm 182.8°
17:10	18:45	1.58	7445	7507	62	39.16	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
18:45	18:55	0.17	7507	7507	0	.00	Survey & Conn.	Survey & Conn.@7464' Inc 89.9° Azm 182.8°
18:55	20:20	1.42	7507	7569	62	43.76	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
20:20	20:30	0.17	7569	7569	0	.00	Survey & Conn.	Survey & Conn.@7526' Inc 89.7° Azm 182.5°
20:30	22:00	1.50	7569	7631	62	41.33	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
22:00	22:10	0.17	7631	7631	0	.00	Survey & Conn.	Survey & Conn.@7588' Inc 89.6° Azm 182.4°
22:10	23:20	1.17	7631	7677	46	39.43	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
23:20	23:50	0.50	7677	7687	10	20.00	Sliding	Sliding - (WOB:12;GPM :250;TFO:95R)
23:50	24:00	0.17	7687	7692	5	30.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)

SDI Job #:	14-329	Report Time:	2400	13 of 15
COMPANY:	Unit Petroleum	API JOB #	15-155-21720	
LOCATION:	ENE of Turon	WORK ORDER#		
RIG NAME:	Texas Unit #331	FIELD:	Mississippian	
STATE:	Kansas	Sec-Twn-Rng:	T 25 S	
COUNTY:	Reno	Range/Section	R 10 W	26
WELL NAME:	Miller 26 - #1H	Company Man	L. Miller, M. Lopez	
Lead Directional :	Robert Johnson	2nd Dir Hand :	Bobby Hardcastle	

From Wednesday, January 07, 2015 at 0000 to Wednesday, January 07, 2015 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
7692.00	8038.00	24.00	4	475021	103.00	4.42	1,198.00	28.08	2.00	34.50	1,301.00	38.55	
			5	475018	12.00	0.50	303.00	7.17	.00	7.67	315.00	0.00	
Total Drilled:	346.00		Drilling Parameters			Mud Record			Bit Record			Current BHA # 5	
Avg. Total ROP:	41.52		WOB:	8	Weight:	0	Model	MMD64C ;	MMD64C ; 6-13' jets				
Slide Footage:	12.00		Rot Wt:	78	Visc:	0	SN.:	12424245	1.5 Fixed MTR				
Slide Hours	0.50		Pick UP:	78	Chlorides:	0	MFG.	OTHER	Muleshoe Sub				
Avg. Slide ROP:	24.00		Slack Off:	76	YP:	0	Type	PDC	NMDC				
Rotate Footage:	334.00		SPP:	2050	PV:	0	IADC		NMFC				
Rotary Hours	7.83		Flow:	250 - 250	PH:	0	JETS	6-13					
Avg. Rot ROP:	42.64		SPM:	90	GAS:	0	TFA:	0.777					
Circ Hours	1.00		Rot. RPM	65 - 80	SAND:	0	Hole ID:	6-1/8					
Ream Hours	0.00		Mot RPM:	80 - 80	WL:	0	Bit Hrs:	12.42					
Rotary Hrs%:	94.00		Incl. In:	89.6	SOLID:	0	Bit Ftg:	577.00					
Slide Hrs%:	6.00		Azm. In:	182.4	BHT°:	0	Pumps						
Rotary Ftg%:	96.53		Incl. Out:	89.4	Flow T°:	0	Liner	0	0				
Slide Ftg%:	3.47		Azm. Out:	182.1	Oil %:	0	Stroke	0	0				
Casing													
Size	Lb/Ft	MD											
			Cost Breakdown										

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:10	0.17	7692	7692	0	.00	Survey & Conn.	Survey & Conn. @7649' Inc 90.1° Azm 182.1°
00:10	00:50	0.67	7692	7723	31	46.50	Drilling	Drilling - (WOB:8;GPM :250;RPM:65)
00:50	01:50	1.00	7723	7723	0	.00	Circulating	Circulating
01:50	06:30	4.67	7723	7723	0	.00	POOH	POOH
06:30	09:30	3.00	7723	7723	0	.00	Change BHA	Change BHA
09:30	12:30	3.00	7723	7723	0	.00	TIH	TIH
12:30	13:45	1.25	7723	7723	0	.00	Other	Other-Slip /Cut Drill Line.
13:45	15:40	1.92	7723	7723	0	.00	TIH	TIH
15:40	18:00	2.33	7723	7816	93	39.86	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
18:00	18:10	0.17	7816	7816	0	.00	Survey & Conn.	Survey & Conn. @7773' Inc 89.9° Azm 182.4°
18:10	19:00	0.83	7816	7847	31	37.20	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
19:00	19:30	0.50	7847	7859	12	24.00	Sliding	Sliding - (WOB:12;GPM :250;TFO:180))
19:30	19:55	0.42	7859	7878	19	45.60	Drilling	Drilling - (WOB:8; :250;RPM:80)
19:55	20:05	0.17	7878	7878	0	.00	Survey & Conn.	Survey & Conn. @7835' Inc 90.2° Azm 182.5°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
20:05	21:25	1.33	7878	7940	62	46.50	Drilling	Drilling - (WOB:8; :250;RPM:80)
21:25	21:35	0.17	7940	7940	0	.00	Survey & Conn.	Survey & Conn.@7897' Inc 88.9° Azm 182.2°
21:35	23:00	1.42	7940	8001	61	43.06	Drilling	Drilling - (WOB:8; :250;RPM:80)
23:00	23:10	0.17	8001	8001	0	.00	Survey & Conn.	Survey & Conn.@7958' Inc 89.4° Azm 182.1°
23:10	24:00	0.83	8001	8038	37	44.40	Drilling	Drilling - (WOB:8; :250;RPM:80)

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 14 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, M. Lopez
 2nd Dir Hand : Bobby Hardcastle

From Thursday, January 08, 2015 at 0000 to Thursday, January 08, 2015 at 2400

DAILY TOTALS			Assembly Totals									
Start Depth	8038.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
End Depth	8300.00	5	475018	12.00	0.50	565.00	11.92	1.00	13.42	577.00	43.01	
Below Rot Hrs.	12.50											
Total Drilled:	262.00	Drilling Parameters		Mud Record			Bit Record			Current BHA # 5		
Avg. Total ROP:	55.16	WOB:	8	Weight:	0	Bit No:	MMD64C ; 6-13' jets					
Slide Footage:	0.00	Rot Wt:	78	Visc:	0	Model	MMD64C ;					
Slide Hours	0.00	Pick UP:	78	Chlorides:	0	SN.:	12424245					
Avg. Slide ROP:	NA	Slack Off:	76	YP:	0	MFG.	OTHER					
Rotate Footage:	262.00	SPP:	2050	PV:	0	Type	PDC					
Rotary Hours	4.75	Flow:	250 - 250	PH:	0	IADC						
Avg. Rot ROP:	55.16	SPM:	90	GAS:	0	JETS	6-13					
Circ Hours	1.00	Rot. RPM	80 - 80	SAND:	0	TFA:	0.777					
Ream Hours	0.00	Mot RPM:	-	WL:	0	Hole ID:	6-1/8					
Rotary Hrs%:	100.00	Incl. In:	89.4	SOLID:	0	Bit Hrs:	12.42					
Slide Hrs%:	.00	Azm. In:	182.1	BHT°:	0	Bit Ftg:	577.00					
Rotary Ftg%:	100.00	Incl. Out:	90.6	Flow T°:	0	Pumps						
Slide Ftg%:	.00	Azm. Out:	180.9	Oil %:	0	Liner	0	0				
Casing			Cost Breakdown			Stroke	0	0				
Size	Lb/Ft	MD				Effic.	95.00%	95.00%				
						Gal/Stk	0.00	0.00				
						BBL/Stk	0.000	0.000				

GENERAL COMMENT

Drilling Lateral

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:35	0.58	8038	8063	25	42.86	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
00:35	00:45	0.17	8063	8063	0	.00	Survey & Conn.	Survey & Conn. @8020' Inc 89.6° Azm 181.4°
00:45	02:00	1.25	8063	8125	62	49.60	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
02:00	02:10	0.17	8125	8125	0	.00	Survey & Conn.	Survey & Conn. @8082' Inc 90.2° Azm 181.4°
02:10	03:10	1.00	8125	8187	62	62.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
03:10	03:20	0.17	8187	8187	0	.00	Survey & Conn.	Survey & Conn. @8144' Inc 90° Azm 181.2°
03:20	04:20	1.00	8187	8248	61	61.00	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
04:20	04:30	0.17	8248	8248	0	.00	Survey & Conn.	Survey & Conn. @8205' Inc 90.6° Azm 181.1°
04:30	05:25	0.92	8248	8300	52	56.73	Drilling	Drilling - (WOB:8;GPM :250;RPM:80)
05:25	05:35	0.17	8300	8300	0	.00	Survey & Conn.	Survey & Conn. @8257' Inc 90.6° Azm 180.9°
05:35	06:35	1.00	8300	8300	0	.00	Circulating	Circulating
06:35	11:30	4.92	8300	8300	0	.00	POOH	POOH
11:30	12:30	1.00	8300	8300	0	.00	Other	L/D Tools
12:30	24:00	11.50	8300	8300	0	.00	Standby	Personal Standby / Travel Day

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H
 Lead Directional : Robert Johnson

Report Time: 2400 15 of 15
 API JOB # 15-155-21720
 WORK ORDER#
 FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 Range/Section R 10 W 26
 Company Man L. Miller, M. Lopez
 2nd Dir Hand : Bobby Hardcastle

From Friday, January 09, 2015 at 0000 to Friday, January 09, 2015 at 2400

DAILY TOTALS			Assembly Totals										
Start Depth	End Depth	Below Rot Hrs.	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
8038.00	8300.00	12.50	5	475018	12.00	0.50	565.00	11.92	1.00	13.42	577.00	43.01	
Total Drilled:	262.00	Drilling Parameters			Mud Record			Bit Record			Current BHA # 5		
Avg. Total ROP:	55.16	WOB: 8			Weight: 0			Bit No:			MMD64C ; 6-13' jets 1.5 Fixed MTR Muleshoe Sub NMDC NMFC		
Slide Footage:	0.00	Rot Wt: 78			Visc: 0			Model MMD64C ;					
Slide Hours:	0.00	Pick UP: 78			Chlorides: 0			SN.: 12424245					
Avg. Slide ROP:	NA	Slack Off: 76			YP: 0			MFG. OTHER					
Rotare Footage:	262.00	SPP: 2050			PV: 0			Type PDC					
Rotary Hours:	4.75	Flow: 250 - 250			PH: 0			IADC					
Avg. Rot ROP:	55.16	SPM: 90			GAS: 0			JETS 6-13					
Circ Hours:	1.00	Rot. RPM -			SAND: 0			TFA: 0.777					
Ream Hours:	0.00	Mot RPM: -			WL: 0			Hole ID: 6-1/8					
Rotary Hrs%:	100.00	Incl. In: 90.6			SOLID: 0			Bit Hrs: 12.42					
Slide Hrs%:	.00	Az. In: 180.9			BHT°: 0			Bit Ftg: 577.00					
Rotary Ftg%:	100.00	Incl. Out: 0			Flow T°: 0			Pumps					
Slide Ftg%:	.00	Az. Out: 0			Oil %: 0			Liner 0 0					
Casing			Cost Breakdown										
Size	Lb/Ft	MD	Effic. 95.00% 95.00%										
			Gal/Stk 0.00 0.00										
			BBL/Stk 0.000 0.000										

GENERAL COMMENT

Personal Standby / Travel Day

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	24:00	24.00	8300	8300	0	.00	Standby	Personal Standby / Travel Day

BHA # 1**Mud Motor Report**

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H

FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 SD District: R 10 W
 Lead DD: Robert Johnson
 Co. Man: L. Miller, G. Monday

Motor Failed?: NO

Time and Depths (This BHA)	Motor Data	Drilling Parameters
Date In: 28-Dec-14 @ 09:20	Desc: 6-3/4 Steerable Nudge	SO/PU: 0 - 90 / 0-108
Date Out: 30-Dec-14 @ 10:45	MFG.: InWell	Rot Wt: 0-90
Hrs In Hole: 49.42	BHA Circ/ All BHA: 35.83 / 35.83	WOB: 0 - 8
Start Depth: 1502.00	Motor SN: 675021	TORQ: 0 - 0
End Depth: 3110.00	PAD OD: 7 1/16	SPP: 0 - 2040
Total Drilled: 1571.00	NB Stab: 0	Motor RPM: 124 - 156
Avg. Total ROP: 45.98	Bit to Bend: 5.7	Rotary RPM: 0 - 50
Circ Hrs:Tot/Only 35.83 / 1.67	Bent Hsg / Sub: 1.75 / 1.75 °	Flow Rate: 0 - 540
Percent Slide: 15.34	Lobe/Stage: 7/8 / 5	Avg Diff:
Percent Hrs: 18.05	Rev/GAL: 0.288	Stall Pres.:
Slide Hours: 6.17	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 241.00	Prop BUR: 10	Bit Record
Avg. Slide ROP: 39.08	Act BUR:	OTHER / FX 55 M 5x14's
Percent Rotary: 84.66	Stator Clearance:	Run #: 2
Percent Hrs: 81.95	Lower Stab OD:	Type Bit: PDC
Rot / Total Hrs: 28.00 / 34.17	Upper Stab OD:	IADC#: TFA: 0.751
Rotary Drilled: 1330.00	Extended Motor? NO	JETS: 5-14
Avg. Rotary ROP: 47.50	Number of Stalls:	Bit Drop: 0 PSI @ 540 GPM
Reason POOH:	Stall Duration:	Cond.:

Mud Data

Type WT: 0 Vis: 0 WL: 0 PV: 0 Flow T °: 0
 SAND: 0 Chlor: 0 GAS: 0 SOL: 0 Oil %: 0 YP: 0 PH: 0 Bottom Hole T °: 0

Formation:**EXPANDED REASON PULLED:**

TD Nudge

BHA PERFORMANCE:

As Expected

ADDITIONAL COMMENTS: (Expands to next page if necessary)

BHA # 2**Mud Motor Report**

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H

FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 SD District: R 10 W
 Lead DD: Robert Johnson
 Co. Man: L. Miller, G. Monday

Motor Failed?: NO

Time and Depths (This BHA)	Motor Data	Drilling Parameters
Date In: 30-Dec-14 @ 10:45	Desc: 6-3/4 Steerable Curve	SO/PU: 90 - 90 / 108-108
Date Out: 02-Jan-15 @ 14:00	MFG.: InWell	Rot Wt: 90-90
Hrs In Hole: 55.75	BHA Circ/ All BHA: 36.25 / 36.25	WOB: 8 - 8
Start Depth: 3173.00	Motor SN: 675041	TORQ: 0 - 0
End Depth: 4308.00	PAD OD: 7 1/16	SPP: 2040 - 2040
Total Drilled: 1135.00	NB Stab: 0	Motor RPM: 156
Avg. Total ROP: 35.01	Bit to Bend: 0	Rotary RPM: 50 - 50
Circ Hrs:Tot/Only 36.25 / 3.83	Bent Hsg / Sub: 2 / °	Flow Rate: 540 - 540
Percent Slide: 71.45	Lobe/Stage: 7/8 / 5	Avg Diff:
Percent Hrs: 67.35	Rev/GAL: 0.288	Stall Pres.:
Slide Hours: 21.83	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 811.00	Prop BUR: 12	Bit Record
Avg. Slide ROP: 37.15	Act BUR:	/ MMD64M 6x13's
Percent Rotary: 28.55	Stator Clearance:	Run #: 3
Percent Hrs: 32.65	Lower Stab OD:	Type Bit: PDC
Rot / Total Hrs: 10.58 / 32.42	Upper Stab OD:	IADC#: TFA: 0.777
Rotary Drilled: 324.00	Extended Motor? NO	JETS: 6-13
Avg. Rotary ROP: 30.61	Number of Stalls:	Bit Drop: 0 PSI @ 540 GPM
Reason POOH:	Stall Duration:	Cond.:

Mud Data

Type WT: 0 Vis: 0 WL: 0 PV: 0 Flow T °: 0
 SAND: 0 Chlor: 0 GAS: 0 SOL: 0 Oil %: 0 YP: 0 PH: 0 Bottom Hole T °: 0

Formation:**EXPANDED REASON PULLED:**

Finish curve and casing point.

BHA PERFORMANCE:

Very good performance out of motor

ADDITIONAL COMMENTS: (Expands to next page if necessary)

Did not see any extra wear or damage to motor or bit.

BHA # 3**Mud Motor Report**

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H

FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 SD District: R 10 W
 Lead DD: Robert Johnson
 Co. Man: L. Miller, M. Lopez

Motor Failed?: NO

Time and Depths (This BHA)	Motor Data	Drilling Parameters
Date In: 02-Jan-15 @ 14:00	Desc: 4-3/4 Steerable Lateral	SO/PU: 65 - 90 / 78-110
Date Out: 05-Jan-15 @ 06:30	MFG.: InWell	Rot Wt: 78-90
Hrs In Hole: 64.50	BHA Circ/ All BHA: 49.58 / 49.58	WOB: 8 - 8
Start Depth: 4308.00	Motor SN: 4750047SH	TORQ: 0 - 0
End Depth: 6422.00	PAD OD: 5 1/4	SPP: 1270 - 2040
Total Drilled: 2114.00	NB Stab: 0	Motor RPM: 130
Avg. Total ROP: 45.63	Bit to Bend: 4.86	Rotary RPM: 80 - 80
Circ Hrs:Tot/Only 49.58 / 3.25	Bent Hsg / Sub: 1.5 / 1.5 °	Flow Rate: 250 - 250
Percent Slide: 4.35	Lobe/Stage: 7/8 / 3.8	Avg Diff:
Percent Hrs: 7.91	Rev/GAL: 0.521	Stall Pres.:
Slide Hours: 3.67	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 92.00	Prop BUR: 10	Bit Record
Avg. Slide ROP: 25.09	Act BUR:	SMITH / FX64D ; 3-14 ;3-12
Percent Rotary: 95.65	Stator Clearance:	Run #: 4
Percent Hrs: 92.09	Lower Stab OD:	Type Bit: PDC
Rot / Total Hrs: 42.67 / 46.33	Upper Stab OD:	IADC#: TFA: 0.782
Rotary Drilled: 2022.00	Extended Motor? NO	JETS: 3-12,3-14
Avg. Rotary ROP: 47.39	Number of Stalls:	Bit Drop: 0 PSI @ 250 GPM
Reason POOH:	Stall Duration:	Cond.:

Mud Data

Type WT: 0 Vis: 0 WL: 0 PV: 0 Flow T °: 0
 SAND: 0 Chlor: 0 GAS: 0 SOL: 0 Oil %: 0 YP: 0 PH: 0 Bottom Hole T °: 0

Formation:**EXPANDED REASON PULLED:**

Penetration Rate

BHA PERFORMANCE:

Exceptional

ADDITIONAL COMMENTS: (Expands to next page if necessary)

Motor made 2114' in 45.58 Hrs. had worn hole in housing and body pretty worn thru out.

BHA # 4**Mud Motor Report**

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H

FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 SD District: R 10 W
 Lead DD: Robert Johnson
 Co. Man: L. Miller, M. Lopez

Motor Failed?: NO

Time and Depths (This BHA)	Motor Data	Drilling Parameters
Date In: 05-Jan-15 @ 06:30	Desc: 4-3/4 Steerable Lateral	SO/PU: 76 - 76 / 78-78
Date Out: 07-Jan-15 @ 09:30	MFG.: InWell	Rot Wt: 78-78
Hrs In Hole: 51.00	BHA Circ/ All BHA: 34.50 / 34.50	WOB: 8 - 12
Start Depth: 6422.00	Motor SN: 475021	TORQ: 0 - 0
End Depth: 7723.00	PAD OD: 5 1/4	SPP: 1270 - 2050
Total Drilled: 1301.00	NB Stab: 0	Motor RPM: 130
Avg. Total ROP: 40.03	Bit to Bend: 0	Rotary RPM: 65 - 80
Circ Hrs:Tot/Only 34.50 / 2.00	Bent Hsg / Sub: 1.75 / 1.75 °	Flow Rate: 250 - 250
Percent Slide: 7.92	Lobe/Stage: 7/8 / 3.8	Avg Diff:
Percent Hrs: 13.59	Rev/GAL: 0.521	Stall Pres.:
Slide Hours: 4.42	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 103.00	Prop BUR: 10	Bit Record
Avg. Slide ROP: 23.32	Act BUR:	/ FX64D ; 3-14 ;3-12
Percent Rotary: 92.08	Stator Clearance:	Run #: 5
Percent Hrs: 86.41	Lower Stab OD:	Type Bit: PDC
Rot / Total Hrs: 28.08 / 32.50	Upper Stab OD:	IADC#: TFA: 0.782
Rotary Drilled: 1198.00	Extended Motor? NO	JETS: 3-12,3-14
Avg. Rotary ROP: 42.66	Number of Stalls:	Bit Drop: 0 PSI @ 250 GPM
Reason POOH:	Stall Duration:	Cond.:

Mud Data

Type WT: 0 Vis: 0 WL: 0 PV: 0 Flow T °: 0
 SAND: 0 Chlor: 0 GAS: 0 SOL: 0 Oil %: 0 YP: 0 PH: 0 Bottom Hole T °: 0

Formation:**EXPANDED REASON PULLED:**

Move Pipe and Change Bit and Motor

BHA PERFORMANCE:

Good

ADDITIONAL COMMENTS: (Expands to next page if necessary)

BHA # 5**Mud Motor Report**

SDI Job #: 14-329
 COMPANY: Unit Petroleum
 LOCATION: ENE of Turon
 RIG NAME: Texas Unit #331
 STATE: Kansas
 COUNTY: Reno
 WELL NAME: Miller 26 - #1H

FIELD: Mississippian
 Sec-Twn-Rng: T 25 S
 SD District: R 10 W
 Lead DD: Robert Johnson
 Co. Man: L. Miller, M. Lopez

Motor Failed?: NO

Time and Depths (This BHA)	Motor Data	Drilling Parameters
Date In: 07-Jan-15 @ 09:30	Desc: 4-3/4 Steerable Lateral	SO/PU: 76 - 76 / 78-78
Date Out: 09-Jan-15 @ 24:00	MFG.: InWell	Rot Wt: 78-78
Hrs In Hole: 27.00	BHA Circ/ All BHA: 13.42 / 13.42	WOB: 8 - 12
Start Depth: 7723.00	Motor SN: 475018	TORQ: 0 - 0
End Depth: 8300.00	PAD OD: 5 1/4	SPP: 2050 - 2050
Total Drilled: 577.00	NB Stab: 0	Motor RPM: 130
Avg. Total ROP: 46.47	Bit to Bend: 4.25	Rotary RPM: 80 - 80
Circ Hrs:Tot/Only 13.42 / 1.00	Bent Hsg / Sub: 1.5 / 1.5 °	Flow Rate: 250 - 250
Percent Slide: 2.08	Lobe/Stage: 7/8 / 3.8	Avg Diff:
Percent Hrs: 4.03	Rev/GAL: 0.521	Stall Pres.:
Slide Hours: .50	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 12.00	Prop BUR: 10	Bit Record
Avg. Slide ROP: 24.00	Act BUR:	OTHER / MMD64C ; 6-13' jets
Percent Rotary: 97.92	Stator Clearance:	Run #:
Percent Hrs: 95.97	Lower Stab OD:	Type Bit: PDC
Rot / Total Hrs: 11.92 / 12.42	Upper Stab OD:	IADC#: TFA: 0.777
Rotary Drilled: 565.00	Extended Motor? NO	JETS: 6-13
Avg. Rotary ROP: 47.41	Number of Stalls:	Bit Drop: 0 PSI @ 250 GPM
Reason POOH:	Stall Duration:	Cond.:

Mud Data

Type WT: 0 Vis: 0 WL: 0 PV: 0 Flow T °: 0
 SAND: 0 Chlor: 0 GAS: 0 SOL: 0 Oil %: 0 YP: 0 PH: 0 Bottom Hole T °: 0

Formation:**EXPANDED REASON PULLED:**

TD Well

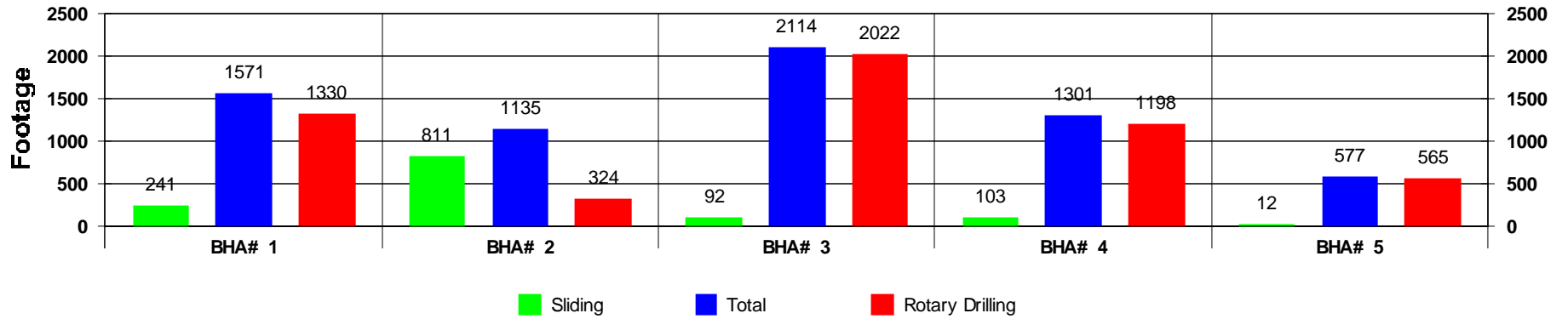
BHA PERFORMANCE:

Good

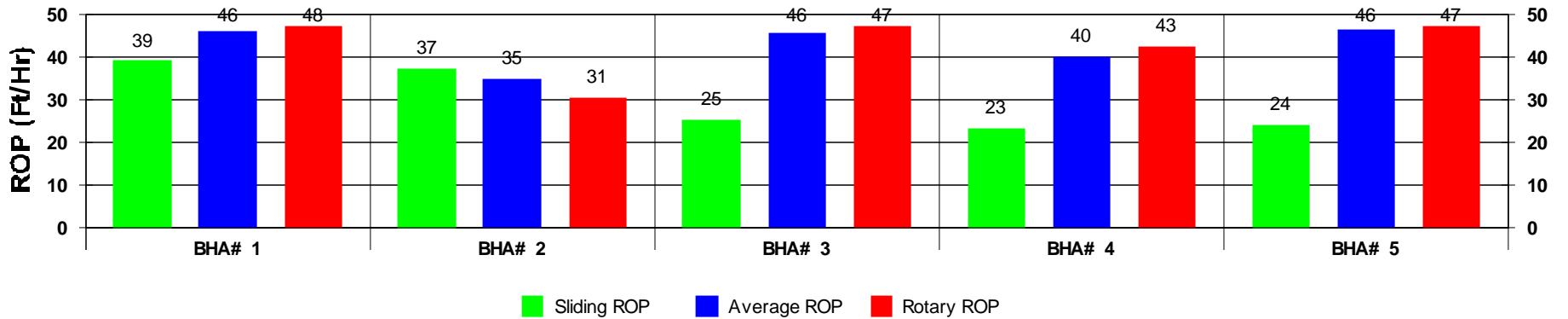
ADDITIONAL COMMENTS: (Expands to next page if necessary)

SDI Job #:	14-329	FIELD:	Mississippian	
COMPANY:	Unit Petroleum	Sec-Twn-Rng:	T 25 S	
LOCATION:	ENE of Turon	AFE# & District	26	R 10 W
RIG NAME:	Texas Unit #331	COMMENT		
STATE:	Kansas			
COUNTY:	Reno			
WELL NAME:	Miller 26 - #1H			

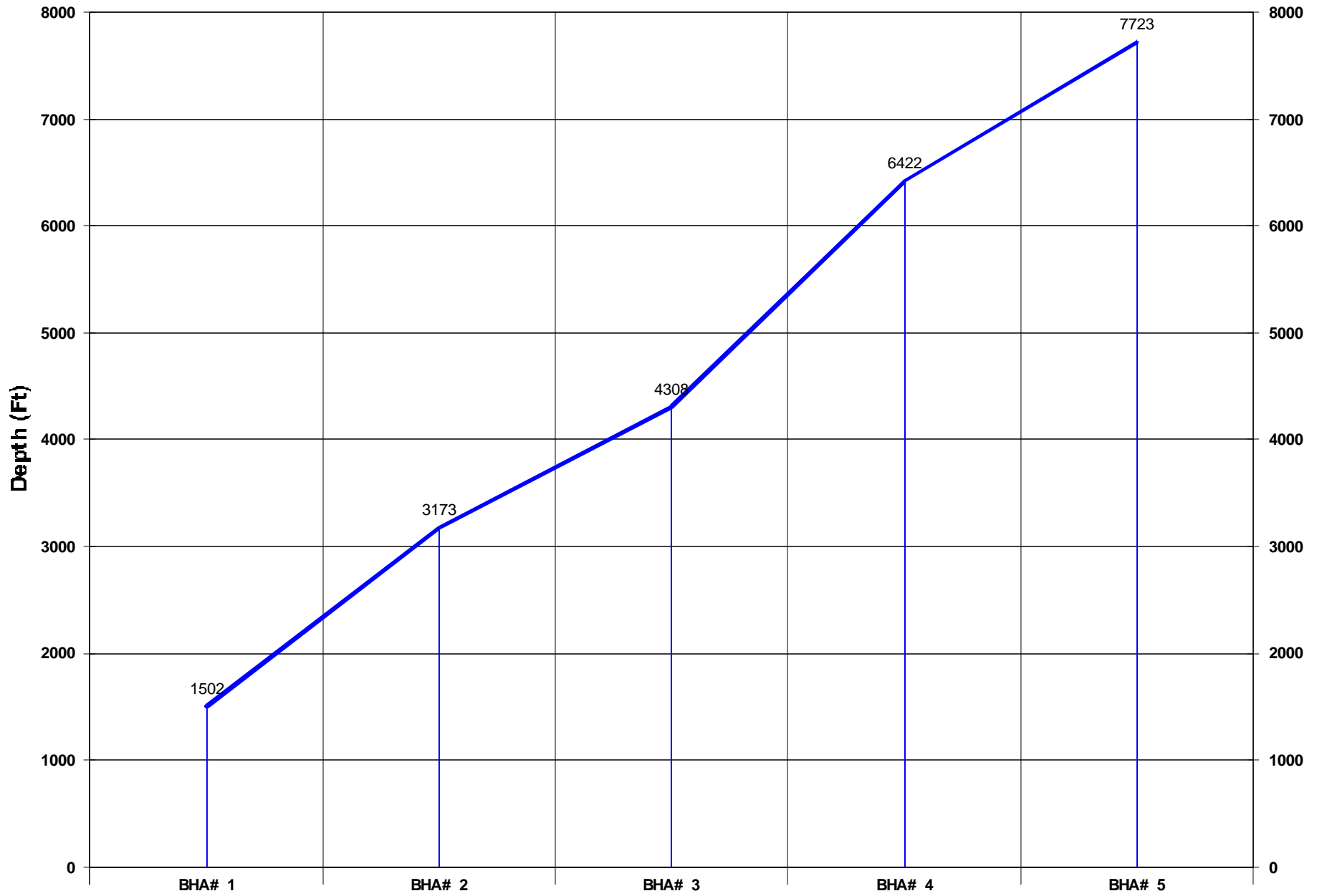
Footage Drilled with BHA



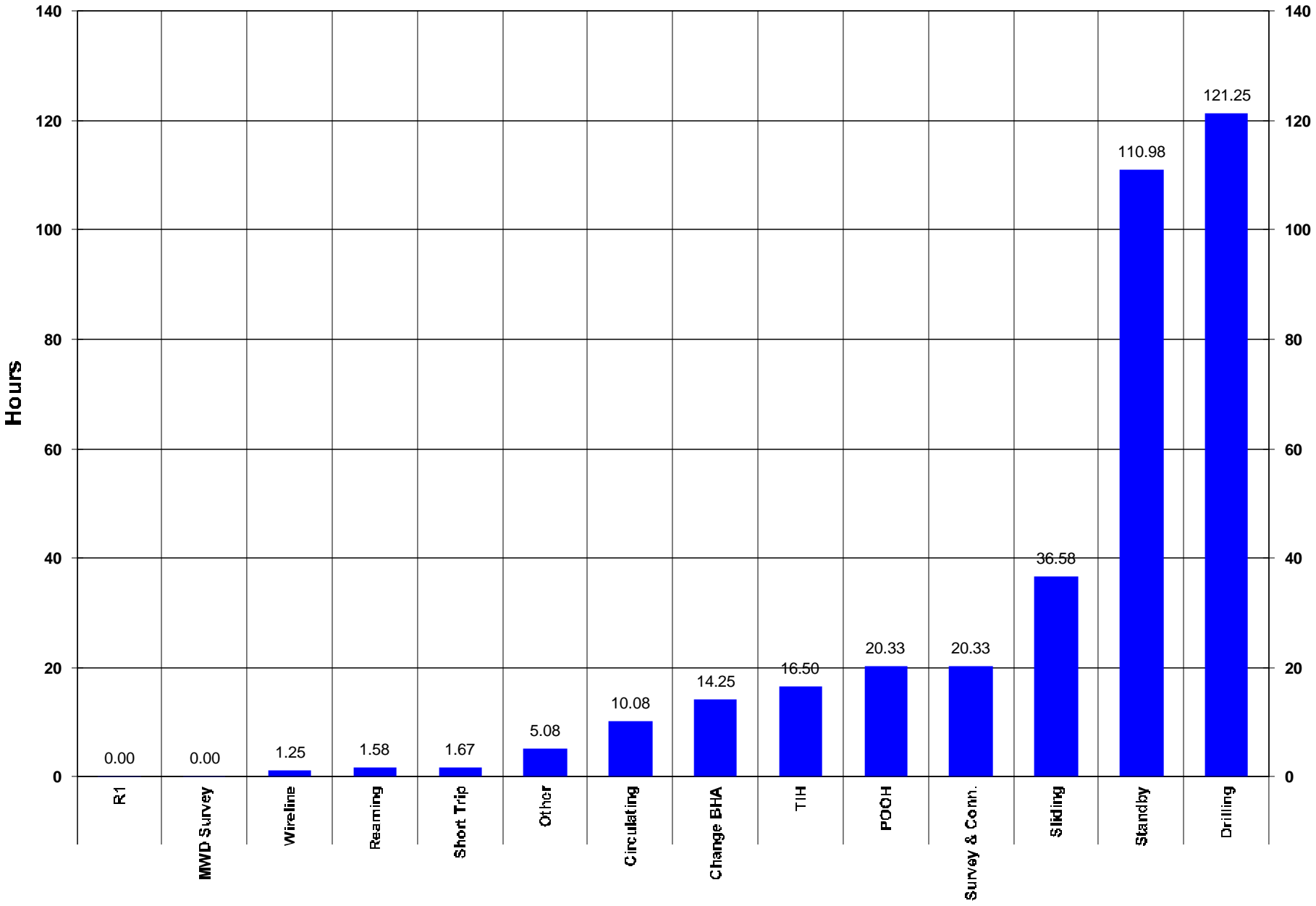
ROP vs BHA



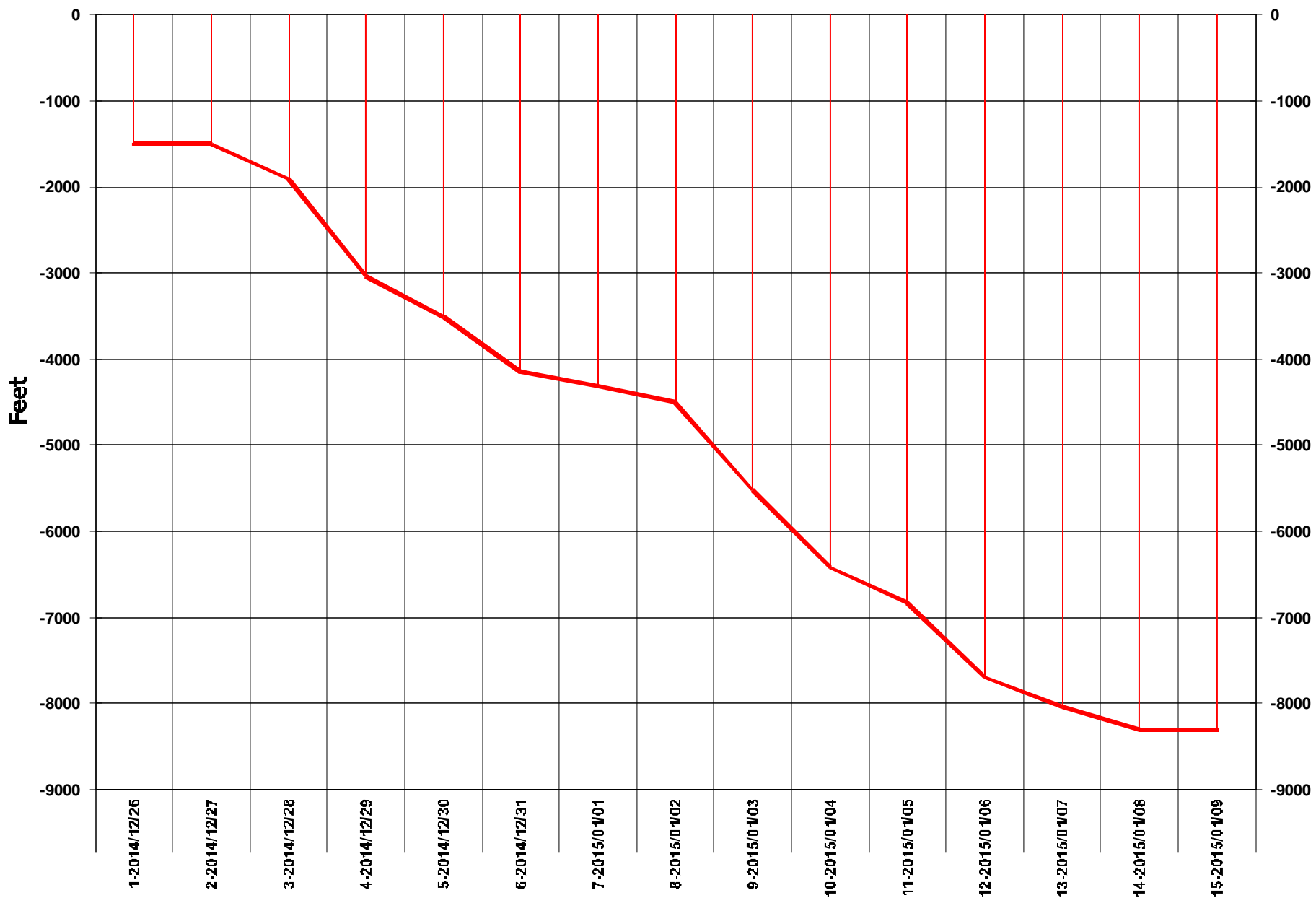
Depth vs BHA



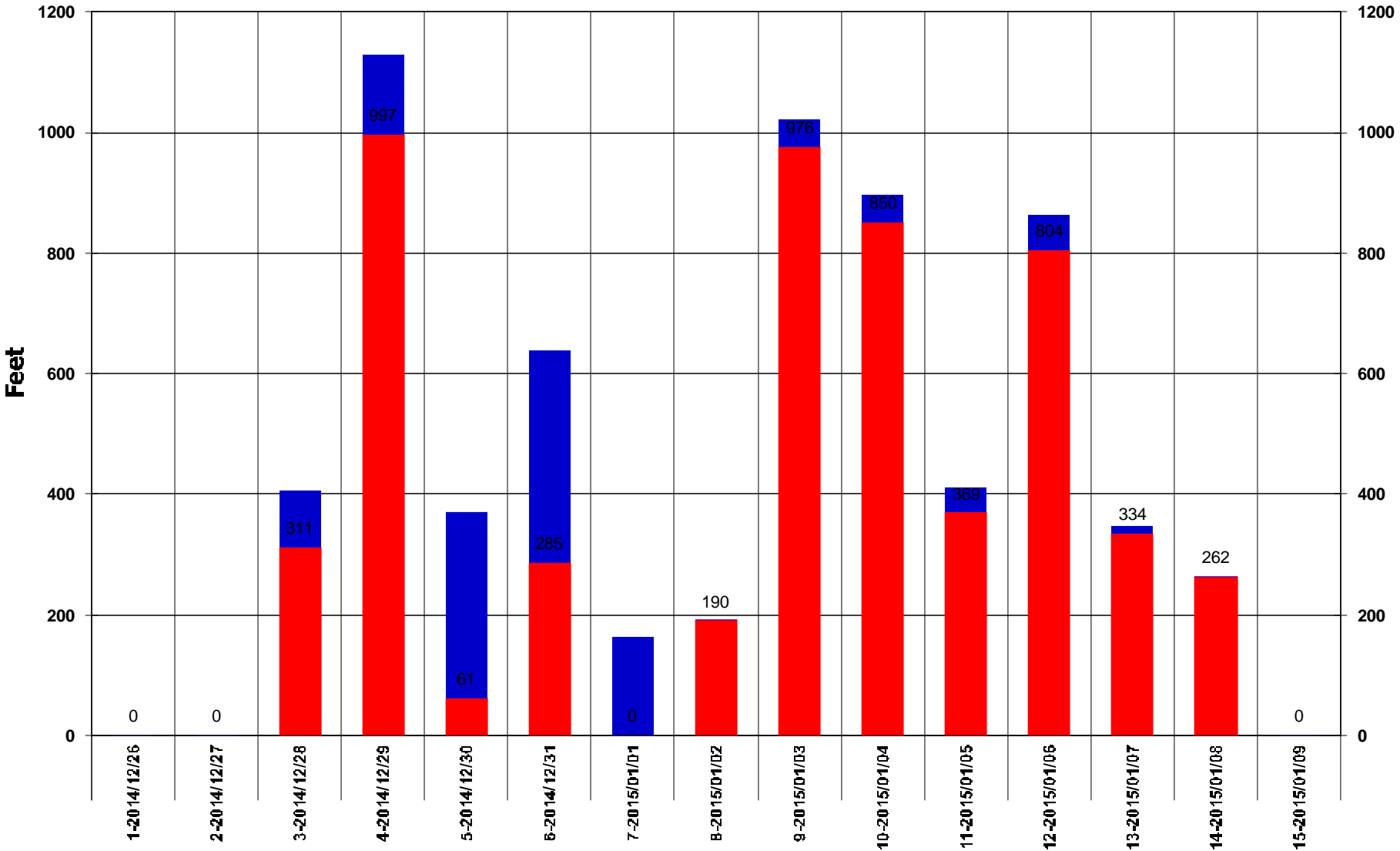
Activity Histogram



Measured Depth vs Days

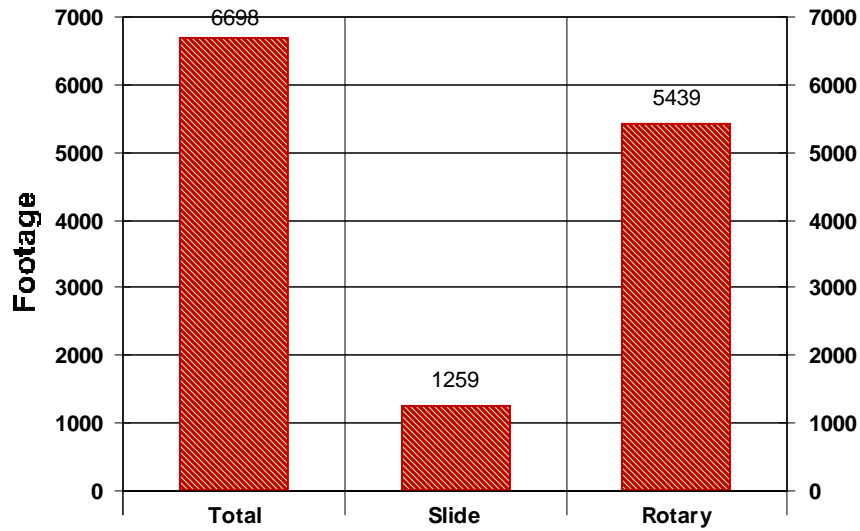


Daily Footage

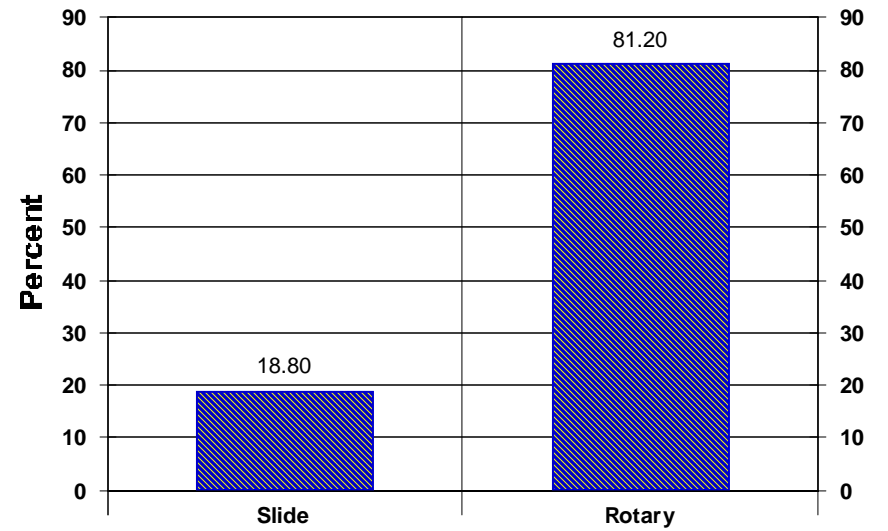


Rotary Drilling Sliding

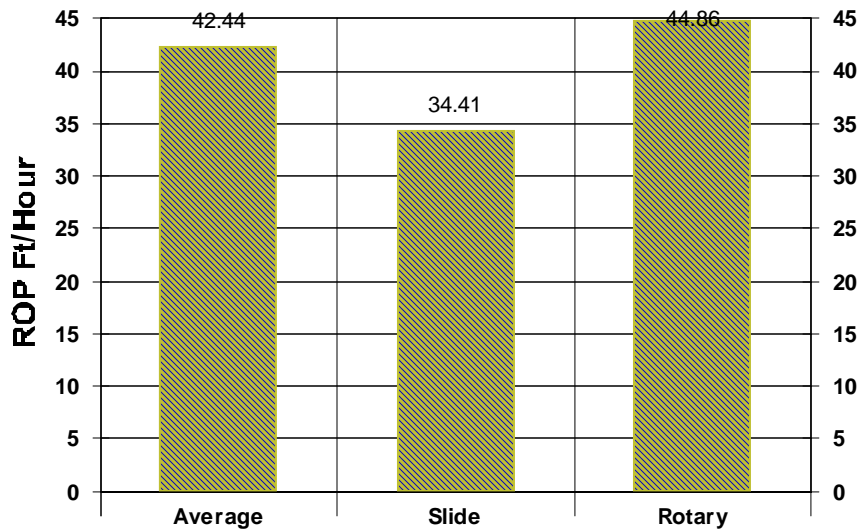
Footage Drilled Totals



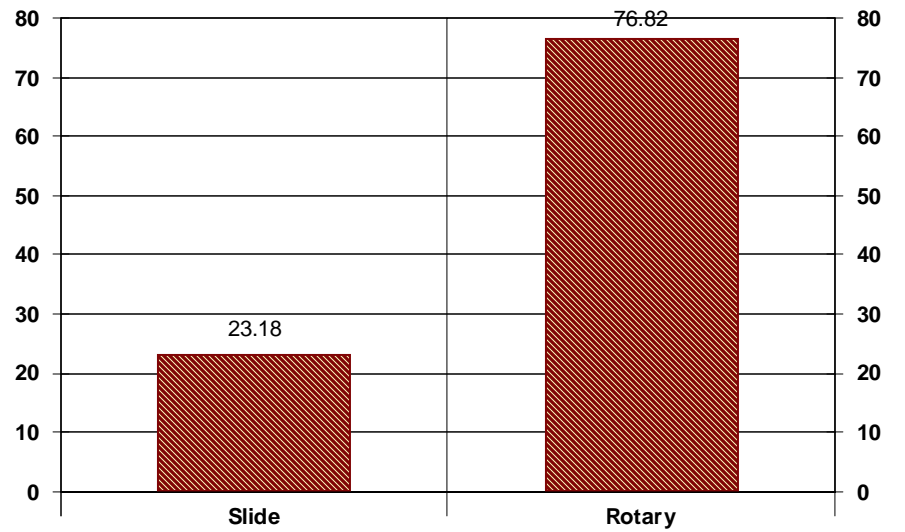
Footage Percent



Rate of Penetration Totals



Time Percent



Summary of Changes

Lease Name and Number: Miller 26 #1H

API/Permit #: 15-155-21720-01-00

Doc ID: 1245589

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Save Link	../../../../kcc/detail/operatorEditDetail.cfm?docID=1243185	../../../../kcc/detail/operatorEditDetail.cfm?docID=1245589

Summary of Attachments

Lease Name and Number: Miller 26 #1H

API: 15-155-21720-01-00

Doc ID: 1245589

Correction Number: 1

Attachment Name

Directional Survey



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1243185
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

CONFIDENTIAL WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	---

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	---	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Miller 26 #1H
Doc ID	1243185

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	28	20	75	160	H	100	2% CC
Intermediate	12.25	9.625	36	1502	A	605	2% CC & 1/4# celloflake
Intermediate	8.75	7	26	4308	AA-2	160	2% CC & 1/4# celloflake
Production	6.125	5.5	17	8285	50/50 POZ	400	2% CC & 1/4# celloflake
Production	6.125	4.5	11.6	8285	50/50 POZ	400	2% CC & 1/4# celloflake



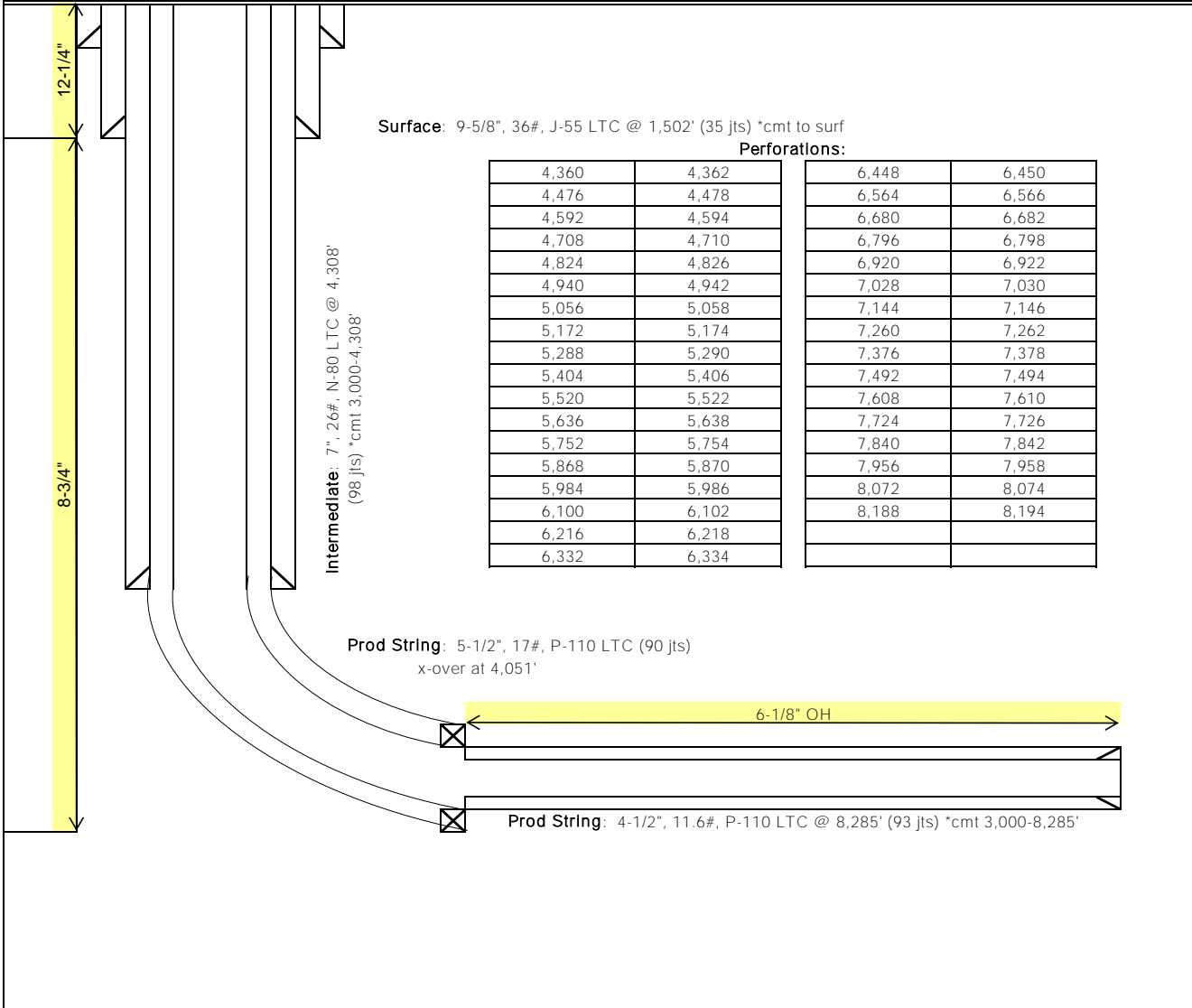
Unit Petroleum Company

Date of Last Revision:
24-Feb-15

Well: Miller 26 #1H
Location: 26-25S-10W
County, State: Reno County, KS
Surface Location: 530' FNL & 660' FEL

API No.: 1515521720
Rig: Unit Drilling #331
Engineer: Tom Carrington (918) 477-4535
Geology: Rob Wilson (918) 477-5728

OH Size





BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

0040860939
FIELD SERVICE TICKET
1718 11760 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-27-14	DISTRICT Pratt A 14	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER UNIT Petroleum		LEASE Miller 26-1-H		WELL NO.					
ADDRESS		COUNTY Reno		STATE KS					
CITY		STATE		SERVICE CREW Sullivan, Eyring, Phye, Felix.					
AUTHORIZED BY		JOB TYPE: cow 9 5/8 Suck							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 12-27-14	AM/PM PM	TIME 9:30
33702-20920	1					ARRIVED AT JOB		AM/PM PM	11:50
19903-21070	1					START OPERATION		AM/PM PM	3:20
19889-19862	1					FINISH OPERATION		AM/PM PM	4:30
37900						RELEASED		AM/PM PM	5:15
						MILES FROM STATION TO WELL	25		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 100	A-CON CMT	SK	325		5,850 00
CP 100-C	Common CMT	SK	280		4,480 00
CC 102	Coll. Pkcs	16	152		562 40
CC 109	Calcium chloride	16	1446		1,518 30
CF 106	TOP Rubber Plug 9 5/8	SA	1		260 00
CF 1284	Shoe shoe	SA	1		1,350 00
CF 1781	Constr. iron	SA	5		800 00
CF 1904	Basket	SA	1		340 00
CF 3000	Thread Lock Kit	SA	1		34 00
CC 131	Sucker	16	200		1,500 00
E 100	pickup m	m	25		112 50
E 101	Heavy Grout m	m	75		562 50
E 113	Bulk Delivery sm	FM	713		1,781 25
CB 202	Septal chgs 1000-2000	SA	1		1,500 00
CB 240	Blending mdy	SK	605		847 00
CB 504	Plug Consistency Rental	SA	1		250 00
S003	Sucker Sucker	SA	1		175 00
SUB TOTAL					21,922.95

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		16,880 67

Discard P
Thank you

SERVICE REPRESENTATIVE Robert J. Miller	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Den Mendley (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>12-27-14</i>	
Lease <i>Miller 26</i>	Well # <i>1-H</i>		
Field Order # <i>11760</i>	Station <i>PRA TT KS</i>	Casing <i>9 5/8</i>	Depth <i>1506'</i>
Type Job <i>CNW 9 5/8 Surface</i>	Formation	County <i>RENO</i>	State <i>KS</i>
Legal Description <i>26-25-10</i>			

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>9 5/8</i>				Pre Pad	Max		5 Min.
Depth <i>1506</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>116 1/2</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure
Well Connection <i>5"</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load
Plug Depth <i>1500</i>	Packer Depth	From	To				

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Lull</i>
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Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19903</i>	<i>21010</i>	<i>19889</i>	<i>19862</i>
Driver Names	<i>Sullivan</i>	<i>Spring</i>		<i>Phye</i>		<i>Fernandez</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:50</i>					<i>on loc</i>
<i>2:10</i>					<i>Casing on bottom</i>
<i>3:20</i>			<i>3</i>	<i>4</i>	<i>Rig side eq.</i>
			<i>143</i>	<i>5.5</i>	<i>SPACER</i>
	<i>300</i>		<i>44</i>		<i>mix 325 sk A-cond cmt 3%cc 1/4 cr</i>
					<i>mix 280 sk common cmt 2%cc 1/4 cr</i>
					<i>cmt mixed shot down</i>
					<i>Release Plug</i>
<i>4:30</i>	<i>1200</i>		<i>114</i>	<i>4.5</i>	<i>st disp</i>
					<i>plug down</i>
					<i>circulated 50 BBL cmt pit</i>
					<i>50B complete</i>
					<i>Thank you</i>



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

0040802836
FIELD SERVICE TICKET

1718 11761 A

DATE _____ TICKET NO. _____

DATE OF JOB 01-01-15 DISTRICT Pratt Kc		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:				
CUSTOMER UNIT Petroleum		LEASE Miller		26-14 WELL NO.		
ADDRESS		COUNTY RENO		STATE KAN		
CITY STATE		SERVICE CREW Sullivan Eggins, Alex				
AUTHORIZED BY		JOB TYPE: CNW 7" INTERMEDIATE				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 01-01-15 DATE AM 6:00 TIME
33708-20920	1					ARRIVED AT JOB AM 8:15
19862-71010	1					START OPERATION AM 10:20
37900						FINISH OPERATION AM 11:20
						RELEASED AM 12:00
						MILES FROM STATION TO WELL 25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 cmt	sk	160		2,720.00
CC 102	Call Pipe	lb	40		148.00
CC 105	C-41 D	lb	31		124.00
CC 111	SALT	lb	804		402.00
CC 112	cmt Factor Reducer	lb	46		276.00
CC 129	FLA-322	lb	76		570.00
CC 201	Wilsonite	lb	800		536.00
CF 104	TOP Rubber Plug 7"	SA	1		110.00
CF 1282	Seal Float Shoe	SA	1		760.00
CF 3000	Thread Lock Kit	SA	1		34.00
CC 151	MUD Thick	gal	500		750.00
E 100	Hydro rd	m	25		112.50
E 101	Heavy Epsit	m	50		375.00
E 113	Bulk Heavy TM	TM	189		471.88
CE 205	Depth change 4,000 - 5000'	SA	1		2,520.00
CE 240	Blendup - mix	sk	160		224.00
CE 504	Plug Constant Depth	SA	1		250.00
9003	SPAW Super	SA	1		175.00
SUB TOTAL					10,558.38

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

discout **8,129.95**
TOTAL **8,129.95**
Thank you

SERVICE REPRESENTATIVE **Robert [Signature]**

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **[Signature]**
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer UNIT Petroleum	Lease No.	Date 01-01-15	
Lease Miller	Well # 26-1H		
Field Order # 11761	Station Pratt KS	Casing 7"	Depth 4313'
Type Job ENW 7"	Formation	County Revo	State KS
		Legal Description 26-25-10	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
7"				Pre Pad		Max		5 Min.
Depth 4313	Depth	From	To	Pad		Min		10 Min.
Volume 165'	Volume	From	To	Frac		Avg		15 Min.
Max Press 3,000	Max Press	From	To			HHP Used		Annulus Pressure
Well Connection P.O.	Annulus Vol.	From	To	Flush		Gas Volume		Total Load
Plug Depth 4213	Packer Depth	From	To					

Customer Representative	Station Manager DAVE South	Treater Robert Johnson
-------------------------	--------------------------------------	----------------------------------

Service Units	37900	33708	20920	19862	21010				
Driver Names	Sullivan	EQING		Telex					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:15					on loc
9:15					CASING on Bottom
9:20					Rig circ csg.
10:20			5	3.5	24 SPACER
			12	4.5	MIX MUD Flush
			5		SPACER
	300		40		MIX CNT 160 SK AA-2 CNT 15.00%
					CNT MIXED shut down
					Release Plug
				6	St Sep
					Lift
	850			4	slow rate
11:20	1,850		165		Plug down
					Release PSI Flow 4/1d
					JOB Complete
					Thank you

BASIC

energy services, L.P.

TREATMENT REPORT

Customer UNIT Petroleum	Lease No.	Date 01-09-15	
Lease Miller	Well # 26-1H		
Field Order # 11704	Station Pratt ks	Casing	Depth
Type Job CNW LANDSTRENGTH	Formation	County Redo	State KS
		Legal Description 26-25-10	

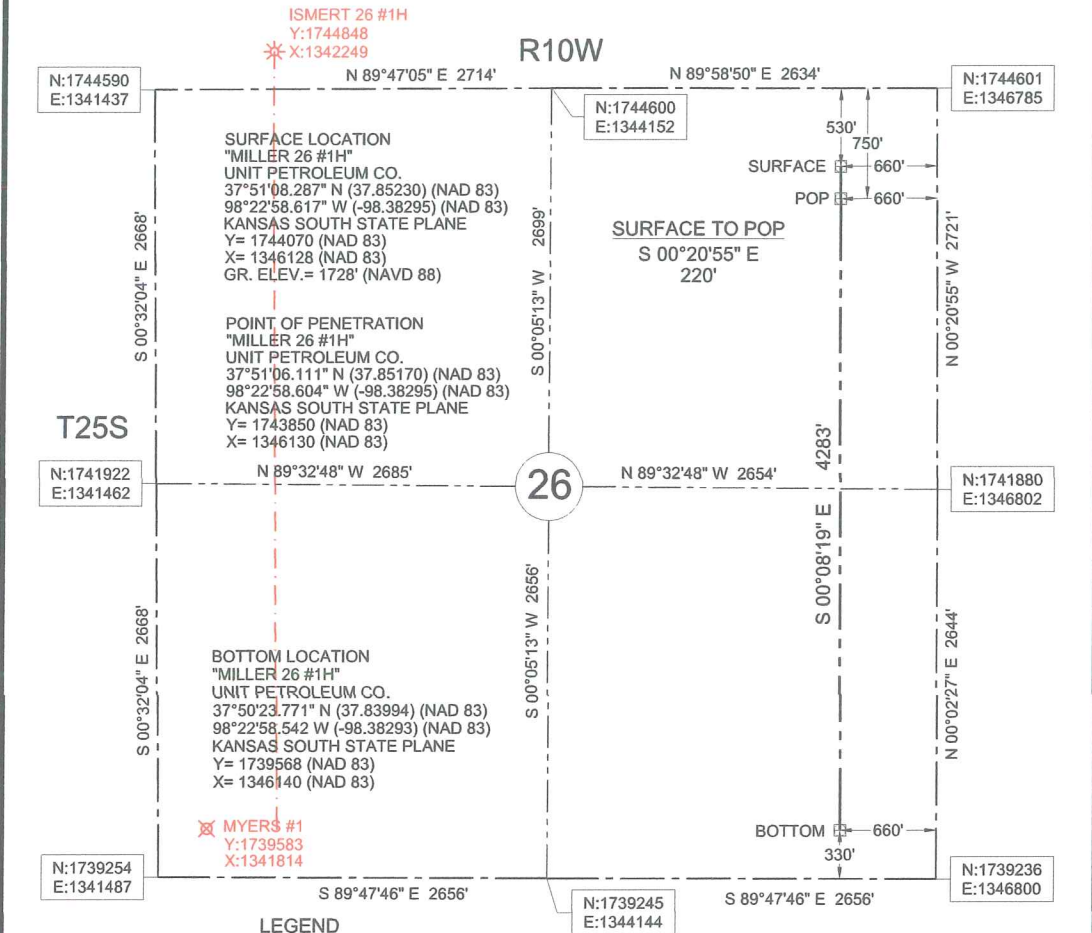
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
4 1/2	5 1/2							
Depth 4234'	Depth 4056'	From	To	Pre Pad	Max		5 Min.	
Volume 65 1/2	Volume 94	From	To	Pad	Min		10 Min.	
Max Press 159 1/2	Max Press 159 1/2	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Sullivan
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Service Units	37900	78982	86679	19824	21010				
Driver Names	Sullivan	Morgan	Railly	Another					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:00					ON LOC
5:15					CASING ON BOTTOM
5:20					Rig circ csg
6:30	1,240		5	3.5	ST SPACER
			12		mix mud flush
			5		ST SPACER
				5	mix cmt 400 sk 50/50 per @ 13.8 ppv
			108		cmt mixed
			1 1/2		Pump Sugar 470
					Shot down
					Load Plug & Ball
				6	St Deep w/ Sugar WATER 40 BBL
					Lift
	1250		145	3.5	Slow Rate
7:40	1,850		190		Plug down Plug NOT LOAD 5 BBL over
					Reverse Psi Check Float.
					SOB Complete
					Strat y

Section 26, T 25 S, R 10 W., Reno County, Kansas.



ONE CALL KANSAS
811
Know what's below. Call before you dig.
Buried utilities are not necessarily shown. It is the contractor's responsibility to locate and preserve all utility services.

Description: Surface Hole Location Stake "Miller 26 #1H" situated 530 feet from the north section line and 660 feet from the east section line of Section 26, T 25 S, R 10 W., Reno County, Kansas.

Description: Point of Penetration "Miller 26 #1H" situated 750 feet from the north section line and 660 feet from the east west section line of Section 26, T 25 S, R 10 W., Reno County, Kansas.

Description: Bottom Location "Miller 26 #1H" situated 330 feet from the south section line and 660 feet from the east west section line of Section 26, T 25 S, R 10 W., Reno County, Kansas.



Survey is valid only if print has original seal and signature of surveyor present

	JVIDENS LAND SURVEY CO., INC.	Survey For:	JOB	DATE OF PLAT	SCALE	SHEET
	1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 - Fax 580-256-3424 roger@jvidenslandsurvey.com mike@jvidenslandsurvey.com	Unit Petroleum Co. P.O. Box 2726 Woodward, Oklahoma 73802 Attn: Jason Rummery	654-14	11-17-2014	1"=1000'	1 OF 5
		DRAWN BY C.M.G.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2016			



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

0040860939
FIELD SERVICE TICKET
1718 11760 A

DATE _____ TICKET NO. _____

DATE OF JOB 12-27-14	DISTRICT Pratt A 14	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER UNIT Petroleum		LEASE Miller 26-1-H		WELL NO.					
ADDRESS		COUNTY Reno		STATE KS					
CITY		STATE		SERVICE CREW Sullivan, Eyring, Phye, Felix.					
AUTHORIZED BY		JOB TYPE: cow 9 5/8 Suck							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 12-27-14	AM/PM PM	TIME 9:30
33702-20920	1					ARRIVED AT JOB		AM/PM PM	11:50
19903-21070	1					START OPERATION		AM/PM PM	3:20
19889-19862	1					FINISH OPERATION		AM/PM PM	4:30
37900						RELEASED		AM/PM PM	5:15
						MILES FROM STATION TO WELL	25		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP 100	A-CON CMT	SK	325		5,850 00	
CP 100-C	Common CMT	SK	280		4,480 00	
CC 102	Coll. Pkcs	16	152		562 40	
CC 109	Calcium chloride	16	1446		1,518 30	
CF 106	TOP Rubber Plug 9 5/8	SA	1		260 00	
CF 1284	Shoe shoe	SA	1		1,350 00	
CF 1781	Constr. iron	SA	5		800 00	
CF 1904	Basket	SA	1		340 00	
CF 3000	Thread Lock Kit	SA	1		34 00	
CC 131	Sucker	16	200		1,500 00	
E 100	pickup m	m	25		112 50	
E 101	Heavy Grout m	m	75		562 50	
E 113	Bulk Delivery sm	FM	713		1,781 25	
CB 202	Septal chgs 1000-2000	SA	1		1,500 00	
CB 240	Blending mdy	SK	605		847 00	
CB 504	Plg Consistency Rental	SA	1		250 00	
S003	Sucker Sucker	SA	1		175 00	
					SUB TOTAL	21,922.95

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		16,880 67

Discard P
Thank you

SERVICE REPRESENTATIVE Robert J. Miller	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Ken Mendley
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>12-27-14</i>	
Lease <i>Miller 26</i>	Well # <i>1-H</i>		
Field Order # <i>11760</i>	Station <i>PRA TT KS</i>	Casing <i>9 5/8</i>	Depth <i>1506'</i>
Type Job <i>CNW 9 5/8 Surface</i>	Formation	County <i>RENO</i>	State <i>KS</i>
		Legal Description <i>26-25-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>9 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>1506</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>116 1/2</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>300</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>5"</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>1500</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Lull</i>
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Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19903</i>	<i>21010</i>	<i>19889</i>	<i>19862</i>
Driver Names	<i>Sullivan</i>	<i>Spring</i>		<i>Phye</i>		<i>Fernandez</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:50</i>					<i>on loc</i>
<i>2:10</i>					<i>Casing on bottom</i>
<i>3:20</i>			<i>3</i>	<i>4</i>	<i>Rig side eq.</i>
			<i>143</i>	<i>5.5</i>	<i>SPACER</i>
	<i>300</i>		<i>44</i>		<i>mix 325 sk A-cond cmt 3% cc 1/4 cr</i>
					<i>mix 280 sk common cmt 2% cc 1/4 cr</i>
					<i>cmt mixed shot down</i>
					<i>Release Plug</i>
<i>4:30</i>	<i>1200</i>		<i>114</i>	<i>4.5</i>	<i>st disp</i>
					<i>plug down</i>
					<i>circulated 50 BBL cmt pit</i>
					<i>50B complete</i>
					<i>Thank you</i>



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

0040802836
FIELD SERVICE TICKET

1718 11761 A

DATE _____ TICKET NO. _____

DATE OF JOB 01-01-15 DISTRICT Pratt Kc		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:				
CUSTOMER UNIT Petroleum		LEASE Miller		26-14 WELL NO.		
ADDRESS		COUNTY RENO		STATE KAN		
CITY STATE		SERVICE CREW Sullivan Eggins, Alex				
AUTHORIZED BY		JOB TYPE: CNW 7" INTERMEDIATE				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 01-01-15 DATE AM 6:00 TIME
33708-20920	1					ARRIVED AT JOB AM 8:15
19862-71010	1					START OPERATION AM 10:20
37900						FINISH OPERATION AM 11:20
						RELEASED AM 12:00
						MILES FROM STATION TO WELL 25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA-2 cmt	sk	160		2,720.00
CC 102	Call Pipe	lb	40		148.00
CC 105	C-41 D	lb	31		124.00
CC 111	SALT	lb	804		402.00
CC 112	cmt Factor Reducer	lb	46		276.00
CC 129	FLA-322	lb	76		570.00
CC 201	Wilsonite	lb	800		536.00
CF 104	TOP Rubber Plug 7"	SA	1		110.00
CF 1282	Seal Float Shoe	SA	1		760.00
CF 3000	Thread Lock Kit	SA	1		34.00
CC 151	MUD Thick	gal	500		750.00
E 100	Hydro rd	m	25		112.50
E 101	Heavy Spint	m	50		375.00
E 113	Bulk Heavy TM	TM	189		471.88
CE 205	Depth change 4,000 - 5000'	SA	1		2,520.00
CE 240	Blendup - mix	sk	160		224.00
CE 504	Plug Constant Depth	SA	1		250.00
9003	SPAW Super	SA	1		175.00
SUB TOTAL					10,558.38

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT %TAX ON \$
MATERIALS %TAX ON \$

discout **1,129.95**
TOTAL **8,129.95**
Thank you

SERVICE REPRESENTATIVE **Robert [Signature]**

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **[Signature]**
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>01-01-15</i>			
Lease <i>Miller</i>	Well # <i>26-1H</i>				
Field Order # <i>11761</i>	Station <i>Pratt KS</i>	Casing <i>7"</i>	Depth <i>4313'</i>	County <i>Revo</i>	State <i>KS</i>
Type Job <i>ENW 7"</i>	Formation	Legal Description <i>26-25-10</i>			

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>7"</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>4313</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>165'</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>3,000</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>P.O.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>423</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>DAVE South</i>	Treater <i>Robert Johnson</i>
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Service Units <i>37900 33708 20920 19862 21010</i>									
Driver Names <i>Sullivan EGINS Felex</i>									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>8:15</i>					<i>on loc</i>
<i>9:15</i>					<i>CASING on Bottom</i>
<i>9:20</i>					<i>Rig Circ csg.</i>
<i>10:20</i>			<i>5</i>	<i>3.5</i>	<i>24 SPACER</i>
			<i>12</i>	<i>4.5</i>	<i>MIX MUD Flush</i>
			<i>5</i>		<i>SPACER</i>
	<i>300</i>		<i>40</i>		<i>MIX CMT 1600 SK AA-2 CMT 15.00% CMT MIXED shut down</i>
					<i>Release Plug</i>
				<i>6</i>	<i>St Sep</i>
					<i>Lift</i>
	<i>850</i>			<i>4</i>	<i>slow RATE</i>
<i>11:20</i>	<i>1850</i>		<i>165</i>		<i>Plug down</i>
					<i>Release PSI Flow 4/10</i>
					<i>JOB Complete</i>
					<i>Thank you</i>



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ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

0040804993
FIELD SERVICE TICKET

1718 11764 A

DATE _____ TICKET NO. _____

DATE OF JOB 01-09-15 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER UNIT Petroleum		LEASE M. H. H. 36-1 H WELL NO.							
ADDRESS		COUNTY Reed STATE KS							
CITY STATE		SERVICE CREW Scott, McJannet, Andy, Rolly							
AUTHORIZED BY		JOB TYPE: OPW 4 1/2 - 5 1/2 LBS STRONG							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
78992-8619	80						01-09-15	PM	3:00
19826-21070	80					ARRIVED AT JOB		AM	5:00
37900						START OPERATION		AM	6:30
						FINISH OPERATION		AM	7:40
						RELEASED		PM	8:30
						MILES FROM STATION TO WELL			25

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 104	50/50 P&C cont	SK	400		4,400.00
CC 105	C-41 P	lb	84		336.00
CC 111	SALT	lb	2390		1,195.00
CC 112	CMT Fracture Additive	lb	101		606.00
CC 113	Gy DSun	lb	1680		1,260.00
CC 129	FLA-322	lb	202		1,515.00
CC 130	C-51	lb	68		1,700.00
C 704	CLAY MAX	gal	7		245.00
CC 131	Sag AN	lb	250		1,250.00
CC 151	MWD Fluid	gal	500		750.00
E 100	Surfactant	ms	25		112.50
E 101	Heavy Emul mi	mi	50		375.00
E 113	Bullseye	TM	420		1,050.00
CE 209	Depth Charge 8,000-9,000	SA	1		3,960.00
CE 240	Blending - mxy	SK	400		560.00
SC 003	Service Expense	SA	1		175.00
SUB TOTAL					19,489.50

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		15,006.92

Discubled
thank you

SERVICE REPRESENTATIVE **Robert Johnson** THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **Paul M. H. H.**
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>01-09-15</i>	
Lease <i>Miller</i>	Well # <i>26-1H</i>		
Field Order # <i>11704</i>	Station <i>Pratt ks</i>	Casing	Depth
Type Job <i>CNW LANDSTRENGTH</i>	Formation	County <i>Redo</i>	State <i>KS</i>
		Legal Description <i>26-25-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>	<i>5 1/2</i>							
Depth <i>4234'</i>	Depth <i>4056'</i>	From	To	Pre Pad	Max		5 Min.	
Volume <i>65 1/2</i>	Volume <i>94</i>	From	To	Pad	Min		10 Min.	
Max Press <i>159 1/2</i>	Max Press <i>159 1/2</i>	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
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Service Units <i>37900 78982 86679 19824 21010</i>									
Driver Names <i>Sullivan MORGAN Raley Another</i>									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00</i>					<i>ON LOC</i>
<i>5:15</i>					<i>CASING ON BOTTOM</i>
<i>5:20</i>					<i>Rig circ csg</i>
<i>6:30</i>	<i>1,240</i>		<i>5</i>	<i>3.5</i>	<i>ST SPACER</i>
			<i>12</i>		<i>mix mud flush</i>
			<i>5</i>		<i>ST SPACER</i>
				<i>5</i>	<i>mix cmt 400 sk 50/50 per @ 13.8 ppq</i>
			<i>108</i>		<i>cmt mixed</i>
			<i>1 1/2</i>		<i>Pump Sugar 470</i>
					<i>Shot down</i>
					<i>Load Plug & Ball</i>
				<i>6</i>	<i>St Deep w/ Sugar WATER 40 BBL</i>
					<i>Lift</i>
	<i>1250</i>		<i>145</i>	<i>3.5</i>	<i>Slow Rate</i>
<i>7:40</i>	<i>1,850</i>		<i>190</i>		<i>Plug down Plug NOT LOAD 5 BBL over</i>
					<i>Reverse Psi Check Float.</i>
					<i>SOB Complete</i>
					<i>Strat y</i>