



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1236180
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

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
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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: _____

1236180

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Feedlot 15 #2H
Doc ID	1236180

Tops

Name	Top	Datum
Heebner Shale	3273	1771
Brown Lime	3448	
Lansing/ Kansas City	3464	
Stark Shale	3727	
Hushpuckney Shale	3758	
Pleasanton Shale	3812	
Cherokee Shale	3881	
Mississippi	3918	

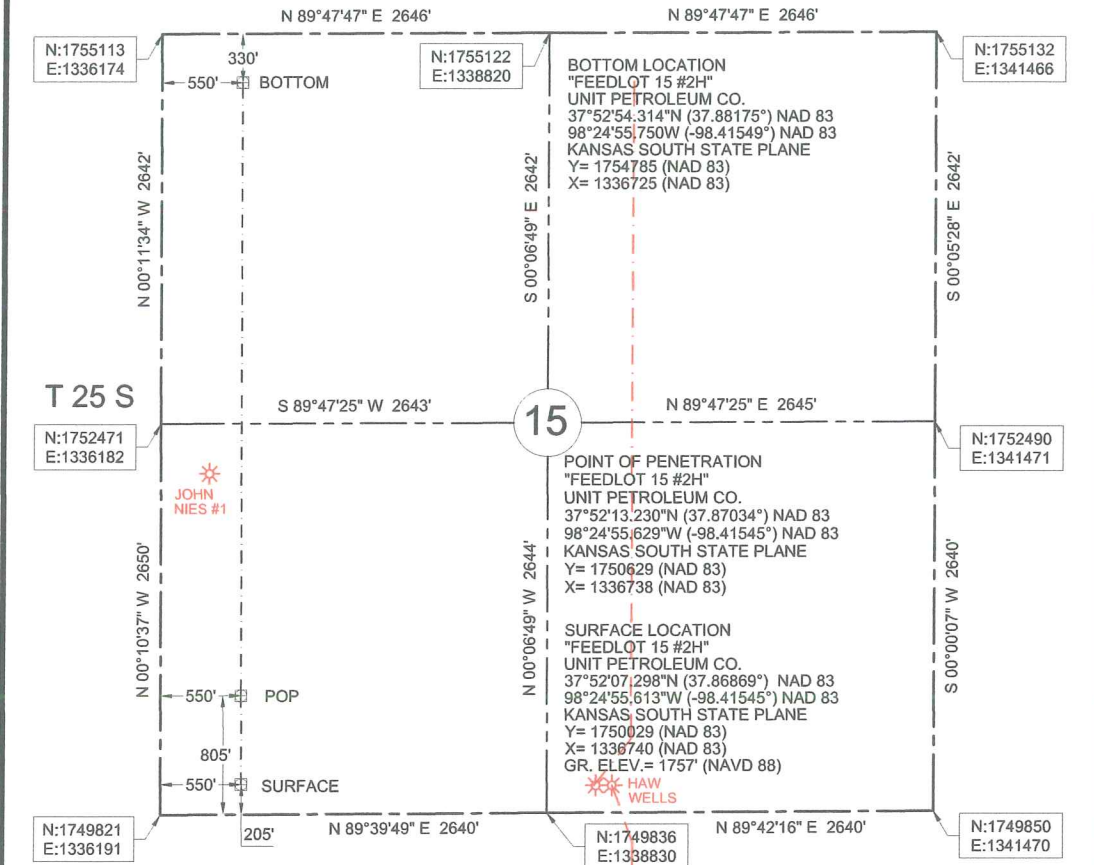
Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Feedlot 15 #2H
Doc ID	1236180

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	17.5	13.375	48	215	Common	400	2% cc
Intermediate	12.25	9.625	36	1500	H	605	2% cc .25# celloflake
Intermediate	8.75	7	26	4330	AA-2	160	2% cc .25# celloflake
Production	6.125	5.5	17	8762	50/50 POZ	400	2% cc .25# celloflake
Production	6.125	4.5	11.6	8762	50/50 POZ	400	2% cc .25# celloflake

Section 15, T 25 S, R 10 W., Reno County, Kansas.

R 10 W



0' 1000' 2000' 3000'

LEGEND

- SECTION LINE
- 1/4 SECTION LINE
- * EXISTING WELL
- - - - - EXISTING LATERAL

Datum: NAD 83
Units: US Survey Feet
North: Grid
Coordinates: State Plane
Zone: 1502
State: Kansas
Region: South

**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 "Feedlot 15 #2H" situated 205 feet from the south section line and 550 feet from the west section line of Section 15, T 25 S, R 10 W., Reno County, Kansas.

Description: Point of Penetration "Feedlot 15 #2H" situated 805 feet from the south section line and 550 feet from the west section line of Section 15, T 25 S, R 10 W., Reno County, Kansas.

Description: Bottom Location "Feedlot 15 #2H" situated 330 feet from the north section line and 550 feet from the west section line of Section 15, T 25 S, R 10 W., Reno County, Kansas.



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

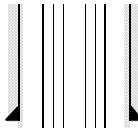
	JVIDENS LAND SURVEY CO., Inc. 1210 19TH STREET / P.O. BOX 943 WOODWARD, OKLAHOMA 73802 Phone 580-256-7174 - Fax 580-256-3424 roger@jvidenslandsurvey.com mike@jvidenslandsurvey.com	Survey For: Unit Petroleum Co. P.O. Box 2726 Woodward, OK 73802 Attn: Jason Rummery	JOB 338-14	DATE OF PLAT 08-04-2014	SCALE 1"=1000'	SHEET 1 OF 5
			DRAWN BY C.M.G.	OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014		

Field: Mississippi

Feedlot 15-2H

Location:	
Footage:	Sfc: 205' FSL & 550' FWL
Section:	15
Township:	25S
Range:	10W
County:	Reno, KS
Lat:	37° 52' 07.298" N
Long:	98° 24' 55.613" W
Elevations:	
GL:	1764'
KB:	14'
KB Calc:	1778'
ck w/log?	

Wellbore Diagram



Well ID Info:	
API No:	155 21710 0100
Spud Date:	10/11/14 Riq 331

Hole Size: 17-1/2"
Surf. Csg: 15-3/8" 48# H-40
Set @: 215' set on 10/11/14
Cement w/ 400 sxs
Circ: Cir out sfc
TOC: Surface

Hole Size: 12-1/4" 215'-1500"
Csg: 9-5/8" 36# J-55
Set @: 1500' set on 10/13/14
Cement w/ 605 sxs
TOC: Surface

Hole Size: 8-3/4" from 1500' - 4330'

Hole Size: 9-3/4"
Intermed. Casing: 7" 26# N-80
Set @: 4330' on 10/17/14
Cmt: 160 sxs
Est TOC: 2565

KOP MD: 3300'

Hole Size: 6-1/8"
Prod. Csg: 5-1/2" 17# P-110 to 4 1/2" P-110 11.6#
XO: 494'
Set @: to surface on 10/26/14
Cmt: 400 sxs
Est TOC: 3500'

Date	History
10/11/14	Spud Well
10/25/14	TD well at 8,775'

Tubing Detail (top to bottom)			
Joints	Description	Footage	Depth

Rod Detail (top to bottom)			
Rods	Description	Footage	Depth

4350-4577 4700-4952 5075-5302 5425-5677 6100-6402 6570-6822 6945-7197 7320-7572 7695-7947 8055-8292 8415-8542

8.775 TD

Updated: 12/22/2014

Unit Petroleum

Reno County, Kansas [NAD 83]

Section 15 T25S-R10W

Feedlot 15 #2H

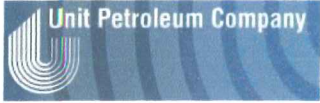
OH

Design: OH

Standard Survey Report

29 October, 2014





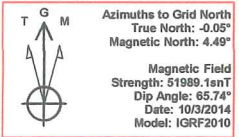
Unit Petroleum
 Project: Reno County, Kansas [NAD 83]
 Site: Section 15 T25S-R10W
 Well: Feedlot 15 #2H
 Wellbore: OH
 Design: Design #3
 Lat: 37° 52' 7.296 N
 Long: 98° 24' 55.612 W
 Pad GL: 1757.00
 KB: 14' KB @ 1771.00usft (UDI 331)



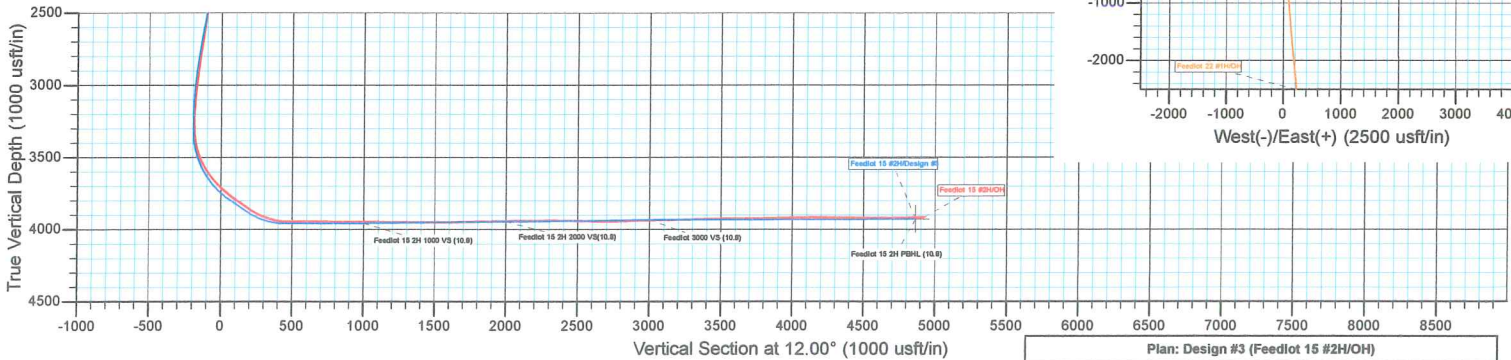
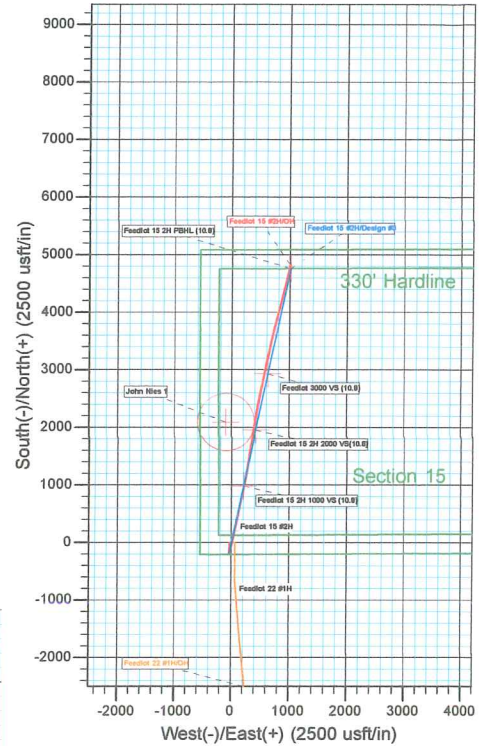
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1650.00	0.00	0.00	1650.00	0.00	0.00	0.00	0.00	0.00	
2150.00	10.00	192.00	2147.47	-42.67	-9.05	2.00	192.00	-43.52	
2783.18	10.00	192.00	2771.03	-150.12	-31.91	0.00	0.00	-153.47	
3283.18	0.00	0.00	3268.49	-192.69	-40.96	2.00	180.00	-197.00	
3333.18	0.00	0.00	3318.49	-192.69	-40.96	0.00	0.00	-197.00	
3893.18	56.00	12.00	3793.49	54.35	11.55	10.00	12.00	55.57	
4043.18	56.00	12.00	3877.37	175.99	37.41	0.00	0.00	179.92	
4328.24	90.21	12.00	3959.00	438.85	93.28	12.00	0.00	448.65	
4879.80	90.21	12.00	3857.00	978.15	207.91	0.00	0.00	1000.00	
4900.94	90.63	12.00	3856.84	999.03	212.35	2.00	0.00	1021.34	
5877.02	90.63	12.00	3946.03	1953.71	415.27	0.00	0.00	1997.36	
5879.66	90.69	12.00	3946.00	1956.30	415.82	2.00	0.00	2000.00	
6879.73	90.69	12.00	3934.00	2934.44	623.74	0.00	0.00	3000.00	
6906.62	90.15	12.00	3933.80	2960.74	629.33	2.00	180.00	3026.89	
8744.72	90.15	12.00	3929.00	4758.67	1011.49	0.00	0.00	4864.98	

WELL DETAILS: Feedlot 15 #2H						
+N/-S	+E/-W	Northing	Ground Level: Easting	1757.00 Latitude	Longitude	Slot
0.00	0.00	1750029.00	1336740.00	37° 52' 7.296 N	98° 24' 55.612 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.



Plan: Design #3 (Feedlot 15 #2H/OH)
 Created By: Derek Stephens Date: 10:04, October 29 2014



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 15 T25S-R10W				
Site Position:		Northing:	1,750,023.00 usft	Latitude:	37° 52' 7.214 N
From:	Map	Easting:	1,339,150.00 usft	Longitude:	98° 24' 25.556 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.06 °

Well	Feedlot 15 #2H					
Well Position	+N/-S	0.00 usft	Northing:	1,750,029.00 usft	Latitude:	37° 52' 7.296 N
	+E/-W	0.00 usft	Easting:	1,336,740.00 usft	Longitude:	98° 24' 55.612 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,757.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/3/2014	4.54	65.74	51,989

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	12.00	

Survey Program	Date	10/29/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,410.00	Gyro (OH)	CB-GYRO-MS	Camera based gyro multishot	
1,571.00	8,775.00	MWD (OH)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
John Nies 1										
100.00	0.33	257.17	100.00	-0.06	-0.28	-0.12	0.33	0.33	0.00	
200.00	0.08	38.82	200.00	-0.07	-0.52	-0.18	0.40	-0.25	141.65	
300.00	0.26	347.67	300.00	0.20	-0.52	0.09	0.22	0.18	-51.15	
400.00	0.30	299.19	400.00	0.55	-0.80	0.37	0.23	0.04	-48.48	
500.00	0.52	273.99	499.99	0.71	-1.48	0.39	0.28	0.22	-25.20	
600.00	0.56	274.20	599.99	0.78	-2.42	0.26	0.04	0.04	0.21	
700.00	0.62	261.20	699.99	0.73	-3.44	0.00	0.15	0.06	-13.00	
800.00	0.48	266.90	799.98	0.63	-4.40	-0.30	0.15	-0.14	5.70	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
900.00	0.25	291.70	899.98	0.68	-5.02	-0.37	0.27	-0.23	24.80	
1,000.00	0.34	307.93	999.98	0.95	-5.45	-0.21	0.12	0.09	16.23	
1,100.00	0.62	283.99	1,099.97	1.26	-6.21	-0.06	0.34	0.28	-23.94	
1,200.00	0.59	306.38	1,199.97	1.70	-7.15	0.17	0.24	-0.03	22.39	
1,300.00	0.55	302.03	1,299.96	2.26	-7.97	0.55	0.06	-0.04	-4.35	
1,400.00	0.93	295.44	1,399.95	2.86	-9.11	0.90	0.39	0.38	-6.59	
1,410.00	0.86	297.71	1,409.95	2.93	-9.25	0.94	0.78	-0.70	22.70	
1,571.00	0.90	287.80	1,570.93	3.88	-11.53	1.40	0.10	0.02	-6.16	
1,665.00	1.90	250.90	1,664.91	3.59	-13.70	0.67	1.38	1.06	-39.26	
1,761.00	3.20	219.30	1,760.81	1.00	-16.90	-2.54	1.95	1.35	-32.92	
1,856.00	4.80	213.10	1,855.58	-4.38	-20.75	-8.60	1.74	1.68	-6.53	
1,950.00	5.90	203.30	1,949.17	-12.12	-24.81	-17.01	1.52	1.17	-10.43	
2,045.00	7.40	193.40	2,043.53	-22.55	-28.16	-27.91	1.98	1.58	-10.42	
2,139.00	8.90	188.30	2,136.58	-35.64	-30.61	-41.22	1.77	1.60	-5.43	
2,234.00	9.80	184.40	2,230.32	-50.97	-32.30	-56.57	1.16	0.95	-4.11	
2,328.00	9.90	185.70	2,322.93	-66.99	-33.71	-72.53	0.26	0.11	1.38	
2,423.00	9.60	186.80	2,416.56	-82.98	-35.46	-88.54	0.37	-0.32	1.16	
2,519.00	9.10	187.90	2,511.29	-98.45	-37.45	-104.08	0.55	-0.52	1.15	
2,615.00	9.10	183.10	2,606.08	-113.55	-38.91	-119.16	0.79	0.00	-5.00	
2,710.00	8.70	182.80	2,699.94	-128.23	-39.66	-133.67	0.42	-0.42	-0.32	
2,805.00	8.40	183.60	2,793.88	-142.33	-40.45	-147.63	0.34	-0.32	0.84	
2,900.00	7.70	184.80	2,887.94	-155.59	-41.42	-160.81	0.76	-0.74	1.26	
2,995.00	7.10	183.50	2,982.15	-167.80	-42.31	-172.93	0.66	-0.63	-1.37	
3,090.00	4.90	171.80	3,076.63	-177.67	-42.09	-182.54	2.64	-2.32	-12.32	
3,186.00	2.40	171.90	3,172.43	-183.72	-41.22	-188.28	2.60	-2.60	0.10	
3,249.00	1.30	143.30	3,235.39	-185.60	-40.61	-189.99	2.23	-1.75	-45.40	
3,291.00	1.10	143.40	3,277.38	-186.31	-40.08	-190.57	0.48	-0.48	0.24	
3,323.00	1.50	47.70	3,309.38	-186.27	-39.59	-190.43	6.08	1.25	-299.06	
3,355.00	4.80	24.60	3,341.33	-184.77	-38.72	-188.79	10.85	10.31	-72.19	
3,387.00	8.30	21.40	3,373.11	-181.40	-37.32	-185.20	10.99	10.94	-10.00	
3,419.00	11.50	14.90	3,404.63	-176.17	-35.66	-179.73	10.58	10.00	-20.31	
3,451.00	14.60	9.30	3,435.80	-169.10	-34.19	-172.52	10.45	9.69	-17.50	
3,482.00	18.30	10.60	3,465.53	-160.46	-32.66	-163.75	11.99	11.94	4.19	
3,513.00	21.90	12.30	3,494.64	-150.03	-30.53	-153.10	11.76	11.61	5.48	
3,545.00	25.10	14.70	3,523.98	-137.63	-27.54	-140.34	10.44	10.00	7.50	
3,576.00	28.40	15.60	3,551.66	-124.16	-23.88	-126.42	10.72	10.65	2.90	
3,608.00	31.60	14.90	3,579.37	-108.73	-19.68	-110.44	10.06	10.00	-2.19	
3,639.00	34.80	14.10	3,605.31	-92.29	-15.44	-93.49	10.42	10.32	-2.58	
3,671.00	37.80	13.50	3,631.09	-73.90	-10.92	-74.55	9.44	9.38	-1.88	
3,702.00	40.20	13.20	3,655.18	-54.92	-6.42	-55.05	7.77	7.74	-0.97	
3,734.00	42.70	12.70	3,679.17	-34.27	-1.67	-33.87	7.88	7.81	-1.56	
3,764.00	45.30	12.40	3,700.74	-13.93	2.85	-13.04	8.69	8.67	-1.00	
3,796.00	47.80	12.30	3,722.75	8.76	7.82	10.19	7.82	7.81	-0.31	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,827.00	50.30	12.20	3,743.06	31.64	12.79	33.60	8.07	8.06	-0.32
3,859.00	52.60	12.20	3,763.01	56.10	18.08	58.63	7.19	7.19	0.00
3,893.00	54.70	11.90	3,783.16	82.87	23.79	86.01	6.22	6.18	-0.88
3,922.00	55.30	12.00	3,799.79	106.12	28.71	109.77	2.09	2.07	0.34
3,954.00	55.40	11.90	3,817.98	131.87	34.16	136.09	0.40	0.31	-0.31
3,986.00	55.50	11.80	3,836.13	157.66	39.57	162.45	0.40	0.31	-0.31
4,017.00	55.90	12.20	3,853.60	182.71	44.90	188.06	1.67	1.29	1.29
4,043.00	57.30	12.60	3,867.91	203.91	49.56	209.76	5.54	5.38	1.54
4,080.00	61.40	12.90	3,886.77	234.95	56.58	241.58	11.10	11.08	0.81
4,112.00	66.10	13.40	3,900.92	262.89	63.11	270.27	14.75	14.69	1.56
4,144.00	70.40	13.10	3,912.78	291.81	69.92	299.98	13.47	13.44	-0.94
4,175.00	72.50	13.10	3,922.64	320.44	76.58	329.36	6.77	6.77	0.00
4,207.00	74.90	12.80	3,931.62	350.37	83.47	360.06	7.55	7.50	-0.94
4,238.00	78.80	11.40	3,938.67	379.88	89.79	390.25	13.33	12.58	-4.52
4,271.00	82.90	10.70	3,943.92	411.85	96.03	422.81	12.60	12.42	-2.12
4,283.00	84.60	10.60	3,945.22	423.57	98.24	434.74	14.19	14.17	-0.83
4,353.00	90.60	12.10	3,948.15	492.11	112.00	504.64	8.83	8.57	2.14
4,416.00	91.30	11.40	3,947.11	553.78	124.82	567.63	1.57	1.11	-1.11
4,477.00	90.00	11.50	3,946.42	613.56	136.93	628.62	2.14	-2.13	0.16
4,540.00	90.50	11.20	3,946.14	675.33	149.33	691.62	0.93	0.79	-0.48
4,602.00	89.50	12.00	3,946.14	736.06	161.80	753.61	2.07	-1.61	1.29
4,664.00	89.60	12.20	3,946.63	796.68	174.79	815.61	0.36	0.16	0.32
4,726.00	89.80	11.90	3,946.95	857.31	187.74	877.61	0.58	0.32	-0.48
4,789.00	90.30	12.00	3,946.90	918.95	200.78	940.61	0.81	0.79	0.16
4,848.47	88.84	12.10	3,947.35	977.10	213.19	1,000.07	2.46	-2.46	0.16
Feedlot 15 2H 1000 VS (10.8)									
4,848.58	88.84	12.10	3,947.35	977.21	213.22	1,000.19	0.00	0.00	0.00
Feedlot 15 2H 1000 VS (10.7)									
4,850.00	88.80	12.10	3,947.38	978.60	213.51	1,001.61	2.67	-2.66	0.18
4,870.93	88.87	11.90	3,947.80	999.07	217.86	1,022.53	1.00	0.32	-0.95
Feedlot 15 2H 1000' VS (10.7)									
4,899.04	88.96	11.63	3,948.34	1,026.58	223.60	1,050.63	1.00	0.32	-0.95
Feedlot 15 2H 1000' VS									
4,913.00	89.00	11.50	3,948.59	1,040.26	226.39	1,064.59	1.00	0.32	-0.95
4,975.00	88.70	11.10	3,949.83	1,101.04	238.54	1,126.58	0.81	-0.48	-0.65
5,037.00	89.50	10.00	3,950.81	1,161.98	249.89	1,188.55	2.19	1.29	-1.77
5,098.00	90.60	9.40	3,950.75	1,222.11	260.17	1,249.50	2.05	1.80	-0.98
5,160.00	89.80	10.60	3,950.54	1,283.17	270.93	1,311.46	2.33	-1.29	1.94
5,222.00	89.80	9.90	3,950.75	1,344.18	281.97	1,373.43	1.13	0.00	-1.13
5,283.00	89.90	8.60	3,950.91	1,404.38	291.77	1,434.36	2.14	0.16	-2.13
5,345.00	90.50	8.70	3,950.70	1,465.68	301.10	1,496.25	0.98	0.97	0.16
5,406.00	91.60	9.10	3,949.58	1,525.93	310.53	1,557.15	1.92	1.80	0.66
5,468.00	90.60	9.70	3,948.39	1,587.09	320.66	1,619.07	1.88	-1.61	0.97
5,530.00	90.40	9.90	3,947.85	1,648.18	331.21	1,681.02	0.46	-0.32	0.32



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,591.00	90.60	9.70	3,947.31	1,708.29	341.59	1,741.98	0.46	0.33	-0.33	
5,653.00	91.10	9.70	3,946.39	1,769.39	352.04	1,803.92	0.81	0.81	0.00	
5,714.00	91.30	9.50	3,945.12	1,829.53	362.21	1,864.85	0.46	0.33	-0.33	
5,776.00	91.80	9.20	3,943.44	1,890.68	372.28	1,926.76	0.94	0.81	-0.48	
5,837.00	90.80	9.50	3,942.06	1,950.85	382.18	1,987.68	1.71	-1.64	0.49	
5,847.90	90.78	9.55	3,941.91	1,961.60	383.99	1,998.57	0.51	-0.16	0.48	
Feedlot 15 2H 2000 VS(10.7)										
5,847.97	90.78	9.55	3,941.90	1,961.67	384.00	1,998.64	0.00	0.00	0.00	
Feedlot 15 2H 2000 VS(10.8)										
5,879.94	90.73	9.71	3,941.48	1,993.19	389.35	2,030.59	0.51	-0.16	0.48	
Feedlot 15 2H 2000' VS										
5,892.56	90.71	9.77	3,941.32	2,005.62	391.48	2,043.19	0.51	-0.16	0.48	
Feedlot 15 2H 2000 VS (10.7)										
5,899.00	90.70	9.80	3,941.24	2,011.97	392.58	2,049.62	0.51	-0.16	0.48	
5,960.00	90.80	10.00	3,940.45	2,072.06	403.06	2,110.58	0.37	0.16	0.33	
6,022.00	91.20	9.70	3,939.36	2,133.13	413.67	2,172.52	0.81	0.65	-0.48	
6,083.00	90.60	10.00	3,938.41	2,193.23	424.10	2,233.47	1.10	-0.98	0.49	
6,144.00	89.40	9.10	3,938.41	2,253.38	434.22	2,294.42	2.46	-1.97	-1.48	
6,206.00	89.00	9.50	3,939.27	2,314.56	444.24	2,356.34	0.91	-0.65	0.65	
6,267.00	88.70	9.60	3,940.50	2,374.70	454.36	2,417.27	0.52	-0.49	0.16	
6,328.00	89.30	10.30	3,941.56	2,434.77	464.90	2,478.22	1.51	0.98	1.15	
6,388.00	88.90	9.90	3,942.50	2,493.84	475.42	2,538.18	0.94	-0.67	-0.67	
6,450.00	89.00	9.80	3,943.64	2,554.91	486.02	2,600.13	0.23	0.16	-0.16	
6,511.00	89.80	9.90	3,944.28	2,615.01	496.46	2,661.08	1.32	1.31	0.16	
6,574.00	90.90	10.50	3,943.89	2,677.01	507.61	2,724.05	1.99	1.75	0.95	
6,638.00	91.60	11.60	3,942.50	2,739.81	519.88	2,788.02	2.04	1.09	1.72	
6,702.00	91.70	11.80	3,940.65	2,802.45	532.85	2,852.00	0.35	0.16	0.31	
6,764.00	91.80	12.10	3,938.76	2,863.08	545.68	2,913.97	0.51	0.16	0.48	
6,828.00	91.40	12.80	3,936.97	2,925.55	559.47	2,977.94	1.26	-0.63	1.09	
6,850.71	91.00	12.73	3,936.50	2,947.70	564.49	3,000.65	1.77	-1.75	-0.32	
Feedlot 3000 VS (10.7)										
6,850.80	91.00	12.73	3,936.50	2,947.78	564.51	3,000.73	0.00	0.00	0.00	
Feedlot 3000 VS (10.8)										
6,854.65	90.94	12.72	3,936.43	2,951.54	565.36	3,004.58	1.78	-1.75	-0.32	
Feedlot 15 2H 3000' VS										
6,891.00	90.30	12.60	3,936.04	2,987.00	573.32	3,040.93	1.78	-1.75	-0.32	
6,955.00	90.60	11.90	3,935.54	3,049.54	586.90	3,104.92	1.19	0.47	-1.09	
7,019.00	90.90	11.70	3,934.70	3,112.18	599.99	3,168.92	0.56	0.47	-0.31	
7,082.00	91.70	11.80	3,933.27	3,173.85	612.81	3,231.90	1.28	1.27	0.16	
7,146.00	92.20	11.60	3,931.09	3,236.48	625.78	3,295.86	0.84	0.78	-0.31	
7,210.00	91.30	12.10	3,929.14	3,299.09	638.92	3,359.83	1.61	-1.41	0.78	
7,272.00	91.30	11.70	3,927.73	3,359.74	651.70	3,421.82	0.64	0.00	-0.65	
7,335.00	89.90	12.30	3,927.07	3,421.36	664.80	3,484.81	2.42	-2.22	0.95	
7,398.00	89.40	12.10	3,927.46	3,482.93	678.11	3,547.81	0.85	-0.79	-0.32	
7,461.00	89.90	12.60	3,927.84	3,544.47	691.59	3,610.81	1.12	0.79	0.79	



Company:	Unit Petroleum	Local Co-ordinate Reference:	Well Feedlot 15 #2H
Project:	Reno County, Kansas [NAD 83]	TVD Reference:	14' KB @ 1771.00usft (UDI 331)
Site:	Section 15 T25S-R10W	MD Reference:	14' KB @ 1771.00usft (UDI 331)
Well:	Feedlot 15 #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,525.00	90.70	12.80	3,927.51	3,606.91	705.66	3,674.80	1.29	1.25	0.31	
7,588.00	91.40	12.70	3,926.35	3,668.34	719.56	3,737.78	1.12	1.11	-0.16	
7,650.00	91.30	12.90	3,924.89	3,728.78	733.29	3,799.76	0.36	-0.16	0.32	
7,713.00	91.60	13.00	3,923.30	3,790.16	747.40	3,862.73	0.50	0.48	0.16	
7,776.00	92.80	13.20	3,920.88	3,851.48	761.67	3,925.67	1.93	1.90	0.32	
7,839.00	91.20	14.30	3,918.68	3,912.63	776.64	3,988.60	3.08	-2.54	1.75	
7,903.00	90.60	14.90	3,917.67	3,974.56	792.77	4,052.53	1.33	-0.94	0.94	
7,967.00	89.80	15.00	3,917.45	4,036.39	809.28	4,116.44	1.26	-1.25	0.16	
8,030.00	90.20	14.60	3,917.45	4,097.30	825.37	4,179.37	0.90	0.63	-0.63	
8,093.00	89.10	14.00	3,917.84	4,158.34	840.93	4,242.31	1.99	-1.75	-0.95	
8,156.00	89.00	14.10	3,918.88	4,219.45	856.22	4,305.26	0.22	-0.16	0.16	
8,219.00	89.50	14.00	3,919.70	4,280.56	871.51	4,368.22	0.81	0.79	-0.16	
8,282.00	90.40	14.10	3,919.76	4,341.67	886.81	4,431.18	1.44	1.43	0.16	
8,346.00	88.90	14.20	3,920.15	4,403.73	902.45	4,495.13	2.35	-2.34	0.16	
8,409.00	89.20	14.20	3,921.19	4,464.80	917.91	4,558.07	0.48	0.48	0.00	
8,473.00	89.80	13.40	3,921.75	4,526.95	933.17	4,622.04	1.56	0.94	-1.25	
8,536.00	90.20	13.70	3,921.75	4,588.19	947.93	4,685.02	0.79	0.63	0.48	
8,558.69	90.31	13.63	3,921.65	4,610.24	953.29	4,707.69	0.56	0.47	-0.31	
Feedlot 15 2H PBHL										
8,600.00	90.50	13.50	3,921.36	4,650.40	962.98	4,748.99	0.56	0.47	-0.31	
8,663.00	91.40	13.40	3,920.32	4,711.66	977.63	4,811.96	1.44	1.43	-0.16	
8,715.90	91.95	13.01	3,918.77	4,763.14	989.71	4,864.83	1.28	1.04	-0.75	
Feedlot 15 2H PBHL (10.7)										
8,716.19	91.96	13.00	3,918.76	4,763.42	989.77	4,865.12	1.28	1.04	-0.75	
Feedlot 15 2H PBHL (10.8)										
8,730.00	92.10	12.90	3,918.27	4,776.87	992.87	4,878.91	1.28	1.04	-0.75	
Last MWD Survey										
8,775.00	92.10	12.90	3,916.62	4,820.71	1,002.91	4,923.88	0.00	0.00	0.00	
Projection to TD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
8,730.00	3,918.27	4,776.87	992.87	Last MWD Survey	
8,775.00	3,916.62	4,820.71	1,002.91	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____

Customer <i>UNIT Petroleum</i>	Lease No.	Date <i>10-11-14</i>
Lease <i>Feedlot 15-24</i>	Well # <i>UNIT Petroleum</i>	
Field Order # <i>11488</i>	Station <i>PRATT KS</i>	Casing <i>13 3/8</i>
Type Job <i>CNW 13 3/8 EPODt.</i>	Depth <i>217'</i>	County <i>RENO</i>
	Formation	State <i>KS</i>
		Legal Description <i>15-25-10</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>13 3/8</i>								
Depth <i>217</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>31</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>500</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>swipe</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>202'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Sullivan</i>
Service Units <i>37900 33708 20920 70959 1998</i>		
Driver Names <i>Sullivan Eppinger Phye</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>12:30</i>					<i>on loc</i>
					<i>Run 13 3/8 csg.</i>
<i>4:30</i>					<i>CASING ON BOTTOM</i>
<i>4:40</i>					<i>HOOK UP CIRC CSG.</i>
<i>5:00</i>			<i>3</i>	<i>3.5</i>	<i>14 SPACER</i>
				<i>4.5</i>	<i>MIX CMT 400 SK COMMON CMT 2 1/4 gal 3% OIL</i>
			<i>88</i>		<i>CMT MIXED</i>
				<i>4</i>	<i>St Desig</i>
<i>6:15</i>			<i>30</i>		<i>plug down</i>
					<i>circulated 15 BBL cmt pit</i>
					<i>JOB complete</i>
					<i>THANK YOU</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer: UNIT PATROLEAN	Lease No.	Date: 10-13-14
Lease: Feedlot	Well # 15-24	
Field Order # 11489	Station PRATT KS	Casing 9 5/8
Type Job: CNW 9 5/8 Surface	Depth 1504	County RENO
	Formation	State KS
		Legal Description 15-25-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
9 5/8								5 Min.
Depth 1504	Depth	From	To	Pre Pad	Max			10 Min.
Volume 116	Volume	From	To	Pad	Min			15 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 1504'	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Johnson
Service Units 37900 33708 20920 10959 19918 19960 19860		
Driver Names Sullivan Eric P. P. P. P.		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:15					ON LOC
					RUN 9 5/8 csp.
8:00					CASING ON BOTTOM
8:10					HOOK UP CIRC CSP.
9:30			3	3.5	ST SPACER
			143	4.5	MIX A-COM CNT 325 SK
			60		MIX COMMON CNT 280 SK
					SHUT DOWN
					REMOVE PLUG AND START DISP
	500			3	LIFT
11:00	1,000		116		PLUG DOWN
					HOAT HOLD.
					CIRC 50 BBL CNT PIT
					JOB COMPLETE
					THANK U

Customer <i>Unit Petroleum Co.</i>	Lease No.	Date <i>10-18-2019</i>	
Lease <i>Feed Lwr 1572H</i>	Well # <i>1572H</i>		
Field Order # <i>11275</i>	Station <i>Prst+1K5</i>	Casing <i>7"</i>	Depth <i>4335</i>
Type Job <i>CNW/7" Inter Med. site</i>	Formation	County <i>Reno</i>	State <i>KS</i>
		Legal Description <i>15-253-19w</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>7"</i>				Pre Pad	Max		5 Min.
Depth <i>4335</i>	Depth	From	To	Pad	Min		10 Min.
Volume <i>166</i>	Volume	From	To	Frac	Avg		15 Min.
Max Press	Max Press	From	To				
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <i>4330</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Kevin Gorday</i>	Treater <i>Darin Franklin</i>
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Service Units	<i>2743</i>	<i>33708</i>	<i>20520</i>	<i>19885</i>	<i>19862</i>				
Driver Names	<i>Darin</i>	<i>Ed</i>	<i>Ed</i>	<i>Besney</i>	<i>Besney</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:00 PM</i>					<i>ON location / Safety Meeting</i>
					<i>Run 4335' 7" casing</i>
					<i>160 SK AD 2 cement, 1/4# Cell of 19ke</i>
					<i>2% Defoamer, 10% SS12, .3% CFR</i>
					<i>.5% FLA-322, 5#/SK Gilsonite</i>
					<i>15.00 pps, 1.43 vol%, 6.01 water Res.</i>
	<i>300</i>		<i>12</i>	<i>4 1/2</i>	<i>Pump 500 gsi mud flush</i>
	<i>300</i>		<i>41</i>	<i>4 1/2</i>	<i>mix 160 SK cement</i>
					<i>Shut down</i>
					<i>Release plug</i>
	<i>300</i>		<i>0</i>	<i>6</i>	<i>Start displacement</i>
	<i>1,000</i>		<i>133</i>	<i>6</i>	<i>Lift pressure</i>
	<i>1,000</i>		<i>156</i>	<i>3</i>	<i>slow rate</i>
	<i>1500</i>		<i>161</i>	<i>3</i>	<i>Bump plug</i>
					<i>Release - Hold</i>
					<i>Job complete / Darin & crew</i>
					<i>Thank you!!</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Customer UNIT Petroleum	Lease No.	Date 10-26-14
Lease Feedlot 15	Well # 2-H	
Field Order # 11499	Station PRA-HKS	County RENO
Type Job CNW L-INNER	Casing 4 1/2"	Depth 8719'
	Formation	Legal Description 15-25-10

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 4630'	Depth 4089'	From	To	Pre Pad	Max			5 Min.
Volume 72	Volume 95	From	To	Pad	Min			10 Min.
Max Press 167	Max Press	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 Johnson
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Service Units	37900	77686	19905	19905	21010				
Driver Names	Sullivan	McMORAN	D. BOON						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30 pm					on loc
					TOTAL 8719' 99
					4630' 4 1/2" - 4089 5/2"
					CASING on Bottom
					Rig Circ Cas,
8:45			5	4.5	st spacer
	1000		12		mud flush
			5		st spacer
				4.5	mix cmt 400 sk 50/50 1.52 yield
			103		7.17 pay/sk mix @ 13.8 ppf
					cmt mixed
					pump two BBL. Seize water
					shut down
	650			5.9	load plug AND st disp
	1700			4	lift ps
10:00	2800		167		shut pump
					Return ps. Hour held
					SOB complete
					Thank you