



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: _____

1234553

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"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Haw Ranch 29 #2H
Doc ID	1234553

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	28	16	65	160	H	144	
Intermediate	12.25	9.625	36	1512	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4319	A	160	5% Gyp + 10% salt
Production	6.125	4.50	11.6	8335	Prem H	400	.2% SASL + 1/4# celloflake
Production	6.125	5.50	17	8335	Prem H	400	.2% SASL + 1/4# celloflake

Summary of Changes

Lease Name and Number: Haw Ranch 29 #2H

API/Permit #: 15-155-21687-01-00

Doc ID: 1234553

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	07/15/2014	12/09/2014
Save Link	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 13764	../../../../kcc/detail/operatorE ditDetail.cfm?docID=12 34553
Well Type	GAS	OIL



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1213764

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
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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 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
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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				

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
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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>

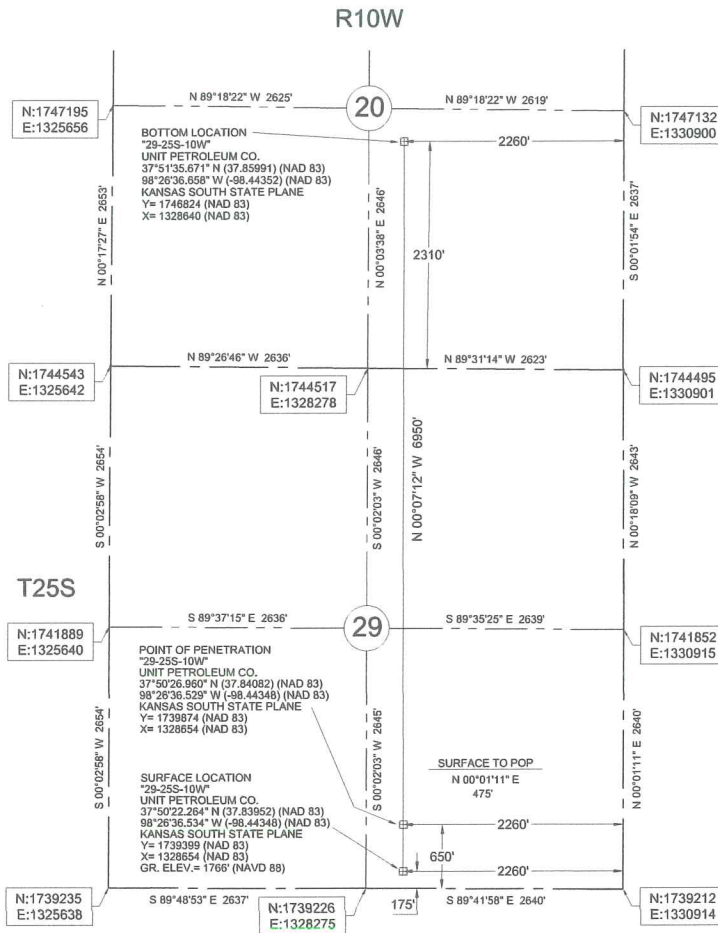
TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Unit Petroleum Company
Well Name	Haw Ranch 29 #2H
Doc ID	1213764

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	28	16	65	160	H	144	
Intermediate	12.25	9.625	36	1512	A	605	2% CC + 1/4# celloflake
Intermediate	8.75	7	26	4319	A	160	5% Gyp + 10% salt
Production	6.125	4.50	11.6	8335	Prem H	400	.2% SASL + 1/4# celloflake
Production	6.125	5.50	17	8335	Prem H	400	.2% SASL + 1/4# celloflake

Section 20 and 29, T 25 S, R 10 W., Reno County, Kansas.



LEGEND

- SECTION LINE
- - - 1/4 SECTION LINE



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

Description: Surface Hole Location Stake "29-25S-10W" situated 175 feet from the south section line and 2260 feet from the east section line of Section 29, T 25 S, R 10 W., Reno County, Kansas.

Description: Point of Penetration "29-25S-10W" situated 650 feet from the south section line and 2260 feet from the east section line of Section 29, T 25 S, R 10 W., Reno County, Kansas.

Description: Bottom Location "29-25S-10W" situated 2310 feet from the south section line and 2260 feet from the east section line of Section 20, T 25 S, R 10 W., Reno County, Kansas.



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

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.



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, Oklahoma 73802
 Attn: Jason Rummy

JOB 003-14	DATE OF PLAT 01-15-2014	SCALE 1"=1500'	SHEET 1 OF 5
DRAWN BY C.M.G.		OKLA. CA #2064, EXP. 06/30/2015 KANSAS CA #143, EXP. 12/31/2014	

HAW RANCH 29 #2H



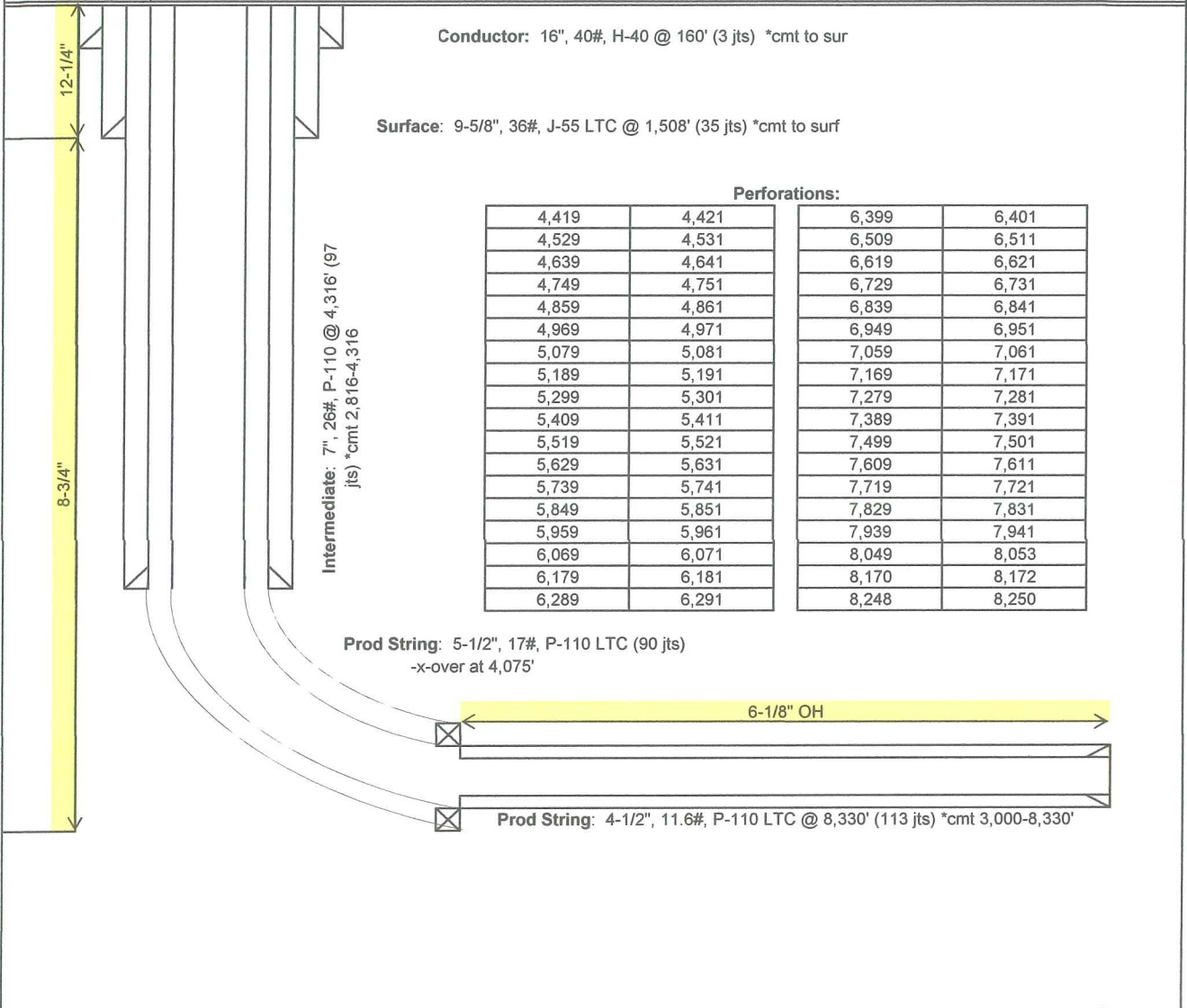
Unit Petroleum Company

Date of Last Revision:
10-Jul-14

Well: Haw Ranch 29 #2H
Location: 29-25S-10W
County, State: Reno County, KS
Surface Location: 175' FSL and 2260' FEL

API No.: 1515521687
Rig: Unit Drilling #331
Engineer: Tom Carrington (918) 477-4535
Geology: Rob Wilson (918) 477-5728

OH Size



Perforations:

4,419	4,421	6,399	6,401
4,529	4,531	6,509	6,511
4,639	4,641	6,619	6,621
4,749	4,751	6,729	6,731
4,859	4,861	6,839	6,841
4,969	4,971	6,949	6,951
5,079	5,081	7,059	7,061
5,189	5,191	7,169	7,171
5,299	5,301	7,279	7,281
5,409	5,411	7,389	7,391
5,519	5,521	7,499	7,501
5,629	5,631	7,609	7,611
5,739	5,741	7,719	7,721
5,849	5,851	7,829	7,831
5,959	5,961	7,939	7,941
6,069	6,071	8,049	8,053
6,179	6,181	8,170	8,172
6,289	6,291	8,248	8,250



MWD SURVEY REPORT

MWD Services, LLC

Report Date : March 31, 2014
 Job Number : 14037
 Operator : Unit Petroleum
 Lease / Well : Haw Ranch 29 #2H
 Location : Reno County, KS
 Field : Haw Ranch
 Contractor / Rig : Unit Drilling #331
 Directional Company : InWell
 MWD Field Rep. : John A. Huval/ Steve McCall
 Tie In Survey Reference : Assume Veritcal
 Calculation Method : MINIMUM CURVATURE

Target +N / -S = 4785.3'
 Target +E / -W = 100.0'
 Target TVD = 3970.0'
 Magnetic Declination +E / -W = 4.65°
 Grid Convergence +E / -W = 0.04°
 Total Correction +E / -W = 4.61°
 North Reference = Grid
 RKB Height = 14.00'
 Ground Level Elevation = 1766'
 Vertical Section Azimuth = 0.00°

Comments :

SURVEY #0 = Assume Vertical
 SURVEY # 132 = STRAIGHT LINE PROJECTED SURVEY TO BIT DEPTH

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
0	0.00'	0.00°	0.00°		0.00'	0.00'	0.00'	0.00'			
1	218.00'	1.30°	143.10°	218'	217.98'	-1.98'	-1.98'	1.48'	2.47'	143.10°	0.60°
2	310.00'	1.20°	142.70°	92'	309.96'	-3.58'	-3.58'	2.70'	4.48'	143.01°	0.11°
3	403.00'	1.00°	140.10°	93'	402.94'	-4.98'	-4.98'	3.81'	6.26'	142.59°	0.22°
4	496.00'	0.80°	126.40°	93'	495.93'	-5.98'	-5.98'	4.85'	7.70'	140.98°	0.31°
5	588.00'	0.70°	153.70°	92'	587.92'	-6.87'	-6.87'	5.62'	8.87'	140.73°	0.40°
6	681.00'	0.70°	161.00°	93'	680.92'	-7.91'	-7.91'	6.05'	9.96'	142.60°	0.10°
7	774.00'	0.50°	153.20°	93'	773.91'	-8.81'	-8.81'	6.42'	10.90'	143.93°	0.23°
8	868.00'	0.40°	133.70°	94'	867.91'	-9.41'	-9.41'	6.84'	11.63'	143.97°	0.19°
9	961.00'	0.40°	130.90°	93'	960.91'	-9.84'	-9.84'	7.32'	12.27'	143.36°	0.02°
10	1053.00'	0.40°	138.20°	92'	1052.90'	-10.29'	-10.29'	7.78'	12.90'	142.92°	0.06°
11	1146.00'	0.40°	153.10°	93'	1145.90'	-10.83'	-10.83'	8.14'	13.55'	143.05°	0.11°
12	1238.00'	0.50°	158.50°	92'	1237.90'	-11.48'	-11.48'	8.43'	14.25'	143.71°	0.12°
13	1331.00'	0.80°	157.60°	93'	1330.89'	-12.46'	-12.46'	8.83'	15.27'	144.68°	0.32°
14	1423.00'	0.80°	142.10°	92'	1422.88'	-13.56'	-13.56'	9.47'	16.54'	145.08°	0.23°
15	1552.00'	0.50°	84.20°	129'	1551.88'	-14.22'	-14.22'	10.58'	17.72'	143.34°	0.53°
16	1646.00'	0.60°	79.10°	94'	1645.87'	-14.08'	-14.08'	11.47'	18.17'	140.83°	0.12°
17	1740.00'	0.60°	94.40°	94'	1739.87'	-14.03'	-14.03'	12.45'	18.75'	138.41°	0.17°
18	1836.00'	1.10°	117.30°	96'	1835.86'	-14.49'	-14.49'	13.77'	19.99'	136.46°	0.62°
19	1931.00'	2.30°	120.70°	95'	1930.81'	-15.88'	-15.88'	16.22'	22.70'	134.40°	1.27°
20	2026.00'	3.40°	126.40°	95'	2025.69'	-18.53'	-18.53'	20.12'	27.35'	132.63°	1.19°
21	2122.00'	4.40°	129.70°	96'	2121.47'	-22.57'	-22.57'	25.25'	33.86'	131.79°	1.07°
22	2216.00'	5.50°	126.90°	94'	2215.12'	-27.57'	-27.57'	31.63'	41.96'	131.09°	1.20°
23	2312.00'	5.20°	127.90°	96'	2310.70'	-33.01'	-33.01'	38.74'	50.89'	130.44°	0.33°
24	2406.00'	5.70°	125.10°	94'	2404.28'	-38.31'	-38.31'	45.92'	59.80'	129.84°	0.60°
25	2502.00'	6.50°	125.10°	96'	2499.73'	-44.18'	-44.18'	54.26'	69.97'	129.15°	0.83°
26	2597.00'	6.00°	124.80°	95'	2594.17'	-50.10'	-50.10'	62.74'	80.29'	128.61°	0.53°
27	2690.00'	5.70°	126.00°	93'	2686.68'	-55.59'	-55.59'	70.47'	89.76'	128.27°	0.35°
28	2785.00'	5.40°	125.00°	95'	2781.24'	-60.93'	-60.93'	77.95'	98.93'	128.01°	0.33°
29	2881.00'	5.10°	126.50°	96'	2876.83'	-66.06'	-66.06'	85.08'	107.71'	127.83°	0.34°
30	2976.00'	5.00°	125.10°	95'	2971.46'	-70.95'	-70.95'	91.86'	116.07'	127.68°	0.17°
31	3070.00'	5.10°	125.70°	94'	3065.10'	-75.74'	-75.74'	98.60'	124.34'	127.53°	0.12°
32	3165.00'	4.00°	123.60°	95'	3159.80'	-80.04'	-80.04'	104.79'	131.86'	127.37°	1.17°
33	3256.00'	3.00°	125.20°	91'	3250.63'	-83.17'	-83.17'	109.38'	137.41'	127.25°	1.10°
34	3290.00'	3.00°	116.10°	34'	3284.58'	-84.07'	-84.07'	110.91'	139.17'	127.16°	1.40°
35	3322.00'	3.00°	80.00°	32'	3316.54'	-84.30'	-84.30'	112.48'	140.57'	126.85°	5.81°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
36	3354.00'	4.00°	48.30°	32'	3348.48'	-83.41'	-83.41'	114.14'	141.37'	126.16°	6.69°
37	3385.00'	6.10°	42.00°	31'	3379.36'	-81.46'	-81.46'	116.05'	141.79'	125.07°	7.00°
38	3417.00'	8.10°	30.60°	32'	3411.12'	-78.26'	-78.26'	118.34'	141.87'	123.48°	7.62°
39	3449.00'	9.80°	18.90°	32'	3442.73'	-73.74'	-73.74'	120.37'	141.16'	121.49°	7.76°
40	3480.00'	11.60°	9.70°	31'	3473.19'	-68.17'	-68.17'	121.75'	139.54'	119.25°	7.99°
41	3512.00'	14.20°	5.80°	32'	3504.38'	-61.10'	-61.10'	122.69'	137.06'	116.47°	8.56°
42	3544.00'	17.20°	3.50°	32'	3535.18'	-52.47'	-52.47'	123.37'	134.07'	113.04°	9.57°
43	3575.00'	20.00°	0.90°	31'	3564.56'	-42.59'	-42.59'	123.74'	130.86'	108.99°	9.42°
44	3607.00'	23.30°	359.00°	32'	3594.30'	-30.79'	-30.79'	123.71'	127.48'	103.97°	10.54°
45	3638.00'	26.90°	358.60°	31'	3622.37'	-17.64'	-17.64'	123.43'	124.69'	98.13°	11.63°
46	3670.00'	30.70°	358.50°	32'	3650.41'	-2.23'	-2.23'	123.04'	123.06'	91.04°	11.88°
47	3702.00'	34.10°	358.50°	32'	3677.42'	14.91'	14.91'	122.59'	123.50'	83.07°	10.63°
48	3732.00'	37.50°	358.60°	30'	3701.75'	32.45'	32.45'	122.15'	126.39'	75.12°	11.34°
49	3764.00'	41.50°	358.50°	32'	3726.44'	52.79'	52.79'	121.63'	132.60'	66.54°	12.50°
50	3795.00'	45.80°	358.60°	31'	3748.86'	74.18'	74.18'	121.09'	142.01'	58.51°	13.87°
51	3827.00'	49.60°	359.10°	32'	3770.39'	97.83'	97.83'	120.62'	155.31'	50.95°	11.93°
52	3859.00'	53.90°	359.00°	32'	3790.20'	122.96'	122.96'	120.20'	171.95'	44.35°	13.44°
53	3891.00'	55.70°	359.30°	32'	3808.64'	149.10'	149.10'	119.82'	191.28'	38.79°	5.68°
54	3922.00'	55.90°	359.30°	31'	3826.07'	174.74'	174.74'	119.50'	211.69'	34.37°	0.65°
55	3954.00'	56.20°	359.10°	32'	3843.94'	201.28'	201.28'	119.13'	233.89'	30.62°	1.07°
56	3986.00'	56.40°	358.90°	32'	3861.70'	227.90'	227.90'	118.67'	256.94'	27.51°	0.81°
57	4017.00'	57.10°	358.70°	31'	3878.69'	253.82'	253.82'	118.13'	279.96'	24.96°	2.32°
58	4049.00'	60.30°	358.80°	32'	3895.31'	281.15'	281.15'	117.53'	304.73'	22.69°	10.00°
59	4081.00'	64.30°	359.10°	32'	3910.19'	309.47'	309.47'	117.01'	330.85'	20.71°	12.53°
60	4113.00'	68.30°	359.50°	32'	3923.05'	338.76'	338.76'	116.66'	358.29'	19.00°	12.55°
61	4144.00'	72.40°	359.80°	31'	3933.47'	367.95'	367.95'	116.48'	385.95'	17.57°	13.26°
62	4176.00'	76.40°	0.20°	32'	3942.07'	398.77'	398.77'	116.48'	415.43'	16.28°	12.56°
63	4207.00'	79.90°	0.90°	31'	3948.44'	429.10'	429.10'	116.77'	444.71'	15.22°	11.50°
64	4238.00'	83.80°	1.20°	31'	3952.83'	459.78'	459.78'	117.33'	474.51'	14.32°	12.62°
65	4269.00'	85.10°	1.30°	31'	3955.83'	490.62'	490.62'	118.01'	504.62'	13.52°	4.21°
66	4349.00'	88.40°	0.90°	80'	3960.36'	570.47'	570.47'	119.54'	582.86'	11.83°	4.16°
67	4412.00'	89.40°	0.80°	63'	3961.57'	633.45'	633.45'	120.47'	644.80'	10.77°	1.60°
68	4473.00'	90.20°	0.60°	61'	3961.79'	694.44'	694.44'	121.22'	704.94'	9.90°	1.35°
69	4535.00'	90.60°	0.00°	62'	3961.35'	756.44'	756.44'	121.54'	766.14'	9.13°	1.16°
70	4598.00'	91.20°	359.60°	63'	3960.36'	819.43'	819.43'	121.32'	828.37'	8.42°	1.14°
71	4660.00'	90.00°	359.90°	62'	3959.71'	881.43'	881.43'	121.05'	889.70'	7.82°	2.00°
72	4722.00'	90.00°	0.40°	62'	3959.71'	943.43'	943.43'	121.22'	951.18'	7.32°	0.81°
73	4783.00'	90.40°	0.60°	61'	3959.50'	1004.42'	1004.42'	121.75'	1011.78'	6.91°	0.73°
74	4845.00'	90.40°	1.00°	62'	3959.07'	1066.42'	1066.42'	122.61'	1073.44'	6.56°	0.65°
75	4907.00'	90.00°	0.90°	62'	3958.85'	1128.41'	1128.41'	123.64'	1135.16'	6.25°	0.67°
76	4968.00'	88.00°	0.80°	61'	3959.92'	1189.39'	1189.39'	124.55'	1195.89'	5.98°	3.28°
77	5030.00'	88.50°	0.90°	62'	3961.81'	1251.35'	1251.35'	125.47'	1257.63'	5.73°	0.82°
78	5091.00'	89.10°	0.20°	61'	3963.09'	1312.34'	1312.34'	126.05'	1318.38'	5.49°	1.51°
79	5153.00'	89.00°	359.70°	62'	3964.12'	1374.33'	1374.33'	126.00'	1380.09'	5.24°	0.82°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
80	5214.00'	89.10°	359.00°	61'	3965.13'	1435.31'	1435.31'	125.31'	1440.77'	4.99°	1.16°
81	5276.00'	89.40°	358.50°	62'	3965.94'	1497.29'	1497.29'	123.95'	1502.42'	4.73°	0.94°
82	5337.00'	89.40°	357.80°	61'	3966.58'	1558.26'	1558.26'	121.98'	1563.03'	4.48°	1.15°
83	5399.00'	89.70°	357.20°	62'	3967.06'	1620.20'	1620.20'	119.28'	1624.58'	4.21°	1.08°
84	5460.00'	89.50°	356.50°	61'	3967.49'	1681.10'	1681.10'	115.93'	1685.10'	3.94°	1.19°
85	5521.00'	89.10°	356.30°	61'	3968.24'	1741.98'	1741.98'	112.10'	1745.58'	3.68°	0.73°
86	5583.00'	88.50°	355.90°	62'	3969.53'	1803.82'	1803.82'	107.88'	1807.04'	3.42°	1.16°
87	5644.00'	88.80°	356.50°	61'	3970.97'	1864.67'	1864.67'	103.84'	1867.56'	3.19°	1.10°
88	5706.00'	90.10°	356.40°	62'	3971.57'	1926.55'	1926.55'	100.00'	1929.14'	2.97°	2.10°
89	5767.00'	90.60°	355.90°	61'	3971.19'	1987.41'	1987.41'	95.91'	1989.72'	2.76°	1.16°
90	5829.00'	90.70°	355.40°	62'	3970.49'	2049.22'	2049.22'	91.20'	2051.25'	2.55°	0.82°
91	5891.00'	90.50°	354.90°	62'	3969.84'	2111.00'	2111.00'	85.96'	2112.75'	2.33°	0.87°
92	5952.00'	90.20°	354.60°	61'	3969.47'	2171.74'	2171.74'	80.38'	2173.23'	2.12°	0.70°
93	6014.00'	90.90°	354.90°	62'	3968.87'	2233.48'	2233.48'	74.71'	2234.73'	1.92°	1.23°
94	6075.00'	91.10°	354.50°	61'	3967.81'	2294.21'	2294.21'	69.07'	2295.25'	1.72°	0.73°
95	6136.00'	90.10°	354.20°	61'	3967.17'	2354.91'	2354.91'	63.07'	2355.75'	1.53°	1.71°
96	6198.00'	90.10°	354.40°	62'	3967.06'	2416.60'	2416.60'	56.91'	2417.27'	1.35°	0.32°
97	6260.00'	89.90°	354.10°	62'	3967.06'	2478.29'	2478.29'	50.70'	2478.81'	1.17°	0.58°
98	6322.00'	89.50°	353.60°	62'	3967.39'	2539.93'	2539.93'	44.06'	2540.31'	0.99°	1.03°
99	6384.00'	89.40°	353.30°	62'	3967.98'	2601.52'	2601.52'	36.99'	2601.79'	0.81°	0.51°
100	6445.00'	89.70°	353.20°	61'	3968.46'	2662.10'	2662.10'	29.82'	2662.26'	0.64°	0.52°
101	6507.00'	89.80°	353.40°	62'	3968.73'	2723.67'	2723.67'	22.58'	2723.77'	0.48°	0.36°
102	6569.00'	89.50°	353.50°	62'	3969.11'	2785.27'	2785.27'	15.51'	2785.31'	0.32°	0.51°
103	6630.00'	89.80°	353.10°	61'	3969.48'	2845.85'	2845.85'	8.39'	2845.86'	0.17°	0.82°
104	6692.00'	89.10°	354.10°	62'	3970.08'	2907.46'	2907.46'	1.48'	2907.46'	0.03°	1.97°
105	6754.00'	88.70°	353.80°	62'	3971.27'	2969.10'	2969.10'	-5.05'	2969.11'	359.90°	0.81°
106	6816.00'	88.10°	354.10°	62'	3973.00'	3030.73'	3030.73'	-11.58'	3030.75'	359.78°	1.08°
107	6878.00'	87.90°	353.70°	62'	3975.16'	3092.34'	3092.34'	-18.17'	3092.40'	359.66°	0.72°
108	6940.00'	88.90°	356.40°	62'	3976.89'	3154.08'	3154.08'	-23.51'	3154.17'	359.57°	4.64°
109	7001.00'	89.80°	358.40°	61'	3977.59'	3215.01'	3215.01'	-26.28'	3215.12'	359.53°	3.60°
110	7063.00'	89.30°	1.70°	62'	3978.07'	3277.00'	3277.00'	-26.23'	3277.11'	359.54°	5.38°
111	7125.00'	89.00°	2.20°	62'	3978.99'	3338.96'	3338.96'	-24.12'	3339.05'	359.59°	0.94°
112	7186.00'	89.50°	2.10°	61'	3979.79'	3399.91'	3399.91'	-21.83'	3399.98'	359.63°	0.84°
113	7247.00'	89.50°	2.30°	61'	3980.32'	3460.86'	3460.86'	-19.49'	3460.92'	359.68°	0.33°
114	7308.00'	91.00°	3.20°	61'	3980.06'	3521.79'	3521.79'	-16.56'	3521.83'	359.73°	2.87°
115	7370.00'	91.70°	3.00°	62'	3978.60'	3583.68'	3583.68'	-13.21'	3583.71'	359.79°	1.17°
116	7432.00'	92.30°	2.60°	62'	3976.43'	3645.57'	3645.57'	-10.18'	3645.58'	359.84°	1.16°
117	7493.00'	92.80°	2.30°	61'	3973.72'	3706.45'	3706.45'	-7.58'	3706.46'	359.88°	0.96°
118	7555.00'	93.00°	2.00°	62'	3970.58'	3768.33'	3768.33'	-5.25'	3768.33'	359.92°	0.58°
119	7617.00'	91.70°	1.70°	62'	3968.04'	3830.24'	3830.24'	-3.25'	3830.24'	359.95°	2.15°
120	7678.00'	91.70°	1.50°	61'	3966.23'	3891.19'	3891.19'	-1.55'	3891.19'	359.98°	0.33°
121	7740.00'	91.70°	3.00°	62'	3964.39'	3953.12'	3953.12'	0.88'	3953.12'	0.01°	2.42°
122	7802.00'	90.50°	3.50°	62'	3963.20'	4015.00'	4015.00'	4.40'	4015.01'	0.06°	2.10°
123	7863.00'	90.80°	3.30°	61'	3962.51'	4075.89'	4075.89'	8.01'	4075.90'	0.11°	0.59°
124	7925.00'	91.40°	3.40°	62'	3961.32'	4137.77'	4137.77'	11.64'	4137.79'	0.16°	0.98°
125	7987.00'	90.00°	4.70°	62'	3960.56'	4199.61'	4199.61'	16.01'	4199.64'	0.22°	3.08°
126	8049.00'	91.30°	4.90°	62'	3959.86'	4261.39'	4261.39'	21.20'	4261.44'	0.29°	2.12°
127	8111.00'	92.10°	4.60°	62'	3958.02'	4323.15'	4323.15'	26.33'	4323.23'	0.35°	1.38°
128	8172.00'	92.80°	3.90°	61'	3955.41'	4383.92'	4383.92'	30.85'	4384.03'	0.40°	1.62°
129	8234.00'	93.00°	4.30°	62'	3952.27'	4445.69'	4445.69'	35.28'	4445.83'	0.45°	0.72°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100 ')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
130	8296.00'	93.60°	3.90°	62'	3948.71'	4507.42'	4507.42'	39.70'	4507.60'	0.50°	1.16°
131	8327.00'	93.10°	3.80°	31'	3946.89'	4538.30'	4538.30'	41.78'	4538.49'	0.53°	1.64°
132	8370.00'	93.10°	3.80°	43'	3944.57'	4581.14'	4581.14'	44.63'	4581.36'	0.56°	0.00°

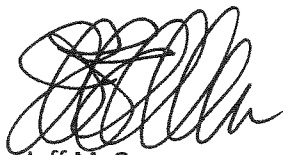
Mid-Continent Conductor, LLC

P.O. Box 1570, Woodward, OK 73802
Ph. 580-254-5400 Fax 580-254-3242

CEMENTING REPORT

Operator: Unit Corporation
Well Name: Haw Ranch 2-29H
Legal Description: Reno Cnty, KS

Cement Casing Data	
Cementing Date	3/17/14
Size of Drill Bit (Inches)	28
Size of Casing (Inches O.D.)	16
Setting Depth of Casing (ft.) from ground level	160
Type of Cement	Common Cement
Sacks of Cement Used	144
Was cement circulated?	Yes
Job witnessed by: Ronnie Jackson	



Jeff M. Owen

Mid-Continent Conductor, LLC



TREATMENT REPORT

UNIT *Pat*
 HAWK RANCH
 Station *PRATT KS*
 Lease No. _____ Date *03-19-14*
 Well # *29-2 H* Reno. Co. *29-25-10* State *KS*
 Casing *9 5/8* Depth *1512'* County *29-25-10* State *KS*
 Formation _____ Legal Description *29-25-10*
 Job *CNW 9 5/8 Surface*

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>1512</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>176.5</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>6000</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>15.0</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>1512</i>	Packer Depth	From	To					

Customer Representative _____ Station Manager *DAVE SCOTT* Treater *Robert Johnson*

Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19831</i>	<i>19862</i>	<i>19826</i>	<i>19860</i>				
Driver Names	<i>Sullivan</i>	<i>G. Ruves</i>	<i>HANSON</i>								

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2:45</i>					<i>on loc safety meeting</i>
<i>10:30</i>			<i>5</i>	<i>5.5</i>	<i>CSG ON BOTTOM - Rly circuitry CSF ST SPACER</i>
			<i>140</i>		<i>Mix amt 325 sk A-con 3% cc 1/4 of</i>
	<i>250</i>		<i>60</i>		<i>yield 2.47 gal/sk 14.49 12 ppg mix Tail amt 280 sk comm 2% cc 1/4 of</i>
					<i>1.20 yield 5.23 gal/sk 15.6 ppg amt mixed start down</i>
				<i>4</i>	<i>Release Plug</i>
<i>1:50</i>	<i>8.50</i>		<i>116</i>		<i>ST Drop plug down</i>
					<i>circulated 65 BBL amt pit</i>
					<i>303 complete</i>
					<i>Thank you</i>

Customer: UNIT Ref	Lease No.	Date: 03-24-14
Address: WADW RANCH 29-24	Well #	
Field Order #: 10359	Station: PRATT KS	County: Revo State: KS
Type Job: GNW 2"	Casing: 7"	Depth
	Formation	Legal Description: 29-25-10

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: 4319'	Depth	From	To	Pad	Min		10 Min.	
Volume: 165	Volume	From	To	Frac	Avg		15 Min.	
Max Press: 1500	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection: PC	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth: 4319'	Packer Depth	From	To					

Customer Representative: _____ Station Manager: **DAVE SCOTT** Treater: **Robert Johnson**

Service Units	37900	33708	20920	70959	19918				
Driver Names	Sullivan	DAVIS		Phyc					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30					on loc safety meety
					run 7" csg.
6:00					casidg on Bottom
6:10					big circ. csg.
7:30	300		5	3.5	At spacer
			12		st mud flush
				4.5	mix cmt 160 sk AA-2 cmt
					yield 1.43. 6.01 ^{9AC} / sk @ 15 PPG.
			40		cmt mixed shut down
					Release Plug
				6.5	st Diap
	250				lift PSI
	800			4	slow Rate
8:30	1350		165		Plug down

SOB Complete
THANK YOU



services, L.P.

TREATMENT REPORT

Lease No. _____ Date _____
 Well # 29-24 04-02-14
 Station PRATT KS Casing _____ Depth 8335' County Ren State KS
 Formation _____ Legal Description 29-25-10
1400 RANCH
369
GNW 4 1/2 Liner

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Depth	Shots/Ft		Acid	RATE	PRESS	ISIP	
<u>5 7/8</u>	<u>4069'</u>	From	To	Pre Pad	Max		5 Min.	
<u>6.6</u>	<u>47.4</u>	From	To	Pad	Min		10 Min.	
<u>8335'</u>		From	To	Frac	Avg		15 Min.	
		From	To		HHP Used		Annulus Pressure	
<u>160</u>		From	To	Flush	Gas Volume		Total Load	

Customer Representative _____ Station Manager DAVE Scott Treater Robert Sullivan

Service Units	<u>37900</u>	<u>33708</u>	<u>20920</u>	<u>20959</u>	<u>19918</u>				
Owner	<u>Sullivan</u>	<u>GRAVES</u>	<u>Phyc</u>	<u>Franklin</u>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>2:45</u>					<u>on bc saty meet</u>
					<u>RUN 4 1/2 LINER</u>
<u>3:10</u>					<u>CASING ON BOTTOM</u>
<u>3:20</u>					<u>Rig case csp.</u>
<u>3:55</u>	<u>450</u>		<u>5</u>	<u>3</u>	<u>1st SPACER</u>
			<u>12</u>		<u>1st mud fluid</u>
			<u>5</u>		<u>SPACER</u>
	<u>550</u>			<u>5</u>	<u>mix cmt 500 sk Premium cmt 1.22 yield</u>
			<u>86</u>		<u>gr/sk 3.43. mix 15.6 ppg</u>
					<u>cmt mixed</u>
					<u>pump 1 BBL super H₂O</u>
					<u>shot down DROP Plug</u>
				<u>6</u>	<u>1st Drop w/ super WATER first 50 BBL and the</u>
	<u>600</u>				<u>60+ Psi</u>
	<u>1250</u>			<u>4</u>	<u>slow rate</u>
<u>3:00</u>	<u>2500</u>		<u>160</u>		<u>plug down</u>
					<u>JOB Complete</u>
					<u>Thank you</u>