



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1221016
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: _____

1221016

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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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MWD SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: August 16, 2014
Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

Measured Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			Mtr Yield	Temp (°F)	Vib/Shk Color	Date	Time	Flow Rate	
					+N / -S	+E / -W	Dist.	Angle	DLS							
Survey's are tied into: MWD													Date Received:			
Company: Pro Directional																
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
1	892.00	0.50	309.30	891.99	-2.43	2.47	-3.01	3.89	309.30	0.06	0.00	104 °F	Green	08/16/14	16:46	401 (gpm)
2	1,081.00	0.60	322.70	1,080.98	-3.72	3.77	-4.25	5.68	311.61	0.09	0.00	109 °F	Green	08/16/14	18:12	634 (gpm)
3	1,270.00	0.80	324.40	1,269.97	-5.56	5.63	-5.62	7.96	315.09	0.11	0.00	115 °F	Green	08/16/14	19:44	634 (gpm)
4	1,460.00	0.70	321.60	1,459.95	-7.53	7.62	-7.11	10.42	316.99	0.06	0.00	118 °F	Green	08/16/14	21:02	647 (gpm)
5	1,649.00	0.50	359.00	1,648.94	-9.25	9.35	-7.84	12.20	320.02	0.23	0.00	124 °F	Green	08/16/14	23:11	640 (gpm)
6	1,835.00	0.50	24.90	1,834.93	-10.80	10.90	-7.51	13.24	325.42	0.12	0.00	115 °F	Green	08/17/14	1:00	670 (gpm)
7	2,025.00	0.40	16.00	2,024.93	-12.20	12.29	-6.98	14.13	330.40	0.06	0.00	126 °F	Green	08/17/14	2:56	655 (gpm)
8	2,214.00	0.40	18.60	2,213.92	-13.46	13.55	-6.59	15.07	334.06	0.01	0.00	126 °F	Green	08/17/14	4:43	635 (gpm)
9	2,402.00	0.70	28.00	2,401.91	-15.11	15.18	-5.84	16.27	338.96	0.17	0.00	127 °F	Green	08/17/14	6:23	635 (gpm)
10	2,588.00	0.50	35.60	2,587.90	-16.78	16.85	-4.84	17.53	343.98	0.12	0.00	129 °F	Green	08/17/14	7:52	563 (gpm)
11	2,778.00	0.60	53.80	2,777.89	-18.06	18.11	-3.55	18.45	348.91	0.11	0.00	131 °F	Green	08/17/14	9:16	634 (gpm)
12	2,964.00	0.50	44.10	2,963.89	-19.24	19.27	-2.20	19.39	353.49	0.07	0.00	108 °F	Green	08/17/14	13:19	598 (gpm)
13	3,152.00	0.60	49.10	3,151.88	-20.49	20.50	-0.89	20.52	357.53	0.06	0.00	118 °F	Green	08/17/14	15:14	598 (gpm)
14	3,340.00	0.40	62.00	3,339.87	-21.46	21.45	0.44	21.46	1.17	0.12	0.00	124 °F	Green	08/17/14	16:35	598 (gpm)
15	3,433.00	0.40	49.20	3,432.87	-21.83	21.82	0.97	21.84	2.55	0.10	0.00	126 °F	Green	08/17/14	17:14	598 (gpm)
16	3,527.00	0.60	45.10	3,526.86	-22.40	22.38	1.57	22.43	4.01	0.22	0.00	127 °F	Green	08/17/17	17:55	598 (gpm)
17	3,620.00	0.40	49.50	3,619.86	-22.96	22.93	2.16	23.04	5.38	0.22	0.00	129 °F	Green	08/17/17	18:48	637 (gpm)
18	3,715.00	0.30	36.30	3,714.86	-23.38	23.35	2.56	23.49	6.25	0.13	0.00	131 °F	Green	08/17/17	19:27	600 (gpm)
19	3,808.00	0.00	304.40	3,807.86	-23.58	23.55	2.70	23.70	6.55	0.32	0.00	133 °F	Green	08/17/17	20:20	660 (gpm)
20	3,901.00	0.90	189.60	3,900.85	-22.86	22.83	2.58	22.97	6.45	0.97	10.00	127 °F	Green	08/17/17	22:09	355 (gpm)
21	3,932.00	3.00	175.70	3,931.84	-21.81	21.78	2.60	21.93	6.81	6.89	10.60	126 °F	Green	08/17/17	23:34	355 (gpm)
22	3,964.00	6.00	177.40	3,963.73	-19.30	19.27	2.74	19.46	8.09	9.38	10.00	122 °F	Green	08/18/14	1:34	355 (gpm)
23	3,995.00	8.80	181.90	3,994.47	-15.31	15.28	2.74	15.52	10.15	9.22	9.70	122 °F	Green	08/18/14	3:13	355 (gpm)
24	4,026.00	11.90	183.50	4,024.96	-9.75	9.72	2.46	10.03	14.21	10.04	9.70	122 °F	Green	08/18/14	5:34	355 (gpm)
25	4,058.00	14.60	182.70	4,056.11	-2.42	2.40	2.07	3.17	40.81	8.46	9.00	122 °F	Green	08/18/14	6:49	355 (gpm)
26	4,090.00	16.50	182.10	4,086.94	6.15	-6.17	1.71	6.41	164.49	5.96	8.00	122 °F	Green	08/18/14	7:48	228 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: August 16, 2014
Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

	Measured			Coordinates				Closure			Vib/Shk			Date	Time	Flow Rate
	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Mtr Yield	Temp (°F)	Color			
27	4,121.00	18.20	181.00	4,116.53	15.39	-15.41	1.47	15.48	174.56	5.58	8.30	120 °F	Green	08/18/14	8:57	334 (gpm)
28	4,152.00	20.20	180.40	4,145.80	25.59	-25.61	1.35	25.64	176.99	6.48	9.00	120 °F	Green	08/18/14	9:43	369 (gpm)
29	4,183.00	22.30	180.00	4,174.69	36.82	-36.84	1.31	36.87	177.97	6.79	8.40	120 °F	Green	08/18/14	10:32	369 (gpm)
30	4,215.00	24.50	180.60	4,204.06	49.53	-49.55	1.24	49.57	178.57	6.92	8.50	120 °F	Green	08/18/14	11:32	369 (gpm)
31	4,246.00	26.90	181.30	4,231.99	62.97	-62.99	1.01	63.00	179.08	7.80	9.00	120 °F	Green	08/18/14	12:45	369 (gpm)
32	4,276.00	29.50	180.90	4,258.42	77.15	-77.16	0.74	77.17	179.45	8.69	11.30	120 °F	Green	08/18/14	14:09	369 (gpm)
33	4,308.00	32.40	180.80	4,285.87	93.60	-93.62	0.50	93.62	179.69	9.06	12.60	122 °F	Green	08/18/14	15:36	369 (gpm)
34	4,339.00	35.20	180.50	4,311.62	110.85	-110.86	0.30	110.86	179.84	9.05	12.60	122 °F	Green	08/18/14	17:19	465 (gpm)
35	4,371.00	37.30	180.40	4,337.43	129.77	-129.78	0.16	129.78	179.93	6.57	12.00	124 °F	Green	08/18/14	18:28	445 (gpm)
36	4,402.00	38.90	180.20	4,361.82	148.89	-148.91	0.06	148.91	179.98	5.18	12.00	122 °F	Green	08/18/14	19:40	460 (gpm)
37	4,433.00	40.30	180.00	4,385.71	168.65	-168.67	0.02	168.67	179.99	4.53	15.00	124 °F	Green	08/18/14	21:42	460 (gpm)
38	4,465.00	42.00	179.80	4,409.80	189.71	-189.72	0.06	189.72	179.98	5.33	15.00	124 °F	Green	08/18/14	23:34	465 (gpm)
39	4,496.00	44.10	179.50	4,432.45	210.86	-210.88	0.19	210.88	179.95	6.81	15.00	124 °F	Green	08/19/14	0:45	465 (gpm)
40	4,527.00	46.00	179.40	4,454.35	232.80	-232.82	0.40	232.82	179.90	6.13	15.00	126 °F	Green	08/19/14	1:52	455 (gpm)
41	4,558.00	47.80	179.30	4,475.54	255.42	-255.45	0.66	255.45	179.85	5.81	15.00	127 °F	Green	08/19/14	3:00	455 (gpm)
42	4,589.00	49.80	179.20	4,495.95	278.74	-278.77	0.96	278.78	179.80	6.46	15.00	127 °F	Green	08/19/14	4:23	460 (gpm)
43	4,621.00	52.00	179.40	4,516.13	303.56	-303.60	1.27	303.61	179.76	6.89	15.00	129 °F	Green	08/19/14	5:48	445 (gpm)
44	4,653.00	54.20	179.60	4,535.35	329.15	-329.19	1.49	329.20	179.74	6.89	15.00	129 °F	Green	08/19/14	7:05	445 (gpm)
45	4,684.00	56.30	180.10	4,553.02	354.61	-354.66	1.55	354.66	179.75	6.90	15.00	129 °F	Green	08/19/14	7:53	458 (gpm)
46	4,716.00	58.70	180.60	4,570.21	381.60	-381.65	1.39	381.65	179.79	7.61	15.00	129 °F	Green	08/19/14	8:47	458 (gpm)
47	4,747.00	60.90	180.90	4,585.80	408.39	-408.44	1.04	408.44	179.85	7.15	15.00	129 °F	Green	08/19/14	9:59	458 (gpm)
48	4,778.00	62.90	181.50	4,600.40	435.73	-435.77	0.46	435.77	179.94	6.67	14.00	131 °F	Green	08/19/14	10:49	458 (gpm)
49	4,810.00	64.10	181.90	4,614.68	464.37	-464.40	-0.39	464.40	180.05	3.91	0.00	133 °F	Green	08/19/14	11:32	458 (gpm)
50	4,841.00	65.30	181.60	4,627.93	492.39	-492.41	-1.24	492.41	180.14	3.97	0.00	133 °F	Green	08/19/14	12:27	458 (gpm)
51	4,873.00	66.40	181.80	4,641.02	521.58	-521.60	-2.11	521.60	180.23	3.48	0.00	135 °F	Green	08/19/14	13:55	458 (gpm)
52	4,904.00	66.50	181.60	4,653.41	550.00	-550.00	-2.95	550.01	180.31	0.67	0.00	136 °F	Green	08/19/14	17:27	458 (gpm)
53	4,936.00	66.30	181.30	4,666.22	579.32	-579.32	-3.69	579.33	180.37	1.06	0.00	136 °F	Green	08/19/14	18:22	500 (gpm)
54	4,967.00	65.80	181.10	4,678.80	607.65	-607.64	-4.29	607.66	180.40	1.72	0.00	138 °F	Green	08/19/14	19:30	500 (gpm)
55	4,999.00	65.40	180.90	4,692.02	636.79	-636.78	-4.80	636.80	180.43	1.37	0.00	138 °F	Green	08/19/14	20:22	500 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

	Measured			Coordinates				Closure			Vib/Shk					
	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Mtr Yield	Temp (°F)	Color	Date	Time	Flow Rate
56	5,030.00	66.00	180.80	4,704.78	665.04	-665.03	-5.22	665.05	180.45	1.96	12.00	140 °F	Green	08/19/14	22:05	500 (gpm)
57	5,062.00	68.50	181.00	4,717.15	694.55	-694.53	-5.68	694.56	180.47	7.83	12.00	140 °F	Green	08/20/14	0:05	500 (gpm)
58	5,093.00	72.00	181.10	4,727.62	723.72	-723.70	-6.21	723.73	180.49	11.29	12.00	140 °F	Green	08/20/14	1:27	500 (gpm)
59	5,124.00	74.90	181.70	4,736.45	753.43	-753.40	-6.94	753.44	180.53	9.54	14.00	138 °F	Green	08/20/14	2:57	515 (gpm)
60	5,155.00	77.90	182.20	4,743.74	783.55	-783.51	-7.97	783.55	180.58	9.80	14.00	140 °F	Green	08/20/14	4:32	500 (gpm)
61	5,187.00	81.20	182.40	4,749.55	815.01	-814.95	-9.23	815.01	180.65	10.33	13.00	140 °F	Green	08/20/14	6:05	515 (gpm)
62	5,246.00	85.70	181.60	4,756.27	873.59	-873.52	-11.27	873.59	180.74	7.75	0.00	136 °F	Green	08/22/14	0:05	250 (gpm)
63	5,278.00	86.00	181.80	4,758.59	905.50	-905.42	-12.22	905.50	180.77	1.13	0.00	136 °F	Green	08/22/14	0:42	250 (gpm)
64	5,308.00	86.30	181.90	4,760.60	935.43	-935.34	-13.19	935.43	180.81	1.05	0.00	136 °F	Green	08/22/14	1:15	250 (gpm)
65	5,337.00	86.60	182.00	4,762.40	964.37	-964.26	-14.17	964.37	180.84	1.09	0.00	136 °F	Yellow	08/22/14	1:48	250 (gpm)
66	5,367.00	87.40	181.70	4,763.97	994.32	-994.21	-15.14	994.32	180.87	2.85	0.00	136 °F	Yellow	08/22/14	2:22	250 (gpm)
67	5,398.00	87.60	181.60	4,765.32	1,025.29	-1,025.16	-16.03	1,025.29	180.90	0.72	0.00	140 °F	Yellow	08/22/14	3:08	250 (gpm)
68	5,429.00	88.00	181.90	4,766.51	1,056.26	-1,056.13	-16.98	1,056.26	180.92	1.61	0.00	142 °F	Yellow	08/22/14	3:47	250 (gpm)
69	5,459.00	88.50	182.20	4,767.43	1,086.24	-1,086.09	-18.05	1,086.24	180.95	1.94	0.00	142 °F	Yellow	08/22/14	4:30	250 (gpm)
70	5,489.00	89.40	181.70	4,767.98	1,116.22	-1,116.07	-19.07	1,116.23	180.98	3.43	0.00	144 °F	Yellow	08/22/14	5:08	250 (gpm)
71	5,519.00	89.80	181.30	4,768.19	1,146.22	-1,146.06	-19.85	1,146.23	180.99	1.89	0.00	144 °F	Yellow	08/22/14	5:39	250 (gpm)
72	5,549.00	89.80	181.60	4,768.29	1,176.22	-1,176.05	-20.61	1,176.23	181.00	1.00	0.00	144 °F	Yellow	08/22/14	6:15	250 (gpm)
73	5,610.00	90.20	181.50	4,768.29	1,237.21	-1,237.03	-22.26	1,237.23	181.03	0.68	0.00	145 °F	Pink	08/22/14	7:00	250 (gpm)
74	5,640.00	89.80	181.30	4,768.29	1,267.21	-1,267.02	-23.00	1,267.23	181.04	1.49	0.00	145 °F	Yellow	08/22/14	7:26	250 (gpm)
75	5,701.00	89.40	181.00	4,768.72	1,328.21	-1,328.00	-24.22	1,328.23	181.04	0.82	0.00	147 °F	Yellow	08/22/14	8:10	250 (gpm)
76	5,734.00	89.50	181.00	4,769.03	1,361.20	-1,361.00	-24.80	1,361.22	181.04	0.30	0.00	147 °F	Yellow	08/22/14	8:36	250 (gpm)
77	5,794.00	89.50	180.90	4,769.56	1,421.20	-1,420.99	-25.79	1,421.22	181.04	0.17	0.00	147 °F	Yellow	08/22/14	9:16	250 (gpm)
78	5,825.00	89.60	181.20	4,769.80	1,452.20	-1,451.98	-26.36	1,452.22	181.04	1.02	0.00	147 °F	Yellow	08/22/14	9:42	250 (gpm)
79	5,885.00	90.10	180.90	4,769.96	1,512.20	-1,511.97	-27.46	1,512.22	181.04	0.97	0.00	149 °F	Yellow	08/22/14	10:18	250 (gpm)
80	5,915.00	90.20	180.90	4,769.88	1,542.20	-1,541.97	-27.93	1,542.22	181.04	0.33	0.00	149 °F	Yellow	08/22/14	10:43	250 (gpm)
81	5,974.00	89.50	180.50	4,770.04	1,601.20	-1,600.96	-28.65	1,601.22	181.03	1.37	0.00	149 °F	Yellow	08/22/14	11:27	250 (gpm)
82	6,004.00	89.80	180.80	4,770.22	1,631.20	-1,630.96	-28.99	1,631.22	181.02	1.41	0.00	149 °F	Yellow	08/22/14	11:51	250 (gpm)
83	6,064.00	90.60	180.80	4,770.01	1,691.20	-1,690.95	-29.83	1,691.22	181.01	1.33	0.00	149 °F	Yellow	08/22/14	12:21	250 (gpm)
84	6,095.00	90.90	181.10	4,769.60	1,722.19	-1,721.95	-30.34	1,722.21	181.01	1.37	0.00	149 °F	Pink	08/22/14	12:53	250 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: August 16, 2014
Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

	Measured			Coordinates				Closure			Vib/Shk					
	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Mtr Yield	Temp (°F)	Color	Date	Time	Flow Rate
85	6,125.00	90.70	181.10	4,769.18	1,752.19	-1,751.94	-30.92	1,752.21	181.01	0.67	0.00	149 °F	Pink	08/22/14	13:12	250 (gpm)
86	6,185.00	89.90	180.70	4,768.87	1,812.19	-1,811.93	-31.86	1,812.21	181.01	1.49	0.00	151 °F	Yellow	08/22/14	14:21	250 (gpm)
87	6,245.00	88.80	179.60	4,769.55	1,872.18	-1,871.92	-32.02	1,872.20	180.98	2.59	0.00	151 °F	Yellow	08/22/14	14:58	250 (gpm)
88	6,276.00	88.80	179.40	4,770.20	1,903.16	-1,902.91	-31.75	1,903.18	180.96	0.65	0.00	151 °F	Yellow	08/22/14	15:29	250 (gpm)
89	6,306.00	89.10	179.20	4,770.75	1,933.15	-1,932.91	-31.38	1,933.16	180.93	1.20	0.00	151 °F	Yellow	08/22/14	15:49	250 (gpm)
90	6,367.00	89.30	179.10	4,771.60	1,994.12	-1,993.89	-30.48	1,994.13	180.88	0.37	0.00	153 °F	Yellow	08/22/14	16:27	250 (gpm)
91	6,397.00	89.40	179.00	4,771.94	2,024.11	-2,023.89	-29.98	2,024.11	180.85	0.47	0.00	153 °F	Yellow	08/22/14	16:46	250 (gpm)
92	6,458.00	90.30	179.30	4,772.10	2,085.08	-2,084.88	-29.07	2,085.08	180.80	1.56	0.00	153 °F	Yellow	08/22/14	17:24	250 (gpm)
93	6,517.00	90.20	179.00	4,771.84	2,144.06	-2,143.87	-28.20	2,144.06	180.75	0.54	0.00	154 °F	Yellow	08/22/14	18:20	250 (gpm)
94	6,547.00	90.20	178.70	4,771.74	2,174.04	-2,173.87	-27.60	2,174.04	180.73	1.00	0.00	154 °F	Yellow	08/22/14	19:10	250 (gpm)
95	6,608.00	89.40	178.90	4,771.95	2,235.01	-2,234.85	-26.32	2,235.01	180.67	1.35	0.00	156 °F	Yellow	08/22/14	20:40	250 (gpm)
96	6,670.00	88.00	178.90	4,773.36	2,296.96	-2,296.82	-25.13	2,296.96	180.63	2.26	0.00	156 °F	Yellow	08/22/14	22:00	250 (gpm)
97	6,731.00	89.50	178.70	4,774.69	2,357.91	-2,357.79	-23.85	2,357.91	180.58	2.48	0.00	158 °F	Yellow	08/22/14	22:47	250 (gpm)
98	6,792.00	89.70	178.60	4,775.12	2,418.86	-2,418.78	-22.42	2,418.88	180.53	0.37	0.00	158 °F	Yellow	08/22/14	23:53	250 (gpm)
99	6,854.00	89.10	178.30	4,775.76	2,480.81	-2,480.75	-20.74	2,480.84	180.48	1.08	0.00	160 °F	Yellow	08/23/14	1:25	250 (gpm)
100	6,915.00	89.40	177.80	4,776.56	2,541.74	-2,541.71	-18.66	2,541.78	180.42	0.96	0.00	158 °F	Yellow	08/23/14	3:45	250 (gpm)
101	6,976.00	89.60	178.10	4,777.10	2,602.67	-2,602.67	-16.48	2,602.72	180.36	0.59	0.00	158 °F	Yellow	08/23/14	5:20	250 (gpm)
102	7,007.00	89.50	178.20	4,777.34	2,633.63	-2,633.65	-15.48	2,633.70	180.34	0.46	0.00	160 °F	Yellow	08/23/14	6:17	250 (gpm)
103	7,068.00	88.70	178.80	4,778.30	2,694.58	-2,694.62	-13.88	2,694.66	180.30	1.64	0.00	162 °F	Pink	08/23/14	8:34	250 (gpm)
104	7,106.00	88.60	178.90	4,779.19	2,732.55	-2,732.60	-13.12	2,732.63	180.28	0.37	0.00	145 °F	Green	08/23/14	20:10	250 (gpm)
105	7,169.00	89.60	179.40	4,780.18	2,795.52	-2,795.59	-12.19	2,795.61	180.25	1.77	0.00	142 °F	Green	08/23/14	21:10	267 (gpm)
106	7,201.00	90.00	179.50	4,780.29	2,827.51	-2,827.59	-11.88	2,827.61	180.24	1.29	0.00	142 °F	Green	08/23/14	21:35	267 (gpm)
107	7,264.00	90.30	179.60	4,780.13	2,890.49	-2,890.58	-11.39	2,890.61	180.23	0.50	0.00	142 °F	Green	08/23/14	22:08	267 (gpm)
108	7,327.00	90.80	179.50	4,779.52	2,953.48	-2,953.58	-10.89	2,953.60	180.21	0.81	0.00	142 °F	Green	08/23/14	23:10	267 (gpm)
109	7,390.00	90.60	179.80	4,778.75	3,016.46	-3,016.57	-10.51	3,016.59	180.20	0.57	0.00	142 °F	Green	08/23/14	23:50	267 (gpm)
110	7,453.00	90.60	180.10	4,778.09	3,079.45	-3,079.57	-10.45	3,079.59	180.19	0.48	0.00	140 °F	Green	08/24/14	0:40	267 (gpm)
111	7,517.00	90.50	180.00	4,777.48	3,143.44	-3,143.57	-10.51	3,143.58	180.19	0.22	0.00	140 °F	Green	08/24/14	1:50	267 (gpm)
112	7,580.00	90.90	180.00	4,776.71	3,206.43	-3,206.56	-10.51	3,206.58	180.19	0.63	0.00	140 °F	Green	08/24/14	2:35	267 (gpm)
113	7,643.00	90.20	180.30	4,776.11	3,269.43	-3,269.56	-10.67	3,269.57	180.19	1.21	0.00	133 °F	Green	08/24/14	4:00	267 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: August 16, 2014
Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

	Measured			Coordinates				Closure			Mtr Yield	Temp (°F)	Vib/Shk Color	Date	Time	Flow Rate
	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS						
114	7,706.00	89.30	180.60	4,776.38	3,332.43	-3,332.55	-11.17	3,332.57	180.19	1.51	0.00	133 °F	Green	08/24/14	5:00	267 (gpm)
115	7,769.00	89.60	180.80	4,776.99	3,395.42	-3,395.55	-11.94	3,395.57	180.20	0.57	0.00	133 °F	Green	08/24/14	5:44	267 (gpm)
116	7,832.00	89.80	180.50	4,777.32	3,458.42	-3,458.54	-12.65	3,458.56	180.21	0.57	0.00	133 °F	Green	08/24/14	6:13	250 (gpm)
117	7,864.00	90.10	180.40	4,777.34	3,490.42	-3,490.54	-12.90	3,490.56	180.21	0.99	0.00	133 °F	Green	08/24/14	6:37	263 (gpm)
118	7,927.00	90.40	180.00	4,777.07	3,553.42	-3,553.54	-13.12	3,553.56	180.21	0.79	0.00	133 °F	Green	08/24/14	7:10	267 (gpm)
119	7,959.00	90.80	180.10	4,776.73	3,585.41	-3,585.54	-13.15	3,585.56	180.21	1.29	0.00	133 °F	Green	08/24/14	7:47	267 (gpm)
120	7,990.00	90.60	180.10	4,776.35	3,616.41	-3,616.53	-13.20	3,616.56	180.21	0.65	0.00	133 °F	Green	08/24/14	8:05	267 (gpm)
121	8,053.00	89.60	180.10	4,776.24	3,679.40	-3,679.53	-13.31	3,679.56	180.21	1.59	0.00	133 °F	Green	08/24/14	8:55	267 (gpm)
122	8,085.00	89.10	179.80	4,776.61	3,711.40	-3,711.53	-13.29	3,711.55	180.21	1.82	0.00	131 °F	Green	08/24/14	9:18	267 (gpm)
123	8,148.00	89.40	179.30	4,777.43	3,774.38	-3,774.52	-12.79	3,774.55	180.19	0.93	0.00	131 °F	Green	08/24/14	10:14	267 (gpm)
124	8,211.00	89.60	180.30	4,777.98	3,837.37	-3,837.52	-12.57	3,837.54	180.19	1.62	0.00	129 °F	Green	08/24/14	11:16	267 (gpm)
125	8,242.00	90.10	180.70	4,778.06	3,868.37	-3,868.52	-12.84	3,868.54	180.19	2.07	0.00	129 °F	Green	08/24/14	12:02	267 (gpm)
126	8,274.00	90.30	180.30	4,777.95	3,900.37	-3,900.52	-13.12	3,900.54	180.19	1.40	0.00	129 °F	Green	08/24/14	12:27	267 (gpm)
127	8,337.00	90.60	180.90	4,777.46	3,963.37	-3,963.51	-13.78	3,963.54	180.20	1.06	0.00	131 °F	Green	08/24/14	13:08	267 (gpm)
128	8,369.00	90.70	180.80	4,777.09	3,995.36	-3,995.51	-14.26	3,995.53	180.20	0.44	0.00	131 °F	Green	08/24/14	13:43	267 (gpm)
129	8,432.00	90.60	180.40	4,776.38	4,058.36	-4,058.50	-14.92	4,058.53	180.21	0.65	0.00	117 °F	Green	08/24/14	15:05	267 (gpm)
130	8,495.00	90.80	181.20	4,775.61	4,121.35	-4,121.49	-15.79	4,121.52	180.22	1.31	0.00	113 °F	Green	08/24/14	16:55	267 (gpm)
131	8,527.00	90.20	181.40	4,775.33	4,153.35	-4,153.48	-16.52	4,153.51	180.23	1.98	0.00	113 °F	Green	08/24/14	17:35	267 (gpm)
132	8,558.00	90.20	181.30	4,775.22	4,184.35	-4,184.47	-17.25	4,184.50	180.24	0.32	0.00	113 °F	Green	08/24/14	18:18	267 (gpm)
133	8,621.00	90.70	181.60	4,774.73	4,247.34	-4,247.45	-18.85	4,247.49	180.25	0.93	0.00	113 °F	Green	08/24/14	19:17	267 (gpm)
134	8,684.00	90.20	181.30	4,774.23	4,310.33	-4,310.42	-20.44	4,310.47	180.27	0.93	0.00	118 °F	Green	08/24/14	21:53	267 (gpm)
135	8,747.00	89.20	180.90	4,774.56	4,373.33	-4,373.41	-21.65	4,373.46	180.28	1.71	0.00	111 °F	Green	08/24/14	22:45	267 (gpm)
136	8,811.00	89.00	181.40	4,775.57	4,437.32	-4,437.39	-22.93	4,437.45	180.30	0.84	0.00	113 °F	Green	08/24/14	23:55	267 (gpm)
137	8,874.00	88.80	181.60	4,776.78	4,500.30	-4,500.36	-24.58	4,500.42	180.31	0.45	0.00	115 °F	Green	08/25/14	1:15	267 (gpm)
138	8,905.00	88.80	181.80	4,777.43	4,531.29	-4,531.34	-25.50	4,531.41	180.32	0.65	0.00	115 °F	Green	08/25/14	2:00	267 (gpm)
139	8,972.00	88.80	181.70	4,778.83	4,598.27	-4,598.29	-27.55	4,598.37	180.34	0.15	0.00	113 °F	Green	08/25/14	3:00	267 (gpm)
TD	9,027.00	88.80	181.70	4,779.98	4,653.25	-4,653.25	-29.18	4,653.34	180.36	0.00						

MWD SURVEYS

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 Field/Block: Mississippi Lime
 Co./Parish: Barber Co.
 State: KS

PGS Job #: LKS6113414
 MWD Operator: Ken Mitchell
 Directional Driller: Kyle Underwood
 Date of First Survey: August 16, 2014
 Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

<i>Measured</i>			<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>					
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD
SURVEYS

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<i>Measured</i>		<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>						
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73

Nominal Dip Angle: 65.07

Magnetic Field Strength: 0.516

<i>Measured</i>			<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>					
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD SURVEYS

Customer: Tapstone Energy
 Well: Schrock 3410 35-1H
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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

<i>Measured</i>		<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>						
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD SURVEYS

Customer: Tapstone Energy
 Well: Schrock 3410 35-1H
 Field/Block: Mississippi Lime
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 State: KS

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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73

Nominal Dip Angle: 65.07

Magnetic Field Strength: 0.516

<i>Measured</i>			<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>					
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD SURVEYS

Customer: Tapstone Energy
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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

<i>Measured Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>Coordinates</i>		<i>Closure</i>			<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Vib/Shk Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>
					<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>								

MWD SURVEYS

Customer: Tapstone Energy
 Well: Schrock 3410 35-1H
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Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

<i>Measured</i>			<i>Coordinates</i>				<i>Closure</i>			<i>Vib/Shk</i>					
<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD SURVEYS

Customer: Tapstone Energy
 Well: Schrock 3410 35-1H
 Field/Block: Mississippi Lime
 Co./Parish: Barber Co.
 State: KS

PGS Job #: LKS6113414
 MWD Operator: Ken Mitchell
 Directional Driller: Kyle Underwood
 Date of First Survey: August 16, 2014
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Magnetic Field Strength: 0.516

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<i>Depth</i>	<i>Inc.</i>	<i>Azm.</i>	<i>T.V.D.</i>	<i>Ver. Sect.</i>	<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>	<i>DLS</i>	<i>Mtr Yield</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>

MWD
SURVEYS

Customer: Tapstone Energy
Well: Schrock 3410 35-1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6113414
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: August 16, 2014
Date of Last Survey: August 25, 2014



Total Correction: 4.45 East Grid

Vertical Section Plane: 180.73 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.516

Measured		Coordinates					Closure			Vib/Shk					
Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS	Mtr Yield	Temp (°F)	Color	Date	Time	Flow Rate

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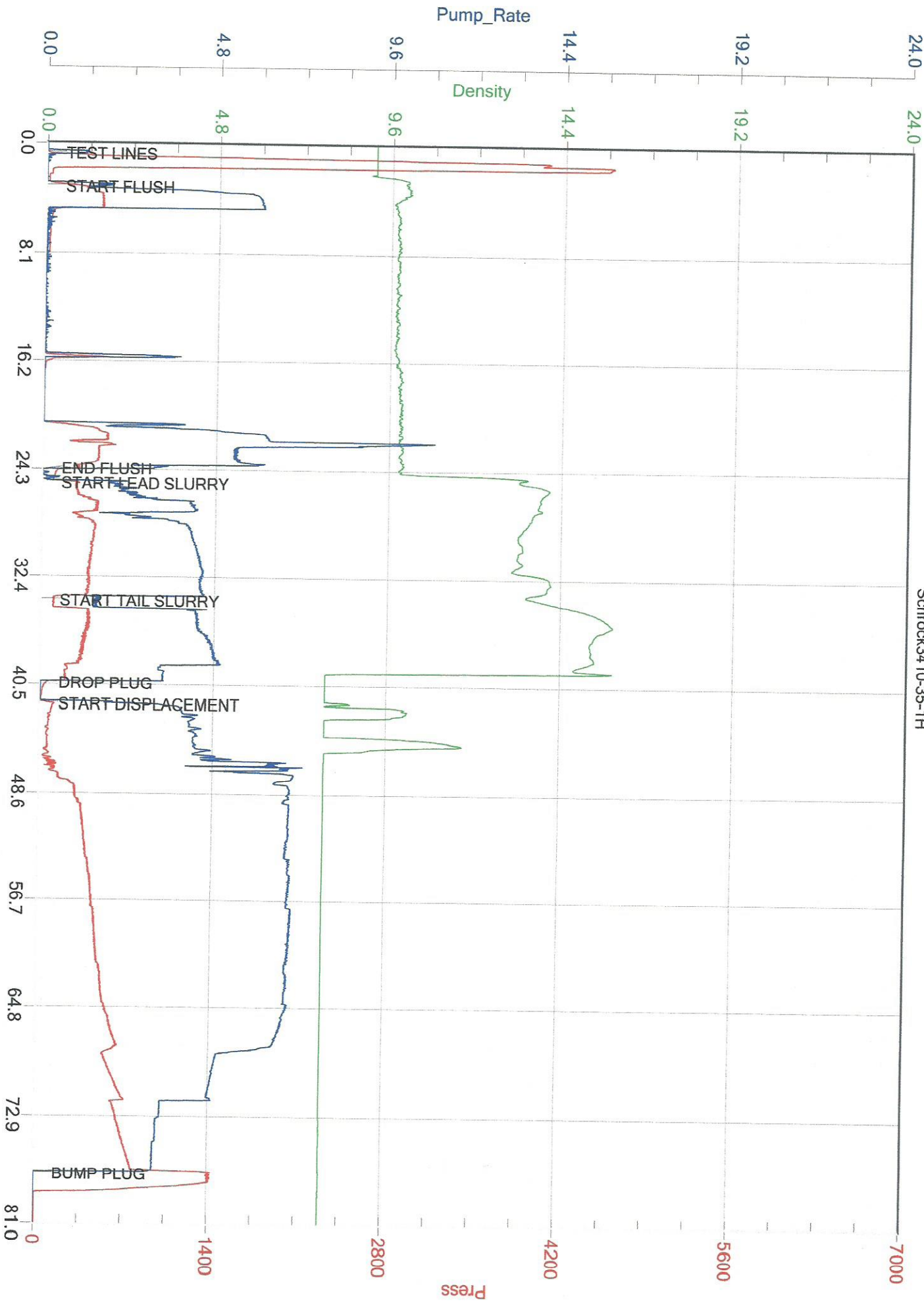
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					<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>				<i>Color</i>			



Date 8-20-14 District ML. 22 Ticket No. 63034
 Company Seaton Energy Rig No Mac 27
 Lease Schrock Well No. 3400-35-1H
 County Barker State Ks
 Location Hazelton Ks, 15, 1E, 2S Field 36-34-9
1/2 E, S/N

CEMENT DATA:
 Spacer Type: Super Flush
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 7 Type _____ Weight 26# Collar _____

LEAD: Pump Time _____ hrs. Type Class "A" 50:50+
2% Gel + .4% FI-160 + 1% C-51 Excess _____
 Amt. 130 Sks Yield 1.40 ft³/sk Density 13.6 PPG
 TAIL: Pump Time _____ hrs. Type Class "A" + .8%
FI-160 + 1% C-51 Excess _____
 Amt. 90 Sks Yield 1.18 ft³/sk Density 15.6 PPG
 WATER: Lead 6.75 gals/sk Tail 5.17 gals/sk Total _____ Bbls.

Casing Depths: Top _____ Bottom 5234

Pump Trucks Used 545-548
 Bulk Equip. 819/823

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 8 3/4 T.D. 5237 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Fresh H2O Amt. _____ Bbls. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Shyann Gray

CEMENTER Jason Thimesch

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
9:00 AM						On loc, safety meeting, spotting, safety meeting, rig up, safety meeting, running casing
1:00 AM	5000		26 BBL		24	Pres test fix leak on sub
1:20 AM	400		20 BBL		6	Pump spacer/bottom plug TOJ 2679
1:28 AM	400		32 1/2 BBL		4	Mix & pump 1st cement slurry TOC 3425
1:37 AM	350		19 BBL		4	Mix & pump 2nd cement slurry TOC 4637
1:42 AM						Shut down Release plug
1:47 AM	200				7	Start Displacement
	300		40 BBL		7	
	400		60 BBL		7	
	500		110 BBL		7	
	600		140 BBL		7	
	550		150 BBL		5	
	650		170 BBL		3 1/2	Slow to Pump
	800		180 BBL		3	
2:22 AM	1400		188 BBL		0	Pump Plug

ALLIED OIL & GAS SERVICES, LLC 063034

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Medicine Lodge KS
8/21/14

DATE <u>8/20/14</u>	SEC. <u>36</u>	TWP. <u>34</u>	RANGE <u>9</u>	CALLED OUT <u>4:00 PM</u>	ON LOCATION <u>9:00 PM</u>	JOB START <u>10:00 AM</u>	JOB FINISH <u>2:30 AM</u>
LEASE <u>Schrock</u>	WELL # <u>3410-25-111</u>	LOCATION <u>Hazleton KS, 1 south, 1 East, 2 South,</u>			COUNTY <u>Barber</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>1/2 East South into</u>				

CONTRACTOR Nomac # 7
 TYPE OF JOB Intermediate
 HOLE SIZE 8 1/2 T.D. 5237
 CASING SIZE 7 DEPTH 5234
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1406 MINIMUM
 MEAS. LINE SHOE JOINT 83'
 CEMENT LEFT IN CSG. 83'
 PERFS.
 DISPLACEMENT 188 BBLs Fresh H₂O

OWNER Tapstone Energy

CEMENT
 AMOUNT ORDERED 130 or 50:50 Class A: Pozz
 2% Gel + 4% FL-160 + 1% C-51, 90 or Class A +
 .8% FL-160 + 2% CD-31, 20 BBL Super Flush

COMMON @
 POZMIX @
 GEL @
 CHLORIDE 130 @ 92
 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thimesch
 # 548/545 HELPER Ron Gilley
 BULK TRUCK
 # 819/823 DRIVER Joe Holcomb
 BULK TRUCK
 # DRIVER

DC @ 4012
 Schrock 3410
 Nomac 7
 @ 830.37
 HANDLING @
 MILEAGE @ 8541.55

REMARKS:

TOTAL
Shuppin Sears

SERVICE
8/24/14

DEPTH OF JOB 5234
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE @
 MILEAGE @
 MANIFOLD @
 @
 @

CHARGE TO: Tapstone Energy
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @

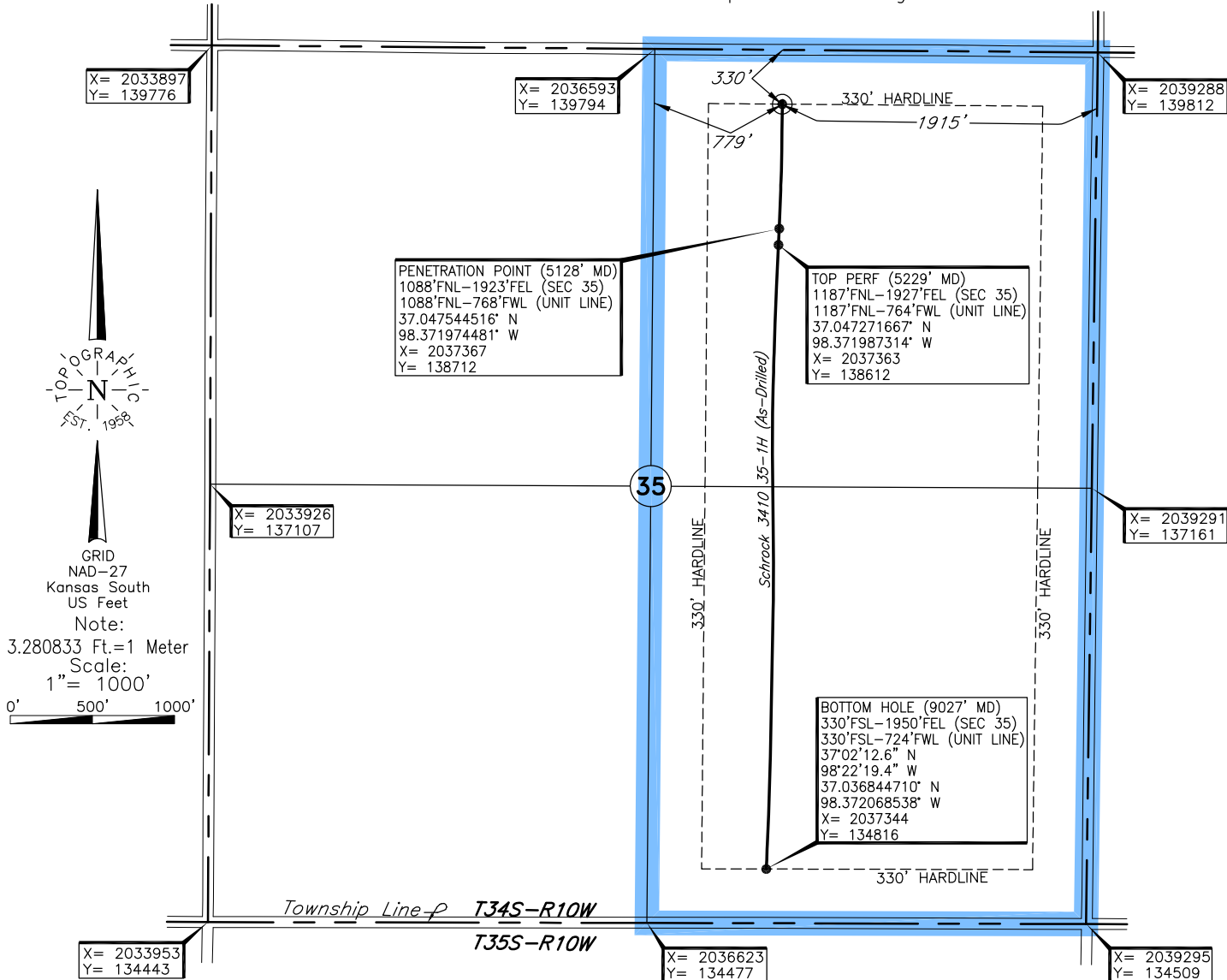
To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or
 contractor to do work as is listed. The

TOPOGRAPHIC LAND SURVEYORS

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 * LOCAL (405) 843-4847 * OUT OF STATE (800) 654-3219
 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2015

BARBER County, Kansas

330'FNL-1915'FEL Section 35 Township 34S Range 10W P.M.



Operator: TAPSTONE ENERGY

Lease Name: SCHROCK 3410

Well No.: 35-1H

ELEVATION:
1332' Gr. at Stake

Topography & Vegetation Loc. fell on level existing pad with conductor pipes

Good Drill Site? Yes Reference Stakes or Alternate Location
 Stakes Set None

Best Accessibility to Location From North off county road

Distance & Direction
 from Hwy Jct or Town From Hazelton, KS., go ±2.5 mi. South on Rattlesnake road, then
go ±1.0 mi. East to to NE corner Section 35-T34S-R10W

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy

DATUM: NAD-27
 LAT: 37°02'58.6" N
 LONG: 98°22'19.0" W
 LAT: 37.049624309° N
 LONG: 98.371946685° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2037374
 Y: 139469

230411 Date of Drawing: Sep. 04, 2014
 Invoice # 220488 Date Staked: Apr. 30, 2014 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
 FURNISHED BY TAPSTONE ENERGY

Date 8-15-14 District MEDICINE Ticket No. 63662
 Company TAPSTONE Rig _____
 Lease SCHROCK 3410 Well No. 35-14
 County BARBER State KS
 Location HARLTON KS 15, 16, 25 Field _____
2E 5 INTO

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 9 5/8 Type J-53 Weight 36 Collar _____

CEMENT DATA:
 Spacer Type: FRESH WATER
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time .5 hrs. Type 65/35A + 66664
28 CC + 1/4 APPS FLO SEAL Excess 150.6
 Amt. 255 Skys Yield 1.87 ft³/sk Density 12.7 PPG
 TAIL: Pump Time .35 hrs. Type A + 28 CC +
1/4 APPS FLO SEAL Excess 150.6
 Amt. 150 Skys Yield 1.20 ft³/sk Density 15.6 PPG
 WATER: Lead 10.05 gals/sk Tail 5.2 gals/sk Total 79.5 Bbls.

Casing Depths: Top 0 Bottom 836

Pump Trucks Used 545
 Bulk Equip. 702

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0773 Lin. ft./Bbl. 12.93
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type FRESH WATER Amt. 61 Bbls. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Buck Fogel

CEMENTER COY PRICE

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
1600						ARRIVE ON LOG STILL RUNNING CASING
1605						RIG UP MEETING
1610						RIG UP
1700						SAFETY MEETING
1725		2000				PRESSURE TEST
1730		100		10	5	FRESH WATER SPACER
1733		150		85	5	LEAD SLURRY 12.7 PPG
1743		200		51	5	SPACER @ SHOE
1745		200		61	5	LEAD @ SHOE
1750		200		32	5	TAIL SLURRY 15.6 PPG
1800						SHOT DOWN DROP PLUG
1805		150			5.5	WASH TO ISP
1813		400		51	3	SLOW RATE
1815		1500		61	3	BUMP PLUG
1820						✓ FLOATS
1805		150		2	5.5	CEMENT TO SURFACE

FINAL DISP. PRESS: 600 PSI BUMP PLUG TO 1500 PSI BLEEDBACK .5 BBLs. THANK YOU