



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1234393
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: _____

1234393

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MWD SURVEYS

Customer: Tapstone Energy
 Well: Bill 34-34-10 #1H
 Field/Block: Mississippi Lime
 Co./Parish: Barber Co.
 State: KS

PGS Job #: LKS6114214
 MWD Operator: Ken Mitchell
 Directional Driller: Kyle Underwood
 Date of First Survey: October 12, 2014
 Date of Last Survey: October 23, 2014



Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

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	
Survey's are tied into: MWD										Date Received: 10/12/14						
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	902.00	0.50	16.00	901.99	-3.84	3.78	1.08	3.94	16.00	0.06	0.00	84 °F	Green	10/12/14	22:20	605 (gpm)
2	1,091.00	0.50	16.30	1,090.98	-5.45	5.37	1.54	5.58	16.04	0.00	0.00	88 °F	Green	10/12/14	23:22	605 (gpm)
3	1,280.00	0.30	67.30	1,279.98	-6.47	6.35	2.23	6.73	19.36	0.21	0.00	97 °F	Green	10/13/14	0:32	605 (gpm)
4	1,470.00	0.30	66.30	1,469.97	-6.91	6.74	3.15	7.44	25.01	0.00	0.00	104 °F	Green	10/13/14	1:36	545 (gpm)
5	1,659.00	0.30	88.00	1,658.97	-7.19	6.96	4.09	8.07	30.47	0.06	0.00	115 °F	Green	10/13/14	4:12	606 (gpm)
6	1,848.00	0.30	84.30	1,847.97	-7.31	7.02	5.08	8.67	35.88	0.01	0.00	117 °F	Green	10/13/14	5:57	606 (gpm)
7	2,038.00	0.40	69.90	2,037.97	-7.65	7.30	6.20	9.58	40.33	0.07	0.00	118 °F	Green	10/13/14	7:36	634 (gpm)
8	2,225.00	0.20	74.80	2,224.96	-8.01	7.61	7.13	10.43	43.11	0.11	0.00	118 °F	Green	10/13/14	9:18	634 (gpm)
9	2,412.00	0.00	230.70	2,411.96	-8.12	7.70	7.44	10.71	44.03	0.11	0.00	120 °F	Green	10/13/14	10:51	634 (gpm)
10	2,602.00	0.10	193.30	2,601.96	-7.96	7.54	7.40	10.56	44.49	0.05	0.00	124 °F	Green	10/13/14	12:34	634 (gpm)
11	2,790.00	0.30	102.10	2,789.96	-7.72	7.27	7.85	10.70	47.17	0.17	0.00	126 °F	Green	10/13/14	14:09	606 (gpm)
12	2,976.00	0.50	134.90	2,975.96	-7.11	6.60	8.90	11.08	53.44	0.16	0.00	97 °F	Green	10/13/14	17:54	606 (gpm)
13	3,163.00	0.30	141.40	3,162.95	-6.20	5.64	9.78	11.29	60.03	0.11	0.00	99 °F	Green	10/13/14	20:15	606 (gpm)
14	3,354.00	0.00	159.60	3,353.95	-5.83	5.25	10.09	11.38	62.52	0.16	0.00	106 °F	Green	10/13/14	22:27	606 (gpm)
15	3,542.00	0.30	289.10	3,541.95	-5.96	5.41	9.63	11.04	60.67	0.16	0.00	113 °F	Green	10/14/14	0:27	591 (gpm)
16	3,728.00	0.40	331.70	3,727.95	-6.65	6.14	8.86	10.78	55.27	0.15	0.00	120 °F	Green	10/14/14	2:20	591 (gpm)
17	3,823.00	0.60	266.40	3,822.94	-6.87	6.40	8.21	10.41	52.04	0.59	0.00	126 °F	Green	10/14/14	3:35	591 (gpm)
18	3,917.00	2.30	199.90	3,916.92	-5.00	4.60	7.07	8.44	56.98	2.27	12.00	120 °F	Green	10/14/14	5:42	352 (gpm)
19	3,949.00	8.50	189.30	3,948.76	-2.03	1.66	6.47	6.68	75.64	19.54	19.50	120 °F	Green	10/14/14	6:44	352 (gpm)
20	3,980.00	13.20	189.00	3,979.20	3.77	-4.10	5.55	6.90	126.50	15.16	15.10	118 °F	Green	10/14/14	7:44	352 (gpm)
21	4,011.00	15.40	189.20	4,009.23	11.39	-11.66	4.33	12.44	159.61	7.10	15.40	118 °F	Green	10/14/14	8:26	352 (gpm)
22	4,043.00	15.80	190.00	4,040.05	19.94	-20.15	2.90	20.36	171.81	1.42	0.00	118 °F	Green	10/14/14	9:13	472 (gpm)
23	4,075.00	15.90	189.80	4,070.84	28.63	-28.76	1.40	28.79	177.22	0.36	0.00	118 °F	Green	10/14/14	9:58	472 (gpm)
24	4,106.00	16.80	188.40	4,100.58	37.31	-37.37	0.02	37.37	179.97	3.17	10.70	118 °F	Green	10/14/14	10:42	472 (gpm)
25	4,137.00	17.90	187.40	4,130.17	46.52	-46.53	-1.25	46.55	181.54	3.68	11.40	118 °F	Green	10/14/14	11:20	472 (gpm)
26	4,168.00	19.60	185.60	4,159.53	56.47	-56.43	-2.37	56.48	182.40	5.79	11.90	118 °F	Green	10/14/14	12:14	472 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Bill 34-34-10 #1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6114214
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: October 12, 2014
Date of Last Survey: October 23, 2014



Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

	<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>
27	4,199.00	22.00	185.30	4,188.50	67.47	-67.39	-3.41	67.48	182.90	7.75	13.30	118 °F	Green	10/14/14	13:36	472 (gpm)
28	4,230.00	24.60	185.30	4,216.97	79.73	-79.60	-4.55	79.73	183.27	8.39	13.00	118 °F	Green	10/14/14	14:35	472 (gpm)
29	4,261.00	27.90	185.80	4,244.77	93.43	-93.24	-5.88	93.43	183.61	10.67	16.30	120 °F	Green	10/14/14	15:48	472 (gpm)
30	4,292.00	30.70	185.00	4,271.80	108.59	-108.34	-7.30	108.59	183.85	9.12	15.70	120 °F	Green	10/14/14	17:02	472 (gpm)
31	4,322.00	33.50	184.50	4,297.22	124.52	-124.23	-8.62	124.53	183.97	9.38	15.20	122 °F	Green	10/14/14	18:22	472 (gpm)
32	4,354.00	36.10	184.30	4,323.49	142.78	-142.44	-10.02	142.79	184.02	8.13	15.20	122 °F	Green	10/14/14	19:33	472 (gpm)
33	4,386.00	38.30	184.60	4,348.98	162.12	-161.72	-11.52	162.13	184.07	6.90	15.80	124 °F	Green	10/14/14	20:58	472 (gpm)
34	4,417.00	41.00	184.80	4,372.84	181.89	-181.44	-13.14	181.91	184.14	8.72	16.00	124 °F	Green	10/14/14	22:39	472 (gpm)
35	4,449.00	43.60	184.60	4,396.51	203.42	-202.90	-14.90	203.45	184.20	8.14	17.00	126 °F	Green	10/15/14	0:15	472 (gpm)
36	4,480.00	45.30	185.20	4,418.64	225.12	-224.53	-16.76	225.15	184.27	5.65	17.00	126 °F	Green	10/15/14	1:15	472 (gpm)
37	4,511.00	46.90	185.60	4,440.13	247.45	-246.76	-18.86	247.48	184.37	5.24	17.00	126 °F	Green	10/15/14	2:30	472 (gpm)
38	4,543.00	48.80	184.70	4,461.61	271.16	-270.39	-20.99	271.21	184.44	6.29	16.00	126 °F	Green	10/15/14	3:49	472 (gpm)
39	4,574.00	50.60	184.80	4,481.66	294.79	-293.95	-22.95	294.85	184.46	5.81	14.50	127 °F	Green	10/15/14	5:18	472 (gpm)
40	4,606.00	52.90	184.80	4,501.47	319.91	-318.99	-25.05	319.98	184.49	7.19	15.40	127 °F	Green	10/15/14	6:38	472 (gpm)
41	4,637.00	55.50	185.10	4,519.60	345.04	-344.04	-27.22	345.12	184.52	8.42	17.20	127 °F	Green	10/15/14	7:43	472 (gpm)
42	4,669.00	58.40	184.10	4,537.05	371.86	-370.77	-29.37	371.93	184.53	9.43	16.70	127 °F	Green	10/15/14	8:52	472 (gpm)
43	4,700.00	61.00	183.20	4,552.69	398.62	-397.48	-31.07	398.69	184.47	8.75	18.00	127 °F	Green	10/15/14	9:50	472 (gpm)
44	4,731.00	63.10	182.70	4,567.22	426.00	-424.83	-32.48	426.07	184.37	6.92	18.00	127 °F	Green	10/15/14	11:01	507 (gpm)
45	4,763.00	63.70	182.60	4,581.55	454.61	-453.41	-33.80	454.67	184.26	1.90	0.00	127 °F	Green	10/15/14	12:11	507 (gpm)
46	4,795.00	63.80	182.40	4,595.70	483.31	-482.08	-35.05	483.35	184.16	0.64	0.00	133 °F	Green	10/15/14	13:15	507 (gpm)
47	4,827.00	63.70	181.90	4,609.85	512.00	-510.76	-36.13	512.04	184.05	1.44	0.00	135 °F	Green	10/15/14	14:15	507 (gpm)
48	4,858.00	63.30	181.70	4,623.68	539.73	-538.49	-37.00	539.76	183.93	1.41	0.00	135 °F	Green	10/15/14	15:28	507 (gpm)
49	4,889.00	63.30	181.70	4,637.61	567.42	-566.17	-37.82	567.43	183.82	0.00	0.00	135 °F	Green	10/15/14	16:23	507 (gpm)
50	4,920.00	63.40	181.70	4,651.52	595.11	-593.87	-38.64	595.12	183.72	0.32	0.00	136 °F	Green	10/15/14	17:27	507 (gpm)
51	4,951.00	65.30	181.60	4,664.94	623.04	-621.80	-39.45	623.05	183.63	6.14	15.00	136 °F	Green	10/15/14	18:15	507 (gpm)
52	4,982.00	68.60	181.90	4,677.07	651.55	-650.31	-40.32	651.56	183.55	10.68	15.00	136 °F	Green	10/15/14	18:55	507 (gpm)
53	5,013.00	72.00	182.40	4,687.52	680.73	-679.47	-41.42	680.73	183.49	11.07	15.00	135 °F	Green	10/15/14	20:38	507 (gpm)
54	5,044.00	75.00	183.10	4,696.32	710.45	-709.15	-42.84	710.45	183.46	9.92	15.00	135 °F	Green	10/15/14	22:08	507 (gpm)
55	5,075.00	77.80	183.80	4,703.61	740.57	-739.23	-44.66	740.57	183.46	9.30	15.00	135 °F	Green	10/15/14	23:30	507 (gpm)

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 Co./Parish: Barber Co.
 State: KS

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	Measured		Coordinates				Closure			Mtr Yield	Temp (°F)	Vib/Shk				
	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N/-S	+E/-W	Dist.	Angle			DLS	Color	Date	Time	Flow Rate
56	5,106.00	80.80	184.30	4,709.37	771.03	-769.61	-46.81	771.03	183.48	9.81	16.50	135 °F	Green	10/16/14	0:56	507 (gpm)
57	5,138.00	83.70	184.70	4,713.68	802.73	-801.21	-49.30	802.73	183.52	9.15	16.50	135 °F	Green	10/16/14	3:10	507 (gpm)
58	5,210.00	87.90	185.30	4,718.96	874.49	-872.73	-55.55	874.50	183.64	5.89	0.00	129 °F	Green	10/17/14	17:32	204 (gpm)
59	5,242.00	87.50	185.30	4,720.24	906.44	-904.57	-58.51	906.46	183.70	1.25	0.00	129 °F	Green	10/17/14	17:58	232 (gpm)
60	5,273.00	87.70	185.30	4,721.54	937.40	-935.41	-61.37	937.42	183.75	0.65	0.00	129 °F	Green	10/17/14	18:23	232 (gpm)
61	5,303.00	87.20	185.70	4,722.87	967.35	-965.24	-64.24	967.38	183.81	2.13	0.00	129 °F	Yellow	10/17/14	18:48	232 (gpm)
62	5,333.00	87.20	186.00	4,724.34	997.28	-995.05	-67.30	997.32	183.87	1.00	0.00	129 °F	Yellow	10/17/14	19:26	232 (gpm)
63	5,363.00	87.60	186.00	4,725.70	1,027.22	-1,024.85	-70.43	1,027.27	183.93	1.33	0.00	129 °F	Yellow	10/17/14	20:07	232 (gpm)
64	5,393.00	87.50	185.90	4,726.98	1,057.16	-1,054.67	-73.53	1,057.23	183.99	0.47	0.00	129 °F	Yellow	10/17/14	20:52	232 (gpm)
65	5,423.00	87.80	185.70	4,728.21	1,087.11	-1,084.49	-76.56	1,087.19	184.04	1.20	0.00	131 °F	Yellow	10/17/14	21:43	232 (gpm)
66	5,453.00	88.60	185.30	4,729.15	1,117.07	-1,114.33	-79.44	1,117.16	184.08	2.98	0.00	131 °F	Yellow	10/17/14	22:22	232 (gpm)
67	5,483.00	89.10	185.50	4,729.76	1,147.05	-1,144.19	-82.26	1,147.15	184.11	1.80	0.00	133 °F	Yellow	10/17/14	23:00	232 (gpm)
68	5,513.00	89.10	185.70	4,730.23	1,177.02	-1,174.05	-85.19	1,177.13	184.15	0.67	0.00	135 °F	Yellow	10/18/14	0:22	232 (gpm)
69	5,543.00	89.40	185.80	4,730.62	1,206.99	-1,203.89	-88.19	1,207.12	184.19	1.05	0.00	135 °F	Pink	10/18/14	1:56	232 (gpm)
70	5,573.00	90.20	185.60	4,730.72	1,236.96	-1,233.75	-91.17	1,237.11	184.23	2.75	0.00	135 °F	Yellow	10/18/14	3:05	232 (gpm)
71	5,603.00	90.90	185.40	4,730.44	1,266.94	-1,263.61	-94.05	1,267.10	184.26	2.43	0.00	136 °F	Pink	10/18/14	3:45	232 (gpm)
72	5,633.00	91.20	185.70	4,729.89	1,296.91	-1,293.46	-96.95	1,297.09	184.29	1.41	0.00	138 °F	Yellow	10/18/14	5:11	246 (gpm)
73	5,663.00	90.10	185.30	4,729.55	1,326.89	-1,323.32	-99.82	1,327.08	184.31	3.90	0.00	138 °F	Yellow	10/18/14	6:11	246 (gpm)
74	5,693.00	88.70	185.20	4,729.86	1,356.87	-1,353.19	-102.57	1,357.07	184.33	4.68	0.00	140 °F	Yellow	10/18/14	7:14	246 (gpm)
75	5,723.00	88.10	185.90	4,730.70	1,386.84	-1,383.04	-105.47	1,387.05	184.36	3.07	0.00	140 °F	Yellow	10/18/14	8:14	246 (gpm)
76	5,754.00	88.00	186.20	4,731.75	1,417.79	-1,413.85	-108.73	1,418.02	184.40	1.02	0.00	140 °F	Yellow	10/18/14	9:36	246 (gpm)
77	5,784.00	88.20	186.40	4,732.75	1,447.73	-1,443.65	-112.02	1,447.99	184.44	0.94	0.00	142 °F	Yellow	10/18/14	11:09	246 (gpm)
78	5,814.00	88.60	185.90	4,733.59	1,477.68	-1,473.47	-115.24	1,477.97	184.47	2.13	0.00	142 °F	Yellow	10/18/14	12:33	246 (gpm)
79	5,843.00	88.10	185.60	4,734.42	1,506.64	-1,502.31	-118.14	1,506.95	184.50	2.01	0.00	142 °F	Yellow	10/18/14	13:53	246 (gpm)
80	5,874.00	88.30	185.20	4,735.39	1,537.61	-1,533.15	-121.06	1,537.93	184.51	1.44	0.00	142 °F	Yellow	10/18/14	14:56	264 (gpm)
81	5,905.00	88.80	184.60	4,736.18	1,568.59	-1,564.03	-123.70	1,568.92	184.52	2.52	0.00	142 °F	Yellow	10/18/14	15:52	264 (gpm)
82	5,934.00	88.80	184.00	4,736.79	1,597.58	-1,592.94	-125.88	1,597.91	184.52	2.07	0.00	144 °F	Yellow	10/18/14	17:10	264 (gpm)
83	5,964.00	89.30	183.70	4,737.28	1,627.57	-1,622.87	-127.89	1,627.90	184.51	1.94	0.00	145 °F	Pink	10/18/14	18:12	264 (gpm)
84	5,995.00	90.00	183.10	4,737.47	1,658.57	-1,653.82	-129.73	1,658.90	184.49	2.97	0.00	145 °F	Yellow	10/18/14	19:08	264 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Bill 34-34-10 #1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6114214
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: October 12, 2014
Date of Last Survey: October 23, 2014



Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

	<i>Measured</i>					<i>Coordinates</i>		<i>Closure</i>			<i>Mtr Yield</i>	<i>Temp (°F)</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>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>
85	6,026.00	90.00	182.30	4,737.47	1,689.57	-1,684.78	-131.19	1,689.88	184.45	2.58	0.00	147 °F	Pink	10/18/14	20:15	264 (gpm)
86	6,056.00	89.00	181.90	4,737.73	1,719.56	-1,714.76	-132.29	1,719.85	184.41	3.59	0.00	149 °F	Pink	10/18/14	21:15	264 (gpm)
87	6,085.00	88.10	182.00	4,738.47	1,748.54	-1,743.73	-133.28	1,748.82	184.37	3.12	0.00	151 °F	Pink	10/18/14	22:23	264 (gpm)
88	6,115.00	88.00	181.90	4,739.49	1,778.52	-1,773.70	-134.30	1,778.78	184.33	0.47	0.00	151 °F	Pink	10/18/14	23:32	264 (gpm)
89	6,146.00	88.30	181.60	4,740.49	1,809.49	-1,804.67	-135.24	1,809.73	184.29	1.37	0.00	153 °F	Pink	10/19/14	1:01	264 (gpm)
90	6,176.00	87.80	181.50	4,741.51	1,839.45	-1,834.64	-136.05	1,839.68	184.24	1.70	0.00	145 °F	Green	10/19/14	10:04	264 (gpm)
91	6,206.00	88.30	181.40	4,742.53	1,869.42	-1,864.61	-136.81	1,869.62	184.20	1.70	0.00	145 °F	Green	10/19/14	10:54	264 (gpm)
92	6,236.00	89.30	181.40	4,743.16	1,899.40	-1,894.60	-137.55	1,899.58	184.15	3.33	0.00	145 °F	Green	10/19/14	11:38	264 (gpm)
93	6,266.00	89.90	181.60	4,743.37	1,929.38	-1,924.59	-138.33	1,929.55	184.11	2.11	0.00	147 °F	Green	10/19/14	12:18	264 (gpm)
94	6,296.00	90.30	181.60	4,743.32	1,959.37	-1,954.57	-139.17	1,959.52	184.07	1.33	0.00	147 °F	Green	10/19/14	12:56	264 (gpm)
95	6,326.00	90.60	181.90	4,743.08	1,989.35	-1,984.56	-140.08	1,989.50	184.04	1.41	0.00	149 °F	Green	10/19/14	13:45	264 (gpm)
96	6,356.00	90.00	181.70	4,742.92	2,019.34	-2,014.54	-141.03	2,019.47	184.00	2.11	0.00	149 °F	Green	10/19/14	15:06	264 (gpm)
97	6,385.00	88.70	181.20	4,743.25	2,048.32	-2,043.53	-141.76	2,048.44	183.97	4.80	0.00	149 °F	Green	10/19/14	16:04	264 (gpm)
98	6,415.00	88.60	180.90	4,743.96	2,078.29	-2,073.52	-142.31	2,078.40	183.93	1.05	0.00	149 °F	Green	10/19/14	16:44	264 (gpm)
99	6,445.00	88.80	181.20	4,744.64	2,108.26	-2,103.50	-142.86	2,108.35	183.89	1.20	0.00	151 °F	Green	10/19/14	17:26	264 (gpm)
100	6,475.00	88.90	180.90	4,745.24	2,138.23	-2,133.49	-143.41	2,138.31	183.85	1.05	0.00	151 °F	Green	10/19/14	18:14	264 (gpm)
101	6,504.00	89.10	180.90	4,745.75	2,167.20	-2,162.49	-143.86	2,167.27	183.81	0.69	0.00	153 °F	Green	10/19/14	19:07	264 (gpm)
102	6,534.00	89.20	181.10	4,746.19	2,197.17	-2,192.48	-144.39	2,197.23	183.77	0.75	0.00	153 °F	Green	10/19/14	19:55	264 (gpm)
103	6,564.00	89.50	180.90	4,746.53	2,227.14	-2,222.47	-144.91	2,227.19	183.73	1.20	0.00	153 °F	Green	10/19/14	20:21	264 (gpm)
104	6,594.00	89.60	181.10	4,746.77	2,257.12	-2,252.47	-145.44	2,257.16	183.69	0.75	0.00	153 °F	Green	10/19/14	21:48	264 (gpm)
105	6,624.00	89.90	181.10	4,746.90	2,287.09	-2,282.46	-146.01	2,287.13	183.66	1.00	0.00	154 °F	Green	10/19/14	22:50	264 (gpm)
106	6,655.00	90.30	181.10	4,746.85	2,318.07	-2,313.45	-146.61	2,318.09	183.63	1.29	0.00	154 °F	Green	10/20/14	0:08	264 (gpm)
107	6,685.00	89.60	181.60	4,746.87	2,348.05	-2,343.45	-147.31	2,348.07	183.60	2.87	0.00	154 °F	Green	10/20/14	0:41	264 (gpm)
108	6,715.00	89.10	181.80	4,747.21	2,378.03	-2,373.43	-148.20	2,378.05	183.57	1.80	0.00	154 °F	Green	10/20/14	1:43	264 (gpm)
109	6,745.00	89.30	181.50	4,747.63	2,408.02	-2,403.41	-149.07	2,408.03	183.55	1.20	0.00	154 °F	Green	10/20/14	2:28	264 (gpm)
110	6,775.00	89.50	181.70	4,747.95	2,438.00	-2,433.40	-149.90	2,438.01	183.53	0.94	0.00	156 °F	Green	10/20/14	3:14	264 (gpm)
111	6,805.00	89.80	181.70	4,748.13	2,467.99	-2,463.39	-150.79	2,468.00	183.50	1.00	0.00	156 °F	Green	10/20/14	4:08	264 (gpm)
112	6,836.00	89.80	181.90	4,748.24	2,498.98	-2,494.37	-151.77	2,498.99	183.48	0.65	0.00	156 °F	Green	10/20/14	5:24	264 (gpm)
113	6,867.00	90.20	182.10	4,748.24	2,529.97	-2,525.35	-152.85	2,529.97	183.46	1.44	0.00	156 °F	Green	10/20/14	6:06	264 (gpm)

MWD SURVEYS

Customer: Tapstone Energy
Well: Bill 34-34-10 #1H
Field/Block: Mississippi Lime
Co./Parish: Barber Co.
State: KS

PGS Job #: LKS6114214
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: October 12, 2014
Date of Last Survey: October 23, 2014



Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

	<i>Measured</i>		<i>Coordinates</i>				<i>Closure</i>			<i>Mtr Yield</i>	<i>Temp (°F)</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>Color</i>	<i>Date</i>	<i>Time</i>	<i>Flow Rate</i>
114	6,897.00	90.60	182.50	4,748.03	2,559.96	-2,555.33	-154.05	2,559.97	183.45	1.89	0.00	156 °F	Green	10/20/14	6:59	264 (gpm)
115	6,959.00	89.80	182.90	4,747.81	2,621.96	-2,617.26	-156.97	2,621.96	183.43	1.44	0.00	156 °F	Green	10/20/14	8:48	264 (gpm)
116	6,988.00	90.10	183.00	4,747.84	2,650.96	-2,646.22	-158.47	2,650.96	183.43	1.09	0.00	156 °F	Green	10/20/14	9:56	264 (gpm)
117	7,048.00	88.60	183.00	4,748.52	2,710.95	-2,706.13	-161.61	2,710.95	183.42	2.50	0.00	156 °F	Green	10/20/14	10:56	264 (gpm)
118	7,078.00	88.90	183.10	4,749.17	2,740.94	-2,736.08	-163.20	2,740.95	183.41	1.05	0.00	156 °F	Green	10/20/14	11:57	264 (gpm)
119	7,141.00	89.70	183.80	4,749.94	2,803.94	-2,798.96	-166.99	2,803.94	183.41	1.69	0.00	158 °F	Green	10/20/14	13:27	264 (gpm)
120	7,172.00	90.10	184.10	4,750.00	2,834.94	-2,829.89	-169.13	2,834.94	183.42	1.61	0.00	156 °F	Green	10/20/14	14:46	264 (gpm)
121	7,204.00	90.20	184.20	4,749.91	2,866.93	-2,861.80	-171.44	2,866.94	183.43	0.44	0.00	147 °F	Yellow	10/21/14	4:51	200 (gpm)
122	7,267.00	89.50	184.30	4,750.08	2,929.92	-2,924.63	-176.11	2,929.93	183.45	1.12	0.00	147 °F	Yellow	10/21/14	6:29	200 (gpm)
123	7,298.00	89.40	184.40	4,750.37	2,960.92	-2,955.54	-178.46	2,960.92	183.46	0.46	0.00	149 °F	Yellow	10/21/14	7:14	215 (gpm)
124	7,361.00	89.90	184.40	4,750.76	3,023.91	-3,018.35	-183.30	3,023.91	183.48	0.79	0.00	151 °F	Yellow	10/21/14	8:33	215 (gpm)
125	7,425.00	89.30	183.30	4,751.21	3,087.90	-3,082.21	-187.60	3,087.91	183.48	1.96	0.00	151 °F	Green	10/21/14	9:32	215 (gpm)
126	7,456.00	88.90	183.10	4,751.69	3,118.90	-3,113.15	-189.33	3,118.91	183.48	1.44	0.00	151 °F	Green	10/21/14	10:32	215 (gpm)
127	7,487.00	89.30	182.90	4,752.18	3,149.89	-3,144.11	-190.95	3,149.90	183.48	1.44	0.00	151 °F	Green	10/21/14	11:13	215 (gpm)
128	7,551.00	90.20	182.50	4,752.46	3,213.89	-3,208.03	-193.96	3,213.89	183.46	1.54	0.00	151 °F	Green	10/21/14	12:30	243 (gpm)
129	7,582.00	90.60	182.90	4,752.24	3,244.88	-3,239.00	-195.42	3,244.89	183.45	1.82	0.00	153 °F	Green	10/21/14	13:11	243 (gpm)
130	7,645.00	90.80	183.00	4,751.47	3,307.88	-3,301.91	-198.66	3,307.88	183.44	0.35	0.00	153 °F	Green	10/21/14	14:26	243 (gpm)
131	7,676.00	90.70	182.90	4,751.07	3,338.87	-3,332.87	-200.26	3,338.88	183.44	0.46	0.00	154 °F	Green	10/21/14	15:17	243 (gpm)
132	7,708.00	90.80	183.00	4,750.65	3,370.87	-3,364.82	-201.91	3,370.87	183.43	0.44	0.00	154 °F	Green	10/21/14	15:58	250 (gpm)
133	7,740.00	90.90	183.10	4,750.17	3,402.87	-3,396.77	-203.61	3,402.87	183.43	0.44	0.00	153 °F	Green	10/21/14	17:05	250 (gpm)
134	7,772.00	89.90	183.40	4,749.95	3,434.87	-3,428.72	-205.42	3,434.87	183.43	3.26	0.00	154 °F	Yellow	10/21/14	18:01	250 (gpm)
135	7,835.00	90.40	183.60	4,749.79	3,497.87	-3,491.60	-209.27	3,497.87	183.43	0.85	0.00	156 °F	Yellow	10/21/14	19:47	250 (gpm)
136	7,866.00	89.90	183.80	4,749.70	3,528.86	-3,522.54	-211.27	3,528.87	183.43	1.74	0.00	156 °F	Yellow	10/21/14	21:00	250 (gpm)
137	7,898.00	89.20	184.10	4,749.96	3,560.86	-3,554.46	-213.47	3,560.87	183.44	2.38	0.00	156 °F	Yellow	10/21/14	22:28	250 (gpm)
138	7,930.00	88.00	183.70	4,750.74	3,592.85	-3,586.38	-215.65	3,592.85	183.44	3.95	0.00	156 °F	Yellow	10/21/14	23:24	250 (gpm)
139	7,962.00	89.10	183.30	4,751.55	3,624.84	-3,618.31	-217.60	3,624.84	183.44	3.66	0.00	156 °F	Yellow	10/22/14	0:20	250 (gpm)
140	7,993.00	89.30	183.60	4,751.98	3,655.84	-3,649.25	-219.47	3,655.84	183.44	1.16	0.00	158 °F	Yellow	10/22/14	1:20	250 (gpm)
141	8,025.00	89.30	183.40	4,752.37	3,687.83	-3,681.18	-221.42	3,687.84	183.44	0.62	0.00	158 °F	Yellow	10/22/14	2:36	250 (gpm)
142	8,088.00	88.80	183.00	4,753.42	3,750.82	-3,744.08	-224.94	3,750.83	183.44	1.02	0.00	158 °F	Yellow	10/22/14	5:00	250 (gpm)

MWD SURVEYS

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

PGS Job #: LKS6114214
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: October 12, 2014
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Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

	<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>
143	8,120.00	89.10	183.00	4,754.00	3,782.82	-3,776.03	-226.61	3,782.82	183.43	0.94	0.00	158 °F	Yellow	10/22/14	6:14	250 (gpm)
144	8,151.00	90.20	183.20	4,754.19	3,813.82	-3,806.98	-228.29	3,813.82	183.43	3.61	0.00	158 °F	Yellow	10/22/14	7:16	250 (gpm)
145	8,213.00	89.90	182.00	4,754.14	3,875.81	-3,868.92	-231.10	3,875.81	183.42	2.00	0.00	160 °F	Yellow	10/22/14	9:14	250 (gpm)
146	8,244.00	89.70	181.70	4,754.25	3,906.80	-3,899.90	-232.10	3,906.80	183.41	1.16	0.00	160 °F	Yellow	10/22/14	10:17	250 (gpm)
147	8,307.00	89.50	181.80	4,754.69	3,969.77	-3,962.87	-234.03	3,969.77	183.38	0.35	0.00	160 °F	Yellow	10/22/14	12:26	250 (gpm)
148	8,370.00	90.10	182.40	4,754.91	4,032.76	-4,025.83	-236.33	4,032.76	183.36	1.35	0.00	160 °F	Yellow	10/22/14	13:36	250 (gpm)
149	8,402.00	90.20	182.40	4,754.82	4,064.75	-4,057.80	-237.67	4,064.75	183.35	0.31	0.00	160 °F	Yellow	10/22/14	14:10	250 (gpm)
150	8,433.00	91.20	182.70	4,754.44	4,095.75	-4,088.76	-239.05	4,095.75	183.35	3.37	0.00	160 °F	Yellow	10/22/14	14:47	250 (gpm)
151	8,496.00	92.00	183.30	4,752.68	4,158.72	-4,151.65	-242.35	4,158.72	183.34	1.59	0.00	160 °F	Yellow	10/22/14	15:50	250 (gpm)
152	8,527.00	91.80	183.30	4,751.66	4,189.70	-4,182.58	-244.13	4,189.70	183.34	0.65	0.00	160 °F	Yellow	10/22/14	16:37	250 (gpm)
153	8,559.00	90.90	182.90	4,750.90	4,221.69	-4,214.53	-245.86	4,221.69	183.34	3.08	0.00	160 °F	Yellow	10/22/14	17:23	250 (gpm)
154	8,591.00	90.00	182.50	4,750.65	4,253.69	-4,246.49	-247.37	4,253.69	183.33	3.08	0.00	160 °F	Pink	10/22/14	18:40	250 (gpm)
155	8622.00	89.70	182.40	4,750.73	4,284.69	-4,277.46	-248.70	4,284.69	183.33	1.02	0.00	160 °F	Yellow	10/22/14	19:40	250 (gpm)
156	8654.00	91.00	182.40	4,750.54	4,316.68	-4,309.43	-250.04	4,316.68	183.32	4.06	0.00	162 °F	Yellow	10/22/14	20:22	250 (gpm)
157	8686.00	91.70	182.40	4,749.78	4,348.67	-4,341.40	-251.37	4,348.67	183.31	2.19	0.00	160 °F	Yellow	10/22/14	21:21	250 (gpm)
158	8717.00	90.10	182.50	4,749.30	4,379.66	-4,372.36	-252.70	4,379.66	183.31	5.17	0.00	160 °F	Yellow	10/22/14	22:32	250 (gpm)
159	8748.00	87.80	181.80	4,749.86	4,410.64	-4,403.33	-253.86	4,410.65	183.30	7.76	0.00	160 °F	Yellow	10/22/14	23:15	250 (gpm)
160	8780.00	88.00	181.90	4,751.04	4,442.61	-4,435.30	-254.89	4,442.61	183.29	0.70	0.00	160 °F	Yellow	10/23/14	0:12	250 (gpm)
161	8811.00	88.80	182.40	4,751.90	4,473.59	-4,466.26	-256.06	4,473.60	183.28	3.04	0.00	160 °F	Yellow	10/23/14	1:18	250 (gpm)
162	8843.00	89.10	182.60	4,752.49	4,505.58	-4,498.23	-257.45	4,505.59	183.28	1.13	0.00	162 °F	Yellow	10/23/14	2:12	250 (gpm)
163	8874.00	88.90	182.70	4,753.03	4,536.58	-4,529.19	-258.89	4,536.58	183.27	0.72	0.00	162 °F	Yellow	10/23/14	3:20	250 (gpm)
164	8906.00	88.90	182.70	4,753.64	4,568.57	-4,561.15	-260.39	4,568.57	183.27	0.00	0.00	162 °F	Yellow	10/23/14	4:30	250 (gpm)
165	8938.00	88.80	182.70	4,754.29	4,600.56	-4,593.10	-261.90	4,600.57	183.26	0.31	0.00	162 °F	Yellow	10/23/14	5:38	250 (gpm)
166	8969.00	88.50	182.90	4,755.02	4,631.55	-4,624.06	-263.41	4,631.56	183.26	1.16	0.00	162 °F	Yellow	10/23/14	6:26	250 (gpm)
167	8991.00	88.20	182.70	4,755.65	4,653.54	-4,646.02	-264.49	4,653.55	183.26	1.64	0.00	162 °F	Yellow	10/23/14	6:59	250 (gpm)
TD	9046.00	88.20	182.70	4,757.38	4,708.51	-4,700.94	-267.08	4,708.52	183.25	0.00						

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Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

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 Date of Last Survey: October 23, 2014



Total Correction: 4.46 East Grid

Vertical Section Plane: 183.35 Nominal Dip Angle: 65.07 Magnetic Field Strength: 0.515

<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: Bill 34-34-10 #1H
 Field/Block: Mississippi Lime
 Co./Parish: Barber Co.
 State: KS

PGS Job #: LKS6114214
 MWD Operator: Ken Mitchell
 Directional Driller: Kyle Underwood
 Date of First Survey: October 12, 2014
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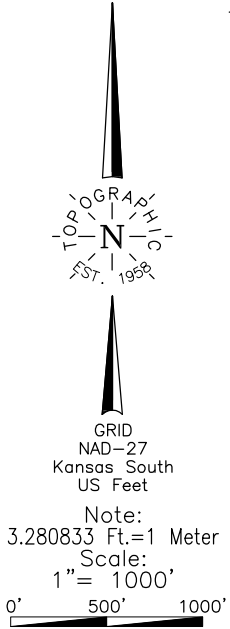
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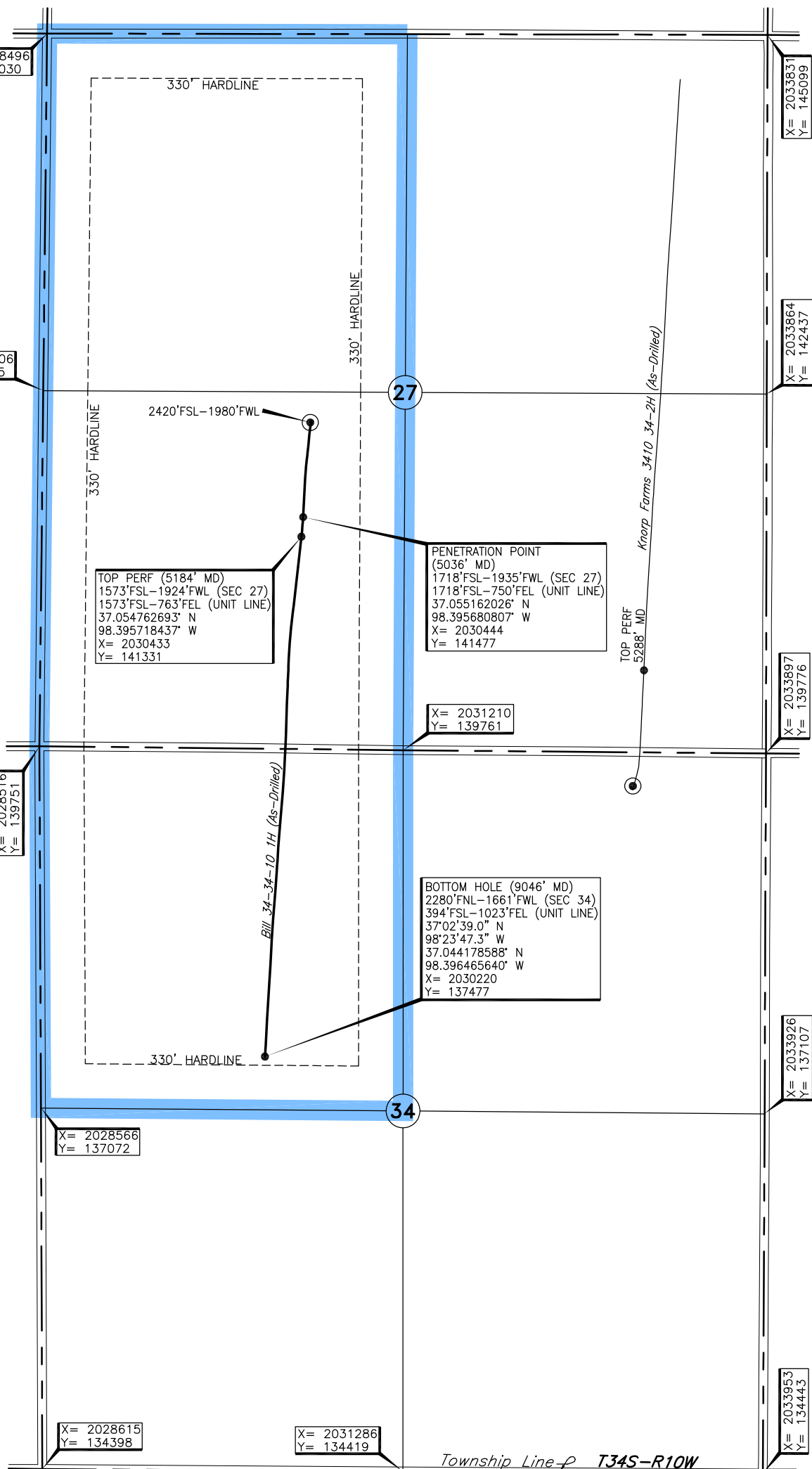
TOPOGRAPHIC LAND SURVEYORS

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

2420'FSL-1980'FWL Section 27 Township 34S Range 10W P.M. County, Kansas



Operator: TAPSTONE ENERGY
 Lease Name: BILL 34-34-10
 Topography & Vegetation: Loc. fell in cut field ±170' South of top bank of field drain berm
 Good Drill Site? Yes
 Reference Stakes or Alternate Location: Stakes Set None
 Best Accessibility to Location: From West off county road
 Distance & Direction: From Hazelton, KS, go ±2.5 mi., South to the West Quarter corner of Section 27 T34S-R10W
 Well No.: 1H
ELEVATION:
1318' Gr. at Stake



A boundary survey of the said section(s) shown hereon was not performed per the request of the operator shown hereon.

This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy.
 DATUM: NAD-27
 LAT: 37°03'25.5"N
 LONG: 98°23'43.9"W
 LAT: 37.057088468°N
 LONG: 98.395532579°W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2030487
 Y: 142178

233532 Date of Drawing: Oct. 29, 2014
 Invoice # 227629 Date Staked: Aug. 18, 2014 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
 FURNISHED BY TAPSTONE ENERGY

Cement Job Summary

Job Number: 61516	Job Purpose: 01 Surface		
Customer: TAPSTONE ENERGY	Date: 10/12/2014		
Well Name: Bill 34-34-10	Number: 1H	API/UWI:	
County: Barber	City: Kiowa	State: KS	
Cust. Rep: Skipper Grape	Phone: 0	Rig Phone: 0	
Distance: 25 miles (one way)	Supervisor: Jon Burgess		

Employees:	Emp. ID:	Employees:	Emp. ID:
Jon Burgess		James Guyton	
Thomas Gibson			

Equipment:	Emp. ID:	Emp. ID:
	984	819-823
	892-555	

Materials - Pumping Schedule

STAGE #1

Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Spacer 1	Fresh Water	10	8.33	n/a	n/a
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Lead 1	ALLIED LIGHT WEIGHT CEMENT: TYPE 1 - CLASS	255	12.70	1.87	10.05
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Tail 1	CLASS A COMMON	150	15.60	1.20	5.22
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)
Disp. 1	Displacement	59.5	8.33	n/a	n/a

Slurry: Lead 1		Slurry Name: ALLIED LIGHT WEIGHT CEMENT: TYPE 1 - CLASS A				
Quantity:	255 sacks	Blend Vol:	290.23 cu.ft.	Blend Weight:	24023.55 lbs	
Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
Class A	Cement Premium Class A	61.1	% Base Materia	15580.5	lbm	
POZ	Pozmix Flyash C	25.9	% Base Materia	6604.5	lbm	
PGEL	Premium Gel - Bentonite	5.22	% BWOC	1331.1	lbm	
CACL	Calcium Chloride	1.74	% BWOC	443.7	lbm	
FLSL	Flo-Seal	0.25	lb/sk	63.8	lbm	
Water	Mixing Water	10.05	gal/sk	2562.75	gal	

Slurry: Tail 1		Slurry Name: CLASS A COMMON				
Quantity:	150 sacks	Blend Vol:	158.09 cu.ft.	Blend Weight:	14419.5 lbs	
Material	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
Class A	Cement Premium Class A	94	% Base Materia	14100.0	lbm	
CACL	Calcium Chloride	1.88	% BWOC	282.0	lbm	
FLSL	Flo-Seal	0.25	lb/sk	37.5	lbm	
Water	Mixing Water	5.22	gal/sk	783.0	gal	

Job Number: 61516	Job Purpose: 01 Surface				
Customer: TAPSTONE ENERGY	Date: 10/12/2014				
Well Name: Bill 34-34-10	Number: 1H	API/UWI:			
County: Barber	City: Kiowa	State: KS			
Cust. Rep: Skipper Grape	Phone: 0	Rig Phone: 0			
Distance: 25 miles (one way)	Supervisor: Jon Burgess				
Activity Description	Date	Time	Volume	Pressure	Comments

Cement Job Summary

Arrive at Location	10/11/2014	11:30 AM			Meet w/ CM
Pre-Rig Up Safety Meeting	10/11/2014	11:45 AM			
Rig-Up Equipment	10/12/2014	12:00 AM			
Rig-Up Completed	10/12/2014	12:45 AM			
Pre-Job Safety Meeting	10/12/2014	12:52 AM			
Test Lines	10/12/2014	1:22 AM		2500	2500psi
Pump Spacer 1	10/12/2014	1:24 AM	10	340	Fresh Water
Pump Lead Cement 1	10/12/2014	1:27 AM	85	440	255sks @ 12.7ppg
Pump Tail Cement 1	10/12/2014	1:38 AM	32	250	150sks @ 15.6ppg
Drop Plug	10/12/2014	1:46 AM			Top Rubber Plug
Pump Displacement	10/12/2014	1:47 AM	59.5	500	Fresh Water
Cement Returns to Surface	10/12/2014	1:52 AM			30bbl Cement to Surface
Bump Plug	10/12/2014	1:57 AM		850	350psi Final Lift Pressure
Check Floats	10/12/2014	1:59 AM			0.25bbl Back
Post Job Safety Meeting	10/12/2014	2:00 AM			
Rig-Down Equipment	10/12/2014	2:05 AM			
Rig-Down Completed	10/12/2014	2:45 AM			
Depart Location	10/12/2014	3:00 AM			THANK YOU

Field Ticket Number: 61516 Field Ticket Date: Sunday, October 12, 2014

Bill To:
TAPSTONE ENERGY
210 Park Ave Ste 1350
Oklahoma City, OK 73102

Job Name: 01 Surface
Well Name: Bill 34-34-10
Well Number: 1H
Shipping Point: Medicine Lodge, KS USA
Sales Office: Midcon BD

SERVICES - SERVICES - SERVICES

Description	QTY	UCM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
Casing Pump Charge 500' to 1000'	1.00	for 6 hours	2,058.50	2058.50	1,440.95	30%	1,440.95
Cementing Head Rental with Manifold (Low Pres	1.00	per day	275.00	275.00	192.50	30%	192.50
Circulating Iron	1.00	per day	450.00	450.00	315.00	30%	315.00
Products handling service charge	448.31	per cu. FL	2.48	1111.81	1.74	30%	778.27
Drayage for Products	480.54	ton-mile	2.60	1249.40	1.82	30%	874.58
Light Vehicle Mileage	25.00	per mile	4.40	110.00	3.08	30%	77.00
Heavy Vehicle Mileage	50.00	per mile	7.70	385.00	5.39	30%	269.50

MATERIALS - MATERIALS - MATERIALS

9 5/8 Top Rubber Plug	1.00	each	184.86	184.86	129.40	30%	129.40
ALLIED LIGHT WEIGHT CEMENT: TYPE 1 - CL	255.00	per sack	16.50	4,207.50	11.55	30%	2,945.25
Calcium Chloride	6.00	per sack	64.00	384.00	44.80	30%	268.80
Flo Seal	64.00	per pound	2.97	190.08	2.08	30%	133.06
CLASS A COMMON	150.00	per sack	17.90	2,685.00	12.53	30%	1,879.50
Calcium Chloride	4.00	per sack	64.00	256.00	44.80	30%	179.20
Flo Seal	38.00	per pound	2.97	112.86	2.08	30%	79.00

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours	0.00	per hour	440.00	0.00	308.00	30%	0.00
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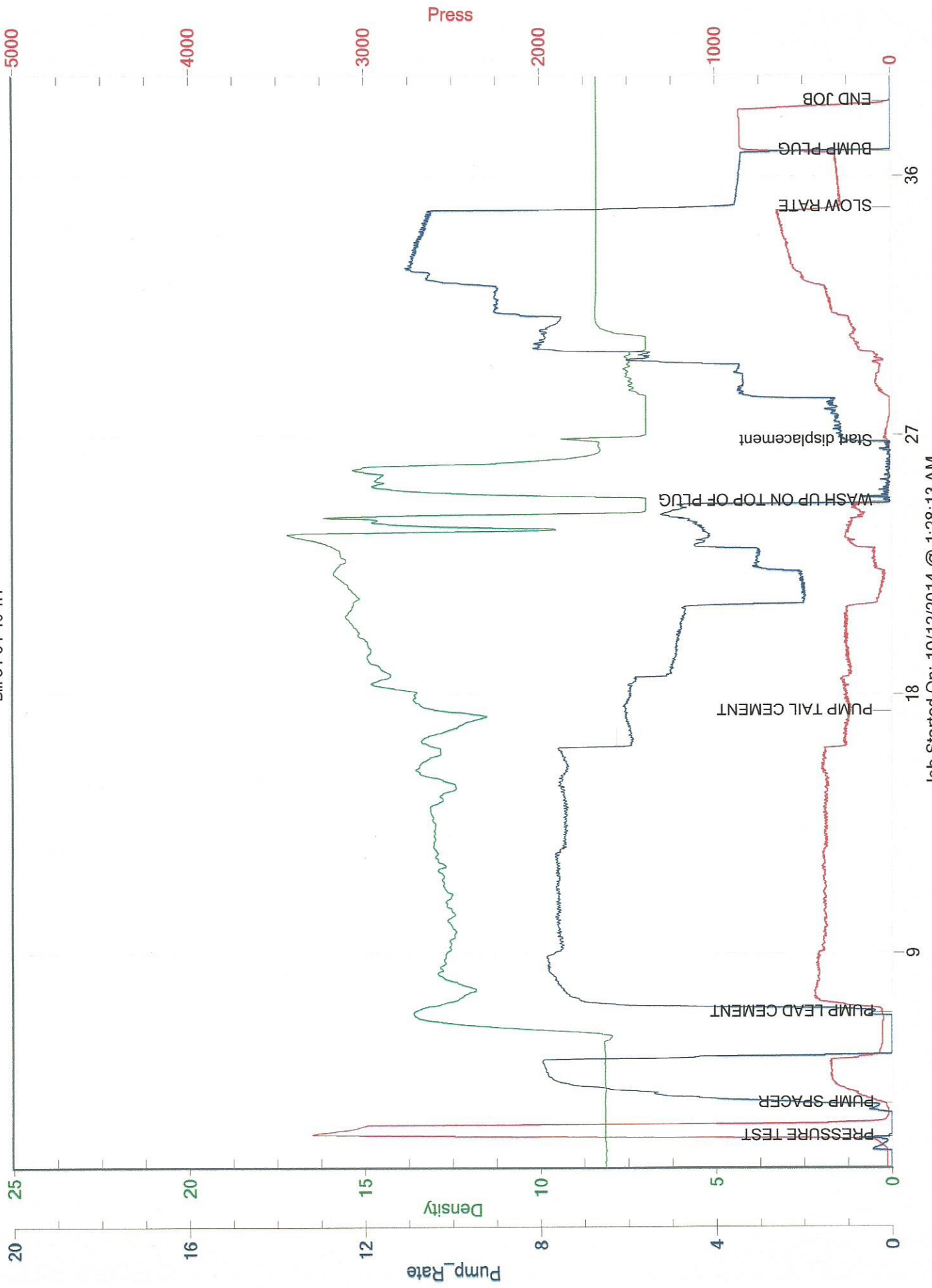
	Gross	Discount	Final
Services Total	5,639.71	1,691.91	3,947.80
Materials Total	8,020.30	2,406.09	5,614.21
Additional Items	0.00	0.00	0.00
Final Total	13,660.01	4,098.00	9,562.01

Allied Rep: Jon Burgess
Customer Agent: Skipper Grape

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X _____ Field Ticket Total (USD): **\$9,562.01**
Customer Signature

Tapstone Energy
Bill 34-34-10 1H



Job Started On: 10/12/2014 @ 1:28:13 AM

THANK YOU

BBLs

PSI BLEEDBACK

PSI BUMP PLUG TO 1400

850

FINAL DISP. PRESS:

TIME	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	Bbls Min. RATE	REMARKS
1000PM							On loc. safety, safety rig up. Run casing size on bottom safety meeting.
10/17/14				1/4 BBL		24	Press test
118AM				20 BBL		5	Pump spacer/bottom plug TOS 2102
122AM				33 BBL		6	Mixing 1d cement slurry TOC 3348
127AM				19 BBL		5 1/2	Mixing 7d cement slurry TOC 4398 Shutdown/Release top plug
130AM							
134AM						6	Start displacement
350				60 BBL		6	
4150				100 BBL		6	
500				120 BBL		6	
600				140 BBL		6	
750				160 BBL		5 1/2	
900				170 BBL		5 1/2	
850				175 BBL		3	Slow to bump plug
1400				188 BBL		0	Bump plug Flow did hold

COMPANY REPRESENTATIVE: Buck Foyle

CEMENTER: Jason Thirerch

PERFORATIONS: From _____ ft to _____ ft Amt. _____

ANNULUS: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

DRILL PIPE: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

OPEN HOLES: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

CASING: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

CAPACITY FACTORS:

Open Hole: Size _____ ft. P.B. to _____ ft.

Drill Pipe: Size _____ Collars _____ Weight _____ T.D. 5223

8 3/4

CASING DATA:

Size _____ Type _____ Weight _____ Collar _____

Surface Intermediate Production Liner Misc

Conductor PTA Squeeze Misc

Location: Vics Hot Springs KS

County: Barber

Lease: B. Hill

Well No.: T-H 34-24-10

Rig: Nor 7

Company: Tapstones

Date: 10/16/14

District: Andlodge KS

Ticket No.: 63050

Spacer Type: Super Flush 20 BBLs

LEAD: Pump Time hrs. Type _____

50:50 A: P2+2%

AMT: Sks Yield _____ ft³/sk Density _____

135 1.4

TALE: Pump Time hrs. Type _____

90 1.18

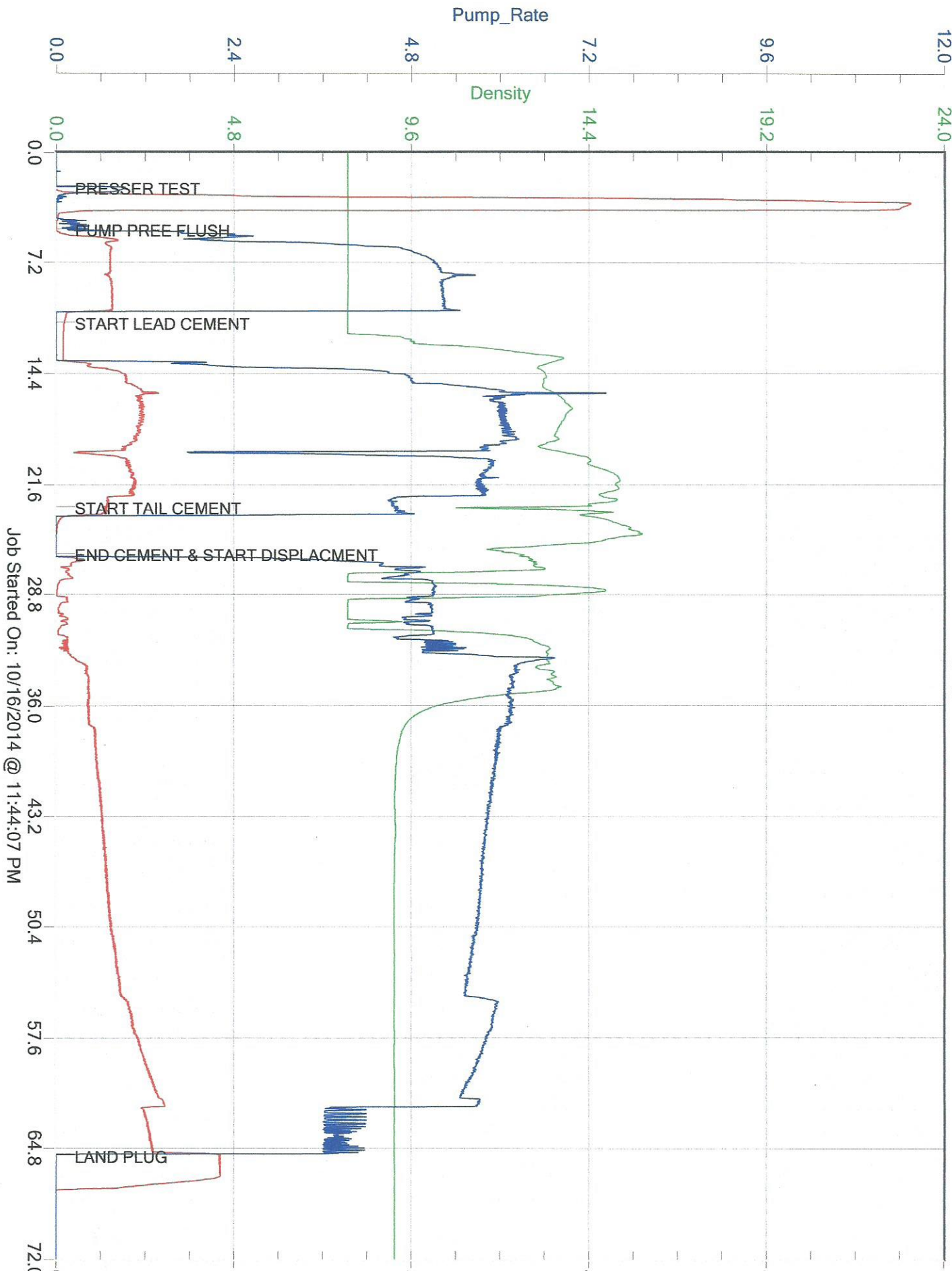
WATER: Lead gals/sk Tail _____

6.75 5.17

PUMP TRUCKS USED: 548/545 702/641

Bulk Equip.: _____

TAPSTONE
BILL 1-H



REMIT TO P.O. BOX 93999 SOUTH LAKE, TEXAS 76092

SERVICE POINT: Medicine Lodge KS

DATE	10/17/14	SEC	34	TWP	34	RANGE	10	CALLED OUT	5:00 PM	ON LOCATION	1:00 PM	JOB START	11:54 AM	JOB FINISH	2:15 AM
LEASE	B:ll		34-34D		WELL # 1-H		LOCATION Twp Rd + 2Hh (Hickston), 2 1/2 miles South, East into								
OLD OR NEW (Circle one)															

CONTRACTOR **Nomac #7**
 TYPE OF JOB **Intermediate**
 HOLE SIZE **8 3/4"**
 CASING SIZE **7"**
 TUBING SIZE **7"**
 DEPTH **5185'**
 DEPTH **5185'**
 DEPTH **5185'**
 MEAS. LINE **SHOE JOINT 87**
 CEMENT LEFT IN CSG. **87**
 PERFS.
 DISPLACEMENT **188 BBLs Fresh H₂O**

EQUIPMENT
 PUMP TRUCK **Cementer Jason Thimench**
 BULK TRUCK **# 548/545 Helper Justin Bowers**
 BULK TRUCK **# 702/643 Driver Kindl Hollins**
 BULK TRUCK
 DRIVER

REMARKS: **10/17/2014**
830.39
18964.55
10/17/2014
Beck type
10/17/2014

DEPTH OF JOB
 PUMP TRUCK CHARGE
 EXTRA FOOTAGE
 MILEAGE
 MANIFOLD
 CIRC IRON

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

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 above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)

PLUG & FLOAT EQUIPMENT

TOTAL 450.00

TOTAL SERVICE

CEMENT AMOUNT ORDERED **20 BBLs Super Flash 135SX**
50:50: Class A: 2% Gel + 4% FT-160 + 1% C-51
90:50: Class A + 8% FT-160 + 2% C-D-31

OWNER **Tapstone Energy**

10/16/14
 10/17/14

SERVICE POINT: Medicine Lodge KS

DATE	10/17/14	SEC.	34	TWP.	34	RANGE	10	CALLED OUT	5:00 PM	ON LOCATION	1:00 PM	JOB START	11:54 AM	JOB FINISH	2:15 AM	STATE	KS
LEASE	B:ll		34-34D		WELL # 1-H		LOCATION Twp. Rd + 2Hh (Hickston), 2 1/2 miles South, East into										

OWNER Tapstone Energy

CEMENT AMOUNT ORDERED 20 BBLs Super Flash 135sx
50:50 Class A: 6oz + 2% Gel + 4% FT-160 + 1% C-51
90sx Class A + 8% FT-160 + 2% C-D-31

CONTRACTOR Nomac #7
TYPE OF JOB Intermediate

T.D.	DEPTH 5185	TUBING SIZE	DEPTH	DRILL PIPE	DEPTH	TOOL	DEPTH	PRES. MAX	1400	MINIMUM	MEAS. LINE	SHOE JOINT	87	CEMENT LEFT IN CSG.	87	PERFS.	DISPLACEMENT	188 BBLs Fresh H ₂ O
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EQUIPMENT

PUMP TRUCK	CEMENTER Jason Thimerech	HELPER Justin Bowers	BULK TRUCK	# 548/545	BULK TRUCK	# 702/643	BULK TRUCK	# 702/643	DRIVER Kindl Hollins	DRIVER	
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REMARKS: 18964.55
Buck Type
10/17/2014

CHARGE TO: Tapstone Energy
CITY STATE ZIP

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 above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

COMMON	@	DEPTH OF JOB	PUMP TRUCK CHARGE	EXTRA FOOTAGE	@	MILEAGE	@	HANDLING	@	MILEAGE	TOTAL
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PLUG & FLOAT EQUIPMENT	DEPTH OF JOB	PUMP TRUCK CHARGE	EXTRA FOOTAGE	MILEAGE	@	MANIFOLD	@	MILEAGE	@	CIRC IRON	@	TOTAL
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SALES TAX (If Any)	Top Rubber Plus	Bottom Rubber Plus	@	@	@	@	TOTAL
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