

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252325
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: _____

1252325

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: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6117115
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: February 12, 2015
Date of Last Survey: February 22, 2015



Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

Measured Depth	Inc.	Az.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	Temp (°F)	Vib/Shk Color	Date	Time	Flow Rate	Hz	Watts	S/N	Comments	
					+N / -S	+E / -W	Dist.	Angle	Angle												
Survey's are tied into: Assume Vertical at Casing Shoe @ 803'																				Date Received:	02/12/15
Company:																					
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Green	02/12/15	11:34	563 (gpm)	4	10	20	Verified Downlink and changed watts to 8 due to good SNR	
1	818.00	0.50	313.00	817.99	2.53	2.43	-2.61	3.57	313.00	0.06	0.00	72 °F	Green	02/12/15	12:26	563 (gpm)	4	8	21		
2	1008.00	0.70	279.00	1,007.98	3.34	3.18	-4.36	5.40	306.10	0.21	0.00	75 °F	Green	02/12/15	13:17	563 (gpm)	4	8	20		
3	1197.00	0.90	237.90	1,196.96	2.82	2.57	-6.76	7.23	290.84	0.31	0.00	79 °F	Green	02/12/15	14:40	563 (gpm)	4	6	21	Downlink to 6 Watts SNR 21 with good clean signal	
4	1386.00	0.50	214.40	1,385.95	1.42	1.10	-8.48	8.56	277.41	0.26	0.00	86 °F	Green	02/12/15	16:47	563 (gpm)	4	6	19		
5	1576.00	0.50	210.00	1,575.94	0.05	-0.30	-9.37	9.37	268.18	0.02	0.00	93 °F	Green	02/12/15	18:00	563 (gpm)	4	6	21		
6	1763.00	0.40	261.50	1,762.94	-0.71	-1.10	-10.42	10.48	263.97	0.21	0.00	95 °F	Green	02/12/15	19:26	594 (gpm)	4	6	16		
7	1953.00	0.70	288.80	1,952.93	-0.37	-0.83	-12.18	12.20	266.12	0.21	0.00	97 °F	Green	02/12/15	20:55	594 (gpm)	4	6	16		
8	2141.00	0.60	266.40	2,140.92	0.01	-0.52	-14.24	14.25	267.92	0.14	0.00	101 °F	Green	02/12/15	22:15	594 (gpm)	4	6	12		
9	2327.00	0.70	261.50	2,326.90	-0.14	-0.75	-16.34	16.36	267.39	0.06	0.00	104 °F	Green	02/12/15	23:32	594 (gpm)	4	6	11		
10	2515.00	0.70	287.90	2,514.89	0.13	-0.56	-18.57	18.58	268.26	0.17	0.00	106 °F	Green	02/13/15	0:57	594 (gpm)	4	8	9.7	Downlink to 8 Watts Due to signal dropping to 8 S:N	
11	2701.00	0.20	282.90	2,700.88	0.60	-0.14	-19.97	19.97	269.59	0.27	0.00	110 °F	Green	02/13/15	2:50	594 (gpm)	4	10	6.7	Downlink to 10 Watts Due to signal dropping to 6 S:N	
12	2889.00	1.00	94.40	2,888.88	0.50	-0.19	-18.65	18.65	269.40	0.64	0.00	115 °F	Green	02/13/15	5:47	594 (gpm)	4	10	8.9		
13	3076.00	1.10	86.60	3,075.84	0.35	-0.21	-15.23	15.23	269.20	0.09	0.00	70 °F	Green	02/13/15	7:03	594 (gpm)	4	12	6.3	Downlink to 12 Watts Due to SNR @ 6.3	
14	3264.00	1.10	66.40	3,263.81	1.05	0.62	-11.78	11.79	273.00	0.21	0.00	86 °F	Green	02/13/15	8:31	594 (gpm)	4	12	5.2		
15	3455.00	0.50	66.70	3,454.79	2.03	1.68	-9.33	9.48	280.21	0.31	0.00	93 °F	Green	02/13/15	9:41	594 (gpm)	4	20	4.5	Downlink to 20 Watts Due to SNR @ 3.5 while rotating @ KOP	
16	3643.00	0.90	92.00	3,642.78	2.22	1.95	-7.10	7.37	285.38	0.26	0.00	96 °F	Green	02/13/15	11:22	594 (gpm)	4	28	4.6	Downlink to 28 Watts Due to SNR @ 3.3 while rotating @ KOP	
17	3831.00	1.30	88.10	3,830.74	2.10	1.97	-3.50	4.01	299.44	0.22	0.00	108 °F	Green	02/13/15	12:05	594 (gpm)	2.5	28	10	Downlink to change Hz to 2.5 and Custom downlink window =2 @ 30 minutes	
18	3925.00	1.20	84.30	3,924.72	2.16	2.11	-1.45	2.56	325.45	0.14	0.00	115 °F	Green	02/13/15	15:36	422 (gpm)	2.5	24	7.1	Downlink to 24 Watts @ MD 4,002'	
19	3987.00	2.40	22.40	3,986.69	3.38	3.37	-0.31	3.38	354.76	3.42	10.00	111 °F	Green	02/13/15	16:35	422 (gpm)	2.5	24	6.1	Downlink to 28 Watts Due to SNR @ 6.1	
20	4018.00	6.40	5.90	4,017.60	5.68	5.69	0.12	5.69	1.17	13.40	13.40	111 °F	Green	02/13/15	17:51	457 (gpm)	2.5	28	6.4		
21	4049.00	10.30	0.70	4,048.26	10.16	10.18	0.33	10.19	1.84	12.80	13.10	113 °F	Green	02/13/15	18:41	457 (gpm)	2.5	28	3.2		
22	4080.00	12.80	0.10	4,078.63	16.36	16.39	0.37	16.39	1.28	8.07	13.00	115 °F	Green	02/13/15	19:30	471 (gpm)	2.5	28	6.7		
23	4111.00	14.40	3.20	4,108.76	23.63	23.67	0.59	23.68	1.42	5.67	13.00	117 °F	Green	02/13/15	20:32	471 (gpm)	2.5	28	5.5		
24	4142.00	16.20	4.10	4,138.66	31.77	31.83	1.11	31.85	2.00	5.86	12.00	117 °F	Green	02/13/15	21:26	471 (gpm)	2.5	28	31	Hybrid setup	
25	4173.00	17.80	2.70	4,168.31	40.79	40.88	1.65	40.91	2.30	5.33	12.00	117 °F	Green	02/13/15	22:25	471 (gpm)	2.5	28	26	Downlink to 20 watts due to SNR @ 26	
26	4204.00	18.20	1.50	4,197.79	50.34	50.45	2.00	50.49	2.26	1.76	11.00	120 °F	Green	02/13/15	23:58	471 (gpm)	2.5	20	6.4		
27	4236.00	19.40	358.10	4,228.08	60.65	60.76	1.95	60.79	1.84	5.08	13.00	115 °F	Green	02/14/15	0:54	471 (gpm)	2.5	20	6		
28	4267.00	21.50	358.00	4,257.13	71.48	71.59	1.58	71.60	1.26	6.78	13.00	117 °F	Green	02/14/15	1:36	471 (gpm)	2.5	24	14	Downlink to 24 watts due to SNR dropping @ 6	
29	4298.00	24.20	357.90	4,285.69	83.51	83.61	1.15	83.62	0.79	8.71	15.00	117 °F	Green	02/14/15	2:30	471 (gpm)	2.5	24	7.7	Through Downlink	
30	4329.00	25.90	357.20	4,313.78	96.64	96.73	0.59	96.73	0.35	5.57	13.50	117 °F	Green	02/14/15	3:24	471 (gpm)	2.5	24	6.2		
31	4360.00	27.70	357.40	4,341.44	110.62	110.69	-0.07	110.69	359.96	5.81	13.00	117 °F	Green	02/14/15	4:07	471 (gpm)	2.5	24	18	Hybrid setup	
32	4392.00	30.00	357.90	4,369.47	126.05	126.12	-0.70	126.12	359.68	7.23	13.00	117 °F	Green	02/14/15	5:15	471 (gpm)	2.5	24	22		
33	4423.00	32.50	357.60	4,395.97	142.13	142.18	-1.34	142.19	359.46	8.08	13.50	119 °F	Green	02/14/15	5:54	471 (gpm)	2.5	24	16		
34	4454.00	34.70	357.30	4,421.79	159.29	159.32	-2.10	159.33	359.24	7.12	13.50	119 °F	Green	02/14/15	6:56	471 (gpm)	2.5	24	11		
35	4484.00	37.30	357.80	4,446.06	176.92	176.94	-2.85	176.96	359.08	8.72	13.80	120 °F	Green	02/14/15	7:41	471 (gpm)	2.5	24	11		
36	4515.00	40.70	356.90	4,470.15	196.42	196.42	-3.76	196.46	358.90	11.12	19.00	120 °F	Green	02/14/15	8:22	471 (gpm)	2.5	24	11		
37	4546.00	43.50	355.60	4,493.15	217.20	217.16	-5.12	217.22	358.65	9.46	13.90	120 °F	Green	02/14/15	9:01	471 (gpm)	2.5	24	11		
38	4577.00	46.30	354.70	4,515.10	239.05	238.96	-6.98	239.06	358.33	9.26	14.30	120 °F	Green	02/14/15	9:50	471 (gpm)	2.5	24	9.4		
39	4609.00	49.30	355.10	4,536.60	262.72	262.57	-9.08	262.72	358.02	9.42	15.80	120 °F	Green	02/14/15	10:34	471 (gpm)	2.5	24	7.6		
40	4640.00	52.50	356.80	4,556.14	286.76	286.56	-10.77	286.76	357.85	11.16	19.20	120 °F	Green	02/14/15	12:09	471 (gpm)	2.5	28	5.8	Downlink to 28 watts due to SNR	
41	4671.00	54.70	359.50	4,574.54	311.71	311.49	-11.57	311.71	357.87	9.97	17.60	122 °F	Green	02/14/15	13:36	471 (gpm)	2.5	28	6.3		
42	4703.00	56.80	359.80	4,592.55	338.14	337.94	-11.73	338.15	358.01	6.61	17.60	122 °F	Green	02/14/15	14:13	471 (gpm)	2.5	28	6.2		
43	4734.00	58.90	359.20	4,609.05	364.38	364.19	-11.96	364.38	358.12	6.97	19.60	125 °F	Green	02/14/15	14:53	492 (gpm)	2.5	28	7.2		
44	4766.00	61.20	358.70	4,625.02	392.10	391.91	-12.47	392.10	358.18	7.31	19.50	125 °F	Green	02/14/15	15:38	492 (gpm)	2.5	28	5.5		
45	4797.00	62.80	358.80	4,639.57	419.47	419.27	-13.07	419.47	358.21	5.17	20.00	127 °F	Green	02/14/15	16:15	492 (gpm)	2.5	28	4.6		
46	4828.00	63.00	358.60	4,653.70	447.06	446.86	-13.69	447.07	358.24	0.86	0.00	127 °F	Green	02/14/15	17:20	492 (gpm)	2.5	28	5		
47	4860.00	63.20	358.80	4,668.17	475.59	475.39	-14.34	475.61	358.27	0.84	0.00	127 °F	Green								
48	4891.00	63.60	358.60	4,682.05	503.31	503.10	-14.97	503.32	358.30	1.41	0.00	127 °F	Green								

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6117115
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: February 12, 2015
Date of Last Survey: February 22, 2015



Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

Measured Depth	Inc.	Az.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	Temp (°F)	Vib/Shk		Flow Rate	Hz	Watts	S/N	Comments	
					+N/-S	+E/-W	Dist.	Angle	Color				Date	Time						
49	4923.00	64.20	358.60	4,696.13	532.04	531.83	-15.67	532.06	358.31	1.88	0.00	126 °F	Green	02/14/15	18:13	492 (gpm)	2.5	24	4.7	Downlink tool to 24 Watts to conserve battery on reserve battery
50	4955.00	64.70	358.90	4,709.93	560.91	560.69	-16.30	560.93	358.33	1.78	0.00	126 °F	Green	02/14/15	19:05	492 (gpm)	2.5	24	5.8	
51	4987.00	65.40	358.00	4,723.43	589.92	589.70	-17.09	589.94	358.34	3.36	0.00	126 °F	Green	02/14/15	20:02	492 (gpm)	2.5	24	4.8	
52	5019.00	66.40	358.70	4,736.50	619.13	618.89	-17.93	619.15	358.34	3.71	15.00	124 °F	Green	02/14/15	21:30	492 (gpm)	2.5	24	5.2	
53	5051.00	69.70	358.30	4,748.46	648.81	648.56	-18.71	648.83	358.35	10.38	15.00	124 °F	Green	02/14/15	23:05	492 (gpm)	2.5	28	2.7	Downlink tool due to low S/N and not decoding during rotation.
54	5082.00	72.80	358.70	4,758.42	678.16	677.90	-19.47	678.18	358.35	10.07	17.00	124 °F	Green	02/15/15	1:24	492 (gpm)	1.5	28	3.7	Downlink tool to 1.5 Hz still on hybrid setup. Changed to 2.5 Hz and 33 Watts
55	5113.00	75.50	359.50	4,766.89	707.97	707.71	-19.94	708.00	358.39	9.06	17.00	124 °F	Green	02/15/15	4:23	492 (gpm)	2.5	40	2.2	Power tool up to 40 Watts rotated without communication able to get survey.
56	5144.00	78.00	359.40	4,773.99	738.13	737.89	-20.23	738.16	358.43	8.07	17.80	125 °F	Green	02/15/15	6:58	492 (gpm)	2.5	40	5.5	
57	5175.00	80.90	359.20	4,779.67	768.59	768.36	-20.60	768.63	358.46	9.38	18.10	127 °F	Green	02/15/15	8:12	492 (gpm)	2.5	40	8.8	
58	5205.00	84.00	358.90	4,783.61	798.32	798.09	-21.10	798.37	358.49	10.38	20.70	129 °F	Green	02/15/15	9:09	492 (gpm)	2.5	40	8.4	
59	5258.00	86.80	358.10	4,787.86	851.14	850.89	-22.48	851.19	358.49	5.49	0.00	133 °F	Green	02/16/15	21:23	228 (gpm)				
60	5290.00	87.40	358.00	4,789.48	883.10	882.83	-23.57	883.15	358.47	1.90	0.00	131 °F	Green	02/16/15	22:01	228 (gpm)				
61	5321.00	87.90	358.40	4,790.75	914.07	913.79	-24.54	914.12	358.46	2.06	0.00	131 °F	Green	02/16/15	22:48	228 (gpm)				
62	5353.00	89.10	359.50	4,791.59	946.06	945.78	-25.13	946.11	358.48	5.09	0.00	131 °F	Yellow	02/16/15	23:26	228 (gpm)				
63	5384.00	89.90	359.90	4,791.86	977.04	976.77	-25.29	977.10	358.52	2.89	0.00	131 °F	Yellow	02/17/15	0:05	228 (gpm)				
64	5416.00	90.60	359.00	4,791.72	1,009.03	1,008.77	-25.60	1,009.10	358.55	3.56	0.00	133 °F	Yellow	02/17/15	0:52	228 (gpm)				
65	5448.00	90.90	358.30	4,791.30	1,041.02	1,040.76	-26.35	1,041.09	358.55	2.38	0.00	133 °F	Yellow	02/17/15	1:17	228 (gpm)				
66	5479.00	91.30	358.00	4,790.70	1,072.01	1,071.74	-27.35	1,072.09	358.54	1.61	0.00	133 °F	Yellow	02/17/15	1:56	228 (gpm)				
67	5511.00	90.30	358.20	4,790.26	1,104.01	1,103.72	-28.41	1,104.08	358.53	3.19	0.00	135 °F	Yellow	02/17/15	2:30	228 (gpm)				
68	5542.00	90.60	357.60	4,790.01	1,135.01	1,134.69	-29.55	1,135.08	358.51	2.16	0.00	136 °F	Yellow	02/17/15	3:00	228 (gpm)				
69	5574.00	90.80	357.80	4,789.62	1,167.01	1,166.67	-30.83	1,167.07	358.49	0.88	0.00	136 °F	Yellow	02/17/15	3:43	228 (gpm)				
70	5605.00	89.90	357.50	4,789.43	1,198.00	1,197.64	-32.10	1,198.07	358.46	3.06	0.00	138 °F	Yellow	02/17/15	4:36	228 (gpm)				
71	5636.00	90.30	358.10	4,789.38	1,229.00	1,228.62	-33.29	1,229.07	358.45	2.33	0.00	138 °F	Yellow	02/17/15	5:18	228 (gpm)				
72	5668.00	90.50	358.00	4,789.16	1,261.00	1,260.60	-34.38	1,261.07	358.44	0.70	0.00	140 °F	Yellow	02/17/15	6:02	228 (gpm)				
73	5699.00	90.80	358.00	4,788.80	1,292.00	1,291.58	-35.46	1,292.06	358.43	0.97	0.00	140 °F	Yellow	02/17/15	6:51	228 (gpm)				
74	5730.00	90.00	358.30	4,788.59	1,323.00	1,322.56	-36.46	1,323.06	358.42	2.76	0.00	142 °F	Yellow	02/17/15	7:24	228 (gpm)				
75	5792.00	89.90	358.00	4,788.64	1,385.00	1,384.53	-38.47	1,385.06	358.41	0.51	0.00	142 °F	Yellow	02/17/15	8:29	253 (gpm)				
76	5853.00	89.30	357.20	4,789.07	1,446.00	1,445.47	-41.02	1,446.05	358.37	1.64	0.00	142 °F	Yellow	02/17/15	10:05	253 (gpm)				
77	5884.00	89.40	356.90	4,789.42	1,476.99	1,476.43	-42.61	1,477.04	358.35	1.02	0.00	142 °F	Yellow	02/17/15	11:23	253 (gpm)				
78	5944.00	89.80	357.30	4,789.84	1,536.98	1,536.35	-45.65	1,537.03	358.30	0.94	0.00	145 °F	Yellow	02/17/15	12:45	242 (gpm)				
79	5974.00	90.20	357.90	4,789.84	1,566.98	1,566.32	-46.91	1,567.02	358.28	2.40	0.00	142 °F	Yellow	02/17/15	13:54	242 (gpm)				
80	6005.00	90.80	357.60	4,789.57	1,597.98	1,597.30	-48.12	1,598.02	358.27	2.16	0.00	142 °F	Yellow	02/17/15	14:29	242 (gpm)				
81	6065.00	91.30	357.90	4,788.47	1,657.97	1,657.24	-50.48	1,658.01	358.26	0.97	0.00	147 °F	Yellow	02/17/15	15:36	242 (gpm)				
82	6125.00	90.90	356.50	4,787.32	1,717.95	1,717.16	-53.41	1,717.99	358.22	2.43	0.00	147 °F	Yellow	02/17/15	17:01	242 (gpm)				
83	6156.00	90.80	355.80	4,786.86	1,748.94	1,748.08	-55.49	1,748.96	358.18	2.28	0.00	147 °F	Yellow	02/17/15	17:58	242 (gpm)				
84	6216.00	90.90	355.10	4,785.97	1,808.88	1,807.89	-60.25	1,808.89	358.09	1.18	0.00	147 °F	Yellow	02/17/15	19:12	242 (gpm)				
85	6246.00	91.10	354.60	4,785.44	1,838.83	1,837.76	-62.94	1,838.84	358.04	1.79	0.00	149 °F	Yellow	02/17/15	19:54	242 (gpm)				
86	6307.00	90.70	355.40	4,784.48	1,899.75	1,899.52	-68.26	1,899.75	357.94	1.47	0.00	151 °F	Yellow	02/17/15	21:16	242 (gpm)				
87	6337.00	90.60	355.40	4,784.14	1,929.72	1,928.42	-70.66	1,929.72	357.90	0.33	0.00	151 °F	Yellow	02/17/15	21:58	242 (gpm)				
88	6368.00	90.60	355.70	4,783.82	1,960.69	1,959.33	-73.07	1,960.69	357.86	0.97	0.00	151 °F	Yellow	02/17/15	22:33	242 (gpm)				
89	6428.00	90.50	355.90	4,783.24	2,020.65	2,019.16	-77.46	2,020.65	357.80	0.37	0.00	151 °F	Yellow	02/17/15	23:51	242 (gpm)				
90	6488.00	90.50	357.00	4,782.72	2,080.63	2,079.04	-81.18	2,080.63	357.76	1.83	0.00	151 °F	Yellow	02/18/15	1:22	242 (gpm)				
91	6549.00	91.80	357.70	4,781.50	2,141.61	2,139.97	-84.00	2,141.61	357.75	2.42	0.00	153 °F	Yellow	02/18/15	2:59	242 (gpm)				
92	6609.00	92.00	358.10	4,779.51	2,201.58	2,199.89	-86.19	2,201.58	357.76	0.75	0.00	153 °F	Yellow	02/18/15	4:25	242 (gpm)				
93	6669.00	91.10	357.80	4,777.88	2,261.55	2,259.83	-88.34	2,261.56	357.76	1.58	0.00	154 °F	Yellow	02/18/15	5:57	242 (gpm)				
94	6700.00	91.00	358.00	4,777.32	2,292.55	2,290.80	-89.48	2,292.55	357.76	0.72	0.00	154 °F	Yellow	02/18/15	6:52	242 (gpm)				
95	6760.00	90.30	358.10	4,776.64	2,352.54	2,350.77	-91.52	2,352.55	357.77	1.18	0.00	156 °F	Yellow	02/18/15	8:22	242 (gpm)				
96	6791.00	90.20	357.80	4,776.50	2,383.54	2,381.75	-92.63	2,383.55	357.77	1.02	0.00	153 °F	Yellow	02/18/15	9:00	264 (gpm)				
97	6852.00	90.70	356.90	4,776.02	2,444.54	2,442.68	-95.45	2,444.54	357.76	1.69	0.00	151 °F	Yellow	02/18/15	10:27	264 (gpm)				
98	6882.00	90.80	356.60	4,775.63	2,474.53	2,472.63	-97.15	2,474.53	357.75	1.05	0.00	151 °F	Yellow	02/18/15	11:29	264 (gpm)				
99	6943.00	90.40	357.20	4,774.99	2,535.52	2,533.53	-100.45	2,535.52	357.73	1.18	0.00	140 °F	Yellow	02/19/15	1:25	242 (gpm)				

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6117115
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: February 12, 2015
Date of Last Survey: February 22, 2015



Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

Measured Depth	Inc.	Az.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	Temp (°F)	Vib/Shk		Date	Time	Flow Rate	Hz	Watts	S/N	Comments
					+N / -S	+E / -W	Dist.	Angle	Color												
100	7003.00	90.50	356.60	4,774.52	2,595.51	2,593.44	-103.69	2,595.52	357.71	1.01	0.00	140 °F	Yellow	02/19/15	2:39	242	(gpm)				
101	7064.00	90.60	355.80	4,773.93	2,656.48	2,654.31	-107.73	2,656.49	357.68	1.32	0.00	142 °F	Yellow	02/19/15	3:49	242	(gpm)				
102	7124.00	90.20	356.80	4,773.51	2,716.45	2,714.18	-111.60	2,716.47	357.65	1.80	0.00	144 °F	Yellow	02/19/15	4:45	242	(gpm)				
103	7185.00	90.70	357.30	4,773.03	2,777.44	2,775.10	-114.74	2,777.47	357.63	1.16	0.00	144 °F	Yellow	02/19/15	5:53	242	(gpm)				
104	7245.00	90.80	358.00	4,772.25	2,837.44	2,835.04	-117.20	2,837.46	357.63	1.18	0.00	144 °F	Yellow	02/19/15	7:01	242	(gpm)				
105	7306.00	90.60	358.70	4,771.50	2,898.43	2,896.01	-118.96	2,898.45	357.65	1.19	0.00	144 °F	Yellow	02/19/15	8:25	242	(gpm)				
106	7337.00	90.50	358.80	4,771.21	2,929.43	2,927.00	-119.64	2,929.44	357.66	0.46	0.00	145 °F	Yellow	02/19/15	9:16	242	(gpm)				
107	7368.00	90.70	358.90	4,770.88	2,960.42	2,957.99	-120.26	2,960.44	357.67	0.72	0.00	144 °F	Yellow	02/19/15	10:00	242	(gpm)				
108	7429.00	90.00	359.10	4,770.51	3,021.41	3,018.98	-121.32	3,021.42	357.70	1.19	0.00	145 °F	Yellow	02/19/15	11:25	242	(gpm)				
109	7489.00	89.30	359.50	4,770.88	3,081.39	3,078.98	-122.06	3,081.39	357.73	1.34	0.00	145 °F	Yellow	02/19/15	12:20	242	(gpm)				
110	7520.00	89.40	359.80	4,771.23	3,112.37	3,109.97	-122.25	3,112.38	357.75	1.02	0.00	145 °F	Yellow	02/19/15	13:39	242	(gpm)				
111	7552.00	90.10	360.00	4,771.37	3,144.35	3,141.97	-122.30	3,144.35	357.77	2.28	0.00	145 °F	Yellow	02/19/15	14:07	242	(gpm)				
112	7615.00	90.50	0.20	4,771.04	3,207.30	3,204.97	-122.19	3,207.30	357.82	0.71	0.00	145 °F	Yellow	02/19/15	15:56	242	(gpm)				
113	7646.00	90.60	0.20	4,770.74	3,238.27	3,235.97	-122.08	3,238.27	357.84	0.32	0.00	145 °F	Yellow	02/19/15	15:26	242	(gpm)				
114	7709.00	90.60	1.00	4,770.08	3,301.20	3,298.96	-121.42	3,301.20	357.89	1.27	0.00	147 °F	Yellow	02/19/15	16:26	242	(gpm)				
115	7740.00	90.40	1.40	4,769.81	3,332.14	3,329.95	-120.77	3,332.14	357.92	1.44	0.00	147 °F	Yellow	02/19/15	17:04	242	(gpm)				
116	7804.00	90.70	1.20	4,769.19	3,396.02	3,393.94	-119.32	3,396.03	357.99	0.56	0.00	147 °F	Yellow	02/19/15	19:17	242	(gpm)				
117	7867.00	90.50	359.90	4,768.54	3,458.95	3,456.93	-118.72	3,458.97	358.03	2.09	0.00	147 °F	Yellow	02/19/15	21:23	242	(gpm)				
118	7929.00	91.10	0.10	4,767.67	3,520.90	3,518.92	-118.72	3,520.92	358.07	1.02	0.00	149 °F	Yellow	02/19/15	22:54	242	(gpm)				
119	7992.00	91.20	359.50	4,766.41	3,583.85	3,581.91	-118.94	3,583.88	358.10	0.97	0.00	149 °F	Yellow	02/20/15	0:57	242	(gpm)				
120	8056.00	91.30	358.70	4,765.01	3,647.82	3,645.88	-119.94	3,647.86	358.12	1.26	0.00	149 °F	Yellow	02/20/15	2:45	242	(gpm)				
121	8118.00	91.30	358.20	4,763.60	3,709.80	3,707.85	-121.62	3,709.84	358.12	0.81	0.00	149 °F	Yellow	02/20/15	4:34	242	(gpm)				
122	8182.00	90.50	358.00	4,762.60	3,773.79	3,771.80	-123.74	3,773.83	358.12	1.29	0.00	149 °F	Yellow	02/20/15	6:38	242	(gpm)				
123	8214.00	90.50	358.20	4,762.32	3,805.79	3,803.78	-124.80	3,805.83	358.12	0.62	0.00	149 °F	Yellow	02/20/15	7:17	242	(gpm)				
124	8276.00	90.80	358.40	4,761.61	3,867.79	3,865.75	-126.64	3,867.83	358.12	0.58	0.00	149 °F	Yellow	02/20/15	9:54	242	(gpm)				
125	8339.00	90.60	358.00	4,760.84	3,930.78	3,928.72	-128.62	3,930.82	358.12	0.71	0.00	149 °F	Yellow	02/20/15	12:23	242	(gpm)				
126	8371.00	90.50	358.20	4,760.54	3,962.78	3,960.70	-129.68	3,962.82	358.12	0.70	0.00	151 °F	Yellow	02/20/15	13:49	242	(gpm)				
127	8402.00	89.50	357.60	4,760.54	3,993.78	3,991.67	-130.82	3,993.82	358.12	3.76	0.00	151 °F	Yellow	02/20/15	14:37	242	(gpm)				
128	8465.00	89.30	357.80	4,761.20	4,056.78	4,054.62	-133.34	4,056.81	358.12	0.45	0.00	153 °F	Yellow	02/20/15	16:09	242	(gpm)				
129	8497.00	89.50	358.00	4,761.53	4,088.77	4,086.60	-134.52	4,088.81	358.11	0.88	0.00	153 °F	Yellow	02/20/15	17:04	242	(gpm)				
130	8560.00	89.50	358.10	4,762.08	4,151.77	4,149.56	-136.66	4,151.81	358.11	0.16	0.00	151 °F	Yellow	02/20/15	19:27	242	(gpm)				
131	8623.00	90.30	357.90	4,762.19	4,214.77	4,212.52	-138.86	4,214.81	358.11	1.31	0.00	149 °F	Yellow	02/20/15	23:08	242	(gpm)				
132	8686.00	90.00	358.20	4,762.03	4,277.77	4,275.48	-141.00	4,277.81	358.11	0.67	0.00	149 °F	Yellow	02/21/15	1:09	242	(gpm)				
133	8748.00	90.30	358.00	4,761.86	4,339.77	4,337.45	-143.06	4,339.81	358.11	0.58	0.00	149 °F	Yellow	02/21/15	3:35	242	(gpm)				
134	8811.00	91.10	357.90	4,761.10	4,402.76	4,400.40	-145.31	4,402.80	358.11	1.28	0.00	149 °F	Yellow	02/21/15	5:45	242	(gpm)				
135	8842.00	91.30	357.90	4,760.45	4,433.76	4,431.37	-146.45	4,433.79	358.11	0.65	0.00	149 °F	Yellow	02/21/15	6:48	242	(gpm)				
136	8874.00	91.30	358.00	4,759.72	4,465.75	4,463.35	-147.59	4,465.79	358.11	0.31	0.00	151 °F	Yellow	02/21/15	7:54	242	(gpm)				
137	8937.00	91.60	358.00	4,758.13	4,528.73	4,526.29	-149.79	4,528.77	358.10	0.48	0.00	153 °F	Yellow	02/21/15	9:48	242	(gpm)				
138	9000.00	91.40	358.90	4,756.48	4,591.70	4,589.24	-151.49	4,591.74	358.11	1.46	0.00	153 °F	Yellow	02/21/15	12:19	242	(gpm)				
139	9032.00	91.00	359.20	4,755.81	4,623.69	4,621.23	-152.02	4,623.73	358.12	1.56	0.00	153 °F	Yellow	02/21/15	14:09	242	(gpm)				
140	9063.00	90.20	358.60	4,755.48	4,654.68	4,652.22	-152.62	4,654.73	358.12	3.23	0.00	153 °F	Yellow	02/21/15	15:16	242	(gpm)				
141	9126.00	90.20	358.80	4,755.26	4,717.67	4,715.21	-154.05	4,717.72	358.13	0.32	0.00	154 °F	Yellow	02/21/15	17:12	242	(gpm)				
142	9189.00	90.70	358.70	4,754.77	4,780.66	4,778.19	-155.42	4,780.72	358.14	0.81	0.00	154 °F	Yellow	02/22/15	10:57	232	(gpm)				
143	9221.00	90.80	359.30	4,754.35	4,812.66	4,810.18	-155.98	4,812.71	358.14	1.90	0.00	154 °F	Yellow	02/22/15	12:27	232	(gpm)				
144	9284.00	90.40	358.60	4,753.69	4,875.64	4,873.17	-157.14	4,875.70	358.15	1.28	0.00	156 °F	Yellow	02/22/15	14:45	232	(gpm)				
145	9315.00	89.90	358.80	4,753.61	4,906.64	4,904.16	-157.84	4,906.70	358.16	1.74	0.00	158 °F	Yellow	02/22/15	16:32	242	(gpm)				
146	9379.00	90.00	358.90	4,753.66	4,970.63	4,968.15	-159.12	4,970.69	358.17	0.22	0.00	160 °F	Yellow	02/22/15	18:28	242	(gpm)				
147	9443.00	90.10	358.80	4,753.61	5,034.62	5,032.13	-160.41	5,034.69	358.17	0.22	0.00	160 °F	Yellow	02/22/15	21:30	242	(gpm)				
148	9490.00	89.90	359.00	4,753.61	5,081.61	5,079.12	-161.31	5,081.69	358.18	0.60	0.00	160 °F	Yellow	02/22/15	23:29	242	(gpm)				
TD	9542.00	89.90	359.00	4,753.70	5,133.60	5,131.12	-162.22	5,133.68	358.19	0.00											

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6117115
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: February 12, 2015
Date of Last Survey: February 22, 2015



Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

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

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

MWD
SURVEYS

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Field/Block: Mississippi Lime
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Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

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

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
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Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

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

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
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Total Correction: 4.20 East Grid

Vertical Section Plane: 357.87 Nominal Dip Angle: 65.04 Magnetic Field Strength: 0.515

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

MWD
SURVEYS

Customer: Tapstone Energy
Well: Jones 6-35-8 1H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6117115
MWD Operator: Ken Mitchell
Directional Driller: Kyle Underwood
Date of First Survey: February 12, 2015
Date of Last Survey: February 22, 2015



Total Correction: 4.20 East Grid

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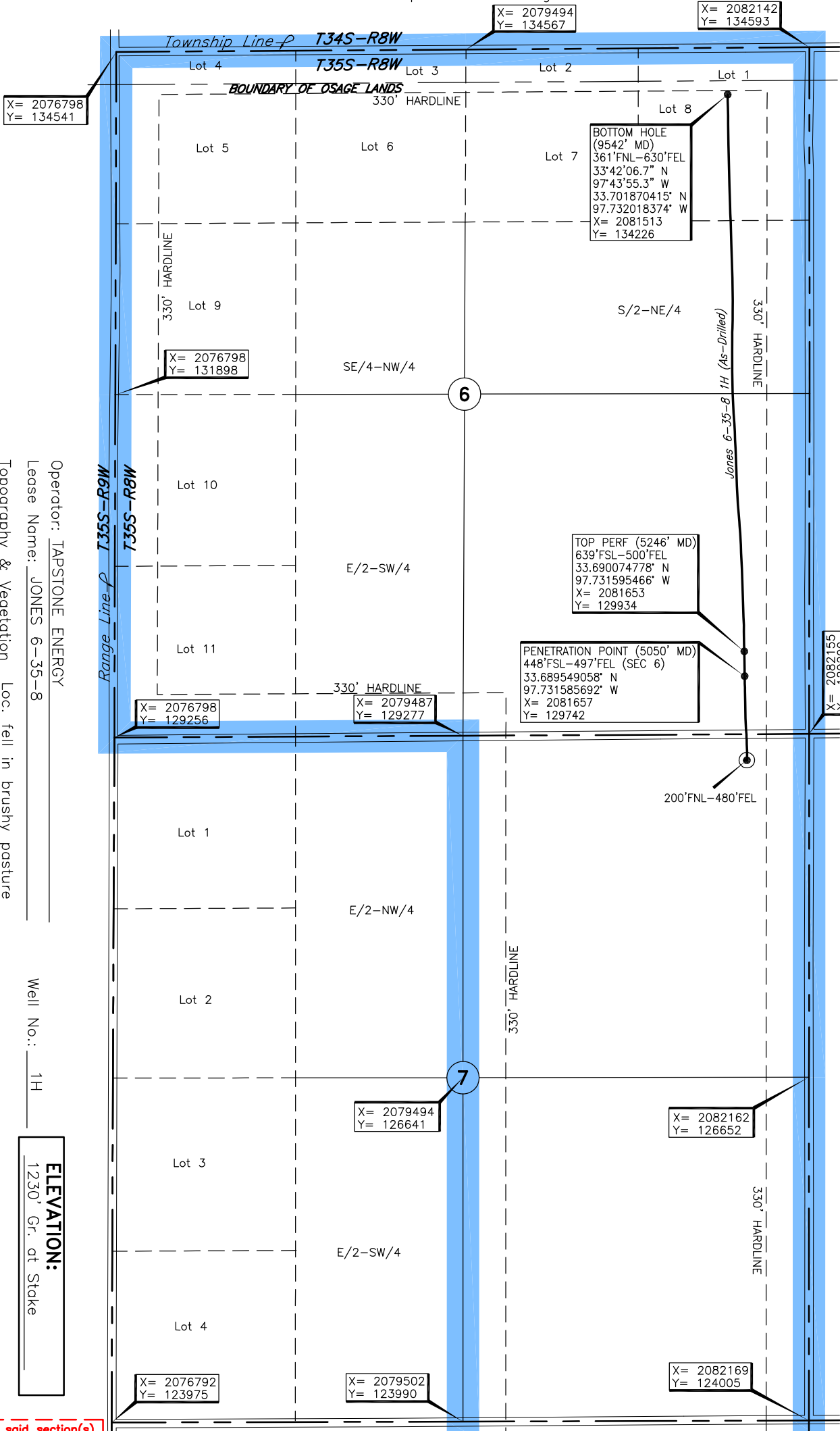
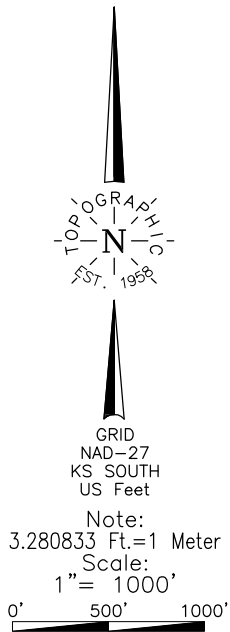
TOPOGRAPHIC LAND SURVEYORS

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

HARPER

County, Kansas

200'FNL - 480'FEL Section 7 Township 35S Range 8W P.M.



Operator: TAPSTONE ENERGY
 Lease Name: JONES 6-35-8
 Topography & Vegetation Loc. fell in brushy pasture
 Good Drill Site? Yes
 Best Accessibility to Location From North off county road
 Distance & Direction From Waldron, KS, go ±1.0 mi. North, then ±2.0 mi. West to the NE Cor. of Sec. 7-T35S-R8W
 Reference Stakes or Alternate Location Stakes Set None
 Well No.: 1H
ELEVATION:
1230' Gr. at Stake

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

DATUM: NAD-27
 LAT: 37°01'15.1"N
 LONG: 98°13'13.0"W
 LAT: 37.020866866° N
 LONG: 98.220264732° W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: KS SOUTH
 X: 2081675
 Y: 129095

240937 Date of Drawing: Mar. 04, 2015
 Invoice # 238766A Date Staked: Jan. 08, 2015 JP

FINAL AS-DRILLED PLAT

AS-DRILLED INFORMATION
 FURNISHED BY TAPSTONE ENERGY

Field Ticket

Original

Field Ticket Number: 0902124030 Field Ticket Date: Wednesday, February 11, 2015 Planning Order #: NA

Bill To:
 TAPSTONE ENERGY LLC
 210 PARK AVE STE 1350
 OKLAHOMA CITY, OK, 73102

Ship To:
 JONES 6-35-8 1H,HARPER,
 WALDRON, KS, 67150

Job Name: 9-5/8" Surface Casing
Order Type: ZOH
Well Name: JONES 6-35-8 1H
Company Code: 1100
Customer PO No.: NA
Shipping Point: Blackwell, OK, US Shipping Pt
Sales Office: MID-CONTINENT BD
Well Type: HORIZONTAL OIL
Well Category: Development
Rig Name#: NOMAC 07

Material	Description	QTY	UOM	Unit Amount	Gross Amount	Discount	Net Amount
101214575	PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA	1	EA	454.00	454.00	\$ 113.50	340.50
Totals USD					\$ 50,771.07	\$ 34,735.55	\$ 16,035.52

The Road to Excellence Starts with Safety

Sold To #: 372073 Ship To #: 3645749 Quote #: 002200021 Sales Order #: 0902124030

Customer: TAPSTONE ENERGY LLC Customer Rep:

Well Name: JONES 6-35-8 Well #: 1H API/UWI #: 15-077-22128-01

Field: UNDESIGNATED City (SAP): WALDRON County/Parish: HARPER State: KANSAS

Legal Description: NW NE NE 7-35S-8W-200FNL-480FEL

Contractor: NOMAC Rig/Platform Name/Num: NOMAC 07

Job BOM: 7521

Well Type: HORIZONTAL OIL

Sales Person: HALAMERICA\HX25353

Job Supervisor: Brian Penn

Job

Formation Name

Formation Depth (MD) Top Bottom

Form Type BHST

Job depth MD 809ft

Water Depth WK Ht Above Floor 4

Perforation Depth (MD) From To

Well Data

Description New / Used

Size in in ID in Weight lbm/ft

Grade Top MD ft Bottom MD ft Top TVD ft Bottom TVD ft

Open Hole Section

Casing

Tools and Accessories

Type Size Qty Make Depth

in in ft

Guide Shoe 9.625 1 800

Top Plug 9.625 1

Bottom Plug 9.625 1

Float Shoe 9.625 1

Float Collar 9.625 1

SSR plug set 9.625 1

Plug Container 9.625 1

Centralizers 9.625

Miscellaneous Materials

Gelling Agt Conc

Surfactant Conc

Inhibitor Conc

Acid Type Conc

Sand Type Conc

Size Qty

Fluid Data

Stage/Plug #: 1

Fluid # Stage Type

Water Spacer 10 bbl 8.33

Mixing Density lbm/gal 15 1.316

Yield ft/sack 5

Mix Fluid Gal 6.2

Rate bbl/mi 4

Total Mix Fluid Gal

Fluid Name Qty

SWIFTCM (TM) SYSTEM 490 sack

Fluid Name Qty

Fluid Name Qty

Fluid Name Qty

Fluid Name Qty

CALCIUM CHLORIDE, PELLET, 50 LB (101509387)

2 %

Tail Cement

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

Fluid Name

HALLIBURTON

Cementing Job Summary

0.1250 lbm		POLY-E-FLAKE (101216940)										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi	Total Mix Fluid Gal	Displacement	Displacement	Fluid #
3	Displacement	Displacement	58.6	bbl	8.33			5				
Cement Left in Pipe		Amount	45.48 ft		Reason		Shoe Joint					Comment



Summary Report

Sales Order #: 0902124030
WO #: 0902124030
PO/AFE #: NA

Crew: _____
Job Start Date: 2/11/2015

Customer:	TAPSTONE ENERGY LLC	Field:	UNDESIGNATED	Job Type:	CMT SURFACE
UWI / API Number:	15-077-22128-01	County/Parish:	HARPER	Service Supervisor:	CASING BOM Brian Penn
Well Name:	JONES 6-35-8	State:	KANSAS	Cust Rep Name:	
Well No:	1H	Latitude:	37.020863	Cust Rep Phone #:	
		Longitude:	-98.220276		
		Sect / Twn / Rng:	7/35/8		

Remarks:		The information stated herein is correct	
		Customer Representative Signature	Customer Representative Printed Name
		Date	

[Type text]

1.5 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	1	Call Out	Call Out	2/11/15	00:02:00	USER				Brian penn, RICHARD MAHLOCK
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	2/11/15	04:00:00	USER				BRIAN PENN, RICHARD MAHLOCK
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	2/11/15	04:30:00	USER				DEPARTED FROM WOODWARD, OK CREW ARRIVED ON LOCATION SAFELY, MET WITH CUSTOMER DISCUSSED JOB PROCEDURES, PUMPING PROCEDURES, CALCULATIONS, AND SAFETY. CREW REQUESTED ON LOCATION AT 0730
Event	4	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	2/11/15	07:00:00	USER				IDENTIFIED POTENTIAL SAFETY HAZARDS, OVERHEAD HAZARDS, TRIP HAZARDS, PINCH POINTS, BUFFER ZONES, RED ZONES, MUSTER AREAS, DESIGNATED SMOKING AREAS, EVACUATION PLAN, AND SAFE AREAS TO SPOT AND RIG UP EQUIPMENT.
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	2/11/15	05:15:00	USER				DISCUSSED POTENTIAL SAFETY HAZARDS, OVERHEAD HAZARDS, TRIP HAZARDS, SLICK SURFACES, COLD WEATHER STRESS, PINCH POINTS, BUFFER ZONES, RED ZONES, MUSTER AREAS, DESIGNATED SMOKING
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/11/15	05:30:00	USER				

[Type text]

[Type text]

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	8	Rig-Up Equipment	Rig-Up Equipment	2/11/2015	07:30:00	USER				AREAS, EVACUATION PLAN, SAFE AREAS TO SPOT AND RIG UP EQUIPMENT, AND PROPER PPE
Event	10	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/11/2015	8:20:00	USER				RIGGED UP GROUING AND FLOOR EQUIPMENT DISCUSSED JOB PROCEDURES, DANGERS OF PRESSURIZED EQUIPMENT, DESIGNATED PUMPING AREAS, EVACUATION PLAN, DESIGNATED MUSTER AREAS, AND PROPER PPE
Event	11	Pressure Test	Pressure Test	2/11/2015	0840	USER	0.10	8.33	3292.00	TESTED LINES TO 3000PSI, RIG FLOOR AND PUMPING AREAS CLEAR, TEST SUCCESSFUL
Event	12	Pump Spacer	Pump Spacer	2/11/2015	0842	USER	3.00	8.38	56.00	PUMPED 10BBL OF FRESHWATER SPACER
Event	13	Pump Lead Cement	Pump Lead Cement	2/11/2015	0846	USER	6.00	15.06	120.00	PUMPED 114BBL OF 1.5PPG SWIFTCEM (490 SKS)
Event	16	Drop Plug	Drop Plug	2/11/2015	0903	USER	2.80	15.12	-5.00	PLUG LEFT CEMENT HEAD
Event	17	Pump Displacement	Pump Displacement	2/11/2015	904	USER	7.50	8.86	-14.00	PUMPED 59 BBL DISPLACEMENT
Event	20	Bump Plug	Bump Plug	2/11/2015	0915	USER	0.00	8.36	702.00	BUMPED PLUG 500PSI OVER PUMPING
Event	21	Check Floats	Check Floats	2/11/2015	0906	USER	0.00	8.28	1.00	FLOATS HELD, .5BBL BLED BACK, 508BBL OF CEMENT RETURNS, FULL RETURNS THROUGH JOB
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/11/2015	0915	USER				DISCUSSED POTENTIAL SAFETY HAZARDS, OVERHEAD HAZARDS,

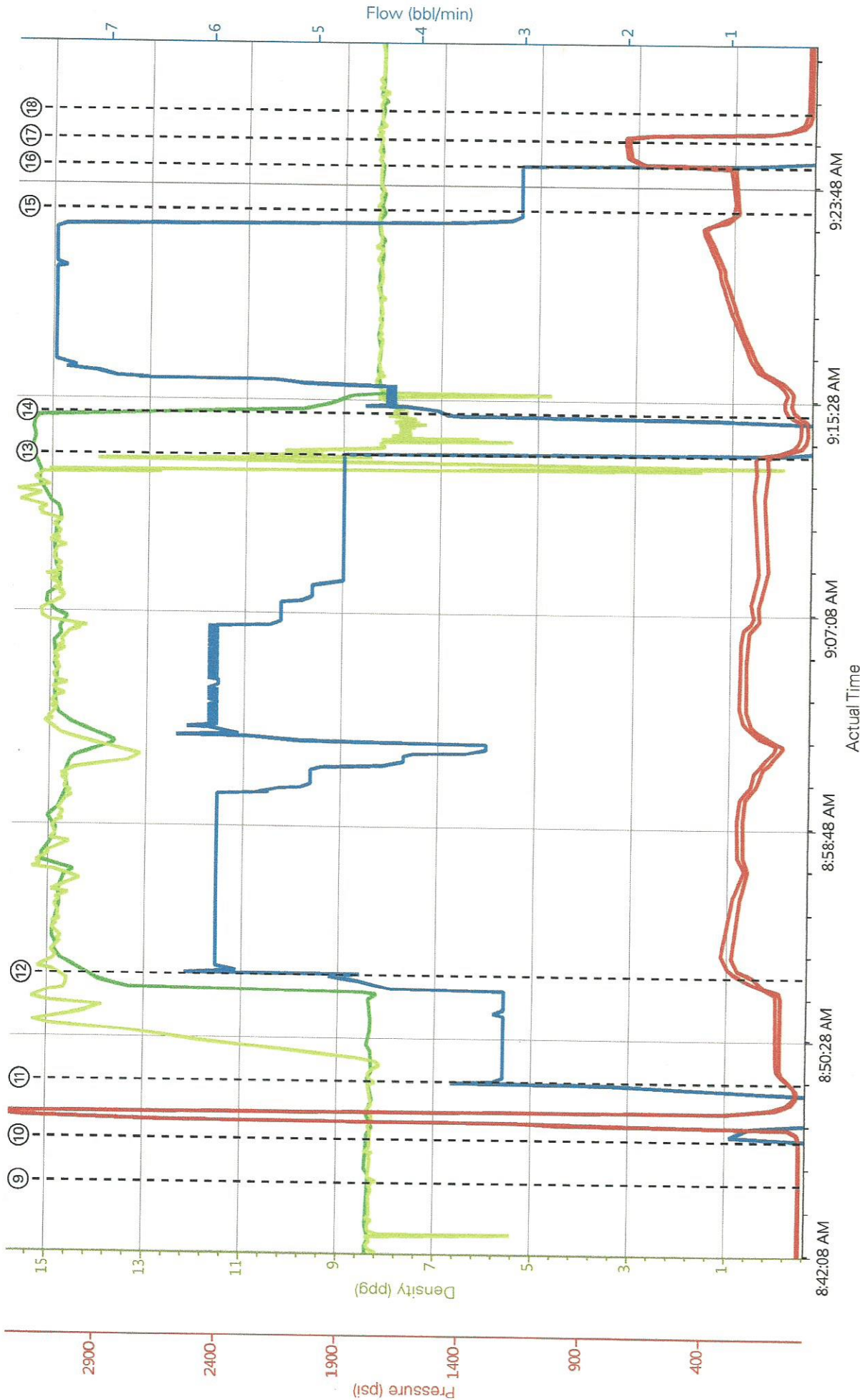
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Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbbl/min)	DH Density (ppg)	DS Pump Press (psi)	Comments
Event	23	Rig-Down Equipment	Rig-Down Equipment	2/11/2015	0930	USER				TRIP HAZARDS, SLICK SURFACES, COLD WEATHER STRESS, PINCH POINTS, BUFFER ZONES, RED ZONES, MUSTER AREAS, DESIGNATED SMOKING AREAS, EVACUATION PLAN, AND PROPER PPE
Event	25	Depart Location Safety Meeting	Depart Location Safety Meeting	2/11/2015	1000	USER				RIGGED DOWN ALL EQUIPMENT
Event	26	Depart Location	Depart Location	2/11/2015	1030	USER				

[Type text]

Custom Results



DH Density (ppg) Recirc Density (ppg) Comb Pump Rate (bbl/min) PS Pump Press (psi) DS Pump Press (psi)

- ① Call Out n/a; n/a; n/a; n/a; n/a
- ② Pre-Convoy Safety Meeting n/a; n/a; n/a; n/a; n/a
- ③ Depart from Service Center or Other Site n/a; n/a; n/a; n/a; n/a
- ④ Arrive At Loc n/a; n/a; n/a; n/a; n/a
- ⑤ Other n/a; n/a; n/a; n/a; n/a
- ⑥ Pre-Rig Up Safety Meeting n/a; n/a; n/a; n/a; n/a
- ⑦ Rig-Up Equipment 2.64; 2.99; 0; 157; 15
- ⑧ Pre-Job Safety Meeting 8.4; 8.34; 0; 3

HALLIBURTON | iCem® Service

The Road to Excellence Starts with Safety

HALIBURTON

Cementing Job Summary

Sold To #: 372073 Ship To #: 3645749 Quote #: 0022000022 Sales Order #: 0902124511
 Customer: TAPSTONE ENERGY LLC Customer Rep: SKIPPER GRAPE
 Well Name: JONES 6-35-8 Well #: 1H API/Well #: 15-077-22128-01
 Field: UNDESIGNATED City (SAP): WALDRON County/Parish: HARPER State: KANSAS
 Legal Description: NW NE NE-7-35S-8W-200FNL-480FEL
 Contractor: NOMAC RIG/Platform Name/Num: NOMAC 07
 Job BOM: 7522
 Well Type: HORIZONTAL OIL
 Sales Person: HALAMERICA\HX25353 Srvc Supervisor: Stephen Fish

Formation Name	Top	Bottom
Formation Depth (MD)		
Form Type		
Job depth MD	524ft	
Water Depth		Wk Ht Above Floor 4 FT
Perforation Depth (MD)	From	To

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing	3	9.625	8.921	36	LTC	J-55	0	800	0	4805
Casing	3	7	6.276	26	LTC	P-110	0	5277	0	4805
Open Hole Section			8.75				800	5277	800	4805

Tools and Accessories										
Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make		
Guide Shoe					Top Plug	7	1	HES		
Floater Shoe	7	1	5244		Bottom Plug	7	1	HES		
Floater Collar	7	1	5160		SSR plug set					
Insert Floater					Plug Container	7	1	HES		
Stage Tool					Centralizers					

Miscellaneous Materials										
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Sand Type	Size	Qty	Conc		
Treatment Fid										

Fluid Data										
Stage/Plug #: 1										

Fluid #	Stage Type	Fluid Name	Qty	Qty UOM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi	Total Mix Fluid Gal
1	Mud Flush III (Liquid)	Mud Flush III	10	bbl	8.4			5	
FRESH WATER									

HALLIBURTON

Cementing Job Summary

Fluid #	Stage Type	Fluid Name	Qty	Qty UOM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbf/mi	Total Mix Fluid Gal
2	Lead Cement	ECONOCEM (TM) SYSTEM	140	sack	13.6	1.506		5	7.3
HALLIBURTON GEL, 50 LB SK (100064040)									
0.40 %									
HALAD(R)-9, 50 LB (100001617)									
CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684)									
POZMIX A FLYASH (100003690)									
3	Tail Cement	HALCEM (TM) SYSTEM	90	sack	15.6	1.191		5	5.36
HALAD(R)-9, 50 LB (100001617)									
CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)									
4	Displacement	Displacement	197	bbf	8.33			5	
Cement Left in Pipe									
Amount 84 ft									
Reason									
Shoe Joint									
Comment									



Summary Report

Sales Order #: 0902124511
 WO #: 0902124511
 PO/A/E #: NA
 Crew: _____
 Job Start Date: 2/16/2015

Customer: TAPSTONE ENERGY LLC	Field: UNDESIGNATED	Job Type: CMT INTERMEDIATE
UWI / API Number: 15-077-22128-01	County/Parish: HARPER	Service Supervisor: Stephen Fish
Well Name: JONES 6-35-8	State: KANSAS	CASING BOM
Well No: 1H	Latitude: 37.020863	SKIPPER GRAPE
	Longitude: -98.220276	Cust Rep Name: SKIPPER GRAPE
	Sect / Twn / Rng: 7/35/8	Cust Rep Phone #: _____

Remarks:	
The information stated herein is correct	
Customer Representative Signature	Customer Representative Printed Name
Date	

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Downhole Density (ppg)	Driv-Side Pump Pressure (psi)	Driv-Side Pump Rate (bbl/min)	Pass-Side Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	2/15/2015	15:00:00	USER					requested on location @ 0000 2-16
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/15/2015	17:00:00	USER					planned stops, swa, the risk of icy weather, slick roads and bridges, safe following distance,
Event	3	Arrive at Location from Service Center	Arrive at Location from Service Center	2/16/2015	01:10:00	USER					rig on bottom waiting HES to arrive, HES was 1 hour late do to tractor breaking down company man was notified about break down and that pump crew would be late to location
Event	4	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/16/2015	01:20:00	USER					pinch points, line of fire, slip, trips, and falls, swa, lifting, and lowering,
Event	5	Rig-Up Equipment	Rig-Up Equipment	2/16/2015	01:30:00	USER					PUMPING PLAN, SAFE MEETING AREA, REPORT ALL INJURIES, PRESSURE AWARENESS, COLD WEATHER COULD MEAN ICE PLUGS IN HES LINES KEEP RIG FLOOR CLEAR AT ALL TIMES, TRAILING HAND WALKING UP AND DOWN STAIRS, WATCH FOR SLICK SPOTS ON RIG FLOOR
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/16/2015	02:15:00	USER	0.19	16.00	0.00	0.00	
Event	7	Start Job	Start Job	2/16/2015	03:09:21	COM5	8.11	5.00	0.00	0.00	

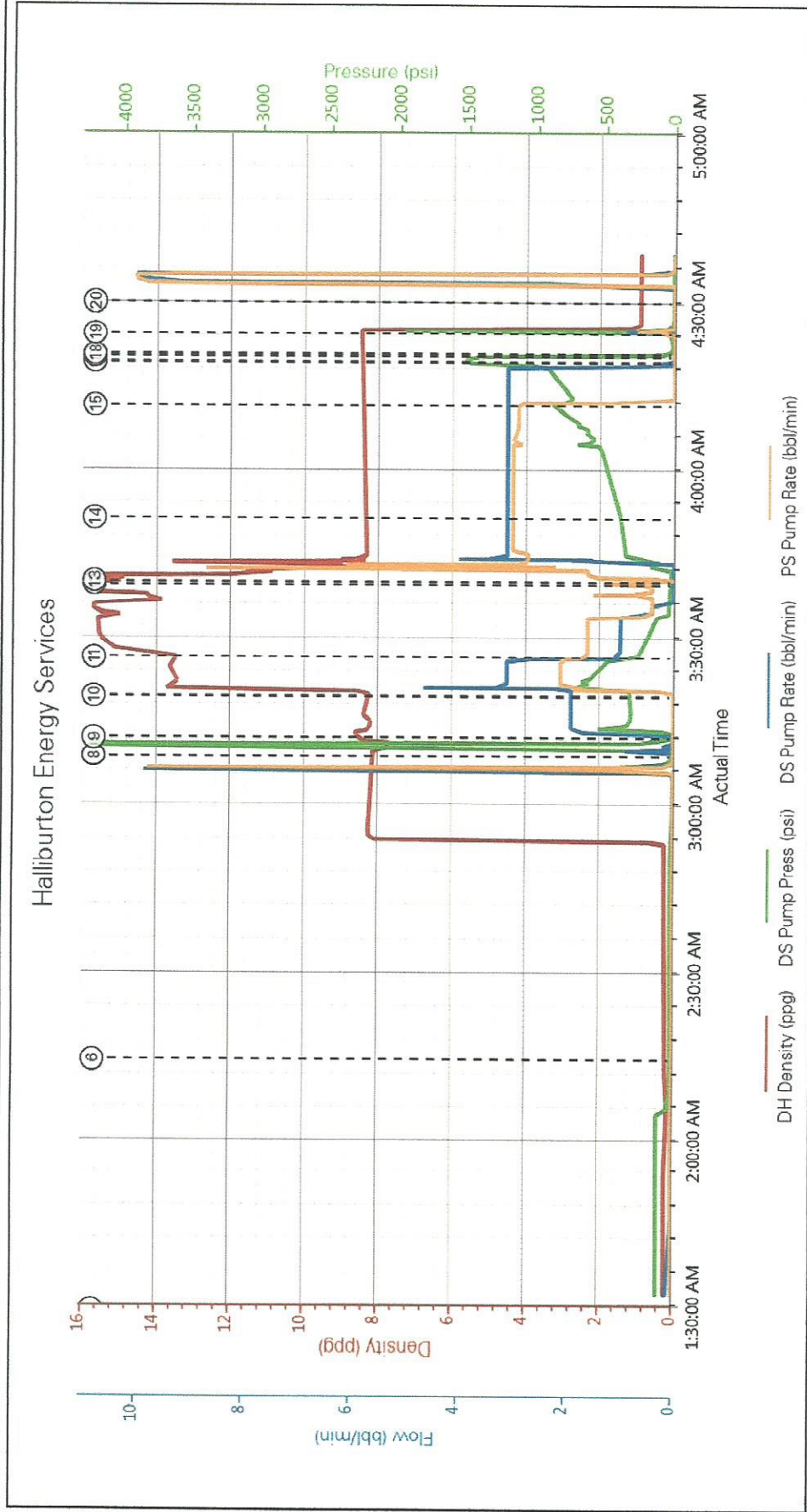
Event	8	Test Lines	Test Lines	2/16/2015	03:09:24	COM5	8.11	5.00	0.00	0.00	0.00	TEST LINES TO 4,000 PSI, TEST P/S KO @ 500, TEST D/S KO @ 750, WALK UP TO 4,000 PSI, GOOD TEST
Event	9	Pump Spacer 1	Pump Spacer 1	2/16/2015	03:12:38	COM5	8.60	6.00	0.00	0.00	0.00	MUD FLUSH 3 TOP OF SPACER @ 2863.6 FT
Event	10	Pump Lead Cement	Pump Lead Cement	2/16/2015	03:20:00	COM5	8.23	312.00	1.90	0.00	0.00	@ 13.6 # TOP OF LEAD @ 3236.7 FT
Event	11	Pump Tail Cement	Pump Tail Cement	2/16/2015	03:26:57	COM5	14.22	238.00	1.00	1.60	1.60	@ 15.6 # TOP OF TAIL @ 4654.6 FT
Event	12	Drop Top Plug	Drop Top Plug	2/16/2015	03:40:04	USER	15.77	18.00	0.00	0.00	0.00	FRESH WATER
Event	13	Pump Displacement	Pump Displacement	2/16/2015	03:40:36	COM5	15.04	15.00	0.00	0.00	0.00	
Event	14	Displ Reached Cmnt	Displ Reached Cmnt	2/16/2015	03:51:46	COM5	8.30	402.00	3.10	3.00	3.00	
Event	15	Other	Slow Rate	2/16/2015	04:12:13	COM5	8.43	741.00	3.10	0.00	0.00	
Event	16	Bump Plug	Bump Plug	2/16/2015	04:19:50	USER	8.46	1518.00	0.00	0.00	0.00	500 OVER FINAL PSI 1517 PSI
Event	17	Check Floats	Check Floats	2/16/2015	04:20:50	USER	8.43	25.00	0.00	0.00	0.00	1 BBL BACK
Event	18	End Job	End Job	2/16/2015	04:21:15	COM5	8.44	14.00	0.00	0.00	0.00	PINCH POINTS, LINE OF FIRE, SWA, LIFTING AND LOWERING, SLIP, TRIPS, AND FALLS, WATCH FOR ICE BUILD UP ON RIG FLOOR, STAIR CASE, AND ON GROUND,
Event	19	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	2/16/2015	04:25:00	USER	8.46	148.00	0.00	0.00	0.00	DRIVING WHILE TIRED, SWA, WILDLIFE, PLANNED STOPS, GOOD COMMUNICATION WITH ARS AND UPPER MANAGEMENT ABOUT WEATHER CHANGE AND
Event	20	Rig-Down Equipment	Rig-Down Equipment	2/16/2015	04:30:40	USER	0.92	6.00	0.00	0.00	0.00	
Event	21	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	2/16/2015	05:30:00	USER						

CONDITIONS

Event	22	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	2/16/2015	06:00:00	USER
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2.0 Custom Graphs

2.1 Custom Graph



HALLIBURTON

Original

Field Ticket Number: 0902124511 Field Ticket Date: Sunday, February 15, 2015 Planning Order #: NA

Job Name: 7" Intermediate Casing Order Type: ZOH Well Name: JONES 6-35-8 1H Company Code: 1100 Customer PO No.: NA Shipping Point: Blackwell, OK, US Shipping Pt Sales Office: MID-CONTINENT BD Well Type: HORIZONTAL OIL Well Category: Development Rig Name#: NOMAC 07	Bill To: TAPSTONE ENERGY LLC, 210 PARK AVE STE 1350, OKLAHOMA CITY, OK, 73102	Ship To: JONES 6-35-8 1H, HARPER, WALDRON, KS, 67150
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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, ON ANY PRECEDING PAGES, AND ATTACHED DOCUMENTS.

Gross Amount Total: \$ 35,072.50
 Item Discount Total: \$ 23,341.15
 Net Amount Total: \$ 11,731.35 USD

Customer Representative Signature: _____
 SKIPPER GRAPE
 Customer Representative

Date: _____
 Stephen Fish
 Halliburton Representative

Comments: Was our HSE performance satisfactory? (Health, Safety, Environment) Were you satisfied with our equipment? Were you satisfied with our people?

Yes No Yes No Yes No

