

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1269949  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
November 2016  
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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1269949



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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
 Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure		DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk Color	Date	Time
					+N / -S	+E / -W	Dist.	Angle							
Survey's are tied into: Assume vertical at casing shoe @ 838'										Date Received: 10/06/15					
Company: NA															
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
1	893.00	0.20	33.00	893.00	1.29	1.31	0.85	1.56	33.00	0.02	0.00	0.00	88 °F	Green	10/6/15 22:45
2	1083.00	0.00	77.90	1,083.00	1.57	1.59	1.03	1.89	33.00	0.11	0.00	0.00	93 °F	Green	10/6/15 23:49
3	1272.00	0.20	87.30	1,272.00	1.58	1.60	1.36	2.10	40.33	0.11	0.00	0.00	100 °F	Pink	10/7/15 0:54
4	1461.00	0.50	34.10	1,460.99	2.27	2.30	2.15	3.15	43.09	0.22	0.00	0.00	108 °F	Green	10/7/15 2:23
5	1650.00	0.30	102.10	1,649.99	2.83	2.88	3.10	4.23	47.10	0.25	0.00	0.00	113 °F	Green	10/7/15 3:44
6	1839.00	0.10	83.90	1,838.99	2.74	2.79	3.74	4.67	53.29	0.11	0.00	0.00	115 °F	Green	10/7/15 7:25
7	2029.00	0.30	293.80	2,028.99	2.96	3.01	3.45	4.58	48.93	0.21	0.00	0.00	118 °F	Green	10/7/15 8:45
8	2215.00	0.30	243.90	2,214.99	2.95	2.99	2.57	3.95	40.67	0.14	0.00	0.00	126 °F	Green	10/7/15 10:45
9	2401.00	0.60	232.10	2,400.98	2.16	2.18	1.37	2.57	32.07	0.17	0.00	0.00	127 °F	Green	10/7/15 12:05
10	2589.00	0.80	202.80	2,588.97	0.36	0.37	0.08	0.37	12.43	0.21	0.00	0.00	127 °F	Green	10/7/15 13:10
11	2776.00	1.10	195.10	2,775.94	-2.56	-2.57	-0.89	2.72	199.15	0.17	0.00	0.00	129 °F	Green	10/7/15 15:10
12	2964.00	1.20	216.00	2,963.90	-5.87	-5.91	-2.52	6.42	203.11	0.23	0.00	0.00	133 °F	Green	10/7/15 16:45
13	3153.00	1.00	197.30	3,152.87	-9.02	-9.08	-4.17	9.99	204.68	0.22	0.00	0.00	93 °F	Green	10/7/15 20:12
14	3339.00	1.00	214.50	3,338.84	-11.88	-11.97	-5.58	13.20	204.98	0.16	0.00	0.00	106 °F	Green	10/7/15 21:23
15	3528.00	0.90	221.30	3,527.82	-14.33	-14.44	-7.49	16.27	207.41	0.08	0.00	0.00	118 °F	Green	10/7/15 22:55
16	3714.00	0.90	195.70	3,713.79	-16.81	-16.95	-8.85	19.12	207.57	0.21	0.00	0.00	124 °F	Green	10/8/15 0:04
17	3745.00	1.00	195.20	3,744.79	-17.31	-17.44	-8.99	19.62	207.26	0.32	0.00	0.00	124 °F	Green	10/8/15 0:50
18	3777.00	0.60	183.90	3,776.79	-17.74	-17.88	-9.07	20.05	206.90	1.34	0.00	0.00	124 °F	Green	10/8/15 1:58
19	3808.00	1.80	2.10	3,807.78	-17.42	-17.55	-9.06	19.76	207.31	7.74	13.30	7.44	124 °F	Green	10/8/15 3:03
20	3841.00	6.00	7.10	3,840.70	-15.19	-15.32	-8.83	17.69	209.96	12.76	12.76	7.20	126 °F	Green	10/8/15 4:31
21	3872.00	8.80	8.60	3,871.44	-11.24	-11.37	-8.28	14.06	216.05	9.05	12.20	7.10	126 °F	Green	10/8/15 5:26
22	3903.00	11.60	7.30	3,901.94	-5.82	-5.93	-7.53	9.58	231.75	9.06	15.60	7.00	126 °F	Green	10/8/15 6:15
23	3935.00	13.60	4.10	3,933.17	1.11	1.01	-6.85	6.92	278.40	6.62	11.10	7.00	126 °F	Green	10/8/15 6:50
24	3966.00	15.40	1.70	3,963.18	8.86	8.76	-6.47	10.89	323.58	6.12	10.50	7.00	126 °F	Green	10/8/15 7:30
25	3996.00	17.00	2.30	3,991.99	17.22	17.13	-6.17	18.20	340.18	5.36	16.00	7.20	126 °F	Green	10/8/15 8:10
26	4026.00	18.50	2.80	4,020.56	26.35	26.26	-5.76	26.89	347.62	5.03	10.77	7.30	126 °F	Green	10/8/15 8:55
27	4057.00	20.20	2.00	4,049.81	36.60	36.52	-5.34	36.91	351.69	5.55	9.00	7.40	127 °F	Green	10/8/15 9:45
28	4089.00	22.00	1.20	4,079.66	48.11	48.04	-5.02	48.30	354.04	5.70	10.10	7.50	127 °F	Green	10/8/15 10:40

# MWD SURVEYS

Customer: Tapstone Energy  
Well: Diel Farms 15-34-9 #1H  
Field/Block: Mississippi Lime  
Co./Parish: Harper Co.  
State: KS

PGS Job #: LKS6119315  
MWD Operator: Jeffery Treille  
Directional Driller: Jarod Gooch  
Date of First Survey: October 6, 2015  
Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk		
					+N / -S	+E / -W	Dist.	Angle	Color					Date	Time	
29	4120.00	24.60	2.00	4,108.13	60.36	60.29	-4.67	60.48	355.57	8.45	15.60	7.40	127 °F	Green	10/8/15	12:00
30	4151.00	27.80	2.80	4,135.94	74.02	73.97	-4.09	74.08	356.83	10.39	15.90	7.30	129 °F	Green	10/8/15	13:25
31	4183.00	31.20	3.20	4,163.79	89.74	89.70	-3.26	89.76	357.92	10.64	13.60	7.00	129 °F	Green	10/8/15	14:45
32	4214.00	34.10	3.80	4,189.89	106.41	106.39	-2.24	106.42	358.79	9.41	18.20	6.80	131 °F	Green	10/8/15	15:25
33	4245.00	36.10	2.00	4,215.25	124.20	124.19	-1.35	124.20	359.38	7.26	17.30	6.80	131 °F	Green	10/8/15	16:20
34	4276.00	38.10	0.30	4,239.98	142.88	142.89	-0.98	142.89	359.61	7.25	13.20	6.90	131 °F	Green	10/8/15	17:20
35	4307.00	40.70	0.50	4,263.93	162.55	162.56	-0.84	162.56	359.70	8.40	16.30	6.80	133 °F	Green	10/8/15	18:18
36	4339.00	43.20	359.70	4,287.73	183.94	183.95	-0.80	183.95	359.75	7.99	17.00	6.60	133 °F	Green	10/8/15	19:04
37	4370.00	45.10	358.40	4,309.97	205.53	205.54	-1.17	205.54	359.67	6.79	16.00	6.60	133 °F	Green	10/8/15	20:01
38	4401.00	47.40	357.80	4,331.41	227.92	227.92	-1.91	227.92	359.52	7.55	16.10	6.50	133 °F	Green	10/8/15	20:54
39	4432.00	49.50	356.80	4,351.97	251.10	251.09	-3.01	251.11	359.31	7.19	17.00	6.50	135 °F	Green	10/8/15	21:54
40	4463.00	51.80	357.00	4,371.62	275.06	275.02	-4.30	275.06	359.10	7.44	15.30	6.30	135 °F	Green	10/8/15	22:54
41	4495.00	53.70	358.00	4,390.99	300.52	300.47	-5.41	300.52	358.97	6.44	15.00	6.40	135 °F	Green	10/8/15	23:48
42	4527.00	55.30	358.40	4,409.57	326.56	326.51	-6.23	326.57	358.91	5.10	14.80	6.70	135 °F	Green	10/9/15	0:44
43	4558.00	57.30	358.40	4,426.77	352.35	352.29	-6.95	352.35	358.87	6.45	16.00	6.80	135 °F	Green	10/9/15	2:27
44	4589.00	60.00	358.40	4,442.90	378.82	378.75	-7.69	378.83	358.84	8.71	17.20	0.00	135 °F	Green	10/9/15	3:51
45	4621.00	62.50	358.80	4,458.29	406.87	406.79	-8.37	406.88	358.82	7.89	15.70	0.00	133 °F	Green	10/9/15	5:11
46	4652.00	62.50	359.60	4,472.60	434.37	434.29	-8.76	434.38	358.85	2.29	0.00	0.00	133 °F	Green	10/9/15	6:10
47	4683.00	62.90	359.60	4,486.82	461.92	461.83	-8.95	461.92	358.89	1.29	0.00	0.00	135 °F	Green	10/9/15	7:05
48	4715.00	63.30	359.60	4,501.30	490.45	490.37	-9.15	490.46	358.93	1.25	0.00	0.00	135 °F	Green	10/9/15	7:50
49	4746.00	63.80	359.30	4,515.11	518.21	518.12	-9.41	518.21	358.96	1.83	0.00	0.00	135 °F	Green	10/9/15	8:40
50	4777.00	64.30	359.00	4,528.67	546.08	545.99	-9.83	546.08	358.97	1.83	0.00	0.00	135 °F	Green	10/9/15	9:35
51	4809.00	64.90	359.10	4,542.40	574.99	574.90	-10.31	574.99	358.97	1.90	0.00	9.90	136 °F	Green	10/9/15	10:25
52	4840.00	65.40	359.30	4,555.43	603.12	603.02	-10.70	603.12	358.98	1.72	15.00	8.00	136 °F	Green	10/9/15	11:30
53	4871.00	67.10	359.40	4,567.91	631.49	631.40	-11.02	631.49	359.00	5.49	18.00	8.70	135 °F	Green	10/9/15	12:55
54	4903.00	70.10	359.30	4,579.58	661.28	661.18	-11.36	661.28	359.02	9.38	17.60	8.50	135 °F	Green	10/9/15	14:20
55	4935.00	72.90	359.90	4,589.74	691.62	691.53	-11.57	691.62	359.04	8.93	15.00	8.40	135 °F	Green	10/9/15	16:50
56	4966.00	75.50	0.20	4,598.18	721.45	721.35	-11.54	721.45	359.08	8.44	18.60	8.40	135 °F	Green	10/09/15	17:50
57	4998.00	78.50	1.20	4,605.38	752.61	752.53	-11.16	752.61	359.15	9.86	18.50	8.00	135 °F	Green	10/09/15	18:57
58	5030.00	81.00	1.70	4,611.07	784.07	784.00	-10.36	784.07	359.24	7.96	16.00	7.80	135 °F	Green	10/09/15	20:26
59	5061.00	83.30	2.30	4,615.30	814.74	814.69	-9.29	814.74	359.35	7.66	18.60	7.50	135 °F	Green	10/09/15	22:20

# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
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Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk		
					+N / -S	+E / -W	Dist.	Angle	Color					Date	Time	
60	5093.00	85.90	2.20	4,618.31	846.55	846.52	-8.04	846.56	359.46	8.13	18.50	0.00	135 °F	Green	10/10/15	0:55
61	5185.00	89.50	2.90	4,622.01	938.30	938.34	-3.95	938.35	359.76	3.99	0.00	0.00	122 °F	Yellow	10/11/15	12:00
62	5216.00	91.00	3.20	4,621.87	969.22	969.30	-2.30	969.30	359.86	4.93	0.00	0.00	124 °F	Yellow	10/11/15	13:05
63	5248.00	92.30	3.90	4,620.95	1,001.11	1,001.22	-0.32	1,001.22	359.98	4.61	0.00	0.00	126 °F	Yellow	10/11/15	14:05
64	5279.00	91.00	3.40	4,620.06	1,032.00	1,032.14	1.65	1,032.15	0.09	4.49	0.00	0.00	126 °F	Yellow	10/11/15	15:45
65	5311.00	90.10	1.60	4,619.75	1,063.95	1,064.11	3.05	1,064.12	0.16	6.29	0.00	0.00	129 °F	Yellow	10/11/15	16:45
66	5342.00	90.10	1.10	4,619.69	1,094.92	1,095.10	3.78	1,095.11	0.20	1.61	0.00	0.00	131 °F	Yellow	10/11/15	17:55
67	5374.00	90.20	1.60	4,619.61	1,126.90	1,127.09	4.53	1,127.10	0.23	1.59	0.00	0.00	131 °F	Yellow	10/11/15	18:58
68	5405.00	90.10	2.30	4,619.53	1,157.86	1,158.07	5.59	1,158.09	0.28	2.28	0.00	0.00	131 °F	Yellow	10/11/15	20:03
69	5436.00	90.40	2.70	4,619.39	1,188.81	1,189.05	6.94	1,189.07	0.33	1.61	0.00	0.00	131 °F	Yellow	10/11/15	21:05
70	5466.00	90.80	2.50	4,619.08	1,218.75	1,219.01	8.30	1,219.04	0.39	1.49	0.00	0.00	131 °F	Yellow	10/11/15	22:26
71	5496.00	91.10	2.30	4,618.58	1,248.70	1,248.98	9.56	1,249.02	0.44	1.20	0.00	0.00	133 °F	Yellow	10/11/15	23:14
72	5527.00	90.40	2.00	4,618.18	1,279.65	1,279.96	10.72	1,280.00	0.48	2.46	0.00	0.00	135 °F	Yellow	10/12/15	0:11
73	5557.00	89.80	1.30	4,618.12	1,309.62	1,309.94	11.58	1,310.00	0.51	3.07	0.00	0.00	135 °F	Yellow	10/12/15	1:16
74	5587.00	90.60	0.90	4,618.02	1,339.60	1,339.94	12.16	1,339.99	0.52	2.98	0.00	0.00	135 °F	Yellow	10/12/15	2:08
75	5617.00	90.90	0.70	4,617.63	1,369.59	1,369.93	12.58	1,369.99	0.53	1.20	0.00	0.00	135 °F	Yellow	10/12/15	3:05
76	5647.00	91.10	0.40	4,617.10	1,399.58	1,399.93	12.86	1,399.99	0.53	1.20	0.00	0.00	135 °F	Yellow	10/12/15	4:02
77	5677.00	91.40	359.80	4,616.45	1,429.56	1,429.92	12.92	1,429.98	0.52	2.24	0.00	0.00	118 °F	Yellow	10/12/15	5:05
78	5707.00	91.60	359.50	4,615.66	1,459.55	1,459.91	12.73	1,459.96	0.50	1.20	0.00	0.00	118 °F	Yellow	10/12/15	5:57
79	5738.00	89.90	359.20	4,615.26	1,490.55	1,490.90	12.38	1,490.95	0.48	5.57	0.00	0.00	118 °F	Yellow	10/12/15	6:45
80	5769.00	89.10	359.00	4,615.53	1,521.55	1,521.90	11.90	1,521.94	0.45	2.66	0.00	0.00	118 °F	Yellow	10/12/15	7:25
81	5799.00	88.20	359.30	4,616.24	1,551.54	1,551.89	11.45	1,551.93	0.42	3.16	0.00	0.00	117 °F	Yellow	10/12/15	8:20
82	5829.00	88.30	359.10	4,617.15	1,581.52	1,581.87	11.03	1,581.91	0.40	0.75	0.00	0.00	118 °F	Yellow	10/12/15	9:10
83	5860.00	89.50	359.10	4,617.75	1,612.52	1,612.86	10.55	1,612.89	0.37	3.87	0.00	0.00	118 °F	Yellow	10/12/15	10:00
84	5890.00	91.10	359.00	4,617.59	1,642.52	1,642.85	10.05	1,642.88	0.35	5.34	0.00	0.00	117 °F	Yellow	10/12/15	11:00
85	5921.00	91.40	358.80	4,616.91	1,673.51	1,673.84	9.45	1,673.87	0.32	1.16	0.00	0.00	117 °F	Yellow	10/12/15	11:40
86	5951.00	91.00	358.30	4,616.29	1,703.50	1,703.82	8.69	1,703.85	0.29	2.13	0.00	0.00	118 °F	Yellow	10/12/15	12:25
87	5982.00	91.50	358.40	4,615.61	1,734.49	1,734.80	7.80	1,734.82	0.26	1.64	0.00	0.00	118 °F	Yellow	10/12/15	13:10
88	6012.00	91.10	358.60	4,614.93	1,764.48	1,764.79	7.02	1,764.80	0.23	1.49	0.00	0.00	118 °F	Yellow	10/12/15	13:55
89	6043.00	91.00	358.50	4,614.36	1,795.47	1,795.77	6.23	1,795.78	0.20	0.46	0.00	0.00	118 °F	Yellow	10/12/15	15:05
90	6073.00	90.90	358.30	4,613.86	1,825.47	1,825.75	5.39	1,825.76	0.17	0.75	0.00	0.00	118 °F	Yellow	10/12/15	15:55

# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
 Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk Color	Date	Time
					+N / -S	+E / -W	Dist.	Angle								
91	6103.00	91.00	358.20	4,613.37	1,855.46	1,855.74	4.48	1,855.74	0.14	0.47	0.00	0.00	118 °F	Yellow	10/12/15	16:45
92	6133.00	91.30	357.80	4,612.76	1,885.45	1,885.71	3.43	1,885.71	0.10	1.67	0.00	0.00	120 °F	Yellow	10/12/15	17:25
93	6164.00	91.50	357.80	4,612.01	1,916.43	1,916.68	2.24	1,916.68	0.07	0.65	0.00	0.00	120 °F	Yellow	10/12/15	18:00
94	6195.00	91.20	358.10	4,611.28	1,947.41	1,947.65	1.13	1,947.65	0.03	1.37	0.00	0.00	120 °F	Yellow	10/12/15	18:53
95	6225.00	89.70	358.20	4,611.04	1,977.41	1,977.63	0.16	1,977.63	0.00	5.01	0.00	0.00	120 °F	Yellow	10/12/15	19:42
96	6255.00	89.40	358.20	4,611.28	2,007.40	2,007.62	-0.78	2,007.62	359.98	1.00	0.00	0.00	122 °F	Yellow	10/12/15	20:31
97	6286.00	89.50	357.80	4,611.57	2,038.40	2,038.60	-1.86	2,038.60	359.95	1.33	0.00	0.00	122 °F	Yellow	10/12/15	21:30
98	6316.00	90.40	357.20	4,611.60	2,068.38	2,068.57	-3.17	2,068.57	359.91	3.61	0.00	0.00	122 °F	Yellow	10/12/15	22:24
99	6346.00	92.40	356.80	4,610.87	2,098.35	2,098.52	-4.74	2,098.52	359.87	6.80	0.00	0.00	122 °F	Yellow	10/12/15	22:56
100	6377.00	93.80	357.00	4,609.19	2,129.28	2,129.43	-6.41	2,129.43	359.83	4.56	0.00	0.00	122 °F	Yellow	10/13/15	0:26
101	6407.00	93.30	356.80	4,607.33	2,159.20	2,159.32	-8.03	2,159.34	359.79	1.79	0.00	0.00	122 °F	Yellow	10/13/15	1:01
102	6437.00	92.80	356.90	4,605.74	2,189.13	2,189.24	-9.68	2,189.26	359.75	1.70	0.00	0.00	122 °F	Yellow	10/13/15	2:03
103	6467.00	92.60	357.20	4,604.32	2,219.08	2,219.16	-11.22	2,219.19	359.71	1.20	0.00	0.00	122 °F	Yellow	10/13/15	3:20
104	6497.00	91.90	357.00	4,603.15	2,249.04	2,249.10	-12.74	2,249.14	359.68	2.43	0.00	0.00	122 °F	Yellow	10/13/15	4:14
105	6528.00	89.20	356.90	4,602.85	2,280.01	2,280.05	-14.38	2,280.10	359.64	8.72	0.00	0.00	122 °F	Yellow	10/13/15	5:09
106	6558.00	88.10	356.70	4,603.55	2,309.98	2,310.00	-16.06	2,310.05	359.60	3.73	0.00	0.00	122 °F	Yellow	10/13/15	6:08
107	6589.00	88.60	356.30	4,604.45	2,340.93	2,340.93	-17.95	2,341.00	359.56	2.07	0.00	0.00	124 °F	Yellow	10/13/15	6:50
108	6619.00	89.90	355.90	4,604.84	2,370.89	2,370.85	-19.99	2,370.94	359.52	4.53	0.00	0.00	124 °F	Yellow	10/13/15	7:45
109	6649.00	90.80	355.90	4,604.66	2,400.84	2,400.78	-22.14	2,400.88	359.47	3.00	0.00	0.00	124 °F	Yellow	10/13/15	8:50
110	6680.00	90.80	356.40	4,604.22	2,431.79	2,431.70	-24.22	2,431.82	359.43	1.61	0.00	0.00	126 °F	Yellow	10/13/15	9:30
111	6710.00	90.20	357.00	4,603.96	2,461.76	2,461.65	-25.94	2,461.79	359.40	2.83	0.00	0.00	126 °F	Yellow	10/13/15	10:10
112	6741.00	89.30	357.80	4,604.10	2,492.75	2,492.62	-27.35	2,492.77	359.37	3.88	0.00	0.00	127 °F	Yellow	10/13/15	11:00
113	6772.00	89.20	357.60	4,604.50	2,523.74	2,523.59	-28.59	2,523.75	359.35	0.72	0.00	0.00	127 °F	Yellow	10/13/15	11:45
114	6802.00	89.10	358.00	4,604.95	2,553.72	2,553.57	-29.75	2,553.74	359.33	1.37	0.00	0.00	127 °F	Yellow	10/13/15	12:30
115	6832.00	90.10	358.20	4,605.16	2,583.72	2,583.55	-30.74	2,583.73	359.32	3.40	0.00	0.00	129 °F	Yellow	10/13/15	13:20
116	6863.00	91.60	358.50	4,604.70	2,614.71	2,614.53	-31.63	2,614.72	359.31	4.93	0.00	0.00	129 °F	Yellow	10/13/15	14:00
117	6893.00	91.50	358.60	4,603.89	2,644.70	2,644.51	-32.39	2,644.71	359.30	0.47	0.00	0.00	129 °F	Yellow	10/13/15	14:40
118	6923.00	90.30	358.20	4,603.42	2,674.69	2,674.49	-33.23	2,674.70	359.29	4.22	0.00	0.00	129 °F	Yellow	10/13/15	15:20
119	6953.00	90.40	358.40	4,603.23	2,704.69	2,704.48	-34.12	2,704.70	359.28	0.75	0.00	0.00	129 °F	Yellow	10/13/15	16:20
120	6983.00	92.10	358.40	4,602.58	2,734.68	2,734.46	-34.96	2,734.68	359.27	5.67	0.00	0.00	129 °F	Yellow	10/13/15	17:00
121	7013.00	91.90	358.60	4,601.53	2,764.66	2,764.43	-35.74	2,764.66	359.26	0.94	0.00	0.00	131 °F	Yellow	10/13/15	17:55

# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
 Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk		
					+N / -S	+E / -W	Dist.	Angle	Color					Date	Time	
122	7044.00	90.40	357.90	4,600.91	2,795.65	2,795.41	-36.69	2,795.65	359.25	5.34	0.00	0.00	131 °F	Yellow	10/13/15	18:42
123	7074.00	89.80	357.00	4,600.86	2,825.63	2,825.38	-38.02	2,825.64	359.23	3.61	0.00	0.00	131 °F	Yellow	10/13/15	19:44
124	7105.00	89.00	356.50	4,601.18	2,856.60	2,856.33	-39.78	2,856.61	359.20	3.04	0.00	0.00	131 °F	Yellow	10/13/15	20:45
125	7135.00	88.10	356.90	4,601.94	2,886.57	2,886.27	-41.51	2,886.57	359.18	3.28	0.00	0.00	131 °F	Yellow	10/13/15	21:28
126	7165.00	87.50	357.50	4,603.09	2,916.53	2,916.21	-42.97	2,916.53	359.16	2.83	0.00	0.00	131 °F	Yellow	10/13/15	22:39
127	7195.00	87.60	357.80	4,604.37	2,946.49	2,946.16	-44.20	2,946.49	359.14	1.05	0.00	0.00	135 °F	Yellow	10/14/15	0:04
128	7225.00	88.20	357.90	4,605.47	2,976.46	2,976.12	-45.32	2,976.46	359.13	2.03	0.00	0.00	135 °F	Yellow	10/14/15	1:20
129	7255.00	88.20	358.00	4,606.42	3,006.44	3,006.08	-46.40	3,006.44	359.12	0.33	0.00	0.00	135 °F	Yellow	10/14/15	2:47
130	7286.00	88.10	357.90	4,607.42	3,037.42	3,037.05	-47.51	3,037.42	359.10	0.46	0.00	0.00	135 °F	Yellow	10/14/15	4:02
131	7316.00	88.20	358.40	4,608.38	3,067.40	3,067.02	-48.47	3,067.40	359.09	1.70	0.00	0.00	136 °F	Yellow	10/14/15	5:07
132	7346.00	88.70	358.40	4,609.20	3,097.38	3,096.99	-49.31	3,097.38	359.09	1.67	0.00	0.00	136 °F	Yellow	10/14/15	6:15
133	7376.00	89.10	359.00	4,609.77	3,127.38	3,126.98	-49.99	3,127.38	359.08	2.40	0.00	0.00	136 °F	Yellow	10/14/15	7:20
134	7406.00	89.10	359.20	4,610.24	3,157.37	3,156.97	-50.46	3,157.37	359.08	0.67	0.00	0.00	138 °F	Yellow	10/14/15	8:20
135	7437.00	88.90	359.20	4,610.78	3,188.37	3,187.96	-50.89	3,188.37	359.09	0.65	0.00	0.00	136 °F	Yellow	10/14/15	9:30
136	7468.00	89.90	359.10	4,611.11	3,219.37	3,218.96	-51.35	3,219.37	359.09	3.24	0.00	0.00	136 °F	Yellow	10/14/15	10:30
137	7497.00	90.50	359.10	4,611.01	3,248.37	3,247.95	-51.81	3,248.37	359.09	2.07	0.00	0.00	138 °F	Yellow	10/14/15	11:30
138	7527.00	91.40	359.20	4,610.51	3,278.36	3,277.95	-52.26	3,278.36	359.09	3.02	0.00	0.00	138 °F	Yellow	10/14/15	12:25
139	7558.00	92.20	359.20	4,609.54	3,309.35	3,308.93	-52.69	3,309.35	359.09	2.58	0.00	0.00	138 °F	Yellow	10/14/15	13:30
140	7587.00	91.90	359.70	4,608.50	3,338.33	3,337.91	-52.97	3,338.33	359.09	2.01	0.00	0.00	138 °F	Yellow	10/14/15	14:30
141	7617.00	91.50	359.90	4,607.61	3,368.31	3,367.89	-53.07	3,368.31	359.10	1.49	0.00	0.00	138 °F	Yellow	10/14/15	15:30
142	7648.00	91.50	0.00	4,606.80	3,399.30	3,398.88	-53.10	3,399.30	359.10	0.32	0.00	0.00	140 °F	Green	10/14/215	16:35
143	7680.00	92.40	359.70	4,605.71	3,431.28	3,430.87	-53.18	3,431.28	359.11	2.96	0.00	0.00	140 °F	Yellow	10/14/15	17:40
144	7711.00	93.40	359.60	4,604.14	3,462.24	3,461.82	-53.37	3,462.24	359.12	3.24	0.00	0.00	140 °F	Yellow	10/14/15	18:56
145	7743.00	92.90	359.90	4,602.38	3,494.19	3,493.78	-53.51	3,494.19	359.12	1.82	0.00	0.00	140 °F	Yellow	10/14/15	20:26
146	7775.00	91.60	359.50	4,601.13	3,526.16	3,525.75	-53.68	3,526.16	359.13	4.25	0.00	0.00	140 °F	Yellow	10/14/15	22:24
147	7806.00	91.40	359.70	4,600.31	3,557.15	3,556.74	-53.89	3,557.15	359.13	0.91	0.00	0.00	140 °F	Yellow	10/14/15	23:49
148	7838.00	90.30	359.80	4,599.84	3,589.14	3,588.73	-54.03	3,589.14	359.14	3.45	0.00	0.00	140 °F	Yellow	10/15/15	1:33
149	7869.00	89.20	359.50	4,599.97	3,620.14	3,619.73	-54.22	3,620.14	359.14	3.68	0.00	0.00	140 °F	Yellow	10/15/15	2:45
150	7901.00	89.40	0.00	4,600.37	3,652.13	3,651.73	-54.36	3,652.13	359.15	1.68	0.00	0.00	140 °F	Yellow	10/15/15	3:45
151	7933.00	90.40	0.50	4,600.42	3,684.13	3,683.73	-54.22	3,684.13	359.16	3.49	0.00	0.00	140 °F	Yellow	10/15/15	4:59
152	7964.00	90.80	1.10	4,600.10	3,715.11	3,714.72	-53.79	3,715.11	359.17	2.33	0.00	0.00	140 °F	Yellow	10/15/15	6:33



# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
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Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

Measure d Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	Coordinates		Closure			DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk		
					+N / -S	+E / -W	Dist.	Angle	Color					Date	Time	
153	7996.00	90.60	1.30	4,599.71	3,747.09	3,746.71	-53.12	3,747.09	359.19	0.88	0.00	0.00	144 °F	Yellow	10/15/15	18:33
154	8027.00	91.60	1.30	4,599.11	3,778.06	3,777.70	-52.42	3,778.06	359.21	3.23	0.00	0.00	144 °F	Yellow	10/15/15	19:50
155	8059.00	92.00	0.20	4,598.11	3,810.03	3,809.68	-52.00	3,810.04	359.22	3.66	0.00	0.00	144 °F	Yellow	10/15/15	20:42
156	8090.00	91.80	359.10	4,597.08	3,841.01	3,840.66	-52.19	3,841.02	359.22	3.60	0.00	0.00	144 °F	Yellow	10/15/15	21:44
157	8122.00	91.20	358.40	4,596.24	3,873.00	3,872.64	-52.89	3,873.01	359.22	2.88	0.00	0.00	144 °F	Yellow	10/15/15	22:42
158	8153.00	90.20	356.80	4,595.86	3,903.99	3,903.61	-54.18	3,903.99	359.20	6.09	0.00	0.00	144 °F	Yellow	10/15/15	23:51
159	8185.00	89.40	357.00	4,595.97	3,935.96	3,935.57	-55.91	3,935.96	359.19	2.58	0.00	0.00	144 °F	Yellow	10/16/15	0:51
160	8216.00	89.30	357.10	4,596.32	3,966.94	3,966.52	-57.51	3,966.94	359.17	0.46	0.00	0.00	144 °F	Yellow	10/16/15	1:58
161	8248.00	89.40	356.60	4,596.69	3,998.91	3,998.47	-59.27	3,998.91	359.15	1.59	0.00	0.00	144 °F	Yellow	10/16/15	2:58
162	8279.00	89.50	357.10	4,596.99	4,029.89	4,029.42	-60.97	4,029.89	359.13	1.64	0.00	0.00	144 °F	Yellow	10/16/15	4:09
163	8311.00	90.60	357.30	4,596.96	4,061.87	4,061.39	-62.53	4,061.87	359.12	3.49	0.00	0.00	144 °F	Yellow	10/16/15	5:20
164	8342.00	90.60	358.00	4,596.63	4,092.85	4,092.36	-63.80	4,092.85	359.11	2.26	0.00	0.00	147 °F	Yellow	10/16/15	6:50
165	8374.00	88.90	358.10	4,596.77	4,124.85	4,124.34	-64.89	4,124.85	359.10	5.32	0.00	0.00	149 °F	Yellow	10/16/15	7:55
166	8405.00	88.40	358.20	4,597.50	4,155.83	4,155.31	-65.89	4,155.84	359.09	1.64	0.00	0.00	149 °F	Yellow	10/16/15	9:15
167	8437.00	88.30	358.20	4,598.42	4,187.82	4,187.28	-66.90	4,187.82	359.08	0.31	0.00	0.00	149 °F	Red	10/16/15	10:35
168	8468.00	88.80	358.60	4,599.21	4,218.80	4,218.26	-67.76	4,218.81	359.08	2.07	0.00	0.00	149 °F	Green	10/16/15	12:05
169	8500.00	89.40	358.20	4,599.71	4,250.80	4,250.24	-68.66	4,250.80	359.07	2.25	0.00	0.00	151 °F	Yellow	10/16/15	14:05
170	8531.00	89.60	357.90	4,599.98	4,281.79	4,281.23	-69.71	4,281.79	359.07	1.16	0.00	0.00	151 °F	Yellow	10/16/15	15:10
171	8562.00	90.10	357.40	4,600.06	4,312.78	4,312.20	-70.98	4,312.78	359.06	2.28	0.00	0.00	151 °F	Yellow	10/16/15	16:45
172	8594.00	90.80	357.40	4,599.81	4,344.76	4,344.17	-72.44	4,344.77	359.04	2.19	0.00	0.00	153 °F	Yellow	10/16/15	18:31
173	8625.00	90.70	357.80	4,599.41	4,375.75	4,375.14	-73.73	4,375.76	359.03	1.33	0.00	0.00	153 °F	Yellow	10/16/15	19:49
174	8657.00	91.00	357.70	4,598.93	4,407.74	4,407.11	-74.99	4,407.74	359.03	0.99	0.00	0.00	153 °F	Yellow	10/16/15	20:48
175	8688.00	91.60	357.60	4,598.23	4,438.72	4,438.07	-76.26	4,438.73	359.02	1.96	0.00	0.00	153 °F	Yellow	10/16/15	22:27
176	8720.00	92.00	357.60	4,597.22	4,470.69	4,470.03	-77.60	4,470.70	359.01	1.25	0.00	0.00	153 °F	Yellow	10/16/15	23:57
177	8751.00	91.40	357.60	4,596.30	4,501.67	4,500.99	-78.90	4,501.68	359.00	1.94	0.00	0.00	154 °F	Yellow	10/17/15	1:12
178	8782.00	91.40	357.50	4,595.55	4,532.64	4,531.95	-80.22	4,532.66	358.99	0.32	0.00	0.00	154 °F	Yellow	10/17/15	2:30
179	8814.00	92.00	357.50	4,594.60	4,564.62	4,563.91	-81.62	4,564.64	358.98	1.88	0.00	0.00	154 °F	Yellow	10/17/15	4:16
180	8846.00	92.20	357.20	4,593.42	4,596.58	4,595.85	-83.10	4,596.60	358.96	1.13	0.00	0.00	154 °F	Yellow	10/17/15	5:34
181	8877.00	91.30	357.70	4,592.48	4,627.55	4,626.80	-84.47	4,627.58	358.95	3.32	0.00	0.00	154 °F	Yellow	10/17/15	7:10
182	8909.00	91.50	357.70	4,591.70	4,659.53	4,658.77	-85.76	4,659.56	358.95	0.63	0.00	0.00	154 °F	Yellow	10/17/15	8:40
183	8926.00	91.30	357.90	4,591.28	4,676.52	4,675.75	-86.41	4,676.55	358.94	1.66	0.00	0.00	154 °F	Yellow	10/17/15	9:40

# MWD SURVEYS

Customer: Tapstone Energy  
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 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
 Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

	<i>Measure</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>BRN</i>	<i>Temp (°F)</i>	<i>Vib/Shk</i>		
	<i>d Depth</i>	<i>Inc.</i>				<i>+N / -S</i>	<i>+E / -W</i>	<i>Dist.</i>	<i>Angle</i>					<i>Color</i>	<i>Date</i>	<i>Time</i>
PTB	8977.00	91.30	357.90	4,590.12	4,727.50	4,726.70	-88.28	4,727.53	358.93	0.00						

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<i>Measure</i>		<i>Coordinates</i>		<i>Closure</i>		<i>Vib/Shk</i>									
<i>d 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>BRN</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>

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

# MWD SURVEYS

Customer: Tapstone Energy  
 Well: Diel Farms 15-34-9 #1H  
 Field/Block: Mississippi Lime  
 Co./Parish: Harper Co.  
 State: KS

PGS Job #: LKS6119315  
 MWD Operator: Jeffery Treille  
 Directional Driller: Jarod Gooch  
 Date of First Survey: October 6, 2015  
 Date of Last Survey: October 17, 2015



Total Correction: 3.98 East Grid

Vertical Section Plane: 359.14 Nominal Dip Angle: 65.30 Magnetic Field Strength: 0.517

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<i>d 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>BRN</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>

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Magnetic Field Strength: 0.517

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<i>d 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>BRN</i>	<i>Temp (°F)</i>	<i>Color</i>	<i>Date</i>	<i>Time</i>

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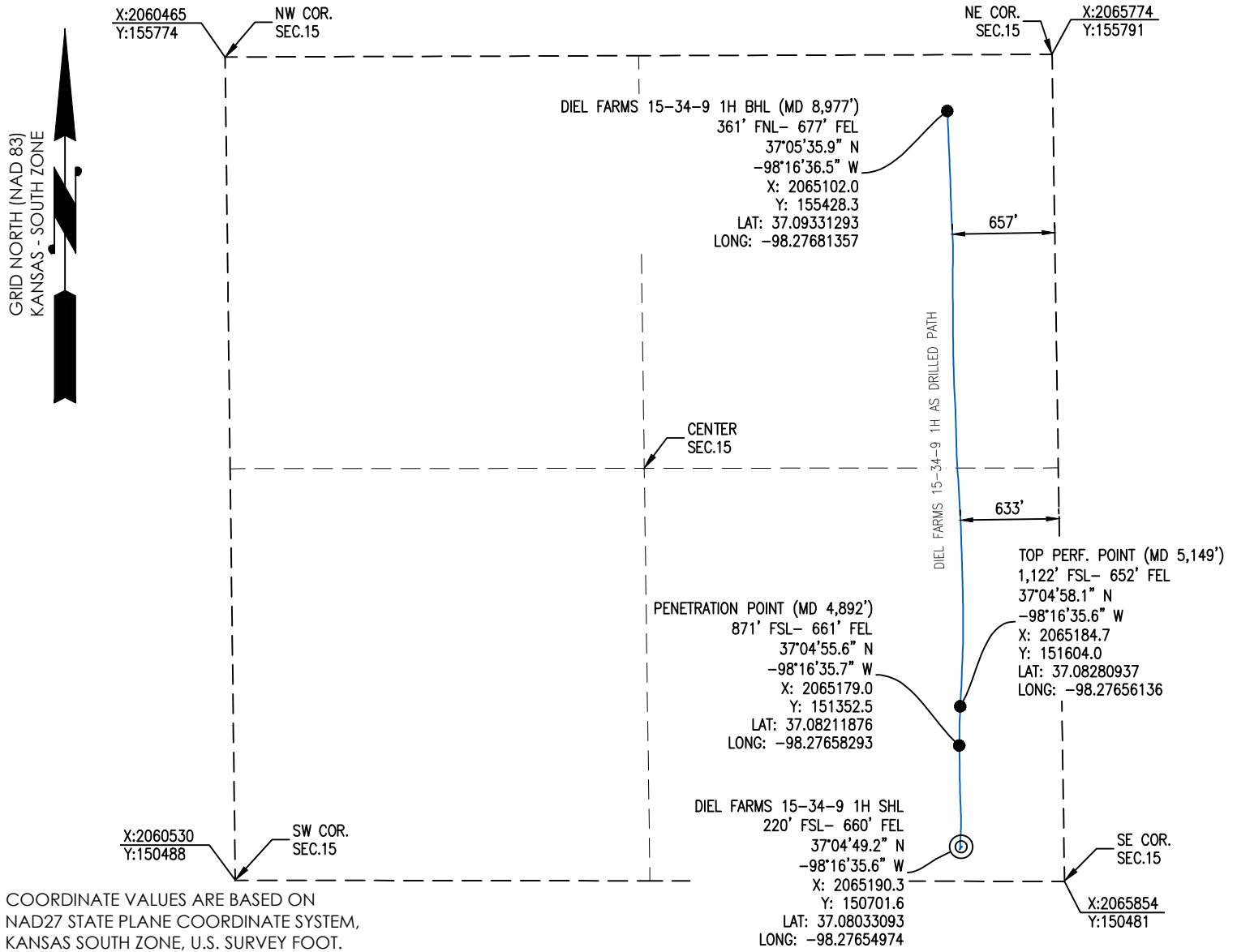
Measure d Depth	Inc.	Azimuth	T.V.D.	Ver. Sect.	Coordinates		Closure		DLS	Mtr Yield	BRN	Temp (°F)	Vib/Shk Color	Date	Time
					+N / -S	+E / -W	Dist.	Angle							



1000 LedgeLawn Dr.  
Conway, Arkansas 72034  
501.328.3316 f 501.328.3325 f  
www.craftontull.com

**Crafton Tull**  
SURVEYING

HARPER COUNTY, KANSAS  
220' FSL- 660' FEL SECTION 15 TOWNSHIP 34S RANGE 09W 6TH P.M.



COORDINATE VALUES ARE BASED ON  
NAD27 STATE PLANE COORDINATE SYSTEM,  
KANSAS SOUTH ZONE, U.S. SURVEY FOOT.

OPERATOR: TAPSTONE ENERGY

WELL NO: 1H

**ELEVATION:**

1278' GR. AT STAKE

LEASE NAME: DIEL FARMS 15-34-9

TOPOGRAPHIC & VEGETATION: LOCATION FELL IN A FIELD

REFERENCE STAKES OR ALTERNATE LOCATION  
STAKES SET: NONE

GOOD DRILL SITE: YES

BEST ACCESSIBILITY TO LOCATION: SOUTH OR EAST LINE OF SECTION 15

DISTANCE & DIRECTION

FROM HWY JCT OR TOWN: FROM THE JCT. OF KS-58 (SW 140 AVE) & SW 80 RD (±7.0 MILES  
SOUTHEAST OF HAZELTON, KS), TRAVEL NORTH ON KS-58 (SW 140 AVE) ±3.0 MILES TO  
SW 50 RD, TRAVEL EAST ON SW 50 RD, ± 1.0 MILES TO THE SOUTHEAST CORNER OF  
SECTION 15, T34S-R09W.

(THE FOLLOWING  
INFORMATION WAS  
GATHERED USING A GPS  
RECEIVER ACCURACY ±2-3  
METERS)

GPS  
DATUM: NAD-27  
LAT: 37.08033093  
LONG: -98.27654974

STATE PLANE  
COORDINATES:  
ZONE: KS-SOUTH NAD-27  
X: 2065190.3  
Y: 150701.6

DATE STAKED: 7-28-2015

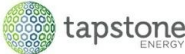
GENERAL NOTES:

THE TIES AND FOOTAGES SHOWN ON THIS PLAT ARE FROM LINES OF OCCUPATION FROM A SURVEY MADE ON THE GROUND AND / OR BEARING AND DISTANCES FROM THE GENERAL LAND OFFICE PLAT OF THE AREA SHOWN AND MAY NOT BE THE ACTUAL PROPERTY CORNERS. THIS PLAT DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. DRILL SITE CONDITION DETERMINATIONS WERE MADE BY TAPSTONE ENERGY REPRESENTATIVES.

AS-DRILLED INFORMATION PROVIDED BY CLIENT.

GRAPHIC SCALE IN FEET



REVISION	 "DIEL FARMS 15-34-9 1H" PART OF THE SE1/4 OF SECTION 15, T-34-S, R-09-W AS-DRILLED PLAT HARPER COUNTY, KANSAS		
	SCALE: 1" = 1000'	DRAWN BY: J.PARKER	SHEET NO.: 1 OF 1



7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
10/19/2015	0000023976

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER,COUNTY KS AFE DC15018 API 15-077-22155-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No			Lease/Well Name		
SOK5386	Net 30	10/6/2015	11/18/2015	AFE DC15018			DIEL FARMS 15-34-9 1H		
Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount	
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	78.00%	-332.28	93.72	
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	78.00%	-570.96	161.04	
ML003	Bulk Cement Delivery/Return	MILE	1,130	2.95	3,333.50	78.00%	-2,600.13	733.37	
MX001	Bulk Material Mixing Service Charge	SCF	496	3.27	1,621.92	78.00%	-1,265.10	356.82	
CC001	Pump Charge 0-1000'	4-HRS	1	2,038.61	2,038.61	78.00%	-1,590.12	448.49	
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00	
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00	
PC003	Employee/Supervisor Retention/perdiem	PR/MAN	4	1,306.80	5,227.20	78.00%	-4,077.22	1,149.98	
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	78.00%	-1,121.23	316.25	
AE003	Circulation Equipment( 40' of equipment)	JOB	1	1,633.50	1,633.50	78.00%	-1,274.13	359.37	
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	78.00%	-917.37	258.75	
CL017	9 5/8" Top Rubber Plug	EACH	1	338.80	338.80	35.00%	-118.58	220.22	
CP001	C (Premium Plus Cement) (94 lbs/ft3)	94SACK	470	30.80	14,476.02	78.00%	-11,291.30	3,184.72	
CP010	Cello Flake	LBS	118	4.20	495.60	78.00%	-386.57	109.03	
CP018	Calcium Chloride	LBS	884	1.22	1,078.48	78.00%	-841.21	237.27	
CP031	Sugar	LBS	50	3.39	169.50	0.00%	0.00	169.50	
CC015	Pump Charge Additional Hours	UNTHRS	3	588.06	1,764.18	75.00%	-1,323.13	441.05	
AE012	Bulk Unit Additional Hours	UNTHRS	3	130.68	392.04	75.00%	-294.03	98.01	

<b>Subtotal Amount</b>	*****
<b>Sales Tax</b>	*****
<b>Discount Amount</b>	*****
<b>Payment/Credit Amount</b>	*****
<b>Total Net Amount</b>	*****

Contact: Ellen Yoder



7303 N. Highway 81  
Duncan, OK 73533

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10/19/2015	0000023976

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER, COUNTY KS AFE DC15018 API 15-077-22155-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5386	Net 30	10/6/2015	11/18/2015	AFE DC15018	DIEL FARMS 15-34-9 1H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount

<b>Subtotal Amount</b>	37,223.04
<b>Sales Tax</b>	254.85
<b>Discount Amount</b>	-28,885.45
<b>Payment/Credit Amount</b>	0.00
<b>Total Net Amount</b>	8,592.44

Contact: Ellen Yoder

RS  
10-7

Project Number: SOK 5386

**FIELD RECEIPT**  
580-227-2727

Well Name: Diel Farms 15-34-9  
Well Number: 1H  
County: Harper  
State: Kansas  
APL#  
APE#  
AEE#

PERMIT #  
0

Customer Rep 0  
Phone 0

Service Date: 10/6/2015  
Customer: Tapstone Energy  
Address:  
City  
St

Service Location: Fairview, Oklahoma  
Service Address: 601 Industrial Blvd 73737

Job Type: Surface  
Serv. Sup.: John Hall  
Page 1 of 1

JOB TYPE: CASING SIZE

Diel Farms 15-34-9  
1H  
Harper  
Kansas  
15-077-22155-01-00  
0

Pump # 980022  
Pump 2 # 0

**TAPSTONE ENERGY**  
AEE# D15018  
WELL: Diel Farms 15-34-91H  
RIG: Newton 7  
ACT CODE: 83036  
APPROVED AMT: 8337.50  
CO. #  
STATE #  
AEE #

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	disc	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	78%	\$332.28	\$93.72
ML002	Pump Truck/Heavy Vehicle Mileage	per mile/ per Unit	7.32	100.0	\$732.00	78%	\$570.96	\$161.04
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	1,130.0	\$3,333.50	78%	\$2,600.13	\$733.37
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	496.0	\$1,621.92	78%	\$1,265.10	\$356.82
CC001	Pump Charge 0-1000'	(per 4 hrs)	2,038.61	1.0	\$2,038.61	78%	\$1,590.12	\$448.49
ML014	Fuel Surcharge *	per unit per job	653.40	1.0	\$653.40	100%	\$0.00	\$0.00
AE014	Environmental Fee*	per job	228.69	1.0	\$228.69	100%	\$0.00	\$0.00
PC003	Employee/Supervisor Retention/perdiem	per job	1,306.80	4.0	\$5,227.20	78%	\$4,077.22	\$1,149.98
JM001	Data Acquisition System	Per Job	1,437.48	1.0	\$1,437.48	78%	\$1,121.23	\$316.25
AE002	Cement Head with manifold	per job	1,176.12	1.0	\$1,176.12	78%	\$917.37	\$258.75
AE003	Circulation Equipment( 40' of equipment)	per job	1,633.50	1.0	\$1,633.50	78%	\$1,274.13	\$359.37
CL017	9 5/8" Top Rubber Plug	Each	338.80	1.0	\$338.80	35%	\$118.58	\$220.22
CP001	C (Premium Plus Cement) (94 lbs/ft3)	per sk	30.80	470.0	\$14,476.00	78%	\$11,291.28	\$3,184.72
CP010	Cello Flake	per lb	4.20	118.0	\$495.60	78%	\$386.57	\$109.03
CP018	Calcium Chloride	per lb	1.22	884.0	\$1,078.48	78%	\$841.21	\$237.27
CP031	Sugar	per lb	3.39	50.0	\$169.50	0%	\$0.00	\$169.50
CC015	Pump Charge Additional Hours	per hour/per unit	588.06	3.0	\$1,764.18	75%	\$1,323.14	\$441.05
AE012	Bulk Unit Additional Hours	Per unit/per hour	130.68	3.0	\$392.04	75%	\$294.03	\$98.01
ML003	Bulk Cement Delivery/Return	per Ton-Mile	2.95	-	\$0.00	78%	\$0.00	\$0.00
MX001	Bulk Material Mixing Service Charge	per cuft	3.27	-	\$0.00	78%	\$0.00	\$0.00
CP001	C (Premium Plus Cement) (94 lbs/ft3)	per sk	30.80	-	\$0.00	78%	\$0.00	\$0.00
CP018	Calcium Chloride	per lb	1.22	-	\$0.00	78%	\$0.00	\$0.00
AE022	1" Pipe for Top-Out*	per ft	7.90	-	\$0.00	20%	\$0.00	\$0.00
AE000	Circulating hose (replacement)	per hose	1,375.00	-	\$0.00	0%	\$0.00	\$0.00
					\$37,223.02		\$28,885.43	\$8,337.59

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent:

# SERVICE ORDER CONTRACT

Customer Name Tapstone Energy Ticket Number SOK 5386

Lease & Well Number Diel Farms 15-34-9 1H Date 10/5/2015

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

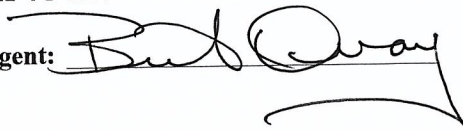
Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent:



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 5386</b>	TICKET DATE <b>10/06/15</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Tapstone Energy</b>	CUSTOMER REP <b>0</b>	
LEASE NAME <b>Diel Farms 15-34-9</b>	Well No. <b>1H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>John Hall</b>	

EMP NAME									
John Hall									
Kyle Laskowitz									
Bryan Douglas									
Magic Mahmud									

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At **0**  
Bottom Hole Temp. **80** Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth **800**

	Called Out	On Location	Job Started	Job Completed
Date	<b>10/5/2015</b>	<b>10/5/2015</b>	<b>10/6/2015</b>	<b>10/6/2015</b>
Time	<b>930pm</b>	<b>1130pm</b>	<b>400am</b>	<b>630am</b>

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing		36#	9	5/8"	Surface	800	1,500
Liner							
Liner							
Tubing			0				
Drill Pipe							
Open Hole			12 1/4"		Surface	800	Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials			
Mud Type	WBM	Density	Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33
Spacer type	Fresh Water	BBL.	10
Spacer type	BBL.		
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
MISC.	Gal/Lb	In	
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			
Other			

Hours On Location				Operating Hours				Description of Job
Date	Hours	Date	Hours					
10/5	0.5	10/6	2.5				Surface	
10/6	6.5							
Total		7.0		Total		2.5		

Pressures			
MAX	2,000 PSI	AVG.	500 psi
Average Rates in BPM			
MAX	6 BPM	AVG	5 bpm
Cement Left in Pipe			
Feet	44	Reason	SHOE JOINT

Cement Data							
Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal	
1	470	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake		6.34	1.34	14.80
2	0	0		0	0.00	0.00	0.00
3	0	0		0	0.00	0.00	0.00

Summary							
Preflush Breakdown		Type: _____	Preflush: BBI	<b>10.00</b>	Type: Fresh Water		
		MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad: Bbl - Gal	N/A	
		Lost Returns	Excess /Return BBI	45	Calc. Disp Bbl	62	
		Actual TOC	Calc. TOC:	<b>SURFACE</b>	Actual Disp.	<b>61.80</b>	
Average ISIP	5 Min.	Bump Plug PSI: <b>10 Min</b>	Final Circ. PSI:	<b>400</b>	Disp: Bbl	<b>61.80</b>	
			Cement Slurry BBI	<b>112.1</b>			
			Total Volume BBI	<b>183.90</b>			

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE 

## JOB LOG

<b>JOB LOG</b>			PROJECT NUMBER <b>SOK 5386</b>	TICKET DATE <b>10/06/15</b>
COMPANY <b>Tapstone Energy</b>		COUNTRY <b>USA</b>	STATE <b>Kansas</b>	COUNTY <b>Harper</b>
LEASE NAME Well No. <b>Diel Farms 15-34-9 1H</b>		EMPLOYEE NAME <b>John Hall</b>		CUSTOMER REP
FIELD		SEC / TWP / RNG <b>15/34S/9W</b>		TICKET AMOUNT <b>7,798.53</b>
API/UWI # <b>15-077-22155-01-00</b>		JOB PURPOSE <b>Surface</b>		WELL TYPE <b>Oil &amp; Gas</b>

	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
10/5/2015	930pm					TIME ARRIVED IN YARD
	940					Fit for duty meeting
	1000					Headed to location from yard!
	1130					Arrived On Location
	1140					Safety Meeting
10/6/2015	1201am					Waiting On Rig To Run Caseing
	330					Rig Up
	400					Safety Meeting
	430			2,000		Test Lines
	435	5.0	10.0	200		Pump Water Spacer
	440	5.0	112.1	200		Pump Lead @14.8
	505					Drop Plug
	510	8.0	51.8	600		Start Displacement
	515	3.0	10.0	400		Slow To Land Plug
	520			900		Land Plug
	525					Test Floats
	530					Rig Down
	630					Head Back To Yard
						<b>SUPERVISOR SIGNATURE</b>
<b>Bumped Plug</b>	<b>Final lift Psi</b>	<b>Floats Held</b>	<b>PSI ON CSG</b>	<b>CEMENT SURFACE</b>	<b>X</b>	<i>[Handwritten Signature]</i>
<b>YES</b>	<b>400</b>	<b>YES</b>	<b>900.0</b>	<b>yes</b>		

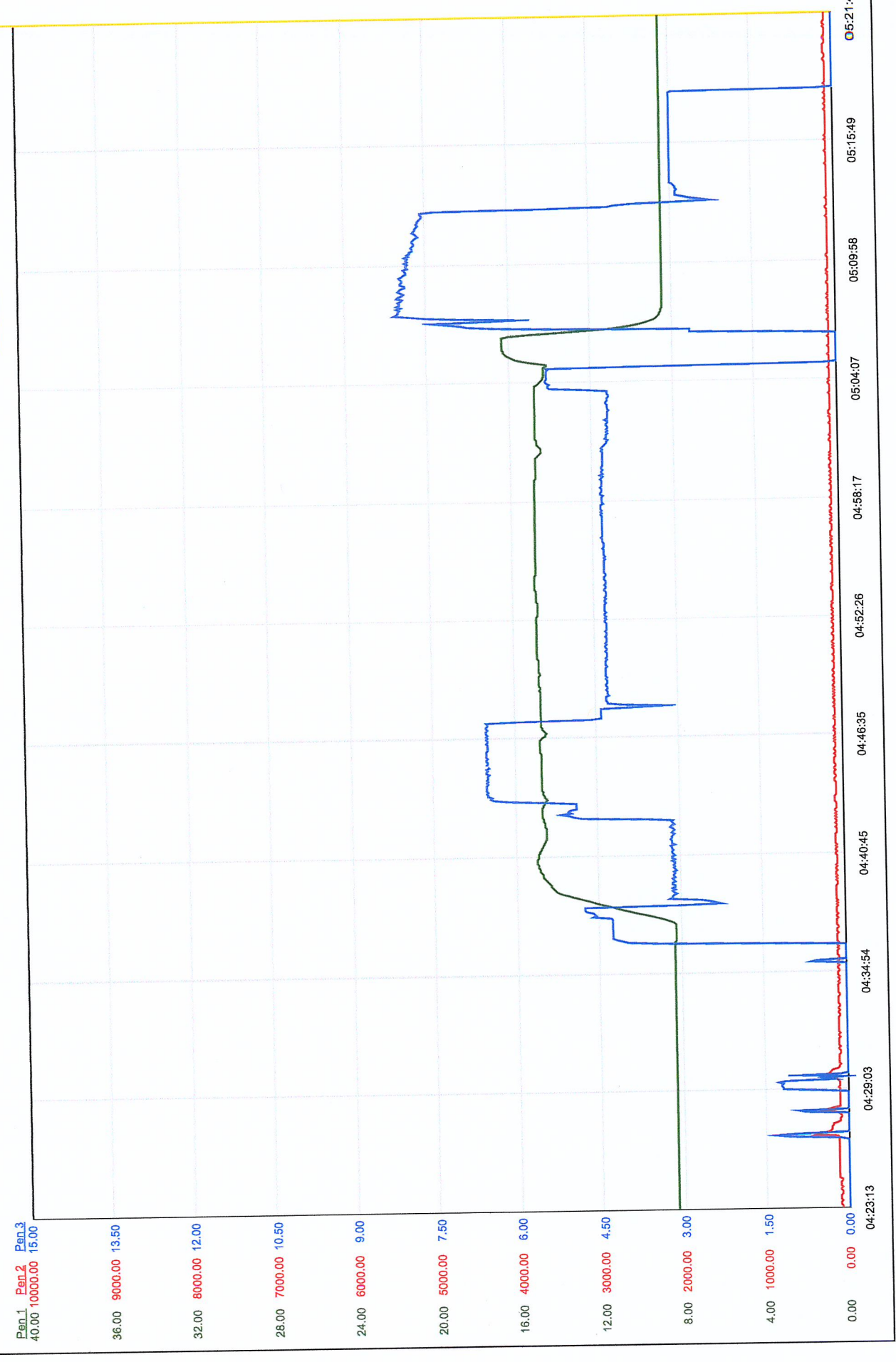




SERVICE COMPANY: O-Tex Pumping  
 TICKET NO: 0  
 CUSTOMER NAME: Tapstone Energy  
 WELL NAME: Diel Farms 15349 1H  
 WELL LOCATION: Harper CO.KS  
 DATE RECORDED: 10/06/2015  
 JOB NO: SOK 5386  
 UNIT DESCRIPTION: Nomac #7  
 UNIT NOTES: 9 5/8 Surface  
 FILE NAME: Tapstone Energy\_Diel Farms 15349 1H\_15\_10\_06\_#1.csv

Pen 1: Density 1 ( Density : lb/gal )  
 Pen 2: Pressure 2 ( Density : lb/gal )  
 Pen 3: Flowrate 1 ( Pressure : psi )

05:21:40 PC Data Recording Stopped





**Job Site Safety Meeting Attendance Sheet**

Date: 10/5/2015

Max Pressure: 1,500 PSI PSI

Job Site Leader: John Hall

Ticket #: SOK 5386

Company - Lease - Well #: Tapstone Energy / Diel Farms 15-34-9 1H

	Employee Name *** Please Print ***	Employee Number	Unit Number	Trailer Number	Unit Type	Location	Company Name
1	John Hall		530157	820083	Pickup	Fairview	O-Tex
2	Kyle Laskowitz		880100	920022	Pump	Fairview	O-Tex
3	Magic Mahmud		880050	920099	Bulk	Fairview	O-Tex
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Job Site Safety Leader: John Hall Report all Minor Injuries, Accidents, Vehicle Accidents or Environmental Spills Immediately.

# O-Tex Pumping LLC Form 1-B

Job Safety Analysis Worksheet		DATE:	10/5/2015
LEASE NAME AND JOB TYPE:	Tapstone Energy Diel Farms 15-34-9 1H Surface	JOB NUMBER:	SOK 5386
EMPLOYEE NAME AND JOB TITLE:	Supervisor John Hall	<b>"HAS YOUR IRON BEEN INSPECTED RECENTLY?"</b>	
<b>PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED OR REQUIRED:</b>			
Hard Hat - Safety Toe Shoes/Boots - Safety Glasses - FR Apparel (worn on outer most layer) - Gloves - Hearing Protection			
SEQUENCE OF BASIC JOB STEPS	POTENTIAL ACCIDENTS OR HAZARDS	RECOMMENDED SAFE JOB PROCEDURES	
LOCATION HAZARD ASSESSMENT / SITE WALK AROUND	Slips, Trips, Falls - Driving or walking obstructions - Environmental conditions (Ice, snow, mud, water, etc.) - Emergency evacuation route.	Hold Pre Rig Up Safety meeting to discuss hazards. Be cautious of your surroundings. Avoid cluttered work/walk areas. Practice good "house keeping" in work areas. Keep walking and emergency routes clear of obstruction	
SPOT EQUIPMENT	Over head obstructions - Running into or over unseen persons/items - Blind backing of equipment - Improper equipment placement	ALWAYS use designated spotters when moving any vehicle. Do not move equipment before a walk around. Do not spot equipment near high risk areas. Do not obstruct evacuation route or road ways. Remember to chock vehicle wheels and set fire extinguishers one equipment is parked.	
RIGGING UP IRON AND HOSES	Slips, trips, falls - Pinching, smashing, or crushing of body parts - Lifting injuries - Un safe condition of, or incorrect use of tools.	Keep work area as clean as reasonable. Avoid carrying hardware through hazardous walking conditions. ALWAYS team lift to avoid un necessary strains. Be continuously aware of pinch points/body placement. Use the proper tool for the job. Do not use excessively worn or damaged tools.	
RIGGING UP IRON AND HOSES (Cont'd)	Iron inspection up to date	Inspect tag on iron to assure the inspection date is within the last 12 months	
RAISING AND LOWERING HARDWARE AND EQUIPMENT TO RIG FLOOR	Falling or unsecured loads - Pinching or crushing injury - Damaged lifting equipment	Do not walk or work under any elevated load. Always inspect lifting straps, cables, hooks, etc. before and after use. Discard damaged items. Use a tag line when possible to control movement of lifted items. Be aware of body placement/pinch points in relation to moving lifted objects. Always ensure load is secure. Never leave lifted load unattended.	
CASING / WELL CONNECTIONS	Body placement - Congested work area - Raising/lowering items - Well control conditions	If working on rig floor, be cautious of slippery conditions (drilling mud, ice, etc.). Before removing any casing/well connections, ensure all pressure is released. When making a casing connection, watch pinch points. Use extra care when hoisting cement head onto casing. When working in cellar, have a spotter. Obey the same rules as on floor. Be cautious of poor footing, difficult walking or standing conditions.	
PRE JOB SAFETY MEETING	All potential job related hazards	Conduct a pre job safety meeting with rig crew and any other 3rd party contractors on location involved with the task at hand. Discuss operation procedures and safety hazards involved with pressure pumping operations. Set up a contingency plan incase of emergency, including muster points, first aid, safety vehicles, nearest hospital, safety contacts, etc.	
PRESSURE TESTING LINES AND HARDWARE	High Pressure - Loose connections - Lines separating - Hardware blow outs	Ensure ALL personnel are aware of testing operations. Clear everyone from working area. Keep open and clear communication while testing. Before beginning test, move all personnel to a safe zone at reasonable distance from iron and hardware. Do not attempt to access or repair any issues while equipment is under pressure. Confirm release of ALL pressure before continuing any operations.	
FLUID PUMPING	Blow outs - Hardware failure - Improper valve operations - Leaks or spills	Always be aware of your self and those around you. Do not interact with the iron while pumps are in operation. If you see an issue, make all personnel aware and stop operations before attempting corrections. Double check all valve positions and function. Be aware of what is being pumped and its direction of flow. Report and identify any spills immediately.	
WASHING UP / FLUID DISPOSAL	Loose connections - Lines blowing out of wash up tank - leaks/spills - Pumping into wrong disposal container - Over flowing pits	Have someone visually inspect lines and hardware before and during clean up. Check valve placement and fluid flow to ensure all are going in the proper direction. Make sure connection at disposal container is secure. Stop operation immediately and report to supervisor if a leak or spill occurs.	
RIGGING DOWN THE JOB	Slips, trips, falls - Pinching, smashing, or crushing of body parts - Lifting injuries - Un safe condition of, or incorrect use of tools.	Keep work area as clean as reasonable. Avoid carrying hardware through hazardous walking conditions. ALWAYS team lift to avoid un necessary strains. Be continuously aware of pinch points/body placement. Use the proper tool for the job. Do not use excessively worn or damaged tools.	
EXITING LOCATION AFTER JOB	Over head obstructions - Running into or over unseen persons/items - Blind backing of equipment - Improper equipment placement	Use a spotter when moving equipment. Do not move vehicles until you have completed a walk around. Be aware of direction travel and any obstacles along the way. Do NOT rush. Before leaving location, ensure good "house keeping" procedures. Clean any trash or unused items from work zone. Report and tend to any spills or damages that may occurred during operations.	

*Any and ALL personnel retain the right to "STOP JOB AUTHORITY". This means that it is not only your right, but your responsibility to warn others of any situation that you find to be a potential safety hazard. You have the right to request the shut down of operations at any time you see the safety of yourself or your fellow workers in jeopardy. It is the responsibility of everyone on location to ensure a safe, successful job and work environment. Safety first.*

Date

10/5/2015

Job Name / Type of Job

Tapstone Energy Diel Farms 15-34-9 1H  
Surface

Yes	No	N/A
/		

ALL Iron Inspection up to date?

/		
---	--	--

Plug Container/Manifold/Bowl

/		
---	--	--

Check Manifold/Pins/Tattle tale for proper operation.

/		
---	--	--

Plugs. Top AND Bottom. Proper size.

		/
--	--	---

Casing Swage.

/		
---	--	--

Cement. Check load sheets. Ensure correct amount and type. Physically check trailer!

		/
--	--	---

Bentonite(Gel) - Correct Amount.

/		
---	--	--

Sugar - Correct amount.

		/
--	--	---

Salt - IF needed (Cold Weather)

/		
---	--	--

Additional chemicals-No Foam, Corplex(Production, Batch mixer) Etc.

/		
---	--	--

Iron/Hoses-Enough for job?

/		
---	--	--

Cement/Water Connections-Hoses, "T"s, Valves, 90s, 45s, Air Hoses, Air trailer connections, etc.

		/
--	--	---

Containment for ALL Pumping units, including batch mixer. Containment

/		
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Personal Protective Equipment-Hard Hats, Safety Glasses, Steel Toes, FR Coveralls, etc.

*John Hall*

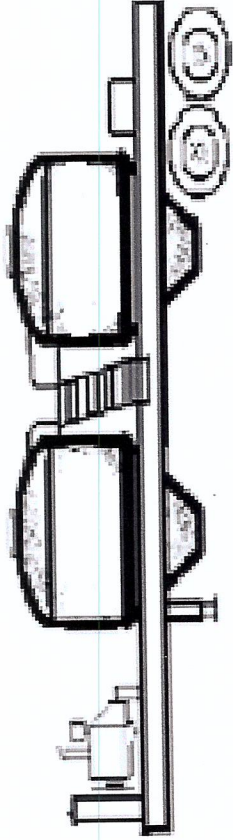
Supervisor Name

Supervisor Signature

# Job Data Sheet



COMPANY <b>Tapstone Energy</b>				PROJECT NUMBER <b>SOK 5386</b>		AFE/WORK ORDER <b>0</b>		DATE <b>10/5/2015</b>		
CONTRACTOR <b>Nomac #7</b>			Owner <b>Same</b>			LEGAL DESCRIPTION <b>15/34S/9W</b>		API <b>15-077-22155-01-00</b>		
LEASE & WELL # <b>Diel Farms 15-34-9 1H</b>				COUNTY <b>Harper</b>		STATE <b>Kansas</b>		MILEAGE <b>100</b>		
DIRECTIONS <b>HWY 58 &amp; KS STATE LINE (NORTH OF BYRON OK) - NORTH TO CR 50 - 1 MILE EAST</b>										
Pumping Services	<input checked="" type="checkbox"/> Surface		<input type="checkbox"/> Intermediate		<input type="checkbox"/> Long String		<input type="checkbox"/> Plug Back		() H2S	
	<input type="checkbox"/> Squeeze		<input type="checkbox"/> Acid		<input type="checkbox"/> PTA		<input type="checkbox"/> Other			
	Casing Size	Casing Weight	Thread	Tbng/DP Size	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	<b>9 5/8"</b>	<b>36#</b>	<b>LTC</b>			<b>YES</b>	<b>YES</b>	<b>YES</b>	<b>NO</b>	<b>150%</b>
	Number and Type Units <b>Pump Truck &amp; Bulk Materials</b>							Casing Depth	Hole Depth	Hole Size
Remarks							Est. BHST	Tubing Depth	Depth-TVD	Mud Weight/Type
							<b>80°</b>			
Materials	<b>LEAD</b>	# of Sacks	Type		Additives					
	<b>112.17</b>	<b>470</b>	Premium Plus (Class C)		<b>2% Calcium Chloride - 1/4pps Cello-Flake</b>					
	<b>H2O TO MIX</b>	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	<b>70.95</b>	<b>14.80</b>	<b>1.34</b>	<b>6.34</b>						
	<b>TAIL</b>	# of Sacks	Type		Additives					
	<b>0.00</b>									
	<b>H2O TO MIX</b>	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	<b>0.00</b>									
	<b>TOP OUT</b>	# of Sacks	Type		Additives					
	<b>H2O TO MIX</b>	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	ACID	Type		Additives						
	Inhibitor	Surfactant	clay cont.	<b>TAKE 50 # Sugar</b>						
	Spacer or Flush	Quantity	Type	Additives						
		<b>10 BBL</b>	<b>Fresh Water</b>							
	Spacer or Flush	Quantity	Type	Additives						
	Other	Quantity	Type	Additives						
Crew Called	<b>Cementer</b>		<b>Pumper</b>		<b>Bulky</b>		<b>Bulky</b>		<b>Bulky</b>	
CEOL	<b>9 5/8" SWAGE, SW, DW, BALE RACK (TAKE 7" SWAGE, BRING BACK 9 5/8")</b>									
Sales Items	Casing Size	<b>9 5/8"</b>		Casing Weight	<b>36#</b>		Thread	<b>BTC</b>		
	Guide Shoe			Float Shoe			Float Collar	Insert Float Valve		
	Centralizers - Number			Size			Type			
	Wall Cleaners - Number			Type			MSC (DV Tool)	MSC Plug Set		
	Limit Clamps			Thread lock			Other			
	Remarks									
Customer Rep.	<b>0</b>		Cell Phone	<b>0</b>		Office Phone	Fax		Time of Call	
Call Taken By	<b>Jared Sisco</b>						Date Ready	Location Time		
Crew Called							Yard Time	<b>0</b>		



Trailer Number: 880050/920099

Driver Name \_\_\_\_\_

**Front Pot  
LEAD**

Cement Class C  
235 sks

**Rear Pot  
LEAD**

Cement Class C  
235 sks

**CEMENT ADDITIVES**

2% Calcium	2% Calcium
1/4PPS Flake	1/4PPS Flake

COMPANY: Tapstone      DATE: 10/5/2015

LEASE: Diel Farms 15-34-9 1H      TICKET: SOK# 5386

<b>O-TEX / CUSTOMER QUALITY SURVEY</b>				JOB INVOICE NUMBER	JOB DATE
O-TEX LOCATION <b>Fairview Oklahoma</b>		CUSTOMER <b>Tapstone Energy</b>	WELL LOCATION (county/parish) <b>Harper</b>		CITY/TOWN <b>Harper</b>
O-TEX SUPERVISER <b>John Hall</b>		LEASE / WELL # <b>Diel Farms 15-34-9 1H</b>	(Legal's) SEC / TWP / RNG <b>15/34S/9W</b>		State <b>Kansas</b>
		JOB TYPE <b>Surface</b>	CUSTOMER REP. / PHONE <b>0 0</b>		
		WELL TYPE <b>Oil &amp; Gas</b>	<b>Nomac #7</b>		
O-TEX EMPLOYEES / JOB TIME		HRS	HRS	HRS	HRS
<b>John Hall</b>		<b>0</b>			
<b>Kyle Laskowitz</b>		<b>0</b>			
<b>Magic Mahmud</b>					
<b>0</b>					

Dear Customer,

We hope that you were satisfied with the quality, service and performance of O-TEX Pumping L.L.C.. It is the objective of our company to deliver Quality equipment and service with fair pricing that will exceed anyone else in our industry. Please take the time to let us know if your experience with O-TEX met with your satisfaction. Please be as critical as possible so that you can help us achieve our goal and ensure that your expectations are at least met every time. Your comments are very important to us and will be kept in confidence between your company and O-TEX Pumping L.L.C.

Use either rating system          YES       NO

RATING	DESCRIPTION
5	Superior Performance
4	Exceeded Expectations
3	Met Expectations
2	Below Expectations
1	Poor Performance

CATEGORY	CUSTOMER SATISFACTION RATING	RATING
<b>Safety and Environmental</b>	Did we perform in a safe & environmentally sound manner ?	
<b>Timeliness</b>	Did O-TEX respond and perform in a timely manner?	
<b>Personnel</b>	Did the O-TEX team perform to your expectations?	
<b>Equipment</b>	Did our equipment perform to your expectations?	
<b>Product/ Material</b>	Did we deliver products and materials to perform the designed job as you expected?	
<b>Job Design</b>	Did we Perform the job to the agreed upon design?	
<b>Overall performance</b>	Did we Perform in a manner that met your expectations?	

**Comments**

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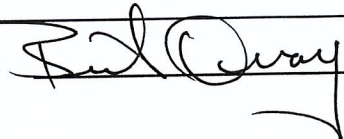
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Customer Signature: 



7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
10/19/2015	0000023979

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER,COUNTY KS AFE DC15018 API 15-077-22155-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5395	Net 30	10/10/2015	11/18/2015	AFE DC15018	DIEL FARMS 15-34-9 1H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount
ML001	Pickup Mileage	UNTMIL	100	4.26	426.00	78.00%	-332.28	93.72
ML002	Pump Truck/Heavy Vehicle Mileage	UNTMIL	100	7.32	732.00	78.00%	-570.96	161.04
ML003	Bulk Cement Delivery/Return	MILE	520	2.95	1,534.00	78.00%	-1,196.52	337.48
MX001	Bulk Material Mixing Service Charge	SCF	240	3.27	784.80	78.00%	-612.14	172.66
CC006	Pump Charge 5001-6000'	4-HRS	1	4,671.81	4,671.81	78.00%	-3,644.01	1,027.80
CC015	Pump Charge Additional Hours	UNTHRS	2	588.06	1,176.12	50.00%	-588.06	588.06
AE012	Bulk Unit Additional Hours	UNTHRS	2	130.68	261.36	50.00%	-130.68	130.68
ML014	Fuel Surcharge *	JOB	1	653.40	653.40	100.00%	-653.40	0.00
AE014	Environmental Fee*	JOB	1	228.69	228.69	100.00%	-228.69	0.00
PC003	Employee/Supervisor Retention/perdiem	PR/MAN	4	1,306.80	5,227.20	78.00%	-4,077.22	1,149.98
JM001	Data Acquisition System	JOB	1	1,437.48	1,437.48	78.00%	-1,121.23	316.25
AE003	Circulation Equipment( 40' of equipment)	JOB	1	1,633.50	1,633.50	78.00%	-1,274.13	359.37
AE002	Cement Head with manifold	JOB	1	1,176.12	1,176.12	78.00%	-917.37	258.75
CL011	7" Top Rubber Plug	EACH	1	203.28	203.28	35.00%	-71.15	132.13
CL012	7" Bottom Rubber Plug	EACH	1	440.44	440.44	35.00%	-154.15	286.29
CSB002	50/50 Poz With Premium	SACK	140	22.28	3,119.20	78.00%	-2,432.98	686.22
CP002	H (Premium Cement) (94 lbs/ft3)	94SACK	90	30.80	2,772.00	78.00%	-2,162.16	609.84
CP005	GEL	LBS	235	0.68	159.80	78.00%	-124.64	35.16
PS008	Mud Wash	GAL	840	2.04	1,713.60	78.00%	-1,336.61	376.99
CPC29	FL-17 FLA	LBS	81	40.00	3,240.00	78.00%	-2,527.20	712.80

Contact: Ellen Yoder	<b>Subtotal Amount</b>	*****
	<b>Sales Tax</b>	*****
	<b>Discount Amount</b>	*****
	<b>Payment/Credit Amount</b>	*****
	<b>Total Net Amount</b>	*****





7303 N. Highway 81  
Duncan, OK 73533

# Invoice

Date:	Invoice #:
10/19/2015	0000023979

Phone # (580) 255-3111

Bill To
Tapstone Harper Office PO Box 1608 Oklahoma City, OK 79101

Description of Work
HARPER, COUNTY KS AFE DC15018 API 15-077-22155-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5395	Net 30	10/10/2015	11/18/2015	AFE DC15018	DIEL FARMS 15-34-9 1H

Item	Description	U/M	Qty	Price Each	Amount	Disc %	Disc Amt	Net Amount

<b>Subtotal Amount</b>	31,590.80
<b>Sales Tax</b>	184.56
<b>Discount Amount</b>	-24,155.58
<b>Payment/Credit Amount</b>	0.00
<b>Total Net Amount</b>	7,619.78

Contact: Ellen Yoder

# O-TEX PUMPING LLC

Service Location Fairview, Oklahoma  
 Service Address 601 Industrial Blvd 73737

Service Date: 10/10/2015  
 Customer Tapstone Energy  
 Address:  
 City  
 St  
 Customer Rep 0  
 Phone 0

WELL Diel Farms 15-34-91 FIELD RECEIPT  
 Phone number 580-227-2727

Project Number: SOK 5395

Well Name: Diel Farms 15-34-91  
 Well Number: 1H  
 County: Harper  
 State: Kansas  
 AFE #  
 PERMIT #

Job Type Intermediate  
 Serv. Sup. Mike Hall  
 Page 1 of 1

TAPSTONE ENERGY

AFE # PC15018

WELL Diel Farms 15-34-91 FIELD RECEIPT

RIG NO MAC 7

ACT CODE 830.37

APPROVED AMT 1435.21

CO. REP [Signature]

DATE 10/10/15

REF #	DESCRIPTION	DATE	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	disc	NET
ML001	Pickup Mileage		per mile/ per Unit	4.26	100.0	\$426.00	78%	\$332.28	\$93.72
ML002	Pump Truck/Heavy Vehicle Mileage		per mile/ per Unit	7.32	100.0	\$732.00	78%	\$570.96	\$161.04
ML003	Bulk Cement Delivery/Return		per Ton-Mile	2.95	520.0	\$1,534.00	78%	\$1,196.52	\$337.48
MX001	Bulk Material Mixing Service Charge		per cuft	3.27	240.0	\$784.80	78%	\$612.14	\$172.66
CC006	Pump Charge 5001-6000'		(per 4 hrs)	4,671.81	1.0	\$4,671.81	78%	\$3,644.01	\$1,027.80
CC015	Pump Charge Additional Hours		per hour/per unit	588.06	2.0	\$1,176.12	50%	\$588.06	\$588.06
AE012	Bulk Unit Additional Hours		Per unit/per hour	130.68	2.0	\$261.36	50%	\$130.68	\$130.68
ML014	Fuel Surcharge *		per unit per job	653.40	1.0	\$653.40	100%	\$653.40	\$0.00
AE014	Environmental Fee*		per job	228.69	1.0	\$228.69	100%	\$228.69	\$0.00
PC003	Employee/Supervisor Retention/perdiem		per job	1,306.80	4.0	\$5,227.20	78%	\$4,077.22	\$1,149.98
JM001	Data Acquisition System		Per Job	1,437.48	1.0	\$1,437.48	78%	\$1,121.23	\$316.25
AE003	Circulation Equipment( 40' of equipment)		per job	1,633.50	1.0	\$1,633.50	78%	\$1,274.13	\$359.37
AE000	Circulating hose (replacement)		per hose	1,375.00	-	\$0.00	0%	\$0.00	\$0.00
AE002	Cement Head with manifold		per job	1,176.12	1.0	\$1,176.12	78%	\$917.37	\$258.75
CL011	7" Top Rubber Plug		Each	203.28	1.0	\$203.28	35%	\$71.15	\$132.13
CL012	7" Bottom Rubber Plug		Each	440.44	1.0	\$440.44	35%	\$154.15	\$286.29
CSB002	50/50 Poz with Premium (Includes 2% Gel)		per sk	22.28	140.0	\$3,119.20	78%	\$2,432.98	\$686.22
CP002	H (Premium Cement) (94 lbs/ft3)		per sk	30.80	90.0	\$2,772.00	78%	\$2,162.16	\$609.84
CP005	GEL		per lb	0.68	235.0	\$159.80	78%	\$124.64	\$35.16
CPC29	FL-17 Fluid Loss Additive 80-140F		per lb	40.00	81.0	\$3,240.00	78%	\$2,527.20	\$712.80
PS008	Mud Wash		per gal	2.04	840.0	\$1,713.60	78%	\$1,336.61	\$376.99
								Pump 1 #	980010
								Pump 2 #	0
								disc	\$24,155.59
								NET	\$7,435.21

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.

Customer Authorized Agent: \_\_\_\_\_

# SERVICE ORDER CONTRACT

Customer Name Tapstone Energy Ticket Number SOK 5395

Lease & Well Number Diel Farms 15-34-9 1H Date 10/10/2015

As consideration, The Above Named customer Agrees:

O-TEX Pumping L.L.C. shall not be responsible for and customer shall secure O-TEX pumping against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of O-TEX pumping, this provision applying to but not limited to subsurface damage and surface damage arising from subsurface damage.

O-TEX makes no guarantee to the effectiveness of the products, supplies, or materials, nor of the results of any treatment or services. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, O-TEX personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others except where due to O-TEX gross negligence or willful misconduct in the preparation or furnishing it.

Invoices payable NET 30 days following the date on the invoice.

Upon customers default in payment of the customers account by the last day of the month following the month in which the invoice is dated.

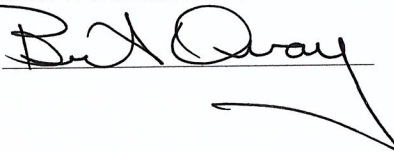
Customer agrees to pay interest thereon after at the highest lawful contract rate applicable but never to exceed 18% per annum in the event it becomes necessary to employ an attorney to enforce collection of said account.

Customer agrees to pay all collection costs and attorney fees in the amount of 25% of the unpaid account.

Service order: I authorize work to begin per service instructions in accordance with terms and conditions printed on this form and represent that I have authority to accept and sign this order.

**I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMERS AGENT.**

Customer Authorized Agent:



<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 5395</b>	TICKET DATE <b>10/10/15</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Tapstone Energy</b>	CUSTOMER REP <b>0</b>	
LEASE NAME <b>Diel Farms 15-34-9</b>	Well No. <b>1H</b>	JOB TYPE <b>Intermediate</b>	EMPLOYEE NAME <b>Mike Hall</b>	

EMP NAME	<b>Mike Hall</b>				
	<b>Jared Green</b>				
	<b>Andrew Crawford</b>				
	<b>Cheryl Newton</b>				

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
Packer Type \_\_\_\_\_ Set At **3,690'**  
Bottom Hole Temp. **155** Pressure \_\_\_\_\_  
Retainer Depth \_\_\_\_\_ Total Depth **5,095'**

	Called Out	On Location	Job Started	Job Completed
Date	<b>10/10/2015</b>	<b>10/10/2015</b>	<b>10/10/2015</b>	<b>10/10/2015</b>
Time		<b>1400</b>	<b>1830</b>	<b>2000</b>

Tools and Accessories		
Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Va	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data						
New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	<b>26#</b>	<b>7"</b>		Surface		<b>5,000</b>
Liner						
Liner						
Tubing		<b>0</b>				
Drill Pipe						
Open Hole			<b>8 1/2"</b>	Surface	<b>5,095'</b>	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
	WBM	Density	Lb/Gal
Mud Type	<b>Fresh Water</b>	<b>8.33</b>	
Disp. Fluid	<b>Fresh Water</b>	<b>8.33</b>	
Spacer type	<b>Caustic</b>	<b>10</b>	<b>8.40</b>
Spacer type			
Acid Type			%
Acid Type			%
Surfactant			In
NE Agent			In
Fluid Loss			In
Gelling Agent			In
Fric. Red.			In
MISC.			In

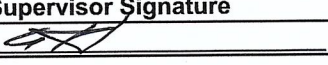
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
<b>10/10</b>	<b>6.0</b>	<b>10/10</b>	<b>2.0</b>	<b>Intermediate</b>
Total	<b>6.0</b>	Total	<b>2.0</b>	

Pressures			
<b>MAX</b>	<b>5,000 PSI</b>	<b>AVG</b>	<b>400</b>
Average Rates in BPM			
<b>MAX</b>	<b>8 BPM</b>	<b>AVG</b>	<b>4.5</b>
Cement Left in Pipe			
<b>Feet</b>	<b>84'</b>	<b>Reason</b>	<b>SHOE JOINT</b>

Cement Data				W/Rq.	Yield	Lbs/Gal
Stage	Sacks	Cement	Additives			
<b>1</b>	<b>140</b>	<b>50/50 POZ PREMIUM</b>	<b>4% Gel - 0.4% FL-17</b>	<b>6.93</b>	<b>1.43</b>	<b>13.60</b>
<b>2</b>	<b>90</b>	<b>Premium</b>	<b>0.4% FL-17</b>	<b>5.19</b>	<b>1.19</b>	<b>15.60</b>
<b>3</b>	<b>0</b>	<b>0</b>		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

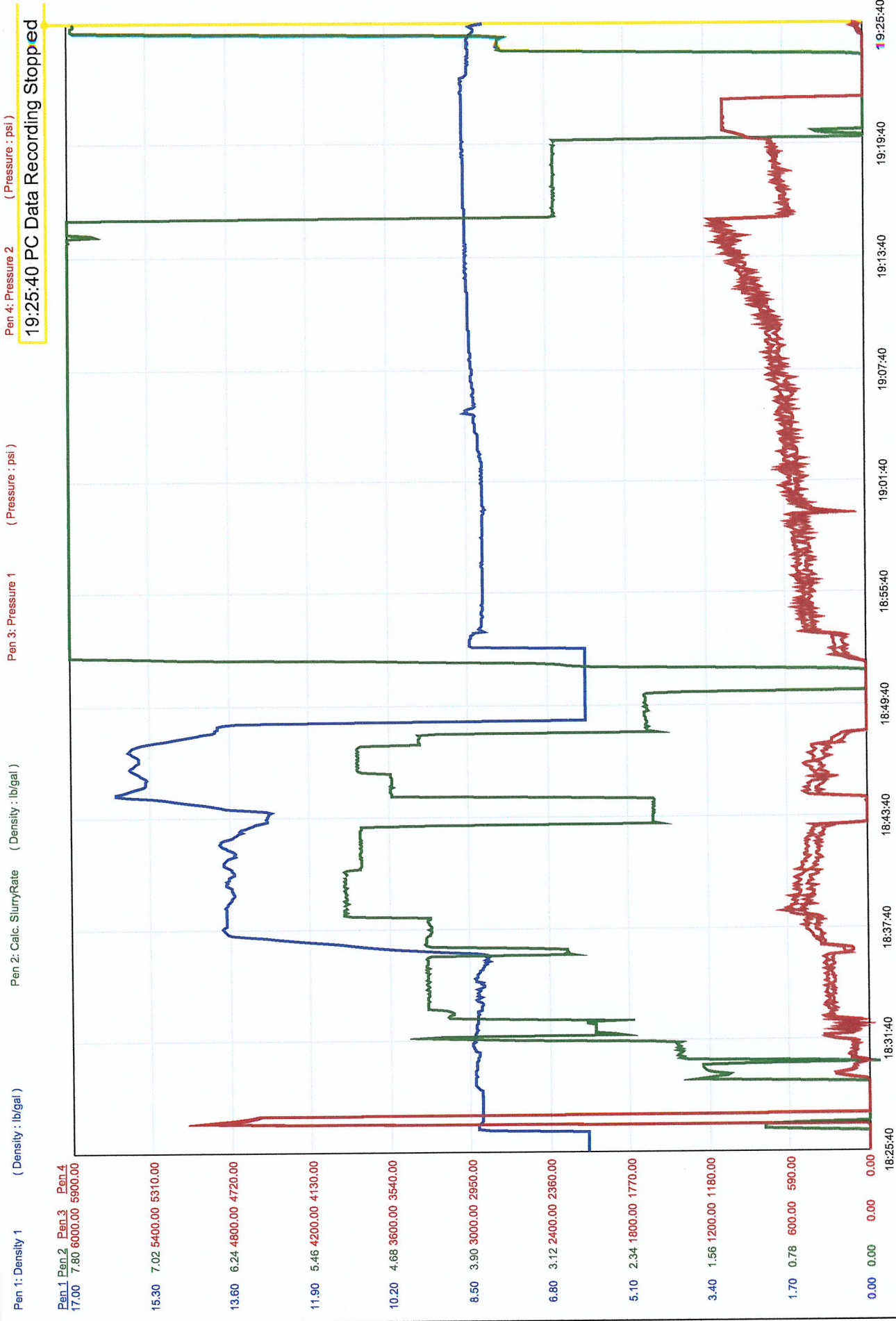
Summary					
Preflush	<b>10</b>	Type: <b>Caustic</b>	Preflush: BBI	<b>30.00</b>	Type: <b>Mud Wash</b>
Breakdown		<b>MAXIMUM</b>	Load & Bkdn: Gal - BBI	<b>N/A</b>	Pad:Bbl -Gal <b>N/A</b>
		<b>5,000 PSI</b>	Excess /Return BBI	<b>N/A</b>	Calc.Disp Bbl <b>193</b>
		<b>NO/FULL</b>	Calc. TOC:	<b>3,224'</b>	Actual Disp. <b>193.00</b>
Average		<b>1,000</b>	Final Circ. PSI:	<b>600</b>	Disp:Bbl <b>193.00</b>
ISIP	<b>5 Min.</b>	<b>10 Min</b>	Cement Slurry BBI	<b>54.0</b>	
		<b>15 Min</b>	Total Volume BBI	<b>277.00</b>	

CUSTOMER REPRESENTATIVE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

JOB LOG						PROJECT NUMBER	TICKET DATE
						SOK 5395	10/10/15
COMPANY			COUNTRY		STATE		COUNTY
Tapstone Energy			USA		Kansas		Harper
LEASE NAME				EMPLOYEE NAME		CUSTOMER REP	
Diel Farms 15-34-9 1H				Mike Hall			
FIELD				SEC / TWP / RNG		TICKET AMOUNT	
				15/34S/9W		6,716.47	
API/UWI #				JOB PURPOSE		WELL TYPE	
15-077-22155-01-00				Intermediate		Oil & Gas	
Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)			Job Description / Remarks	
			CSG.	Tbg			
10/10/15	1400					Arrived On Location	
	1500					Safety Meeting	
	1830			5,000		Test Pumps & Lines	
	1832	5.0	20	300		Mix & Pump Mudwash Spacer	
	1840	5.0	35.0	550		Mix & Pump Lead Cement @ 13.6ppg.	
	1846	5.0	19.0	450		Mix & Pump Tail Cement @ 15.6ppg.	
	1852					Shut Down/Drop Plug	
	1854	7.0		450		Start Displacement	
	1917	3.0	183.0	600		Slow To Land Plug	
	1921	3.0	193.0	1,000		Land Plug	
	1925					Check Floats W/ 1BBL. Back	
10/10/15	2000					Job Complete	
						Top Of Cement @ 3,224'	
						Top Of Tail Cement @ 4,556'	
						Supervisor Signature	
Bumped Plug	Final lift Psi	Floats Held	PSI ON CSG		CEMENT SURFACE	X 	
YES	600	YES	1000.0				



SERVICE COMPANY: O-Tex  
 TICKET NO: SOK 5395  
 CUSTOMER NAME: Tapstone Energy  
 WELL NAME: Diel Farms 15349 1H  
 WELL LOCATION: Harper County  
 DATE RECORDED: 10/10/2015  
 JOB NO: SOK 5395  
 UNIT DESCRIPTION: Nomac 7  
 UNIT NOTES: 7" Intermediate  
 FILE NAME: Tapstone Energy\_Diel Farms\_15349\_1H\_15\_10\_10\_#1.csv





Job Site Safety Meeting Attendance Sheet

Date: 10/10/2015

Job Site Leader: Mike Hall

Max Pressure: 5,000 psi PSI

Company - Lease - Well #: Tapstone Energy / Diel Farms 15-34-9 1H Ticket #: SOK 5395

	Employee Name *** Please Print ***	Employee Number	Unit Number	Trailer Number	Unit Type	Location	Company Name
1	Mike Hall		530187	820041	P/U	Fairview	O-Tex
2	Jared Green		880137	980016	Pump	Fairview	O-Tex
3	Andrew Crawford		880102	920058	Bulk	Fairview	O-Tex
4	Cheryl Newton					Fairview	O-Tex
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Job Site Safety Leader: Mike Hall

Report all Minor Injuries, Accidents, Vehicle Accidents or Environmental Spills Immediately.

# O-Tex Pumping LLC

Job Safety Analysis Worksheet		DATE:	10/10/2015
LEASE NAME AND JOB TYPE: Diel Farms 15-34-9 1H Intermediate		JOB NUMBER:	SOK 5395
EMPLOYEE NAME AND JOB TITLE: Mike Hall SUPERVISOR		Company: Rig:	Tapstone Energy Nomac #7
PERSONAL PROTECTIVE EQUIPMENT RECOMMENDED OR REQUIRED: HARD HAT / STEEL TOED BOOTS / SAFETY GLASSES / EAR PLUGS / GLOVES / COVERALLS			
SEQUENCE OF BASIC JOB STEPS	POTENTIAL ACCIDENTS OR HAZARDS	RECOMMENDED SAFE JOB PROCEDURES	
ASSESS LOCATION FOR POTENTIAL HAZARDS	SLIPS - TRIPS - FALLS	PAY ATTENTION TO SURROUNDINGS	
SAFETY HUDDLE TO DISCUSS HAZARDS AND POTENTIAL HAZARDS WHILE SPOTTING EQUIPMENT	NOT UNDERSTANDING OR HEARING JOB STEPS	SPEAK LOUD AND CLEAR - PAY ATTENTION - ASK QUESTIONS	
SPOT EQUIPMENT	BACKING INTO OR OVER SOMETHING OR SOMEONE	USE SPOTTERS AND MIRRORS - BACK SLOW - WATCH SPOTTER	
RIG UP IRON AND HOSES	SLIPS - TRIPS - FALLS - PINCH POINTS	PAY ATTENTION - DON'T RUSH OR TAKE SHORTCUTS - ASK FOR HELP IF NEEDED	
PRIME PUMPS	LEAKS - PINCH POINTS	WATCH HAND AND FOOT PLACEMENT - CHECK FOR LEAKS - WATCH PRESSURE	
RAISE STAND PIPE TO RIG FLOOR - RIG UP FLOOR	SLIPS - TRIPS - FALLS - OBJECTS FALLING - PINCH POINTS	DON'T TAKE SHORT CUTS - PAY ATTENTION TO TASK AT HAND - USE HAND RAILS WHEN GOING UP OR DOWN RIG STAIRS - DON'T GET UNDER OBJECTS BEING RAISED OR LOWERED - WATCH HAND AND FOOT PLACEMENT	
STAB PLUG CONTAINER OR DRILL PIPE PIN	SLIPS - TRIPS - FALLS - PINCH POINTS - DROPPED OBJECTS	WATCH HAND AND FOOT PLACEMENT - MAKE SURE ALL TOOLS ARE PROPERLY TIED OFF WHILE WORKING OVER HEAD - MAKE SURE LOADS ARE SECURE BEFORE LIFTING IN AIR - DON'T GET BETWEEN OBJECTS BEING LIFTED	
TEST LINES	LINES LEAKING OR EXPLODING	STAY CLEAR OF LINES WHILE UNDER PRESSURE - NEVER HAMMER ON IRON WITH PRESSURE ON IT!!!	
PUMP FLUIDS	LEAKS - PUMPING WRONG FLUID - VALVES CLOSED - PINCH POINTS	START PUMPING SLOWLY - WATCH FOR LEAKS OR RAPID PRESSURE INCREASE - WATCH HAND AND FOOT PLACEMENT - PAY ATTENTION TO YOUR JOB DUTIES	
RIG DOWN IRON	SLIPS - TRIPS - FALLS - DROPPED OBJECTS - PINCH POINTS	WATCH HAND AND FOOT PLACEMENT. DON'T WALK UNDER LOADS BEING LOWERED OR RAISED. DON'T THROW HAMMERS OR HAND TOOLS. DON'T RUSH OR TAKE SHORT CUTS. WORK TOGETHER. ASK FOR HELP OR HELP SOMEONE IF THEY NEED IT	
LEAVE LOCATION	RUNNING INTO OR OVER SOMETHING OR SOMEONE. OBJECTS FALLING FROM TRUCKS. FALLING ASLEEP WHILE DRIVING.	USE SPOTTER IF NEEDED. MAKE SURE ALL EQUIPMENT IS SECURE BEFORE MOVING TRUCK. WALK AROUND BEFORE GETTING IN CAB. IF YOU ARE TOO TIRED TO DRIVE, TAKE A NAP BEFORE LEAVING LOCATION. STOP IF YOU BECOME TOO SLEEPY AND CAN'T CONTINUE.	
Employee's Signature:			
Mike Hall O-Tex			
Jared Green O-Tex			
Cheryl Newton O-Tex			
Andrew Crawford O-Tex			

*James Hall*

*[Handwritten signature]*

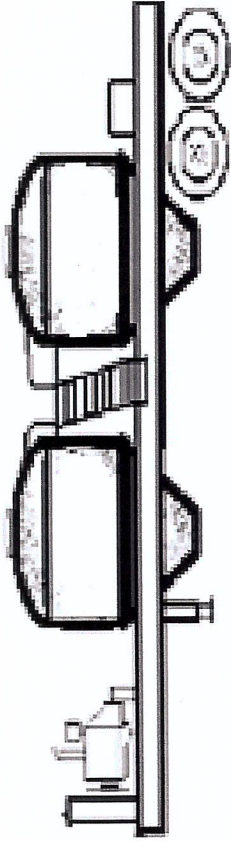
*[Handwritten signature]*



# Job Data Sheet



COMPANY <b>Tapstone Energy</b>		PROJECT NUMBER <b>SOK 5395</b>	AFE/WORK ORDER <b>0</b>	DATE <b>10/10/2015</b>	
CONTRACTOR <b>Nomac #7</b>		Owner <b>Same</b>	LEGAL DESCRIPTION <b>15/34S/9W</b>	API <b>15-077-22155-01-00</b>	
LEASE & WELL # <b>Diel Farms 15-34-9 1H</b>		COUNTY <b>Harper</b>	STATE <b>Kansas</b>	MILEAGE <b>100</b>	
DIRECTIONS <b>HWY 58 &amp; KS STATE LINE (NORTH OF BYRON OK) - NORTH TO CR 50 - 1 MILE EAST</b>					
Pumping Services	<input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Long String <input type="checkbox"/> Plug Back <input type="checkbox"/> Squeeze <input type="checkbox"/> Acid <input type="checkbox"/> PTA <input type="checkbox"/> Other    ( ) H2S				
	Casing Size <b>7"</b>	Casing Weight <b>26#</b>	Thread <b>LTC</b>	Tbng/DP Size	
	Thread	Plug. Cont. <b>YES</b>	Swage <b>YES</b>	Top Plug <b>YES</b>	
	Bottom Plug <b>NO</b>	% Excess <b>40%</b>			
	Number and Type Units <b>Pump Truck &amp; Bulk Materials</b>			Casing Depth <b>5,095'</b>	
Remarks <b>TAKE 7" TOP &amp; BOTTOM PLUG</b>			Hole Depth <b>5,095'</b>	Hole Size <b>8 3/4"</b>	
			Est. BHST <b>155</b>	TOC <b>3,690'</b>	
			Depth-TVD	Mud Weight/Type <b>9.2ppg WBM</b>	
Materials	<b>LEAD</b>	# of Sacks <b>140</b>	Type <b>50/50 POZ PREMIUM</b>	Additives	
	<b>35.66</b>			<b>4% Gel - 0.4% FL-17</b>	
	<b>H2O TO MIX</b>	Weight PPG <b>13.60</b>	Yield Ft3/Sk <b>1.43</b>		Water Gal/Sk <b>6.93</b>
	<b>23.10</b>				
	<b>TAIL</b>	# of Sacks <b>90</b>	Type <b>Premium</b>	Additives	
	<b>19.07</b>			<b>0.4% FL-17</b>	
	<b>H2O TO MIX</b>	Weight PPG <b>15.60</b>	Yield Ft3/Sk <b>1.19</b>		Water Gal/Sk <b>5.19</b>
	<b>11.12</b>				
		# of Sacks	Type	Additives	
		Weight PPG	Yield Ft3/Sk	Water Gal/Sk	
		ACID	Type	Additives	
		Inhibitor	Surfactant	clay cont.	
Spacer or Flush	Quantity <b>20 bbls</b>	Type <b>Mud Wash</b>	Additives <b>200#s SAPP - 5 Gallons Plexaid 803</b>		
Displace	Quantity	Type	Additives		
Other	Quantity	Type	Additives		
Crew Called	<b>Cementer</b>	<b>Pumper</b>	<b>Bulky</b>	<b>Bulky</b>	
	<b>Mike Hall</b>	<b>Jared Green</b>	<b>Andrew Crawford</b>	<b>Cheryl Newton</b>	
GEOL	<b>7" 8RD SWAGE, SW, DW, BALE RACK</b>				
	Casing Size <b>7"</b>	Casing Weight <b>26#</b>	Thread <b>LTC</b>		
Sales Items	Guide Shoe	Float Shoe	Float Collar	Insert Float Valve	
	Centralizers - Number	Size	Type		
	Wall Cleaners - Number	Type	MSC (DV Tool)	MSC Plug Set	
	Limit Clamps	Thread lock	Other		
	Remarks <b>TAKE 7" TOP &amp; BOTTOM PLUG</b>				
	Customer Rep. <b>0</b>	Cell Phone <b>0</b>	Office Phone	Fax	Time of Call
Call Taken By <b>Jared Sisco</b>			Date Ready	Location Time	
Crew Called <b>Mike Hall</b>			Yard Time		



Trailer Number: 880102/920058

Driver Name \_\_\_\_\_

Front Pot  
LEAD

Cement 50/50 CLASS H/POZ

140 sks

CEMENT ADDITIVES

4% GEL	
.4% FL-17	.4% FL-17

Rear Pot  
TAIL

Cement CLASS H

90 sks

COMPANY: Tapstone DATE: 10/9/2015

LEASE: Diel Farms 15-34-9 1H TICKET: SOK 5395

<b>O-TEX / CUSTOMER QUALITY SURVEY</b>		JOB INVOICE NUMBER <b>SOK 5395</b>	JOB DATE <b>SOK 5395</b>
O-TEX LOCATION <b>Fairview Oklahoma</b>	CUSTOMER <b>Tapstone Energy</b>	WELL LOCATION (county/parish) <b>Harper</b>	CITY/TOWN <b>Harper</b> State <b>Kansas</b>
O-TEX SUPERVISER <b>Mike Hall</b>	LEASE / WELL # <b>Diel Farms 15-34-9 1H</b>	(Legal's) SEC / TWP / RNG <b>15/34S/9W</b>	
	JOB TYPE <b>Intermediate</b>	CUSTOMER REP. / PHONE <b>0 0</b>	
	WELL TYPE <b>Oil &amp; Gas</b>	<b>Nomac #7</b>	
O-TEX EMPLOYEES / JOB TIME		HRS	HRS
<b>Mike Hall</b>		<b>0</b>	
<b>Jared Green</b>		<b>0</b>	
<b>Andrew Crawford</b>		<b>0</b>	
<b>Cheryl Newton</b>		<b>0</b>	

Dear Customer,

We hope that you were satisfied with the quality, service and performance of O-TEX Pumping L.L.C.. It is the objective of our company to deliver Quality equipment and service with fair pricing that will exceed anyone else in our industry. Please take the time to let us know if your experience with O-TEX met with your satisfaction. Please be as critical as possible so that you can help us achieve our goal and ensure that your expectations are at least met every time. Your comments are very important to us and will be kept in confidence between your company and O-TEX Pumping L.L.C.

Use either rating system          YES  NO

RATING	DESCRIPTION
5	Superior Performance
4	Exceeded Expectations
3	Met Expectations
2	Below Expectations
1	Poor Performance

CATEGORY	CUSTOMER SATISFACTION RATING	RATING
<b>Safety and Environmental</b>	Did we perform in a safe & environmentally sound manner ?	5
<b>Timeliness</b>	Did O-TEX respond and perform in a timely manner?	5
<b>Personnel</b>	Did the O-TEX team perform to your expectations?	5
<b>Equipment</b>	Did our equipment perform to your expectations?	5
<b>Product/ Material</b>	Did we deliver products and materials to perform the designed job as you expected?	5
<b>Job Design</b>	Did we Perform the job to the agreed upon design?	5
<b>Overall performance</b>	Did we Perform in a manner that met your expectations?	5

**Comments**

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Customer Signature: \_\_\_\_\_