

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1271671

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 Recompletion Date	Date Reached TD	Completion Date or 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: _____

1271671



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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: Leann 21-34-9 #2H
 Field/Block: Mississippi Lime
 Co./Parish: Harper Co.
 State: KS

PGS Job #: LKS6119615
 MWD Operator: Jeffery Treille
 Directional Driller: Jarod Gooch
 Date of First Survey: October 23, 2015
 Date of Last Survey:



Total Correction: 4.12 East Grid

Vertical Section Plane: 2.35 Nominal Dip Angle: 65.27 Magnetic Field Strength: 0.517

Measure d Depth	Coordinates						Closure		DL	Mtr Yield	BRN	Temp (°F)	Vib/Shk Color	Date	Time	
	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle								
Survey's are tied into: Assume vertical at casing shoe @ 838'														Date Received:	10/23/15	
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	0.40	126.90	892.99	-1.77	-1.87	2.49	3.12	126.90	0.04	0.00	0.00	91 °F	Green	10/23/15	14:20
2	1083.00	0.70	175.30	1,082.98	-3.30	-3.43	3.12	4.63	137.70	0.28	0.00	0.00	95 °F	Green	10/23/15	15:00
3	1272.00	0.60	113.40	1,271.97	-4.80	-4.97	4.12	6.46	140.34	0.36	0.00	0.00	99 °F	Green	10/23/15	15:50
4	1461.00	0.40	147.60	1,460.97	-5.69	-5.92	5.38	8.00	137.72	0.19	0.00	0.00	102 °F	Green	10/23/15	16:45
5	1650.00	0.00	8.30	1,649.97	-6.24	-6.48	5.74	8.65	138.47	0.21	0.00	0.00	109 °F	Green	10/23/15	18:10
6	1839.00	0.30	16.00	1,838.97	-5.76	-6.00	5.87	8.40	135.62	0.16	0.00	0.00	111 °F	Green	10/23/15	19:15
7	2024.00	0.70	44.40	2,023.96	-4.45	-4.73	6.80	8.28	124.83	0.25	0.00	0.00	115 °F	Green	10/23/15	20:20
8	2211.00	0.80	17.90	2,210.94	-2.34	-2.67	8.00	8.43	108.46	0.19	0.00	0.00	118 °F	Green	10/23/15	21:15
9	2402.00	0.70	91.00	2,401.93	-1.03	-1.42	9.57	9.68	98.45	0.47	0.00	0.00	122 °F	Green	10/23/15	22:45
10	2590.00	0.70	138.50	2,589.92	-1.83	-2.30	11.48	11.71	101.34	0.30	0.00	0.00	124 °F	Green	10/23/15	23:35
11	2779.00	0.60	161.40	2,778.91	-3.59	-4.10	12.56	13.22	108.09	0.15	0.00	0.00	124 °F	Green	10/24/15	0:50
12	2968.00	0.50	123.50	2,967.90	-4.94	-5.50	13.57	14.64	112.06	0.20	0.00	0.00	127 °F	Green	10/24/15	2:20
13	3157.00	0.30	83.00	3,156.89	-5.28	-5.89	14.75	15.88	111.78	0.18	0.00	0.00	95 °F	Green	10/24/15	5:00
14	3347.00	0.30	345.30	3,346.89	-4.73	-5.35	15.11	16.03	109.50	0.24	0.00	0.00	102 °F	Green	10/24/15	6:10
15	3535.00	0.20	262.40	3,534.89	-4.31	-4.92	14.66	15.47	108.54	0.18	0.00	0.00	109 °F	Green	10/24/15	7:10
16	3723.00	0.50	2.10	3,722.89	-3.55	-4.14	14.37	14.95	106.08	0.30	0.00	0.00	111 °F	Green	10/24/15	8:15
17	3849.00	0.20	323.30	3,848.89	-2.83	-3.42	14.26	14.66	103.47	0.29	12.00	7.50	113 °F	Green	10/24/15	10:00
18	3880.00	3.00	9.90	3,879.87	-1.98	-2.57	14.36	14.59	100.16	9.25	11.40	7.50	115 °F	Green	10/24/15	11:00
19	3910.00	6.40	8.40	3,909.77	0.46	-0.15	14.74	14.74	90.56	11.34	11.30	7.30	117 °F	Green	10/24/15	12:10
20	3942.00	9.00	3.40	3,941.47	4.74	4.12	15.15	15.70	74.79	8.38	12.10	7.30	117 °F	Green	10/24/15	13:10
21	3974.00	11.80	0.10	3,972.95	10.51	9.89	15.31	18.22	57.13	8.94	13.00	7.20	118 °F	Green	10/24/15	14:00
22	4005.00	13.40	359.60	4,003.20	17.27	16.65	15.29	22.61	42.55	5.17	9.40	7.30	118 °F	Green	10/24/15	15:10
23	4036.00	15.40	358.40	4,033.22	24.96	24.36	15.15	28.68	31.87	6.52	10.60	7.30	118 °F	Green	10/24/15	15:45
24	4067.00	16.80	358.10	4,063.01	33.53	32.95	14.88	36.16	24.31	4.52	8.70	7.50	118 °F	Green	10/24/15	16:30
25	4098.00	18.50	358.00	4,092.55	42.91	42.35	14.56	44.78	18.98	5.48	8.50	7.60	120 °F	Green	10/24/15	17:35
26	4129.00	20.80	358.60	4,121.74	53.31	52.76	14.26	54.66	15.12	7.45	10.00	7.60	120 °F	Green	10/24/15	18:50
27	4161.00	23.80	359.20	4,151.34	65.42	64.90	14.03	66.40	12.20	9.40	11.00	7.50	122 °F	Green	10/24/15	20:10
28	4192.00	27.50	359.80	4,179.28	78.82	78.32	13.92	79.55	10.07	11.96	13.00	7.10	124 °F	Green	10/24/15	21:50
29	4223.00	31.00	1.40	4,206.33	93.96	93.46	14.09	94.52	8.57	11.57	14.00	6.80	124 °F	Green	10/24/15	23:50
30	4254.00	34.00	1.60	4,232.47	110.61	110.11	14.52	111.06	7.51	9.68	14.00	6.60	124 °F	Green	10/25/15	1:15
31	4285.00	36.90	1.00	4,257.72	128.59	128.08	14.93	128.95	6.65	9.42	15.00	6.30	124 °F	Green	10/25/15	2:20
32	4317.00	40.00	359.70	4,282.78	148.47	147.98	15.04	148.74	5.80	10.01	15.00	6.20	126 °F	Green	10/25/15	3:50
33	4348.00	42.50	359.50	4,306.08	168.89	168.42	14.90	169.07	5.05	8.08	17.00	5.80	126 °F	Green	10/25/15	5:25
34	4380.00	44.00	359.80	4,329.39	190.79	190.34	14.76	190.91	4.44	4.73	15.10	5.90	127 °F	Green	10/25/15	6:55
35	4412.00	46.10	0.30	4,352.00	213.41	212.99	14.79	213.50	3.97	6.65	19.30	5.80	127 °F	Green	10/25/15	7:35
36	4444.00	47.30	360.00	4,373.94	236.69	236.28	14.85	236.74	3.60	3.81	12.10	6.10	127 °F	Green	10/25/15	8:30
37	4474.00	48.70	359.80	4,394.02	258.96	258.57	14.81	258.99	3.28	4.69	17.50	6.30	129 °F	Green	10/25/15	10:00
38	4505.00	50.00	359.50	4,414.21	282.45	282.09	14.66	282.47	2.98	4.26	18.80	6.70	129 °F	Green	10/25/15	11:10
39	4536.00	52.20	359.80	4,433.67	306.55	306.21	14.52	306.56	2.71	7.14	13.80	6.70	131 °F	Green	10/25/15	12:35
40	4567.00	54.50	359.90	4,452.18	331.40	331.08	14.45	331.40	2.50	7.42	19.00	6.50	131 °F	Green	10/25/15	14:15
41	4599.00	57.10	0.50	4,470.16	357.84	357.54	14.55	357.84	2.33	8.27	20.30	6.00	131 °F	Green	10/25/15	15:25
42	4630.00	59.40	0.60	4,486.48	384.19	383.90	14.80	384.19	2.21	7.42	14.30	5.50	131 °F	Green	10/25/15	16:35
43	4661.00	61.70	1.20	4,501.72	411.17	410.89	15.22	411.17	2.12	7.61	0.00	0.00	135 °F	Green	10/25/15	18:20
44	4693.00	61.60	0.80	4,516.91	439.32	439.05	15.72	439.33	2.05	1.14	0.00	0.00	135 °F	Green	10/25/15	19:30
45	4725.00	61.80	0.50	4,532.08	467.49	467.22	16.04	467.50	1.97	1.04	0.00	0.00	136 °F	Green	10/25/15	20:45
46	4756.00	62.30	0.30	4,546.61	494.86	494.61	16.23	494.87	1.88	1.71	0.00	0.00	136 °F	Green	10/25/15	22:00
47	4786.00	62.90	0.50	4,560.42	521.47	521.24	16.41	521.50	1.80	2.09	0.00	0.00	136 °F	Green	10/25/15	23:00
48	4817.00	63.10	0.30	4,574.49	549.08	548.86	16.61	549.11	1.73	0.86	0.00	0.00	136 °F	Green	10/25/15	23:50
49	4848.00	63.60	0.60	4,588.40	576.77	576.57	16.82	576.81	1.67	1.83	0.00	0.00	136 °F	Green	10/26/15	1:00
50	4879.00	64.00	0.00	4,602.08	604.57	604.38	16.97	604.62	1.61	2.16	15.00	8.20	136 °F	Green	10/26/15	2:10
51	4911.00	65.90	0.30	4,615.63	633.54	633.37	17.05	633.60	1.54	6.00	18.00	8.70	136 °F	Green	10/26/15	3:20
52	4943.00	68.60	1.00	4,628.01	663.03	662.87	17.38	663.10	1.50	8.68	16.00	8.90	133 °F	Green	10/26/15	6:00
53	4975.00	71.00	1.30	4,639.05	693.05	692.90	17.99	693.13	1.49	7.55	12.00	9.30	133 °F	Green	10/26/15	7:35
54	5007.00	73.70	1.60	4,648.76	723.54	723.38	18.76	723.62	1.49	8.48	20.80	6.50	133 °F	Green	10/26/15	10:15
55	5038.00	77.40	2.30	4,656.49	753.55	753.38	19.78	753.64	1.50	12.13	19.70	8.50	131 °F	Green	10/26/15	12:30
56	5070.00	80.80	3.20	4,662.54	784.97	784.76	21.29	785.05	1.55	10.98	16.00	7.30	133 °F	Green	10/26/15	14:45
57	5101.00	82.90	3.50	4,666.93	815.65	815.39	23.08	815.72	1.62	6.84	18.00	7.20	133 °F	Green	10/26/15	18:15
58	5182.00	88.10	3.80	4,673.29	896.35	895.95	28.22	896.39	1.80	6.43	0.00	0.00	124 °F	Yellow	10/27/15	22:40
59	5214.00	89.00	3.60	4,674.10	928.33	927.87	30.29	928.37	1.87	2.88	0.00	0.00	124 °F	Yellow	10/27/15	23:15

MWD SURVEYS

Customer: Tapstone Energy
 Well: Leann 21-34-9 #2H
 Field/Block: Mississippi Lime
 Co./Parish: Harper Co.
 State: KS

PGS Job #: LKS6119615
 MWD Operator: Jeffery Treille
 Directional Driller: Jarod Gooch
 Date of First Survey: October 23, 2015
 Date of Last Survey:



Total Correction: 4.12 East Grid

Vertical Section Plane: 2.35

Nominal Dip Angle: 65.27

Magnetic Field Strength: 0.517

Measure		Coordinates				Closure							Vib/Shk			
d	Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N/-S	+E/-W	Dist.	Angle	DLS	Mtr Yield	BRN	Temp (°F)	Color	Date	Time
60	5245.00	90.10	3.20	4,674.34	959.33	958.82	32.12	959.35	1.92	3.78	0.00	0.00	124 °F	Yellow	10/28/15	0:00
61	5277.00	91.00	2.80	4,674.03	991.32	990.77	33.80	991.35	1.95	3.08	0.00	0.00	126 °F	Yellow	10/28/15	0:45
62	5308.00	92.20	2.70	4,673.17	1,022.31	1,021.72	35.29	1,022.33	1.98	3.88	0.00	0.00	126 °F	Yellow	10/28/15	1:40
63	5339.00	92.40	2.80	4,671.92	1,053.28	1,052.66	36.77	1,053.30	2.00	0.72	0.00	0.00	127 °F	Yellow	10/28/15	2:50
64	5371.00	92.90	3.10	4,670.44	1,085.25	1,084.58	38.42	1,085.26	2.03	1.82	0.00	0.00	127 °F	Yellow	10/28/15	4:05
65	5402.00	93.00	3.00	4,668.85	1,116.20	1,115.50	40.06	1,116.22	2.06	0.46	0.00	0.00	129 °F	Yellow	10/28/15	5:15
66	5434.00	93.00	3.20	4,667.17	1,148.16	1,147.41	41.79	1,148.17	2.09	0.62	0.00	0.00	129 °F	Yellow	10/28/15	6:15
67	5465.00	93.00	3.10	4,665.55	1,179.11	1,178.32	43.49	1,179.12	2.11	0.32	0.00	0.00	129 °F	Yellow	10/28/15	7:35
68	5496.00	92.60	3.20	4,664.04	1,210.07	1,209.23	45.20	1,210.08	2.14	1.33	0.00	0.00	129 °F	Yellow	10/28/15	8:35
69	5528.00	92.10	3.20	4,662.73	1,242.04	1,241.16	46.98	1,242.05	2.17	1.56	0.00	0.00	131 °F	Yellow	10/28/15	9:35
70	5559.00	92.00	3.10	4,661.62	1,273.02	1,272.09	48.68	1,273.02	2.19	0.46	0.00	0.00	131 °F	Yellow	10/28/15	10:35
71	5591.00	92.00	2.90	4,660.50	1,305.00	1,304.03	50.36	1,305.00	2.21	0.62	0.00	0.00	131 °F	Yellow	10/28/15	11:40
72	5622.00	91.50	2.70	4,659.55	1,335.98	1,334.98	51.87	1,335.98	2.23	1.74	0.00	0.00	131 °F	Yellow	10/28/15	13:00
73	5654.00	90.80	2.60	4,658.91	1,367.97	1,366.94	53.35	1,367.98	2.24	2.21	0.00	0.00	131 °F	Yellow	10/28/15	14:15
74	5685.00	89.70	2.60	4,658.78	1,398.97	1,397.90	54.76	1,398.97	2.24	3.55	0.00	0.00	133 °F	Yellow	10/28/15	15:20
75	5717.00	89.40	2.50	4,659.03	1,430.97	1,429.87	56.18	1,430.97	2.25	0.99	0.00	0.00	133 °F	Yellow	10/28/15	16:30
76	5749.00	89.50	2.80	4,659.33	1,462.97	1,461.83	57.66	1,462.97	2.26	0.99	0.00	0.00	133 °F	Yellow	10/28/15	17:55
77	5779.00	89.40	3.10	4,659.62	1,492.97	1,491.79	59.20	1,492.97	2.27	1.05	0.00	0.00	133 °F	Yellow	10/28/15	19:00
78	5809.00	89.50	3.30	4,659.91	1,522.96	1,521.75	60.88	1,522.96	2.29	0.75	0.00	0.00	133 °F	Yellow	10/28/15	20:10
79	5840.00	89.70	3.40	4,660.13	1,553.96	1,552.69	62.69	1,553.96	2.31	0.72	0.00	0.00	133 °F	Yellow	10/28/15	21:20
80	5871.00	90.10	3.40	4,660.18	1,584.95	1,583.64	64.53	1,584.95	2.33	1.29	0.00	0.00	133 °F	Yellow	10/28/15	22:25
81	5901.00	90.70	3.40	4,659.97	1,614.94	1,613.58	66.31	1,614.94	2.35	2.00	0.00	0.00	135 °F	Yellow	10/28/15	23:25
82	5932.00	91.20	3.40	4,659.46	1,645.94	1,644.52	68.14	1,645.94	2.37	1.61	0.00	0.00	135 °F	Yellow	10/29/15	0:30
83	5962.00	91.70	3.50	4,658.70	1,675.92	1,674.46	69.95	1,675.92	2.39	1.70	0.00	0.00	135 °F	Yellow	10/29/15	1:40
84	5991.00	91.70	3.40	4,657.84	1,704.90	1,703.39	71.69	1,704.90	2.41	0.34	0.00	0.00	136 °F	Yellow	10/29/15	2:25
85	6022.00	92.20	3.80	4,656.78	1,735.88	1,734.32	73.64	1,735.88	2.43	2.07	0.00	0.00	135 °F	Yellow	10/29/15	3:45
86	6052.00	92.30	3.40	4,655.60	1,765.85	1,764.23	75.52	1,765.85	2.45	1.37	0.00	0.00	133 °F	Yellow	10/29/15	4:50
87	6083.00	91.70	3.40	4,654.52	1,796.82	1,795.16	77.36	1,796.83	2.47	1.94	0.00	0.00	133 °F	Yellow	10/29/15	6:00
88	6113.00	90.70	3.80	4,653.89	1,826.81	1,825.09	79.24	1,826.81	2.49	3.59	0.00	0.00	133 °F	Yellow	10/29/15	7:15
89	6143.00	90.10	3.70	4,653.69	1,856.80	1,855.03	81.20	1,856.80	2.51	2.03	0.00	0.00	133 °F	Yellow	10/29/15	8:35
90	6173.00	90.20	3.80	4,653.61	1,886.79	1,884.96	83.17	1,886.80	2.53	0.47	0.00	0.00	133 °F	Yellow	10/29/15	9:35
91	6203.00	90.20	3.40	4,653.50	1,916.78	1,914.90	85.05	1,916.79	2.54	1.33	0.00	0.00	135 °F	Green	10/29/15	10:25
92	6233.00	90.70	3.50	4,653.27	1,946.77	1,944.85	86.85	1,946.79	2.56	1.70	0.00	0.00	135 °F	Yellow	10/29/15	11:25
93	6263.00	91.30	3.30	4,652.74	1,976.77	1,974.79	88.63	1,976.78	2.57	2.11	0.00	0.00	135 °F	Yellow	10/29/15	12:15
94	6294.00	91.80	3.40	4,651.90	2,007.75	2,005.73	90.44	2,007.77	2.58	1.64	0.00	0.00	135 °F	Yellow	10/29/15	13:35
95	6325.00	91.70	3.70	4,650.96	2,038.73	2,036.65	92.36	2,038.75	2.60	1.02	0.00	0.00	135 °F	Green	10/29/15	14:35
96	6355.00	91.20	3.70	4,650.20	2,068.71	2,066.58	94.30	2,068.73	2.61	1.67	0.00	0.00	135 °F	Yellow	10/29/15	15:35
97	6385.00	90.80	3.80	4,649.67	2,098.70	2,096.51	96.26	2,098.72	2.63	1.37	0.00	0.00	136 °F	Yellow	10/29/15	16:20
98	6415.00	91.00	4.00	4,649.20	2,128.68	2,126.44	98.30	2,128.71	2.65	0.94	0.00	0.00	136 °F	Yellow	10/29/15	17:10
99	6445.00	91.00	3.90	4,648.68	2,158.67	2,156.36	100.37	2,158.70	2.66	0.33	0.00	0.00	136 °F	Yellow	10/29/15	18:15
100	6476.00	90.60	3.60	4,648.25	2,189.65	2,187.29	102.39	2,189.69	2.68	1.61	0.00	0.00	136 °F	Yellow	10/29/15	19:35
101	6506.00	90.70	3.20	4,647.91	2,219.65	2,217.24	104.17	2,219.68	2.69	1.37	0.00	0.00	138 °F	Yellow	10/29/15	20:40
102	6536.00	91.00	3.10	4,647.46	2,249.64	2,247.19	105.82	2,249.68	2.70	1.05	0.00	0.00	138 °F	Yellow	10/29/15	21:50
103	6566.00	91.30	3.00	4,646.86	2,279.63	2,277.14	107.42	2,279.67	2.70	1.05	0.00	0.00	138 °F	Yellow	10/29/15	23:00
104	6597.00	91.10	3.20	4,646.21	2,310.62	2,308.09	109.09	2,310.67	2.71	0.91	0.00	0.00	138 °F	Yellow	10/30/15	0:00
105	6627.00	90.60	3.30	4,645.77	2,340.61	2,338.04	110.79	2,340.66	2.71	1.70	0.00	0.00	138 °F	Yellow	10/30/15	1:00
106	6656.00	90.40	3.10	4,645.51	2,369.61	2,366.99	112.41	2,369.66	2.72	0.98	0.00	0.00	138 °F	Yellow	10/30/15	2:10
107	6687.00	90.60	3.00	4,645.24	2,400.61	2,397.95	114.06	2,400.66	2.72	0.72	0.00	0.00	138 °F	Yellow	10/30/15	3:15
108	6717.00	90.10	3.20	4,645.06	2,430.60	2,427.90	115.68	2,430.66	2.73	1.80	0.00	0.00	140 °F	Yellow	10/30/15	4:05
109	6747.00	90.20	3.20	4,644.98	2,460.60	2,457.85	117.36	2,460.66	2.73	0.33	0.00	0.00	140 °F	Yellow	10/30/15	4:50
110	6777.00	90.50	3.30	4,644.80	2,490.60	2,487.81	119.06	2,490.65	2.74	1.05	0.00	0.00	142 °F	Yellow	10/30/15	5:35
111	6807.00	90.90	3.20	4,644.43	2,520.59	2,517.76	120.76	2,520.65	2.75	1.37	0.00	0.00	142 °F	Yellow	10/30/15	6:45
112	6838.00	91.40	2.60	4,643.81	2,551.58	2,548.71	122.33	2,551.64	2.75	2.52	0.00	0.00	140 °F	Yellow	10/30/15	7:40
113	6868.00	91.30	2.30	4,643.10	2,581.57	2,578.67	123.61	2,581.63	2.74	1.05	0.00	0.00	142 °F	Yellow	10/30/15	8:30
114	6898.00	91.20	1.90	4,642.45	2,611.57	2,608.65	124.71	2,611.63	2.74	1.37	0.00	0.00	142 °F	Yellow	10/30/15	9:40
115	6929.00	90.80	1.80	4,641.91	2,642.56	2,639.63	125.71	2,642.62	2.73	1.33	0.00	0.00	142 °F	Green	10/30/15	10:40
116	6960.00	89.80	2.30	4,641.74	2,673.56	2,670.60	126.82	2,673.61	2.72	3.61	0.00	0.00	142 °F	Green	10/30/15	11:45
117	6990.00	89.60	2.50	4,641.90	2,703.56	2,700.58	128.08	2,703.61	2.72	0.94	0.00	0.00	142 °F	Yellow	10/30/15	12:45
118	7021.00	89.90	2.50	4,642.04	2,734.56	2,731.55	129.43	2,734.61	2.71	0.97	0.00	0.00	143 °F	Yellow	10/30/15	13:50
119	7051.00	90.80	2.20	4,641.85	2,764.56	2,761.52	130.66	2,764.61	2.71	3.16	0.00	0.00	144 °F	Yellow	10/30/15	14:55
120	7081.00	90.70	2.30	4,641.46	2,794.55	2,791.50	131.84	2,794.61	2.70	0.47	0.00	0.00	142 °F	Yellow	10/30/15	15:40
121	7112.00	90.40	2.60	4,641.16	2,825.55	2,822.47	133.16	2,825.61	2.70	1.37	0.00	0.00	144 °F	Yellow	10/30/15	16:20

MWD SURVEYS

Customer: Tapstone Energy
 Well: Leann 21-34-9 #2H
 Field/Block: Mississippi Lime
 Co./Parish: Harper Co.
 State: KS

PGS Job #: LKS6119615
 MWD Operator: Jeffery Treille
 Directional Driller: Jarod Gooch
 Date of First Survey: October 23, 2015
 Date of Last Survey:



Total Correction: 4.12 East Grid

Vertical Section Plane: 2.35 Nominal Dip Angle: 65.27 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	7142.00	90.40	2.60	4,640.95	2,855.55	2,852.43	134.52	2,855.60	2.70	0.00	0.00	0.00	144 °F	Yellow	10/30/15	17:10
123	7172.00	90.60	3.00	4,640.69	2,885.55	2,882.40	135.99	2,885.60	2.70	1.49	0.00	0.00	144 °F	Yellow	10/30/15	17:50
124	7203.00	90.60	3.10	4,640.37	2,916.55	2,913.35	137.64	2,916.60	2.70	0.32	0.00	0.00	144 °F	Yellow	10/30/15	18:50
125	7233.00	90.10	2.70	4,640.18	2,946.54	2,943.31	139.15	2,946.60	2.71	2.13	0.00	0.00	144 °F	Yellow	10/30/15	19:40
126	7264.00	90.00	2.60	4,640.16	2,977.54	2,974.28	140.59	2,977.60	2.71	0.46	0.00	0.00	144 °F	Yellow	10/30/15	20:35
127	7294.00	90.10	2.60	4,640.13	3,007.54	3,004.25	141.95	3,007.60	2.71	0.33	0.00	0.00	144 °F	Yellow	10/30/15	21:30
128	7324.00	90.00	2.60	4,640.10	3,037.54	3,034.22	143.31	3,037.60	2.70	0.33	0.00	0.00	144 °F	Yellow	10/30/15	22:55
129	7355.00	89.90	2.50	4,640.13	3,068.54	3,065.19	144.69	3,068.60	2.70	0.46	0.00	0.00	145 °F	Yellow	10/30/15	23:45
130	7386.00	89.80	2.30	4,640.21	3,099.54	3,096.16	145.99	3,099.60	2.70	0.72	0.00	0.00	145 °F	Yellow	10/31/15	0:50
131	7417.00	90.40	2.70	4,640.16	3,130.54	3,127.13	147.34	3,130.60	2.70	2.33	0.00	0.00	145 °F	Yellow	10/31/15	1:50
132	7447.00	90.70	2.70	4,639.87	3,160.54	3,157.10	148.75	3,160.60	2.70	1.00	0.00	0.00	145 °F	Yellow	10/31/15	2:40
133	7478.00	91.30	2.80	4,639.33	3,191.53	3,188.05	150.24	3,191.59	2.70	1.96	0.00	0.00	145 °F	Yellow	10/31/15	3:30
134	7508.00	91.70	2.90	4,638.54	3,221.52	3,218.01	151.73	3,221.58	2.70	1.37	0.00	0.00	145 °F	Yellow	10/31/15	4:40
135	7538.00	91.60	2.50	4,637.68	3,251.51	3,247.96	153.14	3,251.57	2.70	1.37	0.00	0.00	147 °F	Yellow	10/31/15	5:50
136	7568.00	91.70	2.00	4,636.82	3,281.50	3,277.93	154.32	3,281.56	2.70	1.70	0.00	0.00	147 °F	Yellow	10/31/15	7:50
137	7600.00	91.70	1.80	4,635.87	3,313.48	3,309.89	155.38	3,313.54	2.69	0.62	0.00	0.00	147 °F	Green	10/31/15	8:40
138	7630.00	90.90	1.80	4,635.19	3,343.47	3,339.87	156.32	3,343.53	2.68	2.67	0.00	0.00	147 °F	Green	10/31/15	9:45
139	7660.00	90.60	1.60	4,634.79	3,373.47	3,369.86	157.21	3,373.52	2.67	1.20	0.00	0.00	147 °F	Green	10/31/15	10:50
140	7690.00	90.20	1.20	4,634.58	3,403.46	3,399.85	157.94	3,403.51	2.66	1.89	0.00	0.00	147 °F	Yellow	10/31/15	11:50
141	7721.00	89.90	1.40	4,634.56	3,434.46	3,430.84	158.65	3,434.50	2.65	1.16	0.00	0.00	149 °F	Yellow	10/31/15	12:45
142	7751.00	90.20	1.50	4,634.53	3,464.45	3,460.83	159.41	3,464.50	2.64	1.05	0.00	0.00	149 °F	Yellow	10/31/15	14:00
143	7781.00	90.40	1.60	4,634.37	3,494.45	3,490.82	160.22	3,494.49	2.63	0.75	0.00	0.00	149 °F	Yellow	10/31/15	15:00
144	7812.00	90.60	1.40	4,634.10	3,525.45	3,521.80	161.03	3,525.48	2.62	0.91	0.00	0.00	149 °F	Yellow	10/31/15	16:10
145	7842.00	90.60	1.30	4,633.79	3,555.44	3,551.79	161.74	3,555.48	2.61	0.33	0.00	0.00	149 °F	Yellow	10/31/15	17:15
146	7873.00	90.30	1.20	4,633.55	3,586.43	3,582.79	162.41	3,586.47	2.60	1.02	0.00	0.00	149 °F	Yellow	10/31/201	18:30
147	7904.00	90.30	1.00	4,633.38	3,617.43	3,613.78	163.01	3,617.46	2.58	0.65	0.00	0.00	149 °F	Yellow	10/31/15	19:45
148	7934.00	90.20	1.00	4,633.25	3,647.42	3,643.78	163.53	3,647.44	2.57	0.33	0.00	0.00	149 °F	Yellow	10/31/15	21:10
149	7964.00	90.00	1.20	4,633.20	3,677.41	3,673.77	164.11	3,677.43	2.56	0.94	0.00	0.00	149 °F	Yellow	10/31/15	22:35
150	7995.00	89.60	1.40	4,633.31	3,708.40	3,704.76	164.81	3,708.43	2.55	1.44	0.00	0.00	149 °F	Yellow	10/31/15	23:50
151	8025.00	90.10	1.30	4,633.39	3,738.40	3,734.75	165.52	3,738.42	2.54	1.70	0.00	0.00	151 °F	Yellow	11/01/15	1:00
152	8056.00	90.90	1.30	4,633.12	3,769.39	3,765.74	166.22	3,769.41	2.53	2.58	0.00	0.00	151 °F	Yellow	11/01/15	1:30
153	8088.00	90.80	1.70	4,632.64	3,801.39	3,797.73	167.06	3,801.40	2.52	1.29	0.00	0.00	149 °F	Yellow	11/01/15	3:20
154	8120.00	90.20	1.80	4,632.36	3,833.38	3,829.71	168.04	3,833.40	2.51	1.90	0.00	0.00	149 °F	Yellow	11/01/15	5:50
155	8151.00	90.10	1.50	4,632.28	3,864.38	3,860.70	168.93	3,864.39	2.51	1.02	0.00	0.00	151 °F	Yellow	11/01/15	6:45
156	8182.00	89.80	1.30	4,632.31	3,895.38	3,891.69	169.69	3,895.39	2.50	1.16	0.00	0.00	151 °F	Yellow	11/01/15	8:10
157	8214.00	90.50	1.40	4,632.22	3,927.37	3,923.68	170.44	3,927.38	2.49	2.21	0.00	0.00	153 °F	Pink	11/01/15	19:45
158	8245.00	91.10	1.30	4,631.79	3,958.36	3,954.67	171.17	3,958.37	2.48	1.96	0.00	0.00	153 °F	Pink	11/01/15	20:45
159	8276.00	91.20	1.60	4,631.17	3,989.35	3,985.65	171.95	3,989.36	2.47	1.02	0.00	0.00	153 °F	Pink	11/01/15	22:00
160	8307.00	90.40	1.70	4,630.74	4,020.35	4,016.64	172.85	4,020.35	2.46	2.60	0.00	0.00	153 °F	Pink	11/01/15	23:20
161	8339.00	90.10	1.70	4,630.60	4,052.34	4,048.62	173.80	4,052.35	2.46	0.94	0.00	0.00	153 °F	Pink	11/02/15	0:15
162	8371.00	90.10	1.60	4,630.54	4,084.34	4,080.61	174.72	4,084.35	2.45	0.31	0.00	0.00	153 °F	Pink	11/02/15	1:15
163	8403.00	90.20	1.80	4,630.46	4,116.34	4,112.60	175.67	4,116.35	2.45	0.70	0.00	0.00	153 °F	Yellow	11/02/15	2:00
164	8434.00	90.60	1.80	4,630.24	4,147.34	4,143.58	176.64	4,147.34	2.44	1.29	0.00	0.00	153 °F	Green	11/02/15	2:35
165	8466.00	90.60	1.50	4,629.91	4,179.33	4,175.56	177.56	4,179.34	2.43	0.94	0.00	0.00	153 °F	Yellow	11/02/15	3:45
166	8497.00	89.90	1.10	4,629.77	4,210.33	4,206.56	178.27	4,210.33	2.43	2.60	0.00	0.00	153 °F	Pink	11/02/15	5:20
167	8529.00	89.40	1.60	4,629.97	4,242.32	4,238.55	179.02	4,242.32	2.42	2.21	0.00	0.00	153 °F	Pink	11/02/15	6:35
168	8561.00	89.20	1.70	4,630.36	4,274.32	4,270.53	179.94	4,274.32	2.41	0.70	0.00	0.00	154 °F	Yellow	11/02/15	7:50
169	8592.00	88.40	1.80	4,631.01	4,305.31	4,301.51	180.89	4,305.31	2.41	2.60	0.00	0.00	154 °F	Yellow	11/02/15	8:50
170	8623.00	88.60	1.60	4,631.82	4,336.30	4,332.48	181.81	4,336.30	2.40	0.91	0.00	0.00	154 °F	Pink	11/02/15	9:45
171	8655.00	89.00	2.10	4,632.49	4,368.29	4,364.46	182.84	4,368.29	2.40	2.00	0.00	0.00	154 °F	Pink	11/02/15	10:20
172	8686.00	89.20	2.00	4,632.97	4,399.28	4,395.44	183.95	4,399.28	2.40	0.72	0.00	0.00	156 °F	Yellow	11/02/15	11:15
173	8718.00	89.30	2.00	4,633.39	4,431.28	4,427.41	185.06	4,431.28	2.39	0.31	0.00	0.00	156 °F	Yellow	11/02/15	11:55
174	8749.00	89.40	2.20	4,633.75	4,462.28	4,458.39	186.20	4,462.28	2.39	0.72	0.00	0.00	156 °F	Yellow	11/02/15	12:45
175	8781.00	89.10	2.20	4,634.16	4,494.27	4,490.37	187.43	4,494.28	2.39	0.94	0.00	0.00	156 °F	Yellow	11/02/15	13:40
176	8812.00	89.50	2.00	4,634.54	4,525.27	4,521.34	188.56	4,525.27	2.39	1.44	0.00	0.00	156 °F	Yellow	11/02/15	14:35
177	8843.00	89.90	2.40	4,634.71	4,556.27	4,552.32	189.75	4,556.27	2.39	1.82	0.00	0.00	156 °F	Yellow	11/02/15	15:45
178	8876.00	89.50	2.30	4,634.88	4,589.27	4,585.29	191.11	4,589.27	2.39	1.25	0.00	0.00	156 °F	Yellow	11/02/15	17:10
179	8907.00	88.70	2.20	4,635.36	4,620.27	4,616.26	192.32	4,620.27	2.39	2.60	0.00	0.00	156 °F	Yellow	11/02/15	17:40
180	8938.00	88.50	1.90	4,636.12	4,651.26	4,647.23	193.43	4,651.26	2.38	1.16	0.00	0.00	156 °F	Yellow	11/02/15	18:15
181	8952.00	88.50	1.60	4,636.49	4,665.25	4,661.22	193.86	4,665.25	2.38	2.14	0.00	0.00	156 °F	Yellow	11/02/15	18:50
PTB	9005.00	88.50	1.60	4,637.88	4,718.23	4,714.18	195.34	4,718.23	2.37	0.00						

MWD
SURVEYS

Customer: Tapstone Energy
Well: Leann 21-34-9 #2H
Field/Block: Mississippi Lime
Co./Parish: Harper Co.
State: KS

PGS Job #: LKS6119615
MWD Operator: Jeffery Treille
Directional Driller: Jarod Gooch
Date of First Survey: October 23, 2015
Date of Last Survey:



Total Correction: 4.12 East Grid

Vertical Section Plane: 2.35 Nominal Dip Angle: 65.27 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

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Total Correction: 4.12 East Grid

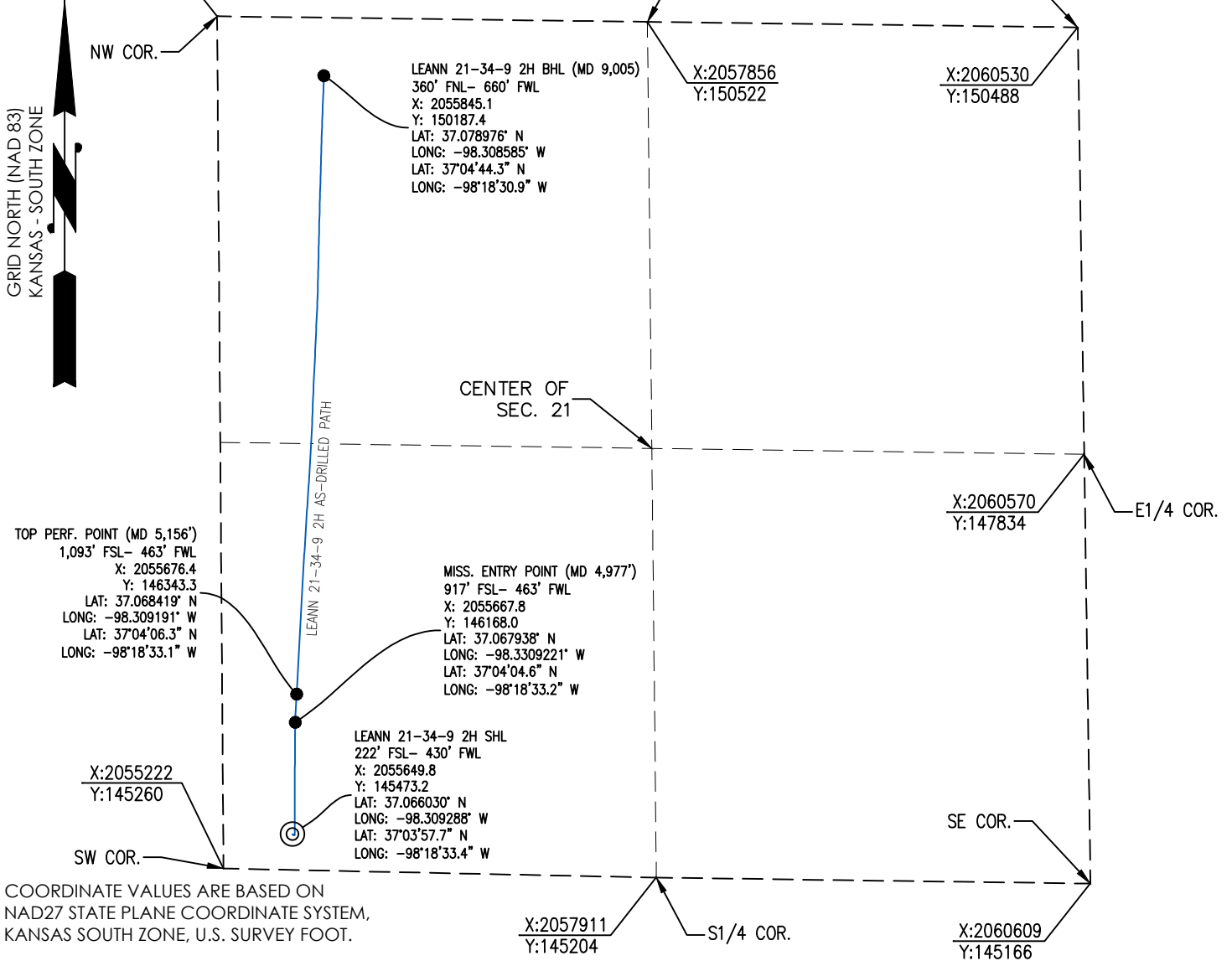
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					+N / -S	+E / -W	Dist.	Angle							



Crafton Tull
 SURVEYING

HARPER COUNTY, KANSAS
 222' FSL- 430' FWL SECTION 21 TOWNSHIP 34S RANGE 09W 6TH P.M.



OPERATOR: TAPSTONE ENERGY

WELL NO: 2H

ELEVATION:
 1,278' GR. AT STAKE

LEASE NAME: LEANN 21-34-9

TOPOGRAPHIC & VEGETATION: LOCATION FELL IN A FIELD

GOOD DRILL SITE: YES

**REFERENCE STAKES OR ALTERNATE LOCATION
 STAKES SET:** NO

BEST ACCESSIBILITY TO LOCATION: SOUTH OR WEST LINE

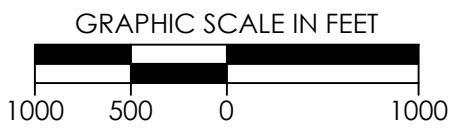
**DISTANCE & DIRECTION
 FROM HWY JCT OR TOWN:** FROM THE JCT. OF STATE HWY 2 AND SW 150 AVENUE, TRAVEL SOUTH ON SW 150 AVENUE FOR APPROXIMATELY 6 MILES TO THE SW CORNER OF S.21-T34S-R09W.

(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER ACCURACY ±2-3 METERS)
GPS DATUM: NAD-27
LAT: 37.066030° N
LONG: -98.309288° W

STATE PLANE COORDINATES:
ZONE: KS-SOUTH NAD-27
X: 2055649.8
Y: 145473.2

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 SANDRIDGE ENERGY INC. REPRESENTATIVES.

AS-DRILLED INFORMATION PROVIDED BY CLIENT.



REVISION	<p>"LEANN 21-34-9 2H" PART OF SECTION 21, T-34-S, R-09-W AS-DRILLED PLAT HARPER COUNTY, KANSAS</p>		
	SCALE: 1" = 1000'	DRAWN BY: J.PARKER	SHEET NO.: 1 OF 1



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/27/2015	0000024110

Phone # (580) 255-3111

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

Description of Work
HARPER,COUNTY KS AFE DC15027 API 15-077-22158-01-00
Job Type: Surface (New Well Only)

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5414	Net 30	10/22/2015	11/26/2015	AFE DC15027	LEANN 21-34-9 2H

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

Subtotal Amount	35,066.82
Sales Tax	254.85
Discount Amount	-27,268.29
Payment/Credit Amount	0.00
Total Net Amount	8,053.38

Contact: Ellen Yoder

10-13

TAPSTONE ENERGY

AFE # DC 15027

WELL LeAnn 21-34-9-21

RIG Vomag 7

ACT CODE 830-36

APPROVED AMT 779852

CO. REP Preston Heiskell

O-TEX PUMPING LLC

Service Location Fairview, Oklahoma
Service Address 601 Industrial Blvd 73737

Service Date: 10/22/2015
Customer Address: Tapstone Energy

City
St
Customer Rep 0
Phone 0

FIELD RECEIPT

Phone number

Well Name: Leann 21-34-9
Well Number: 2H
County: Harper
State: Kansas
API # 15-077-22158-01-00
AFE # 0

Project Number: SOK 5414

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

JOB TYPE
CASING SIZE

REF #	DESCRIPTION	DATE	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	Pump # 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%	\$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
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	-	\$0.00	75%	\$0.00	\$0.00
AE012	Bulk Unit Additional Hours		Per unit/per hour	130.68	-	\$0.00	75%	\$0.00	\$0.00
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
						\$35,066.80		\$27,268.27	\$7,798.53

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

Customer Authorized Agent: Preston Heiskell

SERVICE ORDER CONTRACT

Customer Name Tapstone Energy Ticket Number SOK 5414
Lease & Well Number Leann 21-34-9 2H Date 10/22/2015

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:

R Howard

JOB SUMMARY			PROJECT NUMBER SOK 5414	TICKET DATE 10/22/15
COUNTY Harper	State Kansas	COMPANY Tapstone Energy	CUSTOMER REP 0	
LEASE NAME Leann 21-34-9	Well No. 2H	JOB TYPE Surface	EMPLOYEE NAME Mike Hall	

EMP NAME	Mike Hall	0							
	Bryan Douglas								
	Roy Morris								
	Andrew Crawford								

Form. Name _____ Type: _____

Packer Type _____ Set At **0**

Bottom Hole Temp. **80** Pressure _____

Retainer Depth _____ Total Depth **800**

Date	Called Out	On Location	Job Started	Job Completed
	10/22/2015	10/22/2015	10/22/2015	10/22/2015
Time		1800	2053	2230

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		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	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	resh Wate BBL.		10 8.33
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

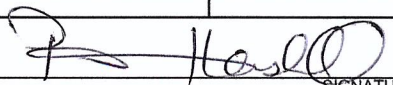
Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/22	4.0	10/22	1.0	Surface
Total	4.0	Total	1.0	

Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		
Other		

Pressures	
MAX 1,500 PSI	AVG. 150
Average Rates in BPM	
MAX 6 BPM	AVG 4
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
3	0	0		0	0.00	0.00

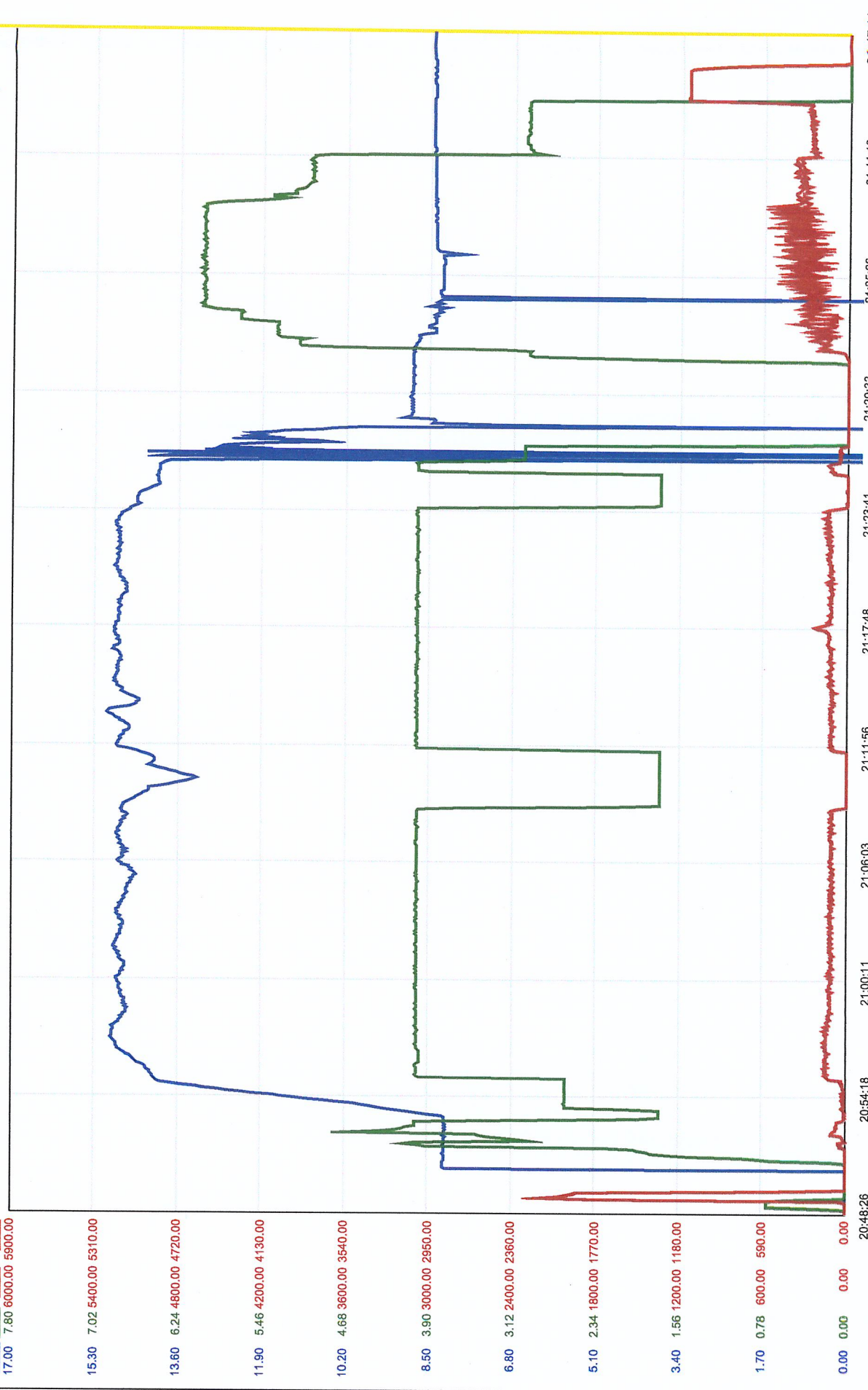
Summary					
Preflush	10.00	Type:	Fresh Water	Preflush:	BBI
Breakdown	N/A	MAXIMUM	1,500 PSI	Load & Bkdn:	Gal - BBI
	45	Lost Returns-l	NO/FULL	Excess /Return	BBI
	62	Actual TOC	SURFACE	Calc. TOC:	SURFACE
Average	300	Bump Pluq PSI:	1,150	Final Circ. PSI:	300
ISIP	5 Min.		10 Min	Cement Slurry	BBI
			15 Min	Total Volume	BBI
					184.00

CUSTOMER REPRESENTATIVE _____  _____
SIGNATURE



SERVICE COMPANY: O-Tex
 TICKET NO: SOK 5414
 CUSTOMER NAME: Tapstone Energy
 WELL NAME: Leann 21349 2H
 WELL LOCATION: Harper Kansas
 DATE RECORDED: 10/22/2015
 JOB NO: SOK 5414
 UNIT DESCRIPTION: Nomic 7
 UNIT NOTES: 9 5/8" Surface
 FILE NAME: Tapstone Energy_Leann 21349 2H_15_10_22_#1.csv

Pen 1: Density 1 (Density : lb/gal)
 Pen 2: Calc. SlurryRate (Density : lb/gal)
 Pen 3: Pressure 1 (Pressure : psi)
 Pen 4: Pressure 2 (Pressure : psi)





Job Site Safety Meeting Attendance Sheet

Date: 10/22/2015

Job Site Leader: Mike Hall

Max Pressure: 1,500 PSI PSI

Company - Lease - Well #: Tapstone Energy / Leann 21-34-9 2H Ticket #: SOK 5414

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	Bryan Douglas	880103	980010	Pump	Fairview	O-Tex
3	Roy Morris	880099	920035	Bulk	Fairview	O-Tex
4	Andrew Crawford				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: 10/22/2015
LEASE NAME AND JOB TYPE: Leann 21-34-9 2H		JOB NUMBER: SOK 5414
EMPLOYEE NAME AND JOB TITLE: Mike Hall SUPERVISOR		Rig: 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 .

Company and Name

Mike Hall O-Tex			
Bryn Douglas O-Tex	 Nomac		
Roy Morris O-Tex			
Andrew Crawford O-Tex			

Date

10/22/2015

Job Name / Type of Job

Tapstone Energy Leann 21-34-9 2H
Surface

Yes	No	N/A
yes		

ALL Iron Inspection up to date?

yes		
-----	--	--

Plug Container/Manifold/Bowl

yes		
-----	--	--

Check Manifold/Pins/Tattle tale for proper operation.

yes		
-----	--	--

Plugs. Top AND Bottom. Proper size.

yes		
-----	--	--

Casing Swage.

yes		
-----	--	--

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

		n/a
--	--	-----

Bentonite(Gel) - Correct Amount.

yes		
-----	--	--

Sugar - Correct amount.

		n/a
--	--	-----

Salt - IF needed (Cold Weather)

		n/a
--	--	-----

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

yes		
-----	--	--

Iron/Hoses-Enough for job?

yes		
-----	--	--

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

		n/a
--	--	-----

Containment for ALL Pumping units, including batch mixer. Containment

yes		
-----	--	--

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

Mike Hall

Supervisor Name



Supervisor Signature

Job Data Sheet



COMPANY Tapstone Energy		PROJECT NUMBER SOK 5414	AFE/WORK ORDER 0	DATE 10/22/2015
CONTRACTOR Nomac #7		Owner Same	LEGAL DESCRIPTION 21/34S/9W	API 15-077-22158-01-00
LEASE & WELL # Leann 21-34-9 2H		COUNTY Harper	STATE Kansas	MILEAGE 100

AMORITA - NORTH TO CR 60 - 0.9 MILES EAST - NORTH INTO

Pumping Services	<input checked="" type="checkbox"/> Surface <input 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	Casing Weight	Thread	Tbng/DP Size	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	9 5/8"	36#	LTC			YES	YES	YES	NO	150%
	Number and Type Units							Casing Depth	Hole Depth	Hole Size
	Pump Truck & Bulk Materials							800'	800'	12 1/4"

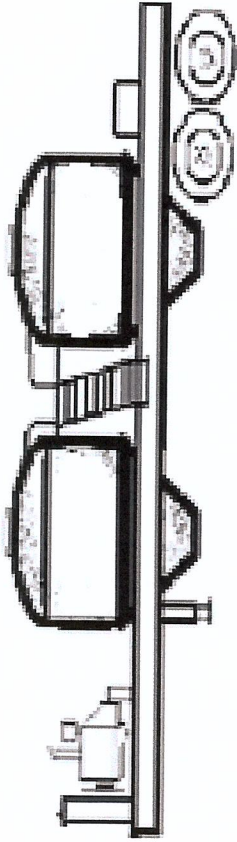
Materials	LEAD	# of Sacks	Type	Additives			
	112.17	470	Premium Plus (Class C)	2% Calcium Chloride - 1/4pps Cello-Flake			
	H2O TO MIX	Weight PPG	Yield Ft3/Sk				Water Gal/Sk
	70.95	14.80	1.34	6.34			
	TAIL	# of Sacks	Type	Additives			
	0.00						
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk			
	0.00						
	TOP OUT	# of Sacks	Type	Additives			
	ACID	Type	Additives				
	Inhibitor	Surfactant	clay cont.	TAKE 50 # Sugar			
Spacer or Flush	Quantity	Type	Additives				
	10 BBL	Fresh Water					
Spacer or Flush	Quantity	Type	Additives				
Other	Quantity	Type	Additives				

Crew Called	Cementer	Pumper	Bulky	Bulky	Bulky
	Mike Hall	Bryan Douglas	Roy Morris	Andrew Crawford	

9 5/8" SWAGE, SW, DW, BALE RACK (TAKE 7" SWAGE, BRING BACK 9 5/8")

Sales Items	Casing Size	9 5/8"	Casing Weight	36#	Thread	BTC
	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.	0	Cell Phone	0	Office Phone		Fax		Time of Call	
Call Taken By	Jared Sisco							Date Ready	
Crew Called								Location Time	
								Yard Time	0



Trailer Number: 880099/920035

Driver Name _____

Front Pot
LEAD

Cement CLASS C
235 sks

Rear Pot
LEAD

Cement CLASS C
235 sks

CEMENT ADDITIVES

2% CALCIUM	2% CALCIUM
1/4 PPS FLAKE	1/4 PPS FLAKE

COMPANY: Tapstone DATE: 10/21/2015

LEASE: Leann 21-34-9 2H TICKET: SOK# 5414

O-TEX / CUSTOMER QUALITY SURVEY			JOB INVOICE NUMBER	JOB DATE
O-TEX LOCATION Fairview Oklahoma			SOK 5414	10/22/2015
O-TEX SUPERVISER Mike Hall		CUSTOMER Tapstone Energy	WELL LOCATION (county/parish) Harper	CITY/TOWN Harper
		LEASE / WELL # Leann 21-34-9 2H	(Legal's) SEC / TWP / RNG 21/34S/9W	State Kansas
		JOB TYPE Surface	CUSTOMER REP. / PHONE 0 0	
		WELL TYPE Oil & Gas	Nomac #7	
O-TEX EMPLOYEES / JOB TIME				
	HRS		HRS	HRS
Mike Hall		0		
Bryan Douglas		0		
Roy Morris				
Andrew Crawford				

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
Safety and Environmental	Did we perform in a safe & environmentally sound manner ?	4
Timeliness	Did O-TEX respond and perform in a timely manner?	4
Personnel	Did the O-TEX team perform to your expectations?	4
Equipment	Did our equipment perform to your expectations?	4
Product/ Material	Did we deliver products and materials to perform the designed job as you expected?	4
Job Design	Did we Perform the job to the agreed upon design?	4
Overall performance	Did we Perform in a manner that met your expectations?	4

Comments

Customer Signature: _____

R. Hessel



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/29/2015	0000024138

Phone # (580) 255-3111

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

Description of Work
HARPER,COUNTY KS AFE DC15027 API 15-077-22158-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5423	Net 30	10/27/2015	11/28/2015	AFE DC15027	LEANN 21-34-9 2H

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	519	2.95	1,531.05	78.00%	-1,194.22	336.83
MX001	Bulk Material Mixing Service Charge	SCF	239	3.27	781.53	78.00%	-609.59	171.94
CC006	Pump Charge 5001-6000'	4-HRS	1	4,671.81	4,671.81	78.00%	-3,644.01	1,027.80
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

Subtotal Amount	*****
Sales Tax	*****
Discount Amount	*****
Payment/Credit Amount	*****
Total Net Amount	*****

Contact: Ellen Yoder



7303 N. Highway 81
Duncan, OK 73533

Invoice

Date:	Invoice #:
10/29/2015	0000024138

Phone # (580) 255-3111

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

Description of Work
HARPER,COUNTY KS AFE DC15027 API 15-077-22158-01-00
Job Type: Intermediate

Field Receipt	Terms	Service Date	Due Date	AFE No	Lease/Well Name
SOK5423	Net 30	10/27/2015	11/28/2015	AFE DC15027	LEANN 21-34-9 2H

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

Subtotal Amount	30,147.10
Sales Tax	184.56
Discount Amount	-23,431.99
Payment/Credit Amount	0.00
Total Net Amount	6,899.67

Contact: Ellen Yoder

RO
10-28

TAPSTONE ENERGY
 AFE # 15027
21-34-9 ZH
 WELL LEGAL
 RIG Leanna
 ACT CODE 830 37
 APPROVED AMT 675.10
 CO. REP William
10-26-13

O-TEX PUMPING LLC
 Service Location Fairview, Oklahoma
 Service Address 601 Industrial Blvd 73737

Service Date: 10/27/2015
 Customer Tapstone Energy
 Address:
 City
 St
 Customer Rep 0
 Phone 0

FIELD RECEIPT
 Phone number 580-227-2727

Well Name: Leann 21-34-9
 Well Number: 2H
 County: Harper
 State: Kansas
 API #
 AFE #
 PERMIT #
 15-077-22158-01-00

Project Number: SOK 5423

Job Type Intermediate Serv. Sup.
 Charles Spracklen
 Page 1 of 1

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	519.0	\$1,531.05	78%	\$1,194.22	\$336.83
MX001	Bulk Material Mixing Service Charge		per cuft	3.27	239.0	\$781.53	78%	\$609.59	\$171.94
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	-	\$0.00	50%	\$0.00	\$0.00
AE012	Bulk Unit Additional Hours		Per unit/per hour	130.68	-	\$0.00	50%	\$0.00	\$0.00
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
						\$30,147.10		\$23,432.00	\$6,715.10

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 5423

Lease & Well Number Leann 21-34-9 2H Date 10/27/2015

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: 

JOB SUMMARY			PROJECT NUMBER SOK 5423	TICKET DATE 10/27/15
COUNTY Harper	State Kansas	COMPANY Tapstone Energy	CUSTOMER REP 0	
LEASE NAME Leann 21-34-9	Well No. 2H	JOB TYPE Intermediate	EMPLOYEE NAME Charles Spracklen	

EMP NAME	Charles Spracklen	0					
	Kyle Laskowitz						
	Majic Muhamad						
	0.00						

Form. Name _____ Type: _____

Packer Type _____ Set At **3,740'**

Bottom Hole Temp. **155** Pressure _____

Retainer Depth _____ Total Depth **5152**

	Called Out	On Location	Job Started	Job Completed
Date	10/27/2015	10/27/2015	10/27/2015	10/27/2015
Time	04:00	06:45	0845	1030

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	
Casing		26#	7"		
Liner					
Liner					
Tubing			0		
Drill Pipe					
Open Hole			8 1/4"	Surface	5,156
Perforations					
Perforations					
Perforations					

Materials			
Mud Type	WBM	Density	9 Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33 Lb/Gal
Spacer type	Fresh Water	BBL.	20
Spacer type	Caustic	BBL.	10
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			

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
10/27		10/27		Intermediate
Total	0.0	Total	0.0	

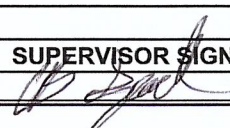
Pressures	
MAX	5,000 PSI
AVG.	550
Average Rates in BPM	
MAX	7 BPM
AVG	6
Cement Left in Pipe	
Feet	82
Reason	SHOE JOINT

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

Summary					
Preflush Breakdown	10	Type: Caustic	Preflush: BBI	20.00	Type: Mud Wash
		MAXIMUM	Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
		Lost Returns- N	Excess /Return BBI	N/A	Calc.Disp Bbl 194
		Actual TOC	Calc. TOC:	3,740	Actual Disp. 194.00
Average		Bump Plug PSI:	Final Circ. PSI:		Disp:Bbl
ISIP	5 Min.	10 Min	Cement Slurry BBI		
		15 Min	Total Volume BBI	214.00	

CUSTOMER REPRESENTATIVE _____ SIGNATURE 

JOB LOG				PROJECT NUMBER SOK 5423	TICKET DATE 10/27/15
COMPANY Tapstone Energy		COUNTRY USA		STATE Kansas	COUNTY Harper
LEASE NAME Leann 21-34-9 2H		EMPLOYEE NAME Charles Spracklen		CUSTOMER REP	
Well No.		SEC / TWP / RNG 21/34S/9W		TICKET AMOUNT 6,715.10	
FIELD		JOB PURPOSE Intermediate		WELL TYPE Oil & Gas	
API/LWI # 15-077-22158-01-00					

Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
			CSG.	Tbg	
10/27/15	0400				TIME ARRIVED IN YARD
	0430				Fit for duty meeting
	0515				Headed to location from yard!
	0645				Arrive On Location, 6jts left
	0655				Rig Up
	0845				Safety Meeting
	0858	2.0		5000	Test Lines
	0900	4.0	20.0	320	Release Bottom Plug, Pump 20bbl Mud Flush
	0906	6.0	35.0	750	Mix And Pump 140sx Lead Cmt 35bbl@13.6ppg
	0913	5.0	20.0	635	Mix And Pump 90sx Tail Cmt. 20bbl@15.6ppg
	0918				Shut down Drop Plug
	0920	7.0		435	Begin Displacement
	0930	7.0	60.0	510	Check Rate And Pressure
	0937	4.0	110.0	275	Slow Rate 4bpm for bottom plug to land
	0940	4.0	118.0	320	Bottom plug land & burst
	0942	7.0	130.0	545	Pick rate up
	0945	7.0	150.0	785	Check Rate And Pressure
	0948	3.0	174.0	610	Slow to land plug
	0955		194.0	730	Land Plug 500 over lift
	1000				Floats Held 1/2bbl return
					0345hrs@70bc
					SUPERVISOR SIGNITURE
Bumped Plug	Final lift Psi	Floats Held	PSI ON CSG	CEMENT SURFACE	X 
YES	730	YES	1300.0	no	



SERVICE COMPANY: O-TEX
 TICKET NO: SOK 5423
 CUSTOMER NAME: Tapstone Energy
 WELL NAME: Leann 21349 2H
 WELL LOCATION: Harper Kansas
 DATE RECORDED: 10/27/2015
 JOB NO: API 15-077-22158-01-00
 UNIT DESCRIPTION: Serva Double
 UNIT NOTES: 7" Intermediate
 FILE NAME: Tapstone Energy_Leann 21349 2H_15_10_27_#1.csv

Pen 1: Density 1 (Density : lb/gal) dF:10 Pen 2: Calc. SlurryRate (Density : lb/gal) dF:2 Pen 3: Pressure 1 (Pressure : psi) dF:10

Pen 1 Pen 2 Pen 3
 30.00 20.00 3500.00

27.00 18.00 3150.00

24.00 16.00 2800.00

21.00 14.00 2450.00

18.00 12.00 2100.00

15.00 10.00 1750.00

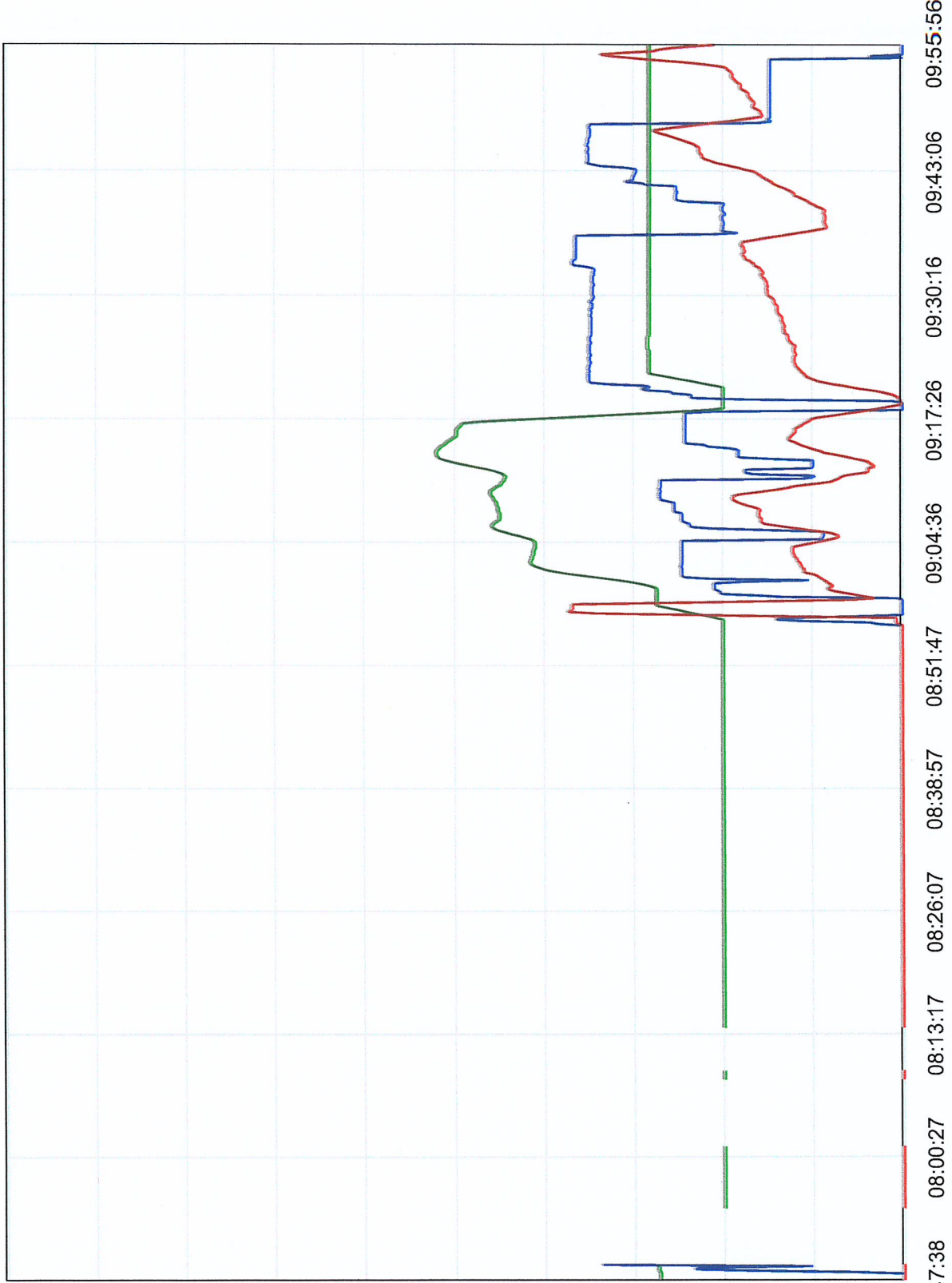
12.00 8.00 1400.00

9.00 6.00 1050.00

6.00 4.00 700.00

3.00 2.00 350.00

0.00 0.00 0.00



07:47:38 08:00:27 08:13:17 08:26:07 08:38:57 08:51:47 09:04:36 09:17:26 09:30:16 09:43:06 09:55:56

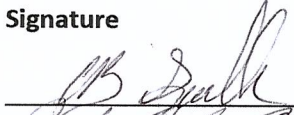
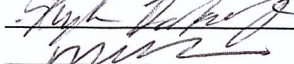
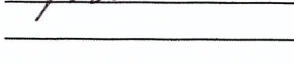
Fit For Duty Acknowledgement

Date: #####

Job: Leann 21-34-9 2H

By signing this document I understand that it is a condition of employment and acknowledge that I am fit for duty, able to perform my work duties, have the REQUIRED TRAINING for the customer on this job and also meet the following:

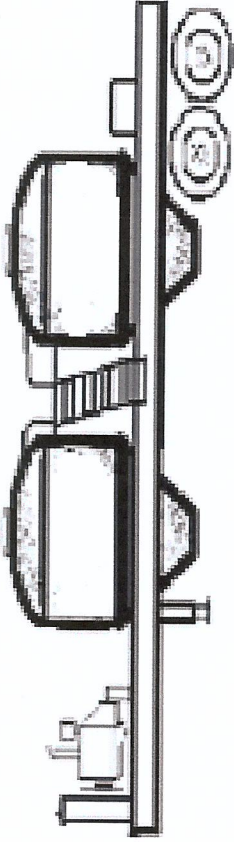
- 1 I will stay within my DOT regulated maximum service hours if I am a CDL or DOT driver. I will not use my cell phone, text nor drive aggressively
- 2 I am physically able, emotionally stable, alert and hydrated in order to adequately perform all my job duties.
- 3 I am NOT under the influence of drugs or alcohol.
- 4 I have access to and will wear certain PPE and FR clothing which is in good condition; not torn nor loose. Also I am not wearing jewelry which could become caught in equipment.
- 5 If I am a smoker, I will only smoke in designated smoking areas.
- 6 I will present myself in a professional manner and treat my co-workers and the customers' representative's with respect and courtesy.
- 7 I will respect the land on which I work and will do my best to ensure the safety of myself and others.

	Name	Signature
Dispatcher		
Supervisor	Charles Spracklen	
Crew Member	Kyle Laskowitz	
Crew Member	Majic Muhamad	
Crew Member	0.00	
Crew Member	0.00	
Crew Member		
Crew Member		
Crew Member		

Job Data Sheet



COMPANY Tapstone Energy				PROJECT NUMBER SOK 5423		AFE/WORK ORDER 0		DATE 10/27/2015		
CONTRACTOR Nomac #7			Owner Same			LEGAL DESCRIPTION 21/34S/9W		API 15-077-22158-01-00		
LEASE & WELL # Leann 21-34-9 2H				COUNTY Harper		STATE Kansas		MILEAGE 100		
DIRECTIONS AMORITA - NORTH TO CR 60 - 0.9 MILES EAST - NORTH INTO										
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	Casing Weight	Thread	Tbng/DP Size	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	7"	26#	LTC			YES	YES	YES	NO	40%
	Number and Type Units							Casing Depth	Hole Depth	Hole Size
Pump Truck & Bulk Materials							5,152	5,156	8 3/4"	
Remarks				Est. BHST	TOC	Depth-TVD	Mud Weight/Type			
TAKE 7" TOP & BOTTOM PLUG				155	3,740'		9.2ppg WBM			
Materials	LEAD	# of Sacks	Type		Additives					
	35.66	140	50/50 POZ PREMIUM		4% Gel - 0.4% FL-17					
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	23.10	13.60	1.43	6.93						
	TAIL	# of Sacks	Type		Additives					
	19.07	90	Premium		0.4% FL-17					
	H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	11.12	15.60	1.19	5.19						
		# of Sacks	Type		Additives					
		Weight PPG	Yield Ft3/Sk	Water Gal/Sk						
	ACID	Type		Additives						
	Inhibitor	Surfactant	clay cont.							
	Spacer or Flush	Quantity	Type	Additives						
	20 bbls	Mud Wash		200#s SAPP - 5 Gallons Plexaid 803						
	Displace	Quantity	Type	Additives						
	194	H2O								
	Other	Quantity	Type	Additives						
Crew Called	Cementer	Pumper	Bulky	Bulky	Bulky					
	Charles Spracklen	Kyle Laskowitz	Majic Muhamad							
CEOL	7" 8RD SWAGE, SW, DW, BALE RACK(TAKE 4.5" & 9 5/8" SWAGE AND BRING BACK 7")									
Sales Items	Casing Size	7"	Casing Weight	26#	Thread					
	Guide Shoe		Float Shoe		Float Collar		LTC Insert Float Valve			
	Centralizers - Number		Size		Type					
	Wall Cleaners - Number		Type		MSC (DV Tool)			MSC Plug Set		
	Limit Clamps		Thread lock		Other					
	Remarks	TAKE 7" TOP & BOTTOM PLUG								
Customer Rep.	0	Cell Phone	0	Office Phone		Fax		Time of Call		
Call Taken By	Robert Burris						Date Ready	10/27/15		
Crew Called	Charles Spracklen						Yard Time	1/0/00 4:00		



Trailer Number: 880104/920059

Driver Name _____

Front Pot
LEAD

Cement 50/50 ClassH/POZ
140 sks

Rear Pot
TAIL

Cement Class H
90 sks

CEMENT ADDITIVES

4% Gel	.4% FI-17
.4% FI-17	

COMPANY: Tapstone DATE: 10/26/2015

LEASE: Leann 21-34-9 2H TICKET: SOK# 5423



LOCATION WATER TEST

General Information

Customer: Tapstone Energy Date: 10/27/2015
 Sales Order #: SOK 5423 Time: 7:10
 Lease Name & #: Leann 21-34-9 2H Water Source: Rig Tank
 SL Name & Employee #: Charles Spracklen

Test Results Sample #1

	Field	Lab	Standards
Temp	<u>58</u> ° F	<u> </u> ° F	Max Temp 120° F
pH	<u>6.0</u>	<u> </u>	6.0 - 8.0
Sulfates	<u>0</u> mg/L	<u> </u> mg/L	Less Than 1800 mg/L
Chlorides	<u>285</u> mg/L	<u> </u> mg/L	Less Than 3000 mg/L
Tanin & Lignin	<u>n</u> Y/N	<u> </u> Y/N	No Trace
Bicarbonates	<u>0</u>	<u> </u> mg/L	Less Than 500 mg/L

Test Results Sample #2

	Field	Lab	Standards
Temp	<u> </u> ° F	<u> </u> ° F	Max Temp 120° F
pH	<u> </u>	<u> </u>	6.0 - 8.0
Sulfates	<u> </u> mg/L	<u> </u> mg/L	Less Than 1800 mg/L
Chlorides	<u> </u> mg/L	<u> </u> mg/L	Less Than 3000 mg/L
Tanin & Lignin	<u> </u> Y/N	<u> </u> Y/N	No Trace
Bicarbonates	<u> </u>	<u> </u> mg/L	Less Than 500 mg/L

Test Results Sample #3

	Field	Lab	Standards
Temp	<u> </u> ° F	<u> </u> ° F	Max Temp 120° F
pH	<u> </u>	<u> </u>	6.0 - 8.0
Sulfates	<u> </u> mg/L	<u> </u> mg/L	Less Than 1800 mg/L
Chlorides	<u> </u> mg/L	<u> </u> mg/L	Less Than 3000 mg/L
Tanin & Lignin	<u> </u> Y/N	<u> </u> Y/N	No Trace
Bicarbonates	<u>XXXXXXXX</u>	<u> </u> mg/L	Less Than 500 mg/L

Remarks:

O-TEX / CUSTOMER QUALITY SURVEY			JOB INVOICE NUMBER	JOB DATE
O-TEX LOCATION Fairview Oklahoma			SOK 5423	SOK 5423
O-TEX SUPERVISER Charles Spracklen		CUSTOMER Tapstone Energy	WELL LOCATION (county/parish) Harper	CITY/TOWN 21/34S/9W
		LEASE / WELL # Leann 21-34-9 2H	(Legal's) SEC / TWP / RNG	State Kansas
		JOB TYPE Intermediate	CUSTOMER REP. / PHONE 0 0	
		WELL TYPE Oil & Gas		Nomac #7
O-TEX EMPLOYEES / JOB TIME				
	HRS		HRS	HRS
Kyle Laskowitz	0			
Majic Muhamd	0			
0	0			
0	0			

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

Comments

Customer Signature:

