

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1267081  
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
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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: \_\_\_\_\_

1267081



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)*

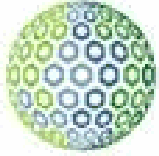
Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water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

## **TAPSTONE ENERGY**

Harper County, KS  
Salsberry 20-34-7 1H  
Salsberry 20-34-7 1H  
OH

Survey: ProDirectional

## **Survey Report**

01 October, 2015





# Professional Directional Survey Report



<b>Company:</b> TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b> Site Salsberry 20-34-7 1H
<b>Project:</b> Harper County, KS	<b>TVD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b> Salsberry 20-34-7 1H	<b>MD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

<b>Project</b> Harper County, KS	
<b>Map System:</b> US State Plane 1927 (Exact solution)	<b>System Datum:</b> Mean Sea Level
<b>Geo Datum:</b> NAD 1927 (NADCON CONUS)	
<b>Map Zone:</b> Kansas South 1502	

<b>Site</b> Salsberry 20-34-7 1H		
<b>Site Position:</b>	<b>Northing:</b> 150,809.00 usft	<b>Latitude:</b> 37° 4' 48.62 N
<b>From:</b> Map	<b>Easting:</b> 2,114,938.00 usft	<b>Longitude:</b> 98° 6' 21.71 W
<b>Position Uncertainty:</b> 0.00 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.24 °

<b>Well</b> Salsberry 20-34-7 1H			
<b>Well Position</b>	<b>+N/-S</b> 0.00 usft	<b>Northing:</b> 150,809.00 usft	<b>Latitude:</b> 37° 4' 48.62 N
	<b>+E/-W</b> 0.00 usft	<b>Easting:</b> 2,114,938.00 usft	<b>Longitude:</b> 98° 6' 21.71 W
<b>Position Uncertainty</b> 0.00 usft		<b>Wellhead Elevation:</b> 1,403.00 usft	<b>Ground Level:</b> 1,381.00 usft

<b>Wellbore</b> OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/12/2015	3.82	65.28	51,479

<b>Design</b> OH				
<b>Audit Notes:</b>				
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.00		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	186.66

<b>Survey Program</b> Date 10/1/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
862.00	9,412.00	ProDirectional (OH)	ProMWD	MWD - Standard



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<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	150,809.00	2,114,938.00	
862.00	0.30	59.70	862.00	-1.36	1.14	1.95	2.26	59.70	150,810.14	2,114,939.95	
925.00	1.00	135.00	924.99	-1.11	0.83	2.48	2.62	71.43	150,809.83	2,114,940.48	
988.00	2.10	147.70	987.97	0.12	-0.53	3.49	3.53	98.67	150,808.47	2,114,941.49	
1,083.00	3.30	167.10	1,082.86	4.05	-4.67	5.03	6.86	132.89	150,804.33	2,114,943.03	
1,178.00	4.10	167.80	1,177.66	9.84	-10.65	6.35	12.40	149.19	150,798.35	2,114,944.35	
1,272.00	4.00	168.10	1,271.43	16.13	-17.15	7.74	18.81	155.70	150,791.85	2,114,945.74	
1,367.00	4.70	166.10	1,366.16	22.92	-24.17	9.36	25.91	158.83	150,784.83	2,114,947.36	
1,462.00	4.30	168.20	1,460.86	29.94	-31.43	11.02	33.31	160.68	150,777.57	2,114,949.02	
1,557.00	3.90	167.60	1,555.62	36.37	-38.07	12.44	40.05	161.90	150,770.93	2,114,950.44	
1,650.00	2.60	164.10	1,648.47	41.31	-43.19	13.70	45.31	162.40	150,765.81	2,114,951.70	
1,744.00	2.20	161.30	1,742.39	44.91	-46.95	14.86	49.25	162.43	150,762.05	2,114,952.86	
1,837.00	1.40	140.50	1,835.34	47.31	-49.52	16.16	52.09	161.93	150,759.48	2,114,954.16	
1,930.00	1.00	145.80	1,928.32	48.71	-51.06	17.34	53.93	161.25	150,757.94	2,114,955.34	
2,024.00	0.90	145.70	2,022.31	49.89	-52.35	18.21	55.43	160.82	150,756.65	2,114,956.21	
2,118.00	0.80	147.90	2,116.30	50.96	-53.52	18.98	56.78	160.47	150,755.48	2,114,956.98	
2,212.00	0.80	157.90	2,210.29	52.04	-54.68	19.57	58.08	160.30	150,754.32	2,114,957.57	
2,306.00	0.70	2.40	2,304.28	52.05	-54.72	19.85	58.20	160.06	150,754.28	2,114,957.85	
2,399.00	0.60	356.50	2,397.28	51.00	-53.66	19.84	57.21	159.71	150,755.34	2,114,957.84	
2,492.00	0.80	8.90	2,490.27	49.87	-52.54	19.91	56.18	159.24	150,756.46	2,114,957.91	
2,585.00	0.70	24.00	2,583.26	48.68	-51.38	20.24	55.22	158.50	150,757.62	2,114,958.24	
2,679.00	0.80	43.50	2,677.25	47.61	-50.37	20.93	54.55	157.44	150,758.63	2,114,958.93	
2,774.00	0.80	330.20	2,772.25	46.54	-49.32	21.05	53.62	156.88	150,759.68	2,114,959.05	
2,869.00	0.80	305.60	2,867.24	45.69	-48.36	20.19	52.40	157.34	150,760.64	2,114,958.19	
2,964.00	0.70	324.50	2,962.23	44.94	-47.50	19.31	51.27	157.88	150,761.50	2,114,957.31	
3,058.00	0.80	320.00	3,056.22	44.06	-46.53	18.55	50.09	158.26	150,762.47	2,114,956.55	
3,152.00	1.00	316.40	3,150.21	43.09	-45.43	17.57	48.71	158.86	150,763.57	2,114,955.57	



# Professional Directional Survey Report



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<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
3,246.00	0.90	241.60	3,244.20	42.99	-45.19	16.35	48.06	160.11	150,763.81	2,114,954.35	
3,339.00	0.50	205.30	3,337.19	43.79	-45.90	15.54	48.46	161.30	150,763.10	2,114,953.54	
3,433.00	0.60	183.90	3,431.19	44.67	-46.76	15.33	49.21	161.85	150,762.24	2,114,953.33	
3,526.00	0.70	173.40	3,524.18	45.71	-47.81	15.36	50.22	162.19	150,761.19	2,114,953.36	
3,620.00	1.00	148.10	3,618.17	46.91	-49.08	15.86	51.58	162.09	150,759.92	2,114,953.86	
3,715.00	0.80	134.20	3,713.16	47.96	-50.25	16.77	52.97	161.54	150,758.75	2,114,954.77	
3,809.00	0.30	140.10	3,807.16	48.53	-50.89	17.40	53.79	161.13	150,758.11	2,114,955.40	
3,904.00	0.00	141.00	3,902.16	48.70	-51.08	17.56	54.02	161.03	150,757.92	2,114,955.56	
3,935.00	0.20	117.90	3,933.16	48.72	-51.11	17.61	54.06	160.99	150,757.89	2,114,955.61	
3,967.00	1.90	188.30	3,965.15	49.27	-51.66	17.58	54.57	161.21	150,757.34	2,114,955.58	
3,998.00	5.40	192.90	3,996.08	51.24	-53.59	17.18	56.28	162.23	150,755.41	2,114,955.18	
4,030.00	7.90	193.00	4,027.87	54.92	-57.20	16.35	59.49	164.05	150,751.80	2,114,954.35	
4,062.00	10.20	191.50	4,059.47	59.93	-62.12	15.29	63.98	166.17	150,746.88	2,114,953.29	
4,093.00	12.00	189.10	4,089.88	65.89	-68.00	14.23	69.47	168.18	150,741.00	2,114,952.23	
4,124.00	14.50	188.20	4,120.06	72.99	-75.02	13.17	76.17	170.04	150,733.98	2,114,951.17	
4,156.00	17.20	188.00	4,150.84	81.72	-83.67	11.94	84.52	171.88	150,725.33	2,114,949.94	
4,187.00	19.60	186.60	4,180.25	91.51	-93.38	10.70	93.99	173.46	150,715.62	2,114,948.70	
4,219.00	22.50	185.40	4,210.11	103.00	-104.81	9.51	105.24	174.82	150,704.19	2,114,947.51	
4,250.00	25.20	184.60	4,238.46	115.52	-117.29	8.42	117.59	175.89	150,691.71	2,114,946.42	
4,281.00	27.50	184.50	4,266.24	129.27	-131.01	7.33	131.21	176.80	150,677.99	2,114,945.33	
4,312.00	29.40	185.20	4,293.49	144.03	-145.72	6.08	145.85	177.61	150,663.28	2,114,944.08	
4,343.00	31.10	185.90	4,320.27	159.65	-161.27	4.57	161.33	178.38	150,647.73	2,114,942.57	
4,375.00	33.50	186.70	4,347.32	176.74	-178.26	2.69	178.28	179.14	150,630.74	2,114,940.69	
4,407.00	35.90	186.30	4,373.63	194.96	-196.36	0.63	196.36	179.82	150,612.64	2,114,938.63	
4,438.00	38.00	185.40	4,398.40	213.59	-214.89	-1.27	214.90	180.34	150,594.11	2,114,936.73	
4,469.00	39.70	185.00	4,422.54	233.03	-234.26	-3.03	234.28	180.74	150,574.74	2,114,934.97	
4,500.00	41.70	186.20	4,446.04	253.24	-254.38	-5.01	254.42	181.13	150,554.62	2,114,932.99	



# Professional Directional Survey Report



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<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
4,532.00	44.20	187.50	4,469.46	275.04	-276.02	-7.61	276.13	181.58	150,532.98	2,114,930.39
4,563.00	46.80	188.70	4,491.19	297.14	-297.91	-10.73	298.10	182.06	150,511.09	2,114,927.27
4,594.00	49.00	189.00	4,511.97	320.12	-320.63	-14.27	320.95	182.55	150,488.37	2,114,923.73
4,626.00	51.30	189.10	4,532.47	344.67	-344.89	-18.14	345.37	183.01	150,464.11	2,114,919.86
4,658.00	53.90	189.50	4,551.91	370.06	-369.98	-22.25	370.65	183.44	150,439.02	2,114,915.75
4,689.00	56.80	189.10	4,569.53	395.53	-395.14	-26.37	396.02	183.82	150,413.86	2,114,911.63
4,720.00	59.40	188.00	4,585.91	421.83	-421.16	-30.27	422.25	184.11	150,387.84	2,114,907.73
4,752.00	61.50	187.10	4,601.69	449.67	-448.76	-33.93	450.04	184.32	150,360.24	2,114,904.07
4,783.00	61.20	186.70	4,616.56	476.87	-475.77	-37.20	477.22	184.47	150,333.23	2,114,900.80
4,814.00	61.40	186.80	4,631.44	504.06	-502.77	-40.39	504.39	184.59	150,306.23	2,114,897.61
4,844.00	61.90	186.50	4,645.69	530.46	-528.99	-43.45	530.78	184.70	150,280.01	2,114,894.55
4,875.00	62.50	186.20	4,660.15	557.88	-556.25	-46.48	558.19	184.78	150,252.75	2,114,891.52
4,906.00	62.40	185.80	4,674.49	585.37	-583.58	-49.36	585.66	184.83	150,225.42	2,114,888.64
4,938.00	62.70	185.70	4,689.24	613.76	-611.84	-52.20	614.06	184.88	150,197.16	2,114,885.80
4,968.00	63.20	185.40	4,702.88	640.47	-638.43	-54.79	640.78	184.90	150,170.57	2,114,883.21
5,000.00	63.70	185.50	4,717.18	669.09	-666.92	-57.50	669.40	184.93	150,142.08	2,114,880.50
5,031.00	65.80	185.90	4,730.41	697.13	-694.82	-60.29	697.43	184.96	150,114.18	2,114,877.71
5,062.00	68.60	186.20	4,742.42	725.70	-723.24	-63.30	726.00	185.00	150,085.76	2,114,874.70
5,093.00	71.50	186.90	4,752.99	754.84	-752.18	-66.63	755.13	185.06	150,056.82	2,114,871.37
5,125.00	73.90	187.10	4,762.51	785.38	-782.51	-70.35	785.66	185.14	150,026.49	2,114,867.65
5,156.00	77.10	188.00	4,770.27	815.39	-812.25	-74.30	815.65	185.23	149,996.75	2,114,863.70
5,187.00	80.90	188.10	4,776.19	845.81	-842.38	-78.56	846.03	185.33	149,966.62	2,114,859.44
5,218.00	83.80	188.10	4,780.31	876.52	-872.79	-82.88	876.72	185.42	149,936.21	2,114,855.12
5,249.00	85.10	188.10	4,783.31	907.36	-903.34	-87.23	907.54	185.52	149,905.66	2,114,850.77
5,283.00	87.10	188.40	4,785.62	941.27	-936.91	-92.10	941.42	185.61	149,872.09	2,114,845.90
5,342.00	89.60	187.60	4,787.32	1,000.22	-995.30	-100.31	1,000.35	185.75	149,813.70	2,114,837.69
5,374.00	90.30	187.70	4,787.35	1,032.22	-1,027.02	-104.57	1,032.33	185.81	149,781.98	2,114,833.43





# Professional Directional Survey Report



<b>Company:</b> TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b> Site Salsberry 20-34-7 1H
<b>Project:</b> Harper County, KS	<b>TVD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b> Salsberry 20-34-7 1H	<b>MD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
5,405.00	90.70	187.70	4,787.08	1,063.21	-1,057.74	-108.72	1,063.31	185.87	149,751.26	2,114,829.28	
5,437.00	90.20	188.10	4,786.83	1,095.20	-1,089.43	-113.12	1,095.29	185.93	149,719.57	2,114,824.88	
5,469.00	90.00	188.10	4,786.77	1,127.19	-1,121.11	-117.63	1,127.27	185.99	149,687.89	2,114,820.37	
5,500.00	89.90	188.00	4,786.80	1,158.18	-1,151.81	-121.97	1,158.25	186.04	149,657.19	2,114,816.03	
5,532.00	89.50	188.30	4,786.97	1,190.17	-1,183.49	-126.50	1,190.23	186.10	149,625.51	2,114,811.50	
5,563.00	89.40	188.30	4,787.26	1,221.16	-1,214.16	-130.98	1,221.20	186.16	149,594.84	2,114,807.02	
5,593.00	89.40	187.90	4,787.58	1,251.15	-1,243.86	-135.21	1,251.19	186.20	149,565.14	2,114,802.79	
5,623.00	89.60	187.40	4,787.84	1,281.14	-1,273.59	-139.20	1,281.17	186.24	149,535.41	2,114,798.80	
5,653.00	89.30	187.50	4,788.13	1,311.14	-1,303.34	-143.09	1,311.17	186.27	149,505.66	2,114,794.91	
5,683.00	89.00	187.20	4,788.57	1,341.13	-1,333.09	-146.93	1,341.16	186.29	149,475.91	2,114,791.07	
5,714.00	88.50	187.70	4,789.25	1,372.12	-1,363.82	-150.94	1,372.14	186.32	149,445.18	2,114,787.06	
5,744.00	88.30	187.70	4,790.09	1,402.10	-1,393.53	-154.96	1,402.12	186.35	149,415.47	2,114,783.04	
5,774.00	89.10	188.10	4,790.77	1,432.09	-1,423.24	-159.08	1,432.11	186.38	149,385.76	2,114,778.92	
5,804.00	90.20	187.90	4,790.95	1,462.08	-1,452.95	-163.26	1,462.09	186.41	149,356.05	2,114,774.74	
5,834.00	90.70	187.70	4,790.71	1,492.07	-1,482.67	-167.33	1,492.08	186.44	149,326.33	2,114,770.67	
5,864.00	91.10	187.60	4,790.24	1,522.06	-1,512.40	-171.32	1,522.07	186.46	149,296.60	2,114,766.68	
5,894.00	90.80	187.60	4,789.75	1,552.06	-1,542.13	-175.29	1,552.06	186.48	149,266.87	2,114,762.71	
5,925.00	90.90	187.50	4,789.29	1,583.05	-1,572.86	-179.36	1,583.05	186.51	149,236.14	2,114,758.64	
5,955.00	90.60	187.60	4,788.89	1,613.04	-1,602.60	-183.31	1,613.05	186.53	149,206.40	2,114,754.69	
5,985.00	90.50	187.40	4,788.61	1,643.04	-1,632.34	-187.22	1,643.04	186.54	149,176.66	2,114,750.78	
6,015.00	91.10	187.40	4,788.19	1,673.03	-1,662.09	-191.08	1,673.03	186.56	149,146.91	2,114,746.92	
6,046.00	91.60	187.40	4,787.46	1,704.02	-1,692.82	-195.08	1,704.02	186.57	149,116.18	2,114,742.92	
6,077.00	91.40	187.30	4,786.64	1,735.01	-1,723.55	-199.04	1,735.01	186.59	149,085.45	2,114,738.96	
6,107.00	91.00	186.80	4,786.02	1,765.00	-1,753.32	-202.72	1,765.00	186.60	149,055.68	2,114,735.28	
6,137.00	90.00	187.00	4,785.75	1,795.00	-1,783.10	-206.33	1,795.00	186.60	149,025.90	2,114,731.67	
6,167.00	89.00	186.50	4,786.02	1,825.00	-1,812.89	-209.85	1,825.00	186.60	148,996.11	2,114,728.15	
6,197.00	88.80	186.20	4,786.59	1,854.99	-1,842.70	-213.17	1,854.99	186.60	148,966.30	2,114,724.83	



# Professional Directional Survey Report



<b>Company:</b>	TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b>	Site Salsberry 20-34-7 1H
<b>Project:</b>	Harper County, KS	<b>TVD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b>	Salsberry 20-34-7 1H	<b>MD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b>	Salsberry 20-34-7 1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
6,227.00	89.40	186.30	4,787.06	1,884.99	-1,872.52	-216.43	1,884.99	186.59	148,936.48	2,114,721.57	
6,257.00	89.90	185.90	4,787.25	1,914.98	-1,902.35	-219.62	1,914.99	186.59	148,906.65	2,114,718.38	
6,287.00	90.50	185.90	4,787.14	1,944.98	-1,932.19	-222.71	1,944.98	186.57	148,876.81	2,114,715.29	
6,318.00	90.60	185.90	4,786.84	1,975.98	-1,963.03	-225.89	1,975.98	186.56	148,845.97	2,114,712.11	
6,348.00	90.50	186.20	4,786.56	2,005.97	-1,992.86	-229.05	2,005.98	186.56	148,816.14	2,114,708.95	
6,378.00	90.70	186.70	4,786.24	2,035.97	-2,022.66	-232.42	2,035.98	186.56	148,786.34	2,114,705.58	
6,408.00	90.70	187.20	4,785.88	2,065.97	-2,052.44	-236.05	2,065.97	186.56	148,756.56	2,114,701.95	
6,439.00	90.60	187.60	4,785.52	2,096.96	-2,083.18	-240.05	2,096.97	186.57	148,725.82	2,114,697.95	
6,469.00	90.00	187.10	4,785.37	2,126.96	-2,112.93	-243.88	2,126.96	186.58	148,696.07	2,114,694.12	
6,499.00	89.00	187.00	4,785.63	2,156.96	-2,142.71	-247.57	2,156.96	186.59	148,666.29	2,114,690.43	
6,529.00	89.10	186.80	4,786.13	2,186.95	-2,172.49	-251.17	2,186.96	186.59	148,636.51	2,114,686.83	
6,560.00	89.20	186.50	4,786.59	2,217.95	-2,203.27	-254.76	2,217.95	186.60	148,605.73	2,114,683.24	
6,590.00	89.30	186.40	4,786.98	2,247.95	-2,233.08	-258.13	2,247.95	186.59	148,575.92	2,114,679.87	
6,620.00	89.30	186.20	4,787.35	2,277.95	-2,262.90	-261.42	2,277.95	186.59	148,546.10	2,114,676.58	
6,651.00	89.80	186.70	4,787.59	2,308.94	-2,293.70	-264.90	2,308.95	186.59	148,515.30	2,114,673.10	
6,681.00	90.30	187.90	4,787.56	2,338.94	-2,323.46	-268.72	2,338.94	186.60	148,485.54	2,114,669.28	
6,711.00	90.40	188.20	4,787.38	2,368.93	-2,353.16	-272.92	2,368.93	186.62	148,455.84	2,114,665.08	
6,741.00	90.60	188.10	4,787.12	2,398.92	-2,382.86	-277.17	2,398.92	186.63	148,426.14	2,114,660.83	
6,771.00	91.10	188.10	4,786.67	2,428.91	-2,412.55	-281.40	2,428.91	186.65	148,396.45	2,114,656.60	
6,801.00	90.90	188.20	4,786.15	2,458.89	-2,442.25	-285.65	2,458.89	186.67	148,366.75	2,114,652.35	
6,831.00	90.60	188.60	4,785.76	2,488.88	-2,471.92	-290.03	2,488.88	186.69	148,337.08	2,114,647.97	
6,861.00	89.80	188.40	4,785.65	2,518.86	-2,501.59	-294.46	2,518.86	186.71	148,307.41	2,114,643.54	
6,892.00	88.50	187.50	4,786.11	2,549.85	-2,532.29	-298.75	2,549.85	186.73	148,276.71	2,114,639.25	
6,922.00	88.10	188.10	4,787.00	2,579.83	-2,562.00	-302.82	2,579.83	186.74	148,247.00	2,114,635.18	
6,952.00	88.00	188.20	4,788.02	2,609.80	-2,591.68	-307.07	2,609.81	186.76	148,217.32	2,114,630.93	
6,983.00	88.20	188.40	4,789.05	2,640.77	-2,622.34	-311.54	2,640.78	186.78	148,186.66	2,114,626.46	
7,013.00	88.50	187.60	4,789.91	2,670.75	-2,652.03	-315.72	2,670.76	186.79	148,156.97	2,114,622.28	



# Professional Directional Survey Report



<b>Company:</b> TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b> Site Salsberry 20-34-7 1H
<b>Project:</b> Harper County, KS	<b>TVD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b> Salsberry 20-34-7 1H	<b>MD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
7,044.00	89.00	187.30	4,790.59	2,701.74	-2,682.76	-319.74	2,701.75	186.80	148,126.24	2,114,618.26	
7,074.00	89.40	187.40	4,791.01	2,731.74	-2,712.51	-323.57	2,731.74	186.80	148,096.49	2,114,614.43	
7,105.00	89.50	187.40	4,791.31	2,762.73	-2,743.25	-327.57	2,762.74	186.81	148,065.75	2,114,610.43	
7,135.00	89.40	187.50	4,791.59	2,792.73	-2,773.00	-331.46	2,792.74	186.82	148,036.00	2,114,606.54	
7,166.00	89.20	187.70	4,791.97	2,823.72	-2,803.72	-335.56	2,823.73	186.82	148,005.28	2,114,602.44	
7,197.00	89.50	188.10	4,792.32	2,854.71	-2,834.43	-339.82	2,854.73	186.84	147,974.57	2,114,598.18	
7,227.00	89.60	187.80	4,792.56	2,884.70	-2,864.14	-343.96	2,884.72	186.85	147,944.86	2,114,594.04	
7,256.00	89.80	187.80	4,792.71	2,913.70	-2,892.87	-347.90	2,913.71	186.86	147,916.13	2,114,590.10	
7,287.00	90.20	187.50	4,792.71	2,944.69	-2,923.59	-352.03	2,944.71	186.87	147,885.41	2,114,585.97	
7,317.00	90.50	187.00	4,792.53	2,974.69	-2,953.35	-355.81	2,974.71	186.87	147,855.65	2,114,582.19	
7,347.00	91.00	186.60	4,792.14	3,004.69	-2,983.14	-359.36	3,004.71	186.87	147,825.86	2,114,578.64	
7,376.00	90.30	186.60	4,791.81	3,033.68	-3,011.95	-362.70	3,033.70	186.87	147,797.05	2,114,575.30	
7,407.00	89.20	186.20	4,791.94	3,064.68	-3,042.75	-366.15	3,064.70	186.86	147,766.25	2,114,571.85	
7,438.00	89.40	186.00	4,792.32	3,095.68	-3,073.57	-369.45	3,095.70	186.85	147,735.43	2,114,568.55	
7,468.00	90.00	186.10	4,792.48	3,125.68	-3,103.41	-372.61	3,125.69	186.85	147,705.59	2,114,565.39	
7,498.00	89.70	186.00	4,792.56	3,155.68	-3,133.24	-375.77	3,155.69	186.84	147,675.76	2,114,562.23	
7,528.00	89.80	186.20	4,792.69	3,185.67	-3,163.07	-378.96	3,185.69	186.83	147,645.93	2,114,559.04	
7,558.00	89.70	186.40	4,792.82	3,215.67	-3,192.89	-382.25	3,215.69	186.83	147,616.11	2,114,555.75	
7,588.00	90.20	186.90	4,792.84	3,245.67	-3,222.68	-385.72	3,245.69	186.83	147,586.32	2,114,552.28	
7,618.00	90.50	186.90	4,792.66	3,275.67	-3,252.47	-389.33	3,275.69	186.83	147,556.53	2,114,548.67	
7,648.00	91.30	186.60	4,792.19	3,305.67	-3,282.26	-392.85	3,305.68	186.83	147,526.74	2,114,545.15	
7,679.00	91.90	186.30	4,791.32	3,336.66	-3,313.05	-396.34	3,336.67	186.82	147,495.95	2,114,541.66	
7,709.00	91.60	186.30	4,790.41	3,366.64	-3,342.85	-399.63	3,366.65	186.82	147,466.15	2,114,538.37	
7,739.00	91.10	186.10	4,789.70	3,396.63	-3,372.67	-402.87	3,396.64	186.81	147,436.33	2,114,535.13	
7,770.00	91.00	186.00	4,789.13	3,427.62	-3,403.49	-406.13	3,427.64	186.80	147,405.51	2,114,531.87	
7,800.00	90.40	185.90	4,788.77	3,457.62	-3,433.33	-409.24	3,457.63	186.80	147,375.67	2,114,528.76	
7,831.00	90.20	185.80	4,788.60	3,488.62	-3,464.16	-412.40	3,488.63	186.79	147,344.84	2,114,525.60	



# Professional Directional Survey Report



<b>Company:</b> TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b> Site Salsberry 20-34-7 1H
<b>Project:</b> Harper County, KS	<b>TVD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b> Salsberry 20-34-7 1H	<b>MD Reference:</b> GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b> Salsberry 20-34-7 1H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
7,862.00	90.60	186.30	4,788.39	3,519.61	-3,494.99	-415.67	3,519.62	186.78	147,314.01	2,114,522.33	
7,894.00	91.20	186.10	4,787.89	3,551.61	-3,526.80	-419.12	3,551.62	186.78	147,282.20	2,114,518.88	
7,926.00	91.30	185.90	4,787.19	3,583.60	-3,558.62	-422.47	3,583.61	186.77	147,250.38	2,114,515.53	
7,957.00	90.60	185.90	4,786.67	3,614.59	-3,589.45	-425.65	3,614.60	186.76	147,219.55	2,114,512.35	
7,989.00	89.40	185.20	4,786.67	3,646.58	-3,621.30	-428.75	3,646.59	186.75	147,187.70	2,114,509.25	
8,020.00	89.70	184.90	4,786.92	3,677.57	-3,652.18	-431.48	3,677.58	186.74	147,156.82	2,114,506.52	
8,052.00	89.80	185.20	4,787.06	3,709.56	-3,684.05	-434.29	3,709.56	186.72	147,124.95	2,114,503.71	
8,084.00	90.10	184.40	4,787.08	3,741.54	-3,715.94	-436.97	3,741.54	186.71	147,093.06	2,114,501.03	
8,115.00	90.70	184.70	4,786.87	3,772.52	-3,746.84	-439.43	3,772.52	186.69	147,062.16	2,114,498.57	
8,146.00	91.00	184.30	4,786.41	3,803.49	-3,777.74	-441.86	3,803.49	186.67	147,031.26	2,114,496.14	
8,178.00	91.10	184.40	4,785.82	3,835.46	-3,809.64	-444.29	3,835.46	186.65	146,999.36	2,114,493.71	
8,210.00	90.00	184.20	4,785.51	3,867.43	-3,841.55	-446.69	3,867.43	186.63	146,967.45	2,114,491.31	
8,241.00	88.30	184.40	4,785.97	3,898.40	-3,872.46	-449.01	3,898.40	186.61	146,936.54	2,114,488.99	
8,273.00	87.70	184.20	4,787.09	3,930.36	-3,904.35	-451.41	3,930.36	186.60	146,904.65	2,114,486.59	
8,304.00	87.30	183.80	4,788.44	3,961.29	-3,935.24	-453.57	3,961.30	186.57	146,873.76	2,114,484.43	
8,336.00	87.20	184.10	4,789.98	3,993.22	-3,967.13	-455.77	3,993.23	186.55	146,841.87	2,114,482.23	
8,367.00	87.80	184.90	4,791.33	4,024.17	-3,998.01	-458.20	4,024.18	186.54	146,810.99	2,114,479.80	
8,399.00	89.40	185.60	4,792.11	4,056.15	-4,029.86	-461.13	4,056.16	186.53	146,779.14	2,114,476.87	
8,430.00	90.80	186.10	4,792.06	4,087.14	-4,060.70	-464.29	4,087.16	186.52	146,748.30	2,114,473.71	
8,462.00	91.40	186.50	4,791.44	4,119.14	-4,092.50	-467.80	4,119.15	186.52	146,716.50	2,114,470.20	
8,493.00	91.10	186.20	4,790.77	4,150.13	-4,123.30	-471.23	4,150.14	186.52	146,685.70	2,114,466.77	
8,525.00	89.70	186.20	4,790.55	4,182.13	-4,155.11	-474.68	4,182.14	186.52	146,653.89	2,114,463.32	
8,556.00	89.10	185.90	4,790.87	4,213.12	-4,185.94	-477.95	4,213.14	186.51	146,623.06	2,114,460.05	
8,588.00	89.50	185.80	4,791.26	4,245.12	-4,217.77	-481.21	4,245.13	186.51	146,591.23	2,114,456.79	
8,619.00	89.60	185.50	4,791.50	4,276.11	-4,248.62	-484.26	4,276.13	186.50	146,560.38	2,114,453.74	
8,651.00	89.10	185.40	4,791.87	4,308.10	-4,280.47	-487.30	4,308.12	186.49	146,528.53	2,114,450.70	
8,682.00	89.40	185.30	4,792.27	4,339.09	-4,311.33	-490.19	4,339.11	186.49	146,497.67	2,114,447.81	



## Professional Directional Survey Report



<b>Company:</b>	TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b>	Site Salsberry 20-34-7 1H
<b>Project:</b>	Harper County, KS	<b>TVD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b>	Salsberry 20-34-7 1H	<b>MD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b>	Salsberry 20-34-7 1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Well_Planner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
8,714.00	89.30	185.50	4,792.64	4,371.08	-4,343.19	-493.20	4,371.10	186.48	146,465.81	2,114,444.80	
8,746.00	89.30	185.20	4,793.03	4,403.07	-4,375.05	-496.19	4,403.09	186.47	146,433.95	2,114,441.81	
8,777.00	88.90	185.40	4,793.51	4,434.06	-4,405.91	-499.05	4,434.08	186.46	146,403.09	2,114,438.95	
8,809.00	88.70	187.30	4,794.18	4,466.05	-4,437.71	-502.59	4,466.08	186.46	146,371.29	2,114,435.41	
8,840.00	89.10	187.80	4,794.78	4,497.04	-4,468.43	-506.66	4,497.06	186.47	146,340.57	2,114,431.34	
8,871.00	89.40	188.90	4,795.18	4,528.02	-4,499.10	-511.16	4,528.04	186.48	146,309.90	2,114,426.84	
8,904.00	88.80	189.50	4,795.70	4,560.99	-4,531.67	-516.44	4,561.00	186.50	146,277.33	2,114,421.56	
8,935.00	89.40	190.00	4,796.19	4,591.94	-4,562.22	-521.69	4,591.95	186.52	146,246.78	2,114,416.31	
8,966.00	89.40	190.60	4,796.51	4,622.87	-4,592.72	-527.23	4,622.88	186.55	146,216.28	2,114,410.77	
8,998.00	89.00	189.60	4,796.96	4,654.81	-4,624.22	-532.84	4,654.82	186.57	146,184.78	2,114,405.16	
9,030.00	88.00	189.00	4,797.80	4,686.77	-4,655.79	-538.01	4,686.77	186.59	146,153.21	2,114,399.99	
9,061.00	87.80	188.90	4,798.94	4,717.72	-4,686.39	-542.83	4,717.72	186.61	146,122.61	2,114,395.17	
9,092.00	88.00	189.20	4,800.07	4,748.67	-4,716.98	-547.70	4,748.67	186.62	146,092.02	2,114,390.30	
9,124.00	88.20	189.20	4,801.13	4,780.62	-4,748.55	-552.82	4,780.62	186.64	146,060.45	2,114,385.18	
9,156.00	88.50	189.60	4,802.05	4,812.57	-4,780.11	-558.04	4,812.57	186.66	146,028.89	2,114,379.96	
9,188.00	88.80	190.00	4,802.81	4,844.52	-4,811.63	-563.49	4,844.52	186.68	145,997.37	2,114,374.51	
9,220.00	88.90	190.10	4,803.45	4,876.45	-4,843.14	-569.07	4,876.46	186.70	145,965.86	2,114,368.93	
9,251.00	89.10	190.20	4,803.99	4,907.39	-4,873.65	-574.53	4,907.39	186.72	145,935.35	2,114,363.47	
9,283.00	88.90	189.80	4,804.55	4,939.33	-4,905.16	-580.09	4,939.34	186.74	145,903.84	2,114,357.91	
9,314.00	89.00	189.80	4,805.12	4,970.28	-4,935.70	-585.36	4,970.29	186.76	145,873.30	2,114,352.64	
9,346.00	89.40	191.30	4,805.56	5,002.20	-4,967.15	-591.22	5,002.22	186.79	145,841.85	2,114,346.78	
9,355.00	89.70	191.70	4,805.63	5,011.17	-4,975.97	-593.02	5,011.18	186.80	145,833.03	2,114,344.98	
<b>Last Survey: 9355'MD / 4805.63'TVD</b>											
9,412.00	89.70	191.70	4,805.93	5,067.95	-5,031.79	-604.57	5,067.98	186.85	145,777.21	2,114,333.43	
<b>PTB: 9412'MD</b>											



**Professional Directional**  
Survey Report



<b>Company:</b>	TAPSTONE ENERGY	<b>Local Co-ordinate Reference:</b>	Site Salsberry 20-34-7 1H
<b>Project:</b>	Harper County, KS	<b>TVD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Site:</b>	Salsberry 20-34-7 1H	<b>MD Reference:</b>	GL 1381 + 22' KB @ 1403.00usft (Nomac 7)
<b>Well:</b>	Salsberry 20-34-7 1H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	OH	<b>Database:</b>	Well_Planner1

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,355.00	4,805.63	-4,975.97	-593.02	Last Survey: 9355'MD / 4805.63'TVD
9,412.00	4,805.93	-5,031.79	-604.57	PTB: 9412'MD

**TOPOGRAPHIC LAND SURVEYORS**

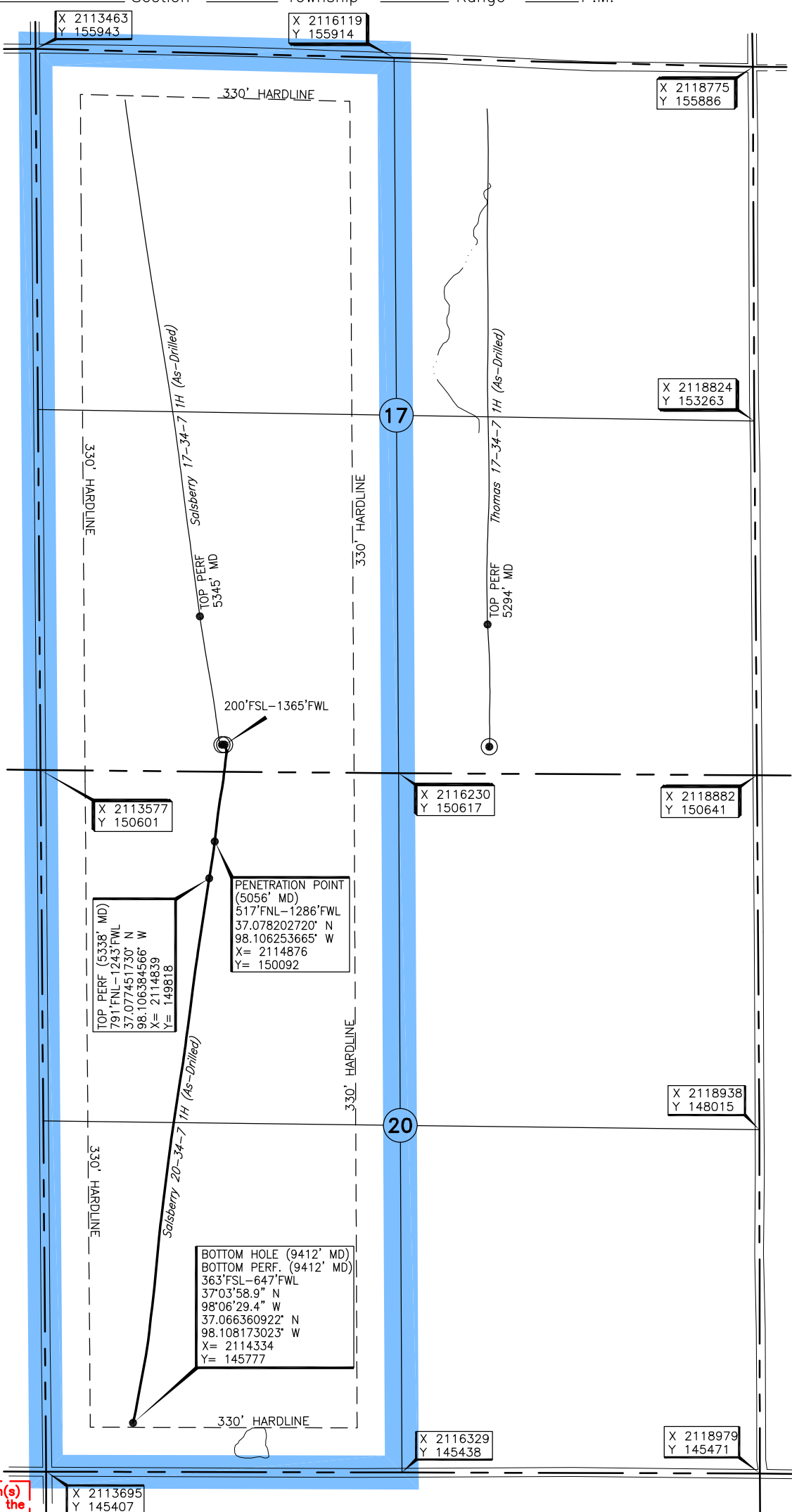
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 \* LOCAL (405) 843-4847 \* OUT OF STATE (800) 654-3219  
 Certificate of Authorization No. LS-99, Exp. Dec. 31, 2015

HARPER

County, Kansas

200'FSL - 1365'FWL Section 17 Township 34S Range 7W P.M.

GRADIC  
 Note: 3.280833 Ft. = 1 Meter  
 Scale: 1" = 1000'  
 GRID  
 NAD-27  
 KS SOUTH  
 US Feet



Operator: TAPSTONE ENERGY  
 Lease Name: SALSBERY 20-34-7  
 Topography & Vegetation: Loc. fell in sloped terraced pasture, ±35' East of fence  
 Good Drill Site?  Yes  No  
 Reference Stakes or Alternate Location: Stakes Set  None  Yes  No  
 Best Accessibility to Location:  From West off county road  From West of town  From Anthony, KS, go ±4.0 mi. West on St. Hwy. 2, then ±5.0 mi. South to the SW Cor. of Sec. 17-T34S-R7W.  
 ELEVATION: 1381' Gr. at Stake  
 Well No.: 1H

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

DATUM: NAD-27  
 LAT: 37°04'48.6"N  
 LONG: 98°06'21.7"W  
 LAT: 37.080173185° N  
 LONG: 98.106028304° W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: KS SOUTH  
 X: 2114938  
 Y: 150809

251695 Date of Drawing: Oct. 05, 2015  
 Invoice # 243979A Date Staked: May 05, 2015 JP

**FINAL AS-DRILLED PLAT**

AS-DRILLED INFORMATION  
 FURNISHED BY TAPSTONE ENERGY

## SERVICE ORDER CONTRACT

Customer Name Tapstone Energy Ticket Number SOK 5334  
Lease & Well Number Salsberry 20-34-7 1H Date 9/15/2015

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 Data Sheet



COMPANY <b>Tapstone Energy</b>		PROJECT NUMBER <b>SOK 5334</b>		AFE/WORK ORDER <b>0</b>		DATE <b>9/7/2015</b>					
CONTRACTOR <b>Nomac #7</b>			Owner <b>Same</b>		LEGAL DESCRIPTION <b>17/34S/7W</b>		API <b>15-077-22148-01-00</b>				
LEASE & WELL # <b>Salsberry 20-34-7 1H</b>			COUNTY <b>Harper</b>		STATE <b>Kansas</b>		MILEAGE <b>100</b>				
DIRECTIONS <b>MANCHESTER - NORTH TO CR 60 - 4 MILES WEST - 1 MILE NORTH ON CR 40 - EAST INTO</b>											
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	
	<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	
								<b>800'</b>	<b>800'</b>	<b>12 1/4"</b>	
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>	<b>Premium Plus (Class C)</b>	<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		Casing Weight		Thread						
	<b>9 5/8"</b>		<b>36#</b>		<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.		Cell Phone		Office Phone		Fax		Time of Call			
<b>0</b>		<b>0</b>									
Call Taken By							Date Ready		Location Time		
<b>Jared Sisco</b>											
Crew Called							Yard Time				
							<b>0</b>				

<b>JOB SUMMARY</b>			PROJECT NUMBER <b>SOK 5334</b>	TICKET DATE <b>09/15/15</b>
COUNTY <b>Harper</b>	State <b>Kansas</b>	COMPANY <b>Tapstone Energy</b>	CUSTOMER REP <b>0</b>	
LEASE NAME <b>Salsberry 20-34-7</b>	Well No. <b>1H</b>	JOB TYPE <b>Surface</b>	EMPLOYEE NAME <b>Mike Hall</b>	

EMP NAME <b>Mike Hall</b>	<b>0</b>				
<b>Joe Colonesse</b>					
<b>Donnie Brown</b>					
<b>Jose Chavez</b>					

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

Date	Called Out <b>9/15/2015</b>	On Location <b>9/15/2015</b>	Job Started <b>9/15/2015</b>	Job Completed <b>9/15/2015</b>
Time		<b>1000</b>	<b>1435</b>	<b>1600</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	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			
WBM	Density		Lb/Gal
Disp. Fluid	Fresh Water	Density	<b>8.33</b>
Spacer type	Fresh Water	BBL.	<b>10</b>
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	
9/15	4.0	9/15	1.0	Surface
Total	4.0	Total	1.0	

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_  
 Other \_\_\_\_\_

Pressures	
MAX <b>1,500 PSI</b>	AVG. <b>500</b>
Average Rates in BPM	
MAX <b>6 BPM</b>	AVG <b>4</b>
Cement Left in Pipe	
Feet <b>44'</b>	Reason <b>SHOE JOINT</b>

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 Breakdown	Type: _____	MAXIMUM _____	Preflush: BBI _____	10.00	Type: <b>Fresh Water</b>
	Lost Returns-N _____	NO/FULL _____	Load & Bkdn: Gal - BBI _____	N/A	Pad:Bbl -Gal _____
	Actual TOC _____	SURFACE _____	Excess /Return BBI _____	45	Calc.Disp Bbl _____
Average	Bump Plug PSI: _____	900	Final Circ. PSI: _____	400	Actual Disp. _____
ISIP _____ 5 Min. _____	10 Min _____	15 Min _____	Cement Slurry BBI _____	112.0	Disp:Bbl _____
			Total Volume BBI _____	183.00	

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



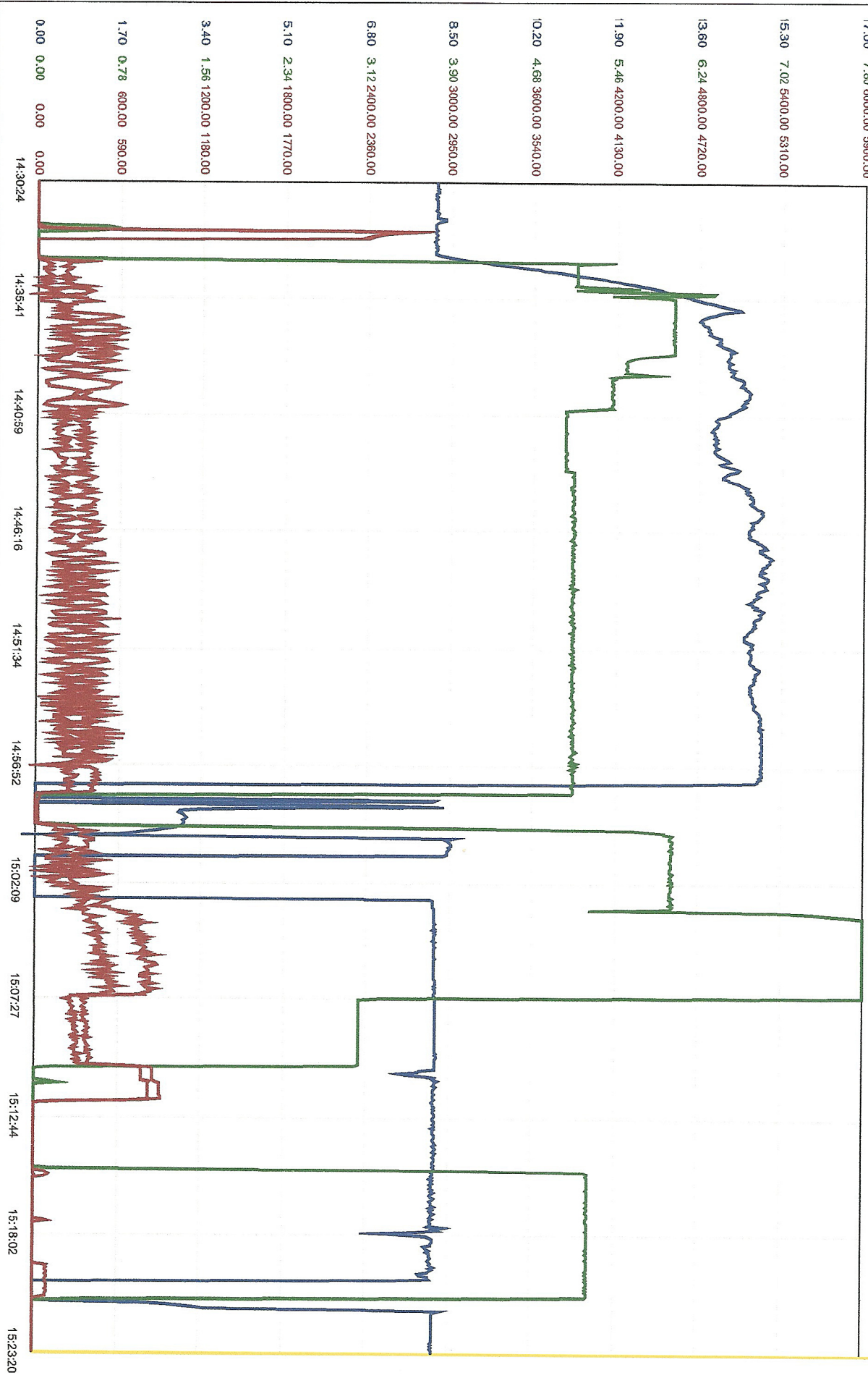
**SERVICE COMPANY:** O-Tex  
**TICKET NO:** SOK 5334  
**CUSTOMER NAME:** Tapstone Energy  
**WELL NAME:** Salsbery 20347 1H  
**WELL LOCATION:** Harper County  
**DATE RECORDED:** 09/15/2015  
**JOB NO:** SOK 5334  
**UNIT DESCRIPTION:** Normac 7  
**UNIT NOTES:** 9 5/8" Surface  
**FILE NAME:** Tapstone Energy\_Salsbery 20347 1H\_15\_09\_15\_15\_#.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)

Pen 1 Pen 2 Pen 3 Pen 4  
 17.00 7.80 6000.00 5900.00

15:23:20 PC Data Recording Stopped



# O-THEX PUMPING LLC

Service Location Fairview, Oklahoma  
 Service Address 601 Industrial Blvd 73737

FIELD RECEIPT  
 Phone number 580-227-2727

Project Number:

SOK 5334

Service Date: 9/15/2015  
 Customer Tapstone Energy  
 Address:  
 City  
 St  
 Customer Rep 0  
 Phone 0

Well Name: Salsberry 20-34-7  
 Well Number: 1H  
 County: Harper  
 State: Kansas  
 API #  
 AFE # 15-077-22148-01-00  
 PERMIT # 0

JOB TYPE  
 CASING SIZE

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

REF #	DESCRIPTION	U OF MEAS.	UNIT PRICE	QUAN	GROSS	%DISC	gdisc	NET
ML001	Pickup Mileage	per mile/ per Unit	4.26	100.0	\$426.00	78%	\$332.28	\$33.72
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 perjob	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/perdlem	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: \_\_\_\_\_

# JOB SUMMARY

<b>PROJECT NUMBER</b> SOK 5360			<b>TICKET DATE</b> 09/20/15		
<b>COUNTY</b> Harper		<b>State</b> Kansas		<b>COMPANY</b> Tapstone Energy	
<b>LEASE NAME</b> Salsberry 20-34-7			<b>Well No.</b> 1H		<b>JOB TYPE</b> Intermediate
<b>EMPLOYEE NAME</b> John Hall			<b>CUSTOMER REP</b> 0		

<b>EMP NAME</b> John Hall	0				
Kyle Laskowitz					
Cody Bonitz					
0.00					

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_

Packer Type \_\_\_\_\_ Set At 0

Bottom Hole Temp. 155 Pressure \_\_\_\_\_

Retainer Depth \_\_\_\_\_ Total Depth 5283

Date	Called Out	On Location	Job Started	Job Completed
	9/19/2015	9/19/2015	9/20/2015	9/20/2015
Time	800pm	1000pm	130am	400am

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	26#	7"		Surface		5,000
Liner						
Liner						
Tubing		0				
Drill Pipe						
Open Hole		8 1/2"		Surface	5,283	Shots/Ft.
Perforations						
Perforations						
Perforations						

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

Perfpac Balls \_\_\_\_\_ Qty. \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_

Other \_\_\_\_\_


Other \_\_\_\_\_

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
9/19	6.0	9/20	2.5	Intermediate
Total	6.0	Total	2.5	

Pressures			
MAX	5,000 PSI	AVG.	500 psi
Average Rates in BPM			
MAX	8 BPM	AVG	5 bpm
Cement Left in Pipe			
Feet	92	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	6.89	1.43	13.60
2	90	Premium H	0.4% FL-17	5.31	1.18	15.60
3	0	0		0.00	0.00	0.00

Summary					
Preflush Breakdown	Type: MAXIMUM	5,000 PSI	Preflush: BBI	20.00	Type: Mudwash
	Lost Returns: NO/FULL		Load & Bkdn: Gal - BBI	N/A	Pad:Bbl -Gal N/A
	Actual FOLC: 3,498		Excess /Return BBI	N/A	Calc.Disp Bbl 201
Average ISIP 5 Min.	Bump Plug PSI: 10 Min	15 Min	Cal TOTC	4,755	Actual Disp. 201.00
			Final Circ. PSI: 800	800	Disp:Bbl 201.00
			Cement Slurry BBI	54.5	
			Total Volume BBI	275.50	

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

# JOB LOG

<b>PROJECT NUMBER</b>			<b>SOK 5360</b>		<b>TICKET DATE</b>			<b>09/20/15</b>			
<b>COMPANY</b> Tapstone Energy				<b>COUNTRY</b> USA			<b>STATE</b> Kansas		<b>COUNTY</b> Harper		
<b>LEASE NAME</b> Salsberry 20-34-7 1H			<b>Well No.</b>		<b>EMPLOYEE NAME</b> John Hall				<b>CUSTOMER REP</b>		
<b>FIELD</b>			<b>SEC / TWP / RNG</b> 17/34S/7W			<b>TICKET AMOUNT</b> 6,715.75				<b>WELL TYPE</b> Oil & Gas	
<b>API/UWI #</b> 15-077-22148-01-00			<b>JOB PURPOSE</b> Intermediate								

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
9/19/2015	800pm					<b>TIME ARRIVED IN YARD</b>
	810					Fit for duty meeting
	830					Headed to location from yard!
	1000					Arrived On Location
	1010					Safety Meeting
	1020					Waiting On Rig To Run Caseing
9/20/2015	100am					Rig Up
	130					Safety Meeting
	200			5,000		Test Lines
	203					Drop Bottom Plug
	205	5.0	20.0	550		Pump Mudwash Spacer
	209	5.0	35.6	550		Pump Lead @ 13.6
	216	5.0	18.9	550		Pump Tail @ 15.6
	220					Drop Top Plug
	221	8.0	135.0	500		Start Displacement
	240	6.0	51.0	950		Caught Cement
	247	3.0	15.0	800		Slow to Land Plug
	255					Stop Displacement
	300					Test Floats
	305					Rig Down
	400					Head Back To Yard
<b>SUPERVISOR SIGNATURE</b>						<b>X</b>
<b>Bumped</b>	<b>Final lift</b>	<b>Floats</b>	<b>PSI ON</b>	<b>CEMENT</b>		
<b>Plug</b>	<b>Psi</b>	<b>Held</b>	<b>CSG</b>	<b>SURFACE</b>		
<b>NO</b>	<b>800</b>	<b>YES</b>	<b>800.0</b>	<b>no</b>		