

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

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: _____

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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Form	ACO1 - Well Completion
Operator	Tapstone Energy, LLC
Well Name	WARNER 11-34-9 1H
Doc ID	1405024

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	9.625	36	830	A	305	Lead - 2% Gypsum, 1% CaCl, 1.5% SMS, 0.25 lbs Polyflake; Tail - 0.75% CaCl
Intermediate	8.75	7	26	4975	A	195	Lead - 6% Gel, 6% Gypsum, 1% SMS, 6% SFA, 0.42 lbs Polyflake; Tail - 2% Gypsum, 1% SMS
Liner	6.125	4.5	11.60	9552	NA	0	NA
Conductor	26	20	94	76	Portland	56	NA

Client.....: Tapstone Energy
 Location.....: Harper County, KS
 Site.....: Warner 11-34-9 #1H
 Well.....: No. 1H

---- Depth reference -----
 Permanent datum.....: Mean Sea Level
 Depth reference.....: Well
 GL above permanent.....: 1300.00 usft
 KB above permanent.....: 1316.00 usft

---- Surface Location -----
 Northing (+N/S-).....: 155578.69 usft
 Easting (+E/W-).....: 2067757.27 usft

MD	Inc	Azimuth	TVD	Subsea	N/S	E/W	VS	DLS	X	Y	Latitude	Longitude	Comments
0	0	0	0	1316	0	0	0	0	0	2067757	155578.7	37.094	-98.268
905	0.4	57.3	904.99	411.01	1.71	2.66	1.67	0.04	2067760	155580.4	37.094	-98.268	
1002	0.6	79.9	1001.99	314.01	1.98	3.44	1.93	0.29	2067761	155580.7	37.094	-98.268	
1195	0.2	101.4	1194.98	121.02	2.09	4.77	2.02	0.22	2067762	155580.8	37.094	-98.268	
1292	0.3	112.2	1291.98	24.02	1.96	5.17	1.89	0.11	2067762	155580.7	37.094	-98.268	
1389	0.3	130.8	1388.98	-72.98	1.7	5.6	1.62	0.1	2067763	155580.4	37.094	-98.268	
1486	0.2	75.3	1485.98	-169.98	1.57	5.95	1.49	0.26	2067763	155580.3	37.094	-98.268	
1578	0.3	73	1577.98	-261.98	1.69	6.34	1.6	0.11	2067764	155580.4	37.094	-98.268	
1670	0.4	84.1	1669.98	-353.98	1.79	6.89	1.69	0.13	2067764	155580.5	37.094	-98.268	
1762	0.3	77.1	1761.98	-445.98	1.88	7.44	1.77	0.12	2067765	155580.6	37.094	-98.268	
1854	0.4	73.4	1853.97	-537.97	2.02	7.98	1.91	0.11	2067765	155580.7	37.094	-98.268	
1945	0.5	66.8	1944.97	-628.97	2.27	8.65	2.14	0.12	2067766	155581	37.094	-98.268	
2037	0.4	93.4	2036.97	-720.97	2.41	9.34	2.27	0.25	2067767	155581.1	37.094	-98.268	
2128	0.5	141.1	2127.97	-811.97	2.08	9.91	1.94	0.41	2067767	155580.8	37.094	-98.268	
2220	0.6	134.4	2219.96	-903.96	1.43	10.51	1.28	0.13	2067768	155580.1	37.094	-98.268	
2311	0.6	126.2	2310.96	-994.96	0.82	11.23	0.66	0.09	2067769	155579.5	37.094	-98.268	
2500	0.6	118.9	2499.95	-1183.95	-0.25	12.9	-0.43	0.04	2067770	155578.4	37.094	-98.268	
2597	0.4	117.1	2596.94	-1280.94	-0.65	13.64	-0.84	0.21	2067771	155578	37.094	-98.268	
2792	0.5	114.3	2791.94	-1475.94	-1.31	15.02	-1.52	0.05	2067772	155577.4	37.094	-98.268	
2986	0.5	85.3	2985.93	-1669.93	-1.59	16.64	-1.82	0.13	2067774	155577.1	37.094	-98.268	
3083	0.5	53.5	3082.93	-1766.93	-1.3	17.4	-1.55	0.28	2067775	155577.4	37.094	-98.268	
3179	0.6	58.6	3178.92	-1862.92	-0.79	18.17	-1.05	0.12	2067775	155577.9	37.094	-98.268	
3274	0.5	53.4	3273.92	-1957.92	-0.28	18.92	-0.55	0.12	2067776	155578.4	37.094	-98.268	
3369	0.6	42.5	3368.91	-2052.91	0.33	19.59	0.05	0.15	2067777	155579	37.094	-98.268	
3464	0.8	51.2	3463.91	-2147.91	1.11	20.45	0.82	0.24	2067778	155579.8	37.094	-98.268	
3560	0.8	43.9	3559.9	-2243.9	2.02	21.43	1.71	0.11	2067779	155580.7	37.094	-98.268	
3655	0.6	43.5	3654.89	-2338.89	2.86	22.24	2.54	0.21	2067780	155581.6	37.094	-98.268	
3750	0.4	52.7	3749.89	-2433.89	3.42	22.84	3.09	0.23	2067780	155582.1	37.094	-98.268	
3845	0.5	42.4	3844.88	-2528.88	3.92	23.38	3.59	0.13	2067781	155582.6	37.094	-98.268	
3941	0.4	37.9	3940.88	-2624.88	4.5	23.87	4.16	0.11	2067781	155583.2	37.094	-98.268	
4035	1.2	4	4034.87	-2718.87	5.74	24.14	5.39	0.95	2067781	155584.4	37.094	-98.268	
4067	3.1	351.5	4066.85	-2750.85	6.93	24.04	6.58	6.08	2067781	155585.6	37.094	-98.268	
4130	6.4	357.3	4129.62	-2813.62	12.12	23.62	11.78	5.29	2067781	155590.8	37.094	-98.268	
4162	9.9	2.6	4161.29	-2845.29	16.65	23.66	16.31	11.18	2067781	155595.3	37.094	-98.268	
4194	12.8	5.3	4192.67	-2876.67	22.93	24.11	22.59	9.21	2067781	155601.6	37.094	-98.268	
4226	15.6	4.9	4223.69	-2907.69	30.75	24.81	30.39	8.76	2067782	155609.4	37.094	-98.268	
4258	18.8	3.2	4254.25	-2938.25	40.19	25.46	39.82	10.12	2067783	155618.9	37.094	-98.268	
4290	22	3	4284.24	-2968.24	51.33	26.07	50.95	10	2067783	155630	37.094	-98.268	
4321	24.7	2.6	4312.7	-2996.7	63.6	26.66	63.21	8.72	2067784	155642.3	37.094	-98.268	
4353	26.9	2.6	4341.51	-3025.51	77.51	27.3	77.11	6.87	2067785	155656.2	37.094	-98.268	
4385	29.5	2.2	4369.71	-3053.71	92.62	27.93	92.21	8.15	2067785	155671.3	37.094	-98.268	
4416	32.3	2.6	4396.3	-3080.3	108.52	28.6	108.1	9.06	2067786	155687.2	37.094	-98.268	
4448	35.7	2	4422.83	-3106.83	126.4	29.31	125.96	10.68	2067787	155705.1	37.094	-98.268	
4480	39.4	1.9	4448.19	-3132.19	145.88	29.97	145.44	11.56	2067787	155724.6	37.094	-98.268	
4511	42.7	1.6	4471.57	-3155.57	166.23	30.59	165.78	10.66	2067788	155744.9	37.094	-98.268	
4543	46.5	1.3	4494.35	-3178.35	188.69	31.16	188.22	11.89	2067788	155767.4	37.094	-98.268	
4575	50.2	1.4	4515.61	-3199.61	212.59	31.72	212.11	11.56	2067789	155791.3	37.094	-98.268	
4607	53.8	1	4535.31	-3219.31	237.8	32.25	237.31	11.29	2067790	155816.5	37.094	-98.268	
4638	56.7	1.6	4552.98	-3236.98	263.26	32.83	262.76	9.49	2067790	155842	37.094	-98.268	
4670	60.4	2	4569.67	-3253.67	290.54	33.69	290.03	11.61	2067791	155869.2	37.095	-98.268	
4702	65.2	1.4	4584.3	-3268.3	318.98	34.53	318.45	15.09	2067792	155897.7	37.095	-98.268	
4733	71.3	0.4	4595.78	-3279.78	347.75	34.98	347.22	19.9	2067792	155926.4	37.095	-98.268	
4765	78	359.4	4604.24	-3288.24	378.59	34.92	378.06	21.15	2067792	155957.3	37.095	-98.268	
4797	84.2	358.7	4609.19	-3293.19	410.19	34.39	409.65	19.5	2067792	155988.9	37.095	-98.268	
4829	88.4	358.2	4611.26	-3295.26	442.1	33.53	441.58	13.22	2067791	156020.8	37.095	-98.268	

4892	89.4	358.4	4612.47	-3296.47	505.06	31.66	504.56	1.62	2067789	156083.8	37.095	-98.268
4940	89.4	358.2	4612.97	-3296.97	553.04	30.24	552.55	0.42	2067788	156131.7	37.095	-98.268
5055	89.7	357.7	4613.87	-3297.87	667.96	26.12	667.52	0.51	2067783	156246.7	37.096	-98.268
5152	90.1	356.3	4614.04	-3298.04	764.83	21.05	764.45	1.5	2067778	156343.5	37.096	-98.268
5246	91	355.5	4613.14	-3297.14	858.58	14.33	858.29	1.28	2067772	156437.3	37.096	-98.268
5341	91.9	354.9	4610.73	-3294.73	953.21	6.38	953.03	1.14	2067764	156531.9	37.096	-98.268
5438	92.4	355.3	4607.1	-3291.1	1049.79	-1.9	1049.71	0.66	2067755	156628.5	37.097	-98.268
5532	93.1	356.3	4602.59	-3286.59	1143.43	-8.78	1143.44	1.3	2067748	156722.1	37.097	-98.268
5624	92.3	356.9	4598.25	-3282.25	1235.16	-14.23	1235.24	1.09	2067743	156813.9	37.097	-98.268
5716	90.8	358.1	4595.76	-3279.76	1327.04	-18.24	1327.16	2.09	2067739	156905.7	37.097	-98.268
5808	90.5	357.7	4594.72	-3278.72	1418.97	-21.61	1419.13	0.54	2067736	156997.7	37.098	-98.268
5899	88	358	4595.91	-3279.91	1509.89	-25.02	1510.09	2.77	2067732	157088.6	37.098	-98.268
5991	89.6	358	4597.84	-3281.84	1601.81	-28.23	1602.05	1.74	2067729	157180.5	37.098	-98.268
6082	90.2	358.4	4598	-3282	1692.77	-31.09	1693.04	0.79	2067726	157271.5	37.098	-98.268
6174	90.9	358.1	4597.11	-3281.11	1784.72	-33.9	1785.02	0.83	2067723	157363.4	37.099	-98.268
6265	90.9	356.7	4595.68	-3279.68	1875.61	-38.03	1875.96	1.54	2067719	157454.3	37.099	-98.268
6357	89.8	357.1	4595.12	-3279.12	1967.47	-43	1967.89	1.27	2067714	157546.2	37.099	-98.268
6448	90.2	356.4	4595.12	-3279.12	2058.33	-48.16	2058.8	0.89	2067709	157637	37.099	-98.268
6545	90.5	359.9	4594.53	-3278.53	2155.26	-51.29	2155.77	3.62	2067706	157734	37.1	-98.268
6641	90.4	0	4593.77	-3277.77	2251.26	-51.38	2251.76	0.15	2067706	157830	37.1	-98.268
6739	88.7	0.2	4594.54	-3278.54	2349.25	-51.21	2349.74	1.75	2067706	157927.9	37.1	-98.268
6836	90.4	359.5	4595.31	-3279.31	2446.24	-51.46	2446.73	1.9	2067706	158024.9	37.1	-98.268
6934	90	359.1	4594.96	-3278.96	2544.23	-52.66	2544.73	0.58	2067705	158122.9	37.101	-98.268
7028	89.5	359.7	4595.37	-3279.37	2638.23	-53.64	2638.72	0.83	2067704	158216.9	37.101	-98.268
7124	90.9	359.4	4595.04	-3279.04	2734.22	-54.4	2734.72	1.49	2067703	158312.9	37.101	-98.268
7219	92.3	359.7	4592.39	-3276.39	2829.18	-55.14	2829.68	1.51	2067702	158407.9	37.101	-98.268
7314	90.7	0.8	4589.9	-3273.9	2924.14	-54.73	2924.62	2.04	2067703	158502.8	37.102	-98.268
7411	90.4	0.6	4588.97	-3272.97	3021.13	-53.54	3021.58	0.37	2067704	158599.8	37.102	-98.268
7507	89.9	359.7	4588.72	-3272.72	3117.13	-53.29	3117.57	1.07	2067704	158695.8	37.102	-98.268
7602	86.6	359.2	4591.62	-3275.62	3212.06	-54.2	3212.51	3.51	2067703	158790.8	37.103	-98.268
7698	87.4	358.2	4596.64	-3280.64	3307.91	-56.38	3308.37	1.33	2067701	158886.6	37.103	-98.268
7793	88.9	358.5	4599.71	-3283.71	3403.81	-59.11	3403.31	1.61	2067698	158981.5	37.103	-98.268
7890	89.4	358.4	4601.15	-3285.15	3499.77	-61.73	3500.29	0.53	2067696	159078.5	37.103	-98.268
7985	90.6	359.1	4601.15	-3285.15	3594.74	-63.81	3595.29	1.46	2067693	159173.4	37.104	-98.268
8081	92.1	359	4598.89	-3282.89	3690.7	-65.4	3691.26	1.57	2067692	159269.4	37.104	-98.268
8176	91.3	359.1	4596.07	-3280.07	3785.64	-66.97	3786.22	0.85	2067690	159364.3	37.104	-98.268
8272	90.5	359.3	4594.56	-3278.56	3881.62	-68.31	3882.2	0.86	2067689	159460.3	37.104	-98.268
8368	91.8	0.6	4592.63	-3276.63	3977.6	-68.4	3978.17	1.91	2067689	159556.3	37.105	-98.268
8463	92	0.4	4589.48	-3273.48	4072.54	-67.57	4073.09	0.3	2067690	159651.2	37.105	-98.268
8559	90.2	0.6	4587.64	-3271.64	4168.52	-66.73	4169.05	1.89	2067691	159747.2	37.105	-98.268
8654	89.6	359.8	4587.81	-3271.81	4263.52	-66.4	4264.03	1.05	2067691	159842.2	37.105	-98.268
8748	89.2	359.6	4588.79	-3272.79	4357.51	-66.89	4358.02	0.48	2067690	159936.2	37.106	-98.268
8844	88.4	358.8	4590.8	-3274.8	4453.48	-68.23	4454	1.18	2067689	160032.2	37.106	-98.268
8939	87.1	359	4594.53	-3278.53	4548.38	-70.05	4548.92	1.38	2067687	160127.1	37.106	-98.268
9036	88.3	359	4598.42	-3282.42	4645.29	-71.74	4645.84	1.24	2067686	160224	37.106	-98.268
9132	88.4	358.8	4601.19	-3285.19	4741.23	-73.59	4741.8	0.23	2067684	160319.9	37.107	-98.268
9226	89.8	357.7	4602.66	-3286.66	4835.17	-76.46	4835.77	1.89	2067681	160413.9	37.107	-98.268
9321	91	356.9	4602	-3286	4930.06	-80.93	4930.72	1.52	2067676	160508.8	37.107	-98.268
9417	92.7	358.9	4598.9	-3282.9	5025.94	-84.45	5026.63	2.73	2067673	160604.6	37.108	-98.268
9506	91.8	358.6	4595.41	-3279.41	5114.85	-86.39	5115.56	1.07	2067671	160693.5	37.108	-98.268
9554	91.8	358.6	4593.9	-3277.9	5162.81	-87.56	5163.54	0	2067670	160741.5	37.108	-98.268

Last Survey: 9506' MD, 4595' TVD
PTB: 9554' MD, 4594' TVD

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 359.180° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), Kansas South 1502.
Grid Convergence at Surface is 0.143°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 9554.00ft.,
the Bottom Hole Displacement is 5163.55ft., in the Direction of 359.180° (Grid).

Tapstone Energy
 Warner 11-34-9 1H
 Harper County, KS
 3/21/2018
 Surface

Ticket # P-1736



COMPANY Tapstone Energy	PROJECT NUMBER P-1736	AFE/WORK ORDER	DATE 3/21/2018
CONTRACTOR Spinnaker Oil	Owner Same	LEGAL DESCRIPTION Sec: 14-T34S-R09W	API 0
LEASE & WELL # Warner 11-34-9 1H	COUNTY Harper County, KS	STATE KS	MILEAGE 290

From the Jct of St Hwy 2 & SW 120 Ave (~5.4 miles Northeast of Corwin KS), Travel ~4 miles South on SW 120 Ave to RIG - Power Rig #7

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 9 5/8	Casing Weight 36.00	Thread LTC	CSG Grade J-55	Thread N/A	Plug. Cont. Yes
				Swage Yes	Top Plug Yes	Bottom Plug N/A
Number and Type Units Pump Truck, 660 Bulk Truck						
Remarks 9 5/8" Top Plug, head, 200 lbs Sugar, 8rd ADAPTER						

Materials	Spacer	Qty - BBLs 30	Type H2O	Recipe: H2O	
	BBL OF LEAD	# of Sacks 170	Type Class A	170 Sacks Oilwell Standard Cement, 2% Gypsum, 1% Calcium Chloride, 1.5% SMS, 0.25 lbs Polyflake	
	H2O REQUIRED	Weight PPG 11.50	Yield Ft3/Sk 2.82		Water Gal/S 17.25
	69.8				
	BBL OF TAIL	# of Sacks 135	Type Class A	135 Sacks Oilwell Standard Cement, 0.75% Calcium Chloride	
	H2O REQUIRED	Weight PPG 14.80	Yield Ft3/Sk 1.33		Water Gal/S 6.33
	20.3				
	Displacement	Qty - BBLs ~59 bbls	Type H2O	Procedure: H2O	

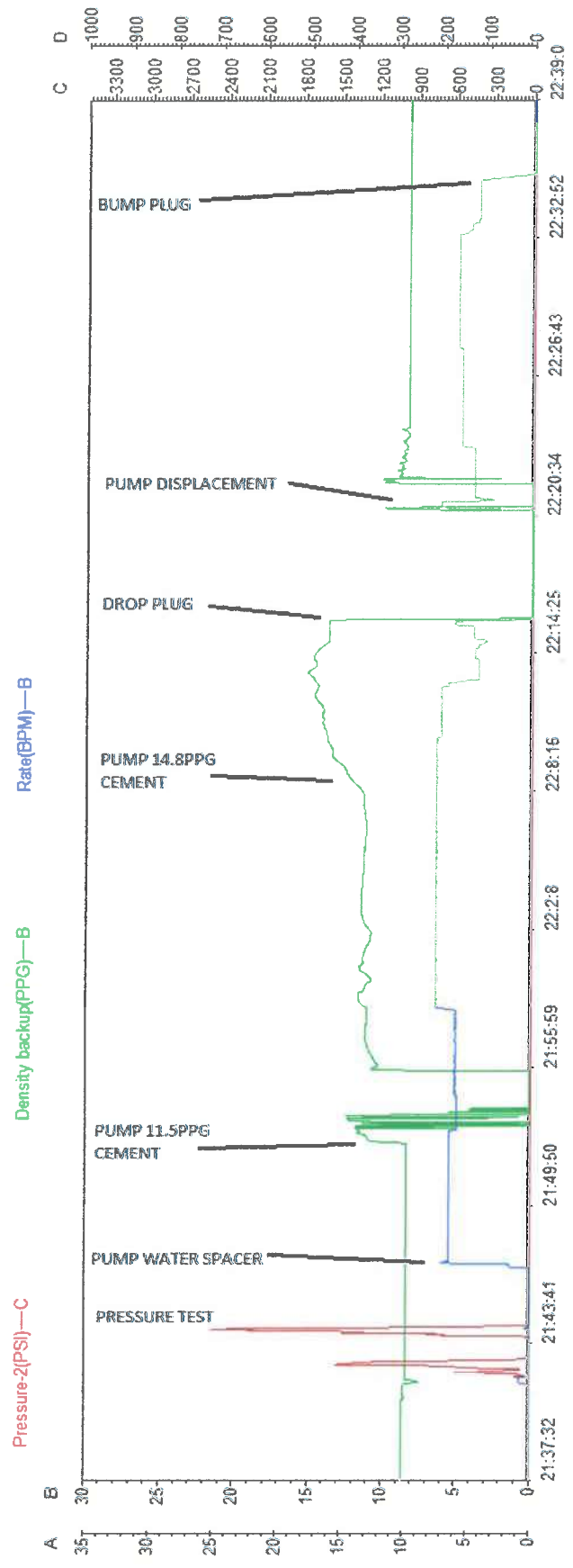
NOTES:

LEAD in FRONT pot and TAIL in BACK pot. There is **NO NEED** to fill out a Kansas Corporation Commission Cement Form

Sales Items	Casing Size 9 5/8	Casing Weight 36.00	Thread LTC
	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 200 lbs Sugar		

Customer Rep. 0	Cell Phone	Office Phone	Fax	Date Called To Rig 3/21/18	Time Called To Rig 0900
Call Taken By				Date Crew Called 3/21/18	Time Crew Called 0900
Crew Called				Date To Be On Location 3/21/18	Time To Be On Location 0900

Date: 3/22/18 Well Name: WARNER 11-34-9 1H Location: HARPER COUNT KS Country: KANSAS, MERICA Operator: TAPSTONE ENERGY Supervisor: JACOB O'BRIEN Type of Job: 9
 5/8 SURFACE Contact Address: Comment:



Chart



JOB LOG

PROJECT NUMBER	TICKET DATE
P-1736	03/23/18

COMPANY Tapstone Energy	COUNTRY USA	STATE OK	COUNTY Harper County, KS
LEASE NAME Warner 11-34-9 1H	Well No.	EMPLOYEE NAME	CUSTOMER REP
FIELD	SEC / TWP / RNG Sec: 14-T34S-R09W	TICKET AMOUNT 9,031.49	
API/UWI #	JOB PURPOSE Surface	WELL TYPE	

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
3/22/2018	1200					CREW CALLED OUT FOR 1600BT
3/22/2018	1600					CREW ARRIVE ON LOCATION
3/22/2018	1610					MEET WITH CUSTOMER AND REVIEW NUMBERS
3/22/2018	1710					SPOT EQUIPMENT
3/22/2018	1715					PRE RIG-UP SAFETY MEETING
3/22/2018	1800					RIG UP PUMP
3/22/2018	2100					PRE JOB SAFETY MEETING
3/22/2018	2135					FILL PUMP AND LINES
3/22/2018	2145				2500	PRESSURE TEST PUMP AND LINES
3/22/2018	2150	6.0	30.0		50	PUMP WATER SPACER
3/22/2018	2200	6.0	85.4		65	PUMP LEAD CEMENT @ 11.5 PPG
3/22/2018	2210	6.0	32.0		65	PUMP TAIL CEMENT @ 14.8 PPG
3/22/2018	2221					SHUT DOWN AND DROP TOP PLUG

Supervisor Signature:

Print Name: JACOB O'BF

Thank You For Using
Spinnaker Oilfield Services

				<h1>JOB LOG</h1>			PROJECT NUMBER	TICKET DATE
Tapstone Energy							USA	OK
LEASE NAME Warner 11-34-9 1H Well No.				EMPLOYEE NAME			CUSTOMER REP	
FIELD				SEC / TWP / RNG Sec: 14-T34S-R09W			TICKET AMOUNT 9,031.49	
API/UMI #				JOB PURPOSE Surface			WELL TYPE	

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
3/22/2018	2230	6.0	60.6		160	PUMP WATER DISPLACEMENT
3/22/2018	2231		30.0			CEMENT TO SURFACE
3/22/2018	2240				1300	BUMP PLUG
3/22/2018	2240					CHECK FLOATS (FLOATS HELD)
3/22/2018	2300					PRE RIG-DOWN SAFETY MEETING
3/22/2018	2320					RIG DOWN PUMP AND LINES
3/23/2018	0100					DEPART LOCATION
						TOP OF LEAD CEMENT @ SURFACE
						HEIGHT OF LEAD CEMENT 298.55'
						TOP OF TAIL CEMENT @ 298.55'
						HEIGHT OF TAIL CEMENT @ 512.54'

Supervisor Signature:

Print Name: JACOB O'BRIEN

Thank You For Using
Spinnaker Oilfield Services

Tapstone Energy
Warner 11-34-9 1H
Harper County, KS
3/26/2018
Intermediate

Ticket # P-1745



COMPANY Tapstone Energy	PROJECT NUMBER P-1745	AFE/WORK ORDER	DATE 3/26/2018
CONTRACTOR Spinnaker Oil	Owner Same	LEGAL DESCRIPTION Sec: 14-T34S-R09W	API
LEASE & WELL # Warner 11-34-9 1H	COUNTY Harper County, KS	STATE KS	MILEAGE 290

From the Jct of St Hwy 2 & SW 120 Ave (~5.4 miles Northeast of Corwin KS), Travel ~4 miles South on SW 120 Ave to RIG - Power Rig #7

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	Csng Grade	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
	7	26.00	LTC	P-110	Yes	Yes	Yes	N/A	40%
	Number and Type Units Pump Truck, one ea 660 Bulk					BHST - F 131	Casing Depth 4970	Depth - TVD - FT 4614	Hole Size - Inches 8 3/4
Remarks 7" BOTH TOP & BOTTOM Plug, Head, manifold, adapter, circulating iron & swage, 2" lo Torc					BHCT - F 104	Tubing Depth	Depth - MD - FT 4970	Mud Weight/Type - PPG	

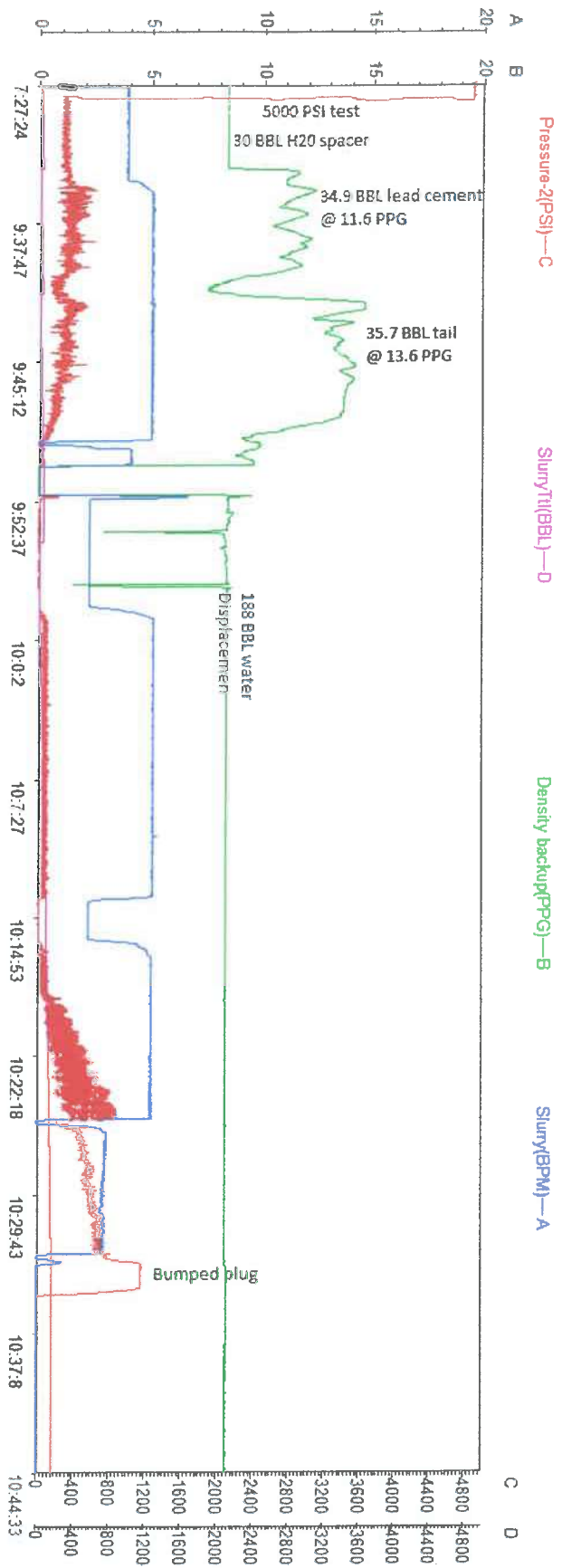
Materials	Qty - BBLs		Type	Recipe:	
	Spacer	30	H2O	30 BBLs Fresh Water	
	BBL OF LEAD	# of Sacks	Type	LEAD SLURRY	
	34.9	75	A:50:50	75 Sacks 50/50 Class A/POZ, 6% Gel, 6% Gypsum, 1% SMS, 6% SFA, 0.42 lbs Poly Flake	
	H2O REQUIRED	Weight PPG	Yield Ft3/Sk		Water Gal/S
	27.1	11.60	2.61		15.17
	BBL OF TAIL	# of Sacks	Type	TAIL SLURRY	
	35.7	120	Class A	120 Sacks Class A, 2% Gypsum, 1% SMS	
H2O REQUIRED	Weight PPG	Yield Ft3/Sk	Water Gal/S		
25.1	13.60	1.67	8.79		
Qty - BBLs		Type	Procedure		
Displacement	188	H2O	H2O		
Other	Quantity	Type	Additives		

Notes Lead is in the back pot and tail is in the front. There is **no need** to fill out a Kansas Corporation Commission form

Sales Items	Casing Size	7	Casing Weight	26.00	Thread
	Guide Shoe		Float Shoe		Float Collar
	Remarks	200 lbs Sugar			

Customer Rep. 0	Cell Phone	Office Phone	Fax	Date Called To Rig 3/26/18	Time Called To Rig 0900
Call Taken By				Date Crew Called 3/26/18	Time Crew Called 0900
Crew Called				Date To Be On Location 3/26/18	Time To Be On Location 0900

Date: 3/26/18 Well Name: Warner Location: Harper county KS Country: USA Operator: Ernest Robertson Supervisor: Jackie Helms Type of Job: Intermediate Contact Address: Tapstone Energy Comment:





JOB LOG

PROJECT NUMBER	TICKET DATE
P-1745	03/26/18

COMPANY Tapstone Energy	COUNTRY USA	STATE OK	COUNTY Harper County, KS
LEASE NAME Warner 11-34-9 1H	Well No.	EMPLOYEE NAME	CUSTOMER REP
FIELD	SEC / TWP / RING Sec: 31-17N-5W	TICKET AMOUNT 8,077.18	
API/UWI #	JOB PURPOSE Intermediate	WELL TYPE	

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
3/26/18	02:30					Pre travel safety huddle
3/26/18	03:00					Depart from the yard
3/26/18	06:00					Arrive on location and communicate with company man
3/26/18	06:10					Figure job and wait to be able to spot in equipment
3/26/18	06:45					Spot in cement equipment and begin rig up bulk truck and pump
3/26/18	07:45					Waiting on casing crew to finish washing joints down
3/26/18	08:45					Rig up floor
3/26/18	09:00					Rig floor safety meeting
3/26/18	09:25			5000		Pressure test
3/26/18	09:27	3.5	30.0	325		30 bbl water spacer
3/26/18	09:34	5.0	34.9	440		Lead cement 11.6 PPG pumped at 5 bpm Top of Lead is 3956ft
3/26/18	09:42	5.0	35.7	220		Tail Cement 13.6 PPg pumped at 5 bpm. Top of tail cement is 4131ft
3/26/18	09:49					Shut down drop spinnaker supplied plug

Supervisor Signature:

Print Name:

Jackie Helms

**Thank You For Using
Spinnaker Oilfield Services**



JOB LOG

PROJECT NUMBER	TICKET DATE
P-1745	03/26/18

COMPANY Tapstone Energy	COUNTRY USA	STATE OK	COUNTY Harper County, KS
LEASE NAME Warner 11-34-9 1H	Well No.	EMPLOYEE NAME	CUSTOMER REP
FIELD	SEC / TWP / RNG Sec: 31-17N-5W	TICKET AMOUNT 8,077.18	WELL TYPE
API/UWI #	JOB PURPOSE Intermediate		

Date	Time	Rate (BPM)	Volume (BBL)(GAL)	Press.(PSI)		Job Description / Remarks
				CSG.	Tbg	
3/26/18	09:54	3.0	10.0		30	After plug left head began wash up on top of the plug with first 10 bbls
3/26/18	09:58	5.0	150.0		120	Pumped 150 bbls H2O Displacement
3/26/18	10:25	3.0	20.0		650	Slowed rate down last 20 bbls to bump plug on the target
3/26/18	10:34				1155	Bumped plug on calculated displacement
3/26/18	10:38					Held PSI for 5 and checked floats and got .5 BBLs back
3/26/18	10:40					Begin rig down and paper work
3/26/18	12:00					Depart location
3/26/18						
3/26/18						
3/26/18						
3/26/18						
3/26/18						
3/26/18						

Supervisor Signature:

Print Name:

Jackie Helms

**Thank You For Using
Spinnaker Oilfield Services**

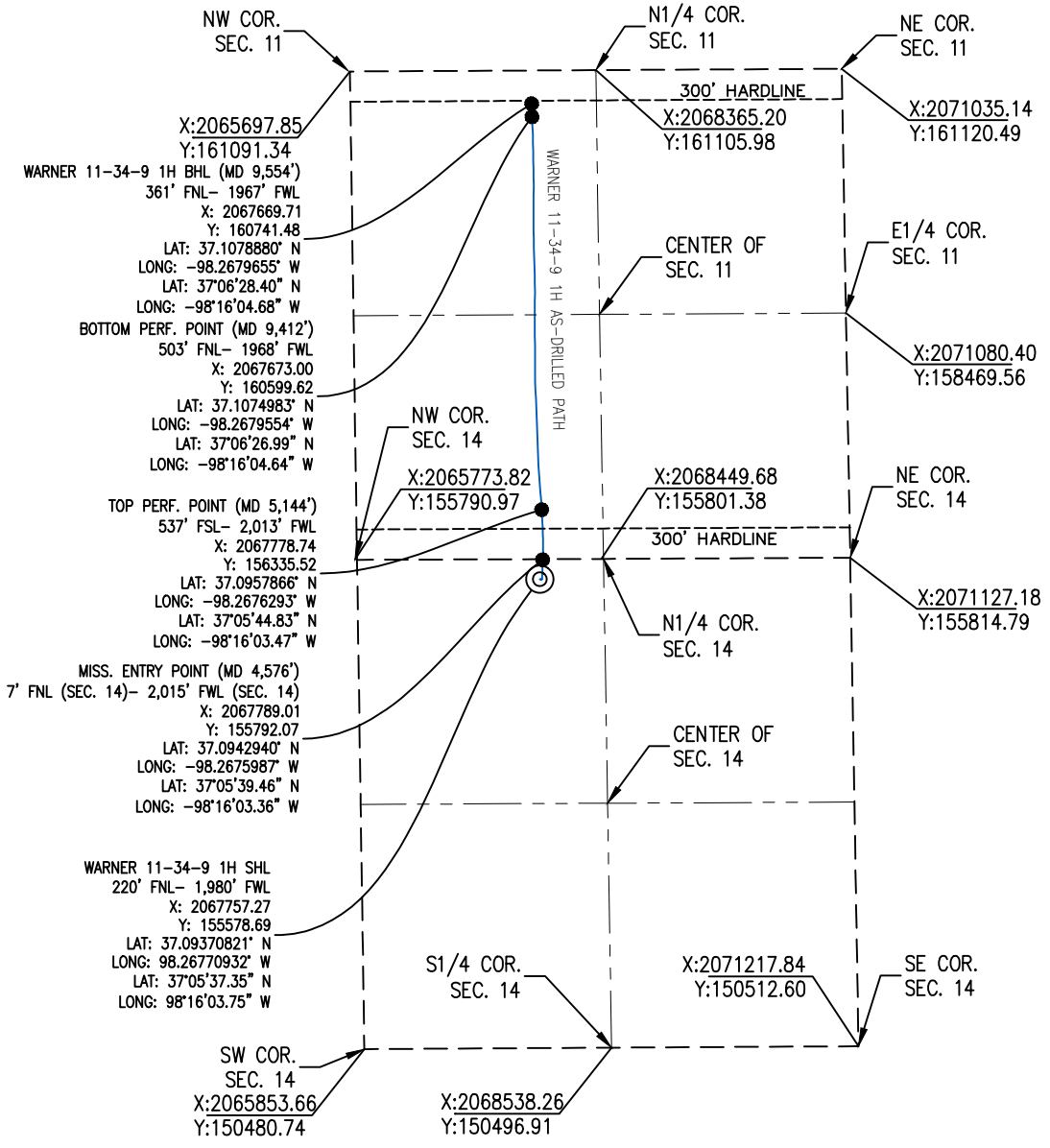


LEGEND

--- SECTION LINE
 - - - QUARTER LINE

HARPER COUNTY, KANSAS
 220' FNL- 1,980' FWL SECTION 14 TOWNSHIP 34S RANGE 09W 6TH P.M.

GRID NORTH (NAD 83)
 KANSAS - SOUTH ZONE



NOTE: ALL COORDINATES SHOWN IN
 NAD 27 UNLESS OTHERWISE NOTED.

BOTTOM HOLE INFORMATION PROVIDED
 BY OPERATOR LISTED AND CORNER
 COORDINATES ARE TAKEN FROM POINTS
 SURVEYED IN THE FIELD.

ELEVATION:
 1,300' GR. AT STAKE

OPERATOR: TAPSTONE ENERGY

WELL NO: 1H

LEASE NAME: WARNER 11-34-9

TOPOGRAPHIC & VEGETATION: LOCATION FELL IN A FIELD

GOOD DRILL SITE: YES REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: NONE

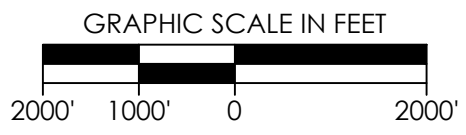
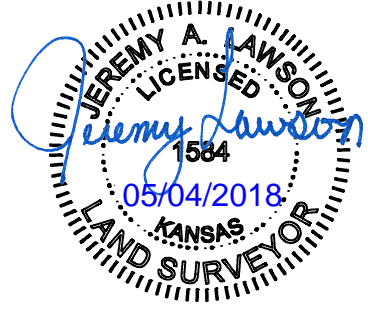
BEST ACCESSIBILITY TO LOCATION: NORTH OR WEST LINE

DISTANCE & DIRECTION
 FROM HWY JCT OR TOWN: FROM THE JCT. OF STATE HWY. 2 & SW 120 AVE. (±5.4 MILES
NORTHEAST OF CORWIN, KS), TRAVEL ±4.0 MILES SOUTH ON SW 120 AVE. TO THE
INTERSECTION OF SW 120 AVE. & SW 40 RD. THEN TURN RIGHT (WEST) AND TRAVEL ±0.5
MILES ON SW 40 RD TO THE NORTH QUARTER CORNER OF SECTION 14, T34S-R09W.

(THE FOLLOWING INFORMATION WAS GATHERED USING A GPS RECEIVER ACCURACY ±2.3 METERS)
 GPS DATUM: NAD-27
 LAT: 37.09370821° N
 LONG: 98.26770932° W
 STATE PLANE COORDINATES:
 ZONE: KS-SOUTH NAD-27
 X: 2067757.27
 Y: 155578.69

DATE STAKED: 4/5/18

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



REVISION		<p>WARNER 11-34-9 1H" PART OF THE NW1/4 OF SECTION 14, T-34-S, R-09-W FINAL AS-DRILLED PLAT HARPER COUNTY, KANSAS</p>	
△	FINAL 5-4-18		
SCALE: 1" = 2000'		DRAWN BY: <u>JWB</u>	SHEET NO.: <u>1 OF 1</u>
PLOT DATE: <u>05-04-2018</u>			

Sorry this took a few days. These numbers are just for conductors on each location. We buy our portland cement in bulk loads. We mix to an 8 sack per cu. yd. strength mix.

Kennedy 14-34-9 2H, 9 yds., = 57.5 bbls

Patterson 13-34-9 1H, 8 yds., = 51 bbls.

Warner 11-34-9 1H, 7 yds., = 44 bbls.

No additives.

We appreciate your business. Have a good weekend.

Barry Smith
Koda Services
cell-(580)273-8256
Office-(580)254-5019