



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1104602
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1104602

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

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

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

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

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

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

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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MS Energy Services
Survey Report



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-25H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 2143.00usft (Patterson 421)
Site:	Proctor	MD Reference:	WELL @ 2143.00usft (Patterson 421)
Well:	1-25H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,948.00	0.20	128.40	1,945.46	44.99	41.34	45.62	0.17	0.11	55.58	
2,043.00	0.30	164.60	2,040.46	44.65	41.54	45.28	0.19	0.11	38.11	
2,138.00	0.20	217.40	2,135.46	44.27	41.50	44.91	0.25	-0.11	55.58	
2,233.00	0.20	194.40	2,230.46	43.98	41.36	44.61	0.08	0.00	-24.21	
2,328.00	0.40	226.00	2,325.46	43.59	41.08	44.22	0.27	0.21	33.26	
2,424.00	0.20	221.50	2,421.45	43.23	40.73	43.85	0.21	-0.21	-4.69	
2,520.00	0.40	244.40	2,517.45	42.96	40.32	43.58	0.24	0.21	23.85	
2,614.00	0.40	190.00	2,611.45	42.50	39.96	43.11	0.39	0.00	-57.87	
2,709.00	0.20	198.00	2,706.45	42.01	39.86	42.62	0.21	-0.21	8.42	
2,803.00	0.40	200.70	2,800.45	41.55	39.69	42.15	0.21	0.21	2.87	
2,899.00	0.40	166.70	2,896.45	40.91	39.65	41.51	0.24	0.00	-35.42	
2,994.00	0.40	173.40	2,991.44	40.26	39.76	40.86	0.05	0.00	7.05	
3,089.00	0.40	180.40	3,086.44	39.60	39.80	40.20	0.05	0.00	7.37	
3,183.00	0.40	194.00	3,180.44	38.95	39.72	39.56	0.10	0.00	14.47	
3,278.00	0.30	162.20	3,275.44	38.39	39.71	39.00	0.23	-0.11	-33.47	
3,374.00	0.30	204.00	3,371.44	37.92	39.69	38.53	0.22	0.00	43.54	
3,469.00	0.40	146.10	3,466.43	37.42	39.77	38.03	0.37	0.11	-60.95	
3,563.00	0.40	185.10	3,560.43	36.82	39.92	37.43	0.28	0.00	41.49	
3,658.00	0.20	167.20	3,655.43	36.33	39.93	36.94	0.23	-0.21	-18.84	
3,753.00	0.20	138.50	3,750.43	36.04	40.08	36.66	0.10	0.00	-30.21	
3,848.00	0.30	214.20	3,845.43	35.71	40.05	36.32	0.33	0.11	79.68	
3,943.00	0.40	223.40	3,940.43	35.27	39.68	35.87	0.12	0.11	9.68	
4,039.00	0.30	164.10	4,036.43	34.78	39.52	35.39	0.37	-0.10	-61.77	
4,133.00	0.60	168.40	4,130.42	34.06	39.69	34.67	0.32	0.32	4.57	
4,228.00	0.60	163.10	4,225.42	33.10	39.93	33.71	0.06	0.00	-5.58	
4,323.00	0.70	138.70	4,320.41	32.19	40.46	32.81	0.31	0.11	-25.68	
4,419.00	0.70	130.80	4,416.41	31.36	41.29	31.99	0.10	0.00	-8.23	
4,515.00	0.60	133.40	4,512.40	30.64	42.10	31.28	0.11	-0.10	2.71	
4,588.00	0.50	141.00	4,585.40	30.13	42.58	30.78	0.17	-0.14	10.41	
4,620.00	2.40	356.60	4,617.39	30.69	42.62	31.34	8.82	5.94	-451.25	
4,651.00	6.40	357.80	4,648.29	33.06	42.52	33.71	12.91	12.90	3.87	
4,683.00	10.50	1.10	4,679.94	37.76	42.51	38.41	12.90	12.81	10.31	
4,715.00	14.00	2.30	4,711.20	44.55	42.72	45.20	10.97	10.94	3.75	
4,746.00	16.00	3.10	4,741.14	52.56	43.10	53.22	6.49	6.45	2.58	
4,777.00	18.60	1.30	4,770.74	61.77	43.44	62.43	8.56	8.39	-5.81	
4,809.00	21.40	357.60	4,800.81	72.71	43.31	73.36	9.60	8.75	-11.56	
4,840.00	24.10	356.40	4,829.39	84.68	42.68	85.32	8.84	8.71	-3.87	
4,872.00	26.90	355.50	4,858.27	98.42	41.70	99.05	8.83	8.75	-2.81	
4,904.00	31.40	356.80	4,886.21	113.97	40.67	114.58	14.20	14.06	4.06	
4,936.00	36.60	359.20	4,912.74	131.84	40.07	132.44	16.78	16.25	7.50	
4,967.00	40.70	1.30	4,936.94	151.19	40.17	151.79	13.88	13.23	6.77	
5,000.00	44.20	2.60	4,961.29	173.45	40.94	174.06	10.93	10.61	3.94	
5,031.00	47.60	2.60	4,982.86	195.69	41.94	196.31	10.97	10.97	0.00	



MS Energy Services
Survey Report



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-25H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 2143.00usft (Patterson 421)
Site:	Proctor	MD Reference:	WELL @ 2143.00usft (Patterson 421)
Well:	1-25H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,063.00	51.50	2.30	5,003.62	220.01	42.98	220.64	12.21	12.19	-0.94	
5,094.00	54.30	2.60	5,022.31	244.71	44.04	245.36	9.07	9.03	0.97	
5,126.00	57.80	1.00	5,040.18	271.24	44.87	271.89	11.70	10.94	-5.00	
5,158.00	59.70	359.40	5,056.78	298.59	44.96	299.25	7.32	5.94	-5.00	
5,188.00	60.00	359.20	5,071.85	324.53	44.64	325.18	1.15	1.00	-0.67	
5,220.00	60.10	359.00	5,087.83	352.25	44.21	352.89	0.63	0.31	-0.63	
5,252.00	60.00	358.50	5,103.80	379.97	43.60	380.60	1.39	-0.31	-1.56	
5,284.00	62.90	358.90	5,119.09	408.07	42.97	408.68	9.13	9.06	1.25	
5,315.00	67.30	359.10	5,132.14	436.18	42.48	436.78	14.21	14.19	0.65	
5,347.00	72.00	359.30	5,143.27	466.17	42.06	466.76	14.70	14.69	0.63	
5,379.00	74.50	359.30	5,152.49	496.81	41.68	497.39	7.81	7.81	0.00	
5,410.00	75.30	359.30	5,160.57	526.74	41.32	527.31	2.58	2.58	0.00	
5,441.00	77.30	359.10	5,167.91	556.85	40.90	557.41	6.48	6.45	-0.65	
5,473.00	80.40	359.00	5,174.09	588.24	40.38	588.79	9.69	9.69	-0.31	
5,505.00	84.20	359.10	5,178.38	619.94	39.85	620.48	11.88	11.88	0.31	
5,537.00	87.50	358.90	5,180.70	651.84	39.29	652.37	10.33	10.31	-0.63	
5,568.00	88.50	359.10	5,181.78	682.82	38.75	683.34	3.29	3.23	0.65	
5,600.00	88.70	358.60	5,182.56	714.80	38.11	715.31	1.68	0.63	-1.56	
5,653.00	89.60	358.40	5,183.35	767.78	36.72	768.25	1.74	1.70	-0.38	
5,745.00	90.90	0.50	5,182.95	859.77	35.84	860.22	2.68	1.41	2.28	
5,838.00	91.50	0.80	5,181.00	952.74	36.90	953.20	0.72	0.65	0.32	
5,930.00	90.70	2.10	5,179.23	1,044.69	39.22	1,045.17	1.66	-0.87	1.41	
6,022.00	90.90	1.90	5,177.95	1,136.63	42.43	1,137.14	0.31	0.22	-0.22	
6,114.00	92.00	2.70	5,175.62	1,228.52	46.12	1,229.08	1.48	1.20	0.87	
6,206.00	89.90	1.50	5,174.09	1,320.44	49.50	1,321.04	2.63	-2.28	-1.30	
6,297.00	88.60	359.20	5,175.28	1,411.42	50.05	1,412.02	2.90	-1.43	-2.53	
6,360.00	89.00	358.90	5,176.60	1,474.40	49.01	1,474.98	0.79	0.63	-0.48	
6,454.00	89.90	358.90	5,177.51	1,568.38	47.20	1,568.92	0.96	0.96	0.00	
6,549.00	90.80	358.70	5,176.93	1,663.35	45.21	1,663.85	0.97	0.95	-0.21	
6,644.00	91.10	0.40	5,175.35	1,758.33	44.47	1,758.81	1.82	0.32	1.79	
6,738.00	90.10	1.30	5,174.37	1,852.32	45.86	1,852.80	1.43	-1.06	0.96	
6,833.00	90.30	0.80	5,174.03	1,947.30	47.60	1,947.80	0.57	0.21	-0.53	
6,929.00	91.20	0.50	5,172.78	2,043.28	48.69	2,043.79	0.99	0.94	-0.31	
7,023.00	89.70	0.70	5,172.04	2,137.27	49.68	2,137.78	1.61	-1.60	0.21	
7,118.00	90.30	0.40	5,172.04	2,232.27	50.59	2,232.78	0.71	0.63	-0.32	
7,213.00	89.00	1.60	5,172.62	2,327.25	52.25	2,327.78	1.86	-1.37	1.26	
7,309.00	89.80	1.30	5,173.63	2,423.21	54.67	2,423.77	0.89	0.83	-0.31	
7,404.00	88.20	1.10	5,175.28	2,518.17	56.66	2,518.75	1.70	-1.68	-0.21	
7,499.00	89.30	1.30	5,177.36	2,613.13	58.65	2,613.72	1.18	1.16	0.21	
7,593.00	89.90	1.60	5,178.01	2,707.09	61.03	2,707.71	0.71	0.64	0.32	
7,689.00	87.90	0.50	5,179.86	2,803.05	62.79	2,803.69	2.38	-2.08	-1.15	
7,784.00	88.10	0.40	5,183.17	2,897.99	63.54	2,898.63	0.24	0.21	-0.11	
7,879.00	89.00	359.70	5,185.57	2,992.96	63.62	2,993.59	1.20	0.95	-0.74	



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-25H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 2143.00usft (Patterson 421)
Site:	Proctor	MD Reference:	WELL @ 2143.00usft (Patterson 421)
Well:	1-25H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,975.00	90.00	359.70	5,186.41	3,088.96	63.12	3,089.56	1.04	1.04	0.00
8,069.00	90.50	0.10	5,186.00	3,182.95	62.95	3,183.55	0.68	0.53	0.43
8,164.00	91.10	359.80	5,184.68	3,277.94	62.87	3,278.52	0.71	0.63	-0.32
8,259.00	89.10	1.40	5,184.51	3,372.93	63.86	3,373.51	2.70	-2.11	1.68
8,353.00	90.20	359.80	5,185.08	3,466.92	64.85	3,467.51	2.07	1.17	-1.70
8,448.00	91.30	359.80	5,183.84	3,561.91	64.52	3,562.48	1.16	1.16	0.00
8,543.00	89.30	0.50	5,183.34	3,656.90	64.77	3,657.47	2.23	-2.11	0.74
8,638.00	89.10	0.50	5,184.67	3,751.89	65.59	3,752.45	0.21	-0.21	0.00
8,732.00	89.40	359.90	5,185.90	3,845.88	65.92	3,846.44	0.71	0.32	-0.64
8,827.00	89.50	0.90	5,186.81	3,940.87	66.59	3,941.43	1.06	0.11	1.05
8,922.00	89.80	0.50	5,187.39	4,035.86	67.75	4,036.43	0.53	0.32	-0.42
9,017.00	89.50	0.20	5,187.97	4,130.86	68.33	4,131.42	0.45	-0.32	-0.32
9,112.00	90.70	359.30	5,187.81	4,225.86	67.91	4,226.40	1.58	1.26	-0.95
9,206.00	91.30	359.10	5,186.17	4,319.83	66.60	4,320.35	0.67	0.64	-0.21
9,300.00	90.60	1.00	5,184.61	4,413.81	66.68	4,414.32	2.15	-0.74	2.02
9,395.00	91.50	0.80	5,182.87	4,508.79	68.17	4,509.30	0.97	0.95	-0.21
9,488.00	90.40	0.90	5,181.32	4,601.76	69.55	4,602.29	1.19	-1.18	0.11
9,561.00	90.00	0.80	5,181.07	4,674.75	70.64	4,675.29	0.56	-0.55	-0.14
9,622.00	90.00	0.80	5,181.07	4,735.75	71.49	4,736.29	0.00	0.00	0.00

Projection to TD-9622.00' MD

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
668.00	667.99	-3.07	0.84	Tie-In to VES Gyro-668.00' MD
9,622.00	5,181.07	4,735.75	71.49	Projection to TD-9622.00' MD



Company:	Tug Hill Operating, LLC	Local Co-ordinate Reference:	Well 1-25H
Project:	Comanche County, Kansas (NAD83)	TVD Reference:	WELL @ 2143.00usft (Patterson 421)
Site:	Proctor	MD Reference:	WELL @ 2143.00usft (Patterson 421)
Well:	1-25H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Comanche County, Kansas (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Kansas Southern Zone		

Well	1-25H				
Well Position	+N/-S	0.00 usft	Northing:	1,547,771.84 usft	Latitude: 37° 18' 36.7363 N
	+E/-W	0.00 usft	Easting:	1,066,914.81 usft	Longitude: 99° 20' 37.823 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 2,120.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	09/28/2012	5.39	65.26	51,844

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00		0.88

Survey Program	Date	10/15/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	668.00	VES Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
808.00	9,622.00	MS MWD (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
668.00	0.25	191.89	667.99	-3.07	0.84	-3.05	0.00	0.00	0.00	
Tie-In to VES Gyro-668.00' MD										
745.00	0.70	220.30	744.99	-3.59	0.50	-3.58	0.64	0.58	36.90	
808.00	0.40	222.60	807.98	-4.04	0.10	-4.04	0.48	-0.48	3.65	
903.00	0.80	21.70	902.98	-3.67	0.12	-3.67	1.24	0.42	167.47	
998.00	2.70	31.30	997.93	-1.14	1.53	-1.12	2.02	2.00	10.11	
1,093.00	4.70	38.60	1,092.73	3.81	5.12	3.89	2.16	2.11	7.68	
1,188.00	5.20	40.80	1,187.38	10.11	10.36	10.27	0.56	0.53	2.32	
1,283.00	5.20	43.10	1,281.99	16.51	16.12	16.76	0.22	0.00	2.42	
1,378.00	5.50	40.30	1,376.57	23.13	22.00	23.46	0.42	0.32	-2.95	
1,472.00	5.40	44.80	1,470.15	29.70	28.04	30.13	0.47	-0.11	4.79	
1,567.00	4.60	43.10	1,564.78	35.66	33.79	36.17	0.86	-0.84	-1.79	
1,662.00	3.20	39.70	1,659.56	40.48	38.08	41.06	1.49	-1.47	-3.58	
1,757.00	1.70	26.70	1,754.47	43.78	40.41	44.39	1.67	-1.58	-13.68	
1,853.00	0.10	75.60	1,850.46	45.07	41.13	45.70	1.70	-1.67	50.94	

ALLIED OIL & GAS SERVICES, LLC 053925

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge KS

DATE <u>10/02/2012</u>	SEC. <u>25</u>	TWP. <u>31s</u>	RANGE <u>19w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Proctor</u>	WELL # <u>1-25H</u>	LOCATION <u>Coldwater KS, North to Ave F,</u>			COUNTY <u>Cowanche</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>West, North into</u>			<u>1.01</u>	<u>6.3</u>	

CONTRACTOR Patterson # 421 OWNER Tug Hill Oper

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 858

CASING SIZE 9 5/8 DEPTH 756

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 1000 MINIMUM

MEAS. LINE SHOE JOINT 46.02

CEMENT LEFT IN CSC. 46.02

PERFS.

DISPLACEMENT 5 1/2 BBLs Fresh H₂O

CEMENT
AMOUNT ORDERED 200sr Class A + 3% cc + 2% sm's + 2% Gyp seal + 1/4# Flo seal, 150sr Class A + 2% cc

COMMON <u>Class A</u>	<u>350</u>	@	<u>17.90</u>	<u>6265</u>
POZ MIX		@		
GEL		@		
CHLORIDE	<u>11 sr</u>	@	<u>64</u>	<u>704</u>
ASC	<u>776</u>	@		
<u>Sodium Metasilicate</u>	<u>37lb</u>	@	<u>3.30</u>	<u>1240.00</u>
<u>Gyp seal</u>	<u>4 sr</u>	@	<u>37.60</u>	<u>150.40</u>
<u>Flo seal</u>	<u>50 lbs</u>	@	<u>2.97</u>	<u>148.50</u>
<u>Sugar</u>	<u>50 lbs</u>	@	<u>1.00</u>	<u>50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Jason Thimach 1

471/555 HELPER Scott Pridly 2

BULK TRUCK

561/553 DRIVER Jake Heard 3

BULK TRUCK # _____ DRIVER

HANDLING <u>379 cft</u>	@	<u>2.48</u>	<u>939.92</u>
MILEAGE <u>17.3 mi x 35 mi x 2.60</u>			<u>1574.30</u>
			<u>605.50</u>
TOTAL			<u>11072.92</u>

REMARKS:

Well Name Proctor 1-25H

A.F.E. No. 12-0165

ACCNT No. 83018

Name Tony Earnest

Signature Tony Earnest

SERVICE

DEPTH OF JOB <u>756</u>			
PUMP TRUCK CHARGE			<u>2058.50</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>35</u>	@	<u>7.70</u>
MANIFOLD + Head	@		<u>275</u>
LV	<u>35</u>	@	<u>4.40</u>
			<u>154</u>

TOTAL 2757

CHARGE TO: Tug Hill Oper

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>958</u>			
<u>Tap Rubber Plug</u>	<u>1</u>	@	<u>189.86</u>
		@	
		@	
		@	
			<u>189.86</u>

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) <u>550.84</u>	
TOTAL CHARGES <u>14014.78</u>	
DISCOUNT <u>35% 4905.19</u> IF PAID IN 30 DAYS	
Net <u>9109.61</u>	

PRINTED NAME Tony Earnest

SIGNATURE Tony Earnest

ALLIED OIL & GAS SERVICES, LLC 053928

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine Lodge KS

DATE <u>10/09/12</u>	SEC. <u>25</u>	TWP. <u>21S</u>	RANGE <u>20W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Procter Trst</u>	WELL # <u>1-25 H</u>	LOCATION <u>Coldwater KS, North Inlet, West</u>			COUNTY <u>Comanche</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				LOCATION <u>1 mile, North into</u>			

CONTRACTOR Patterson #421 OWNER Tig Hill

TYPE OF JOB Intermediate

HOLE SIZE 8 1/2 T.D. 5650

CASING SIZE 7 DEPTH 5593

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX 1500 MINIMUM

MEAS. LINE SHOE JOINT 48

CEMENT LEFT IN CSG. 48

PERFS.

DISPLACEMENT 212 BBLs Fresh H₂O

EQUIPMENT

CEMENT	AMOUNT ORDERED	<u>225x Class A + 5% mt + 2% Gel + 3% FL-160 + Defoamer</u>	
		<u>1288L Super Flush</u>	
COMMON	<u>Class A</u>	<u>225x @ 17.90</u>	<u>4027.50</u>
POZMIX			
GEL	<u>4x</u>	<u>@ 23.40</u>	<u>93.60</u>
CHLORIDE			
ASC			
Salt	<u>6.9x</u>	<u>@ 26.35</u>	<u>152.10</u>
FL-160	<u>671L</u>	<u>@ 18.90</u>	<u>1190.70</u>
Powder Defoamer	<u>31L</u>	<u>@ 9.80</u>	<u>303.80</u>
Super Flush	<u>1288L</u>	<u>@ 58.70</u>	<u>704.40</u>
HANDLING	<u>243 cap</u>	<u>@ 2.48</u>	<u>602.64</u>
MILEAGE	<u>(388.5) mi</u>	<u>x 2.60</u>	<u>1010.10</u>
TOTAL			<u>8090.84</u>

PUMP TRUCK CEMENTER Jason Thinesch / #548/545 HELPER Eddie Piper / Brandon Barr

BULK TRUCK # 356/290 DRIVER Jake Heard 3

BULK TRUCK # _____ DRIVER _____

REMARKS:

Plug Did hold

Well Name Procter 1-25H

APP No. 120105

ACCT No. 830.18

Name Tony Earnest

Signature Tony Earnest

CHARGE TO: Tig Hill

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>5593</u>	
PUMP TRUCK CHARGE		<u>3099.25</u>
EXTRA FOOTAGE		
MILEAGE	<u>35mi</u>	<u>@ 7.70</u> <u>269.50</u>
MANIFOLD + Head		<u>275</u>
LV	<u>35mi</u>	<u>@ 4.40</u> <u>154</u>
TOTAL		

PLUG & FLOAT EQUIPMENT

7"		
Top Rubber Plug	<u>1 @</u>	<u>99.45</u> <u>99.45</u>
Float Collar	<u>1 @</u>	<u>886.81</u> <u>886.86</u>
TOTAL		

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Tony Earnest

SIGNATURE Tony Earnest

SALES TAX (If Any) 470.25

TOTAL CHARGES 12874.90

DISCOUNT 35% 4506.23 IF PAID IN 30 DAYS

Net 8368.68

ALLIED OIL & GAS SERVICES, LLC 053931

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge KS

DATE <u>10/14/12</u>	SEC <u>25</u>	TWP <u>31s</u>	RANGE <u>20w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Proctor Trust</u>	WELL # <u>1-25H</u>	LOCATION <u>Coldwater KS, 1 North, 1 West,</u>			COUNTY <u>Camarache</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				<u>North into</u>	<u>1.06</u>	<u>6.3</u>	

CONTRACTOR Patterson 421 OWNER Tug Hill

TYPE OF JOB <u>Production Liner</u>	CEMENT
HOLE SIZE <u>6 1/2</u> TD <u>9681</u>	AMOUNT ORDERED <u>325.5x Class H 50:50 +</u>
CASINO SIZE <u>4 1/2</u> DEPTH <u>9587</u>	<u>2% Gel + 5% Salt + 6% FL-16.0 + 1% CD-31 +</u>
TUBING SIZE DEPTH	<u>1% SA-51 + 3# Kokeal + 1/4# Defoamer</u>
DRILL PIPE DEPTH	COMMON <u>Class H 163.5x @ 16.85 2746.55</u>
TOOL DEPTH	POZMIX <u>162.5x @ 9.35 1514.76</u>
PRES. MAX-1600 MINIMUM	GEL <u>6.5x @ 23.40 149.40</u>
MEAS. LINE SHOE JOINT <u>45</u>	CHLORIDE @
CEMENT LEFT IN CSG. <u>45</u>	ASC @
PERFS.	FL-16.0 <u>164lbs @ 18.90 3099.60</u>
DISPLACEMENT <u>114 BBLs Fresh H₂O</u>	Defoamer <u>81lbs @ 9.80 793.80</u>

EQUIPMENT	
PUMP TRUCK CEMENTER <u>Jason Thimmesch / #598/545</u>	SALT <u>9.5x @ 26.35 237.15</u>
BULK TRUCK HELPER <u>Doris Franklin 1</u>	SA-51 <u>271lbs @ 17.55 473.85</u>
BULK TRUCK DRIVER <u>Brandon Boor 3</u>	CD-31 <u>271lbs @ 10.30 278.10</u>
BULK TRUCK DRIVER	

REMARKS:
Plus Held, Reversed out 13BBLs cement
Well Name: Proctor 1-25H
AFE No. 18-0165
ACCT No. 830.18
Name Tony Earnest
Signature Tony Earnest

CHARGE TO: Tug Hill
STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Tony Earnest
SIGNATURE Tony Earnest

HANDLING <u>356.20 cuft @ 2.48</u>	<u>883.38</u>
MILEAGE <u>507.5 mi @ 2.60</u>	<u>1319.50</u>
TOTAL <u>11487.03</u>	

SERVICE	
DEPTH OF JOB <u>9587</u>	
PUMP TRUCK CHARGE	<u>5920.20</u>
EXTRA FOOTAGE @	
MILEAGE <u>35 @ 7.70</u>	<u>269.50</u>
MANIFOLD @	
L.V. <u>35 @ 4.40</u>	<u>154</u>
TOTAL <u>6343.70</u>	

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@

TOTAL _____
SALES TAX (if Any) 584.90
TOTAL CHARGES 17830.73
DISCOUNT 35% to 40.76 IF PAID IN 30 DAYS
Not 11589.97 per bid



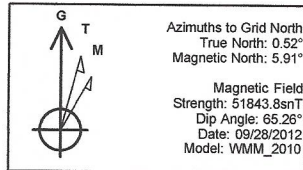
Company: Tug Hill Operating, LLC
 Site: Proctor
 Well: 1-25H
 Project: Comanche County, Kansas (NAD83)
 Rig Name: Patterson 421



Planning: 936.442.2510 Fax: 936.442.2515
 Operations: 936.442.2500 Fax: 936.442.2599

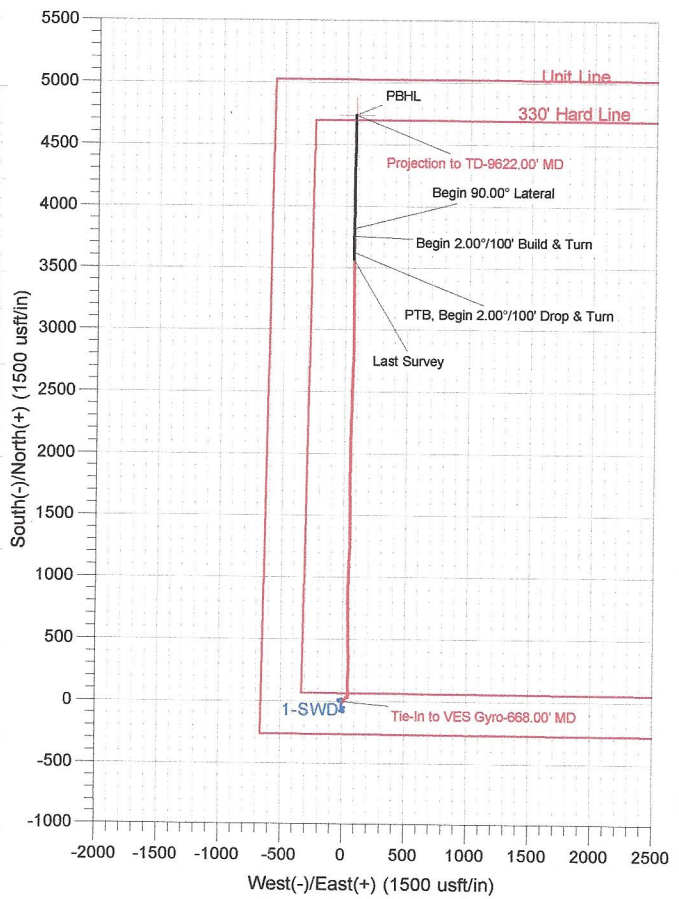
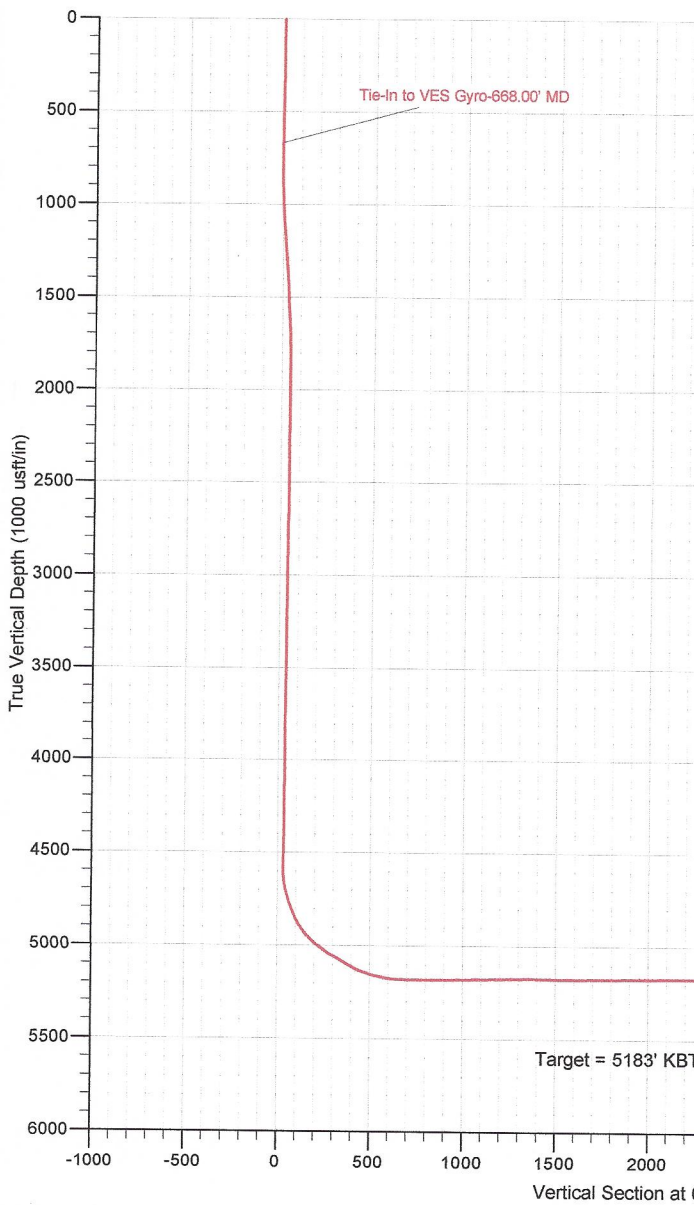
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
8448.00	91.30	359.80	5183.84	3561.91	64.52	3562.48	0.00	Last Survey
8509.00	91.30	359.80	5182.46	3622.89	64.30	3623.45	60.98	PTB, Begin 2.00°/100' Drop & Turn
8642.58	88.79	0.72	5182.35	3756.46	64.91	3757.02	194.56	Begin 2.00°/100' Build & Turn
8704.50	90.00	0.45	5183.00	3818.37	65.55	3818.93	256.47	Begin 90.00° Lateral
9622.20	90.00	0.45	5183.00	4736.05	72.76	4736.60	1174.17	PBHL



US State Plane 1983
 Kansas Southern Zone

Created By: Hunter Heseman
 Date: 9:48, October 15 2012
 Plan: Design #4



Target = 5183' KBTVD @ 0.00° dip

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.

Well Name: Proctor Trust 1-25H

Contractor/Rig: Patterson-UTI 421

State: KS

County: Comanche

SHL: 265 FSL & 660 FWL

Township: 31W

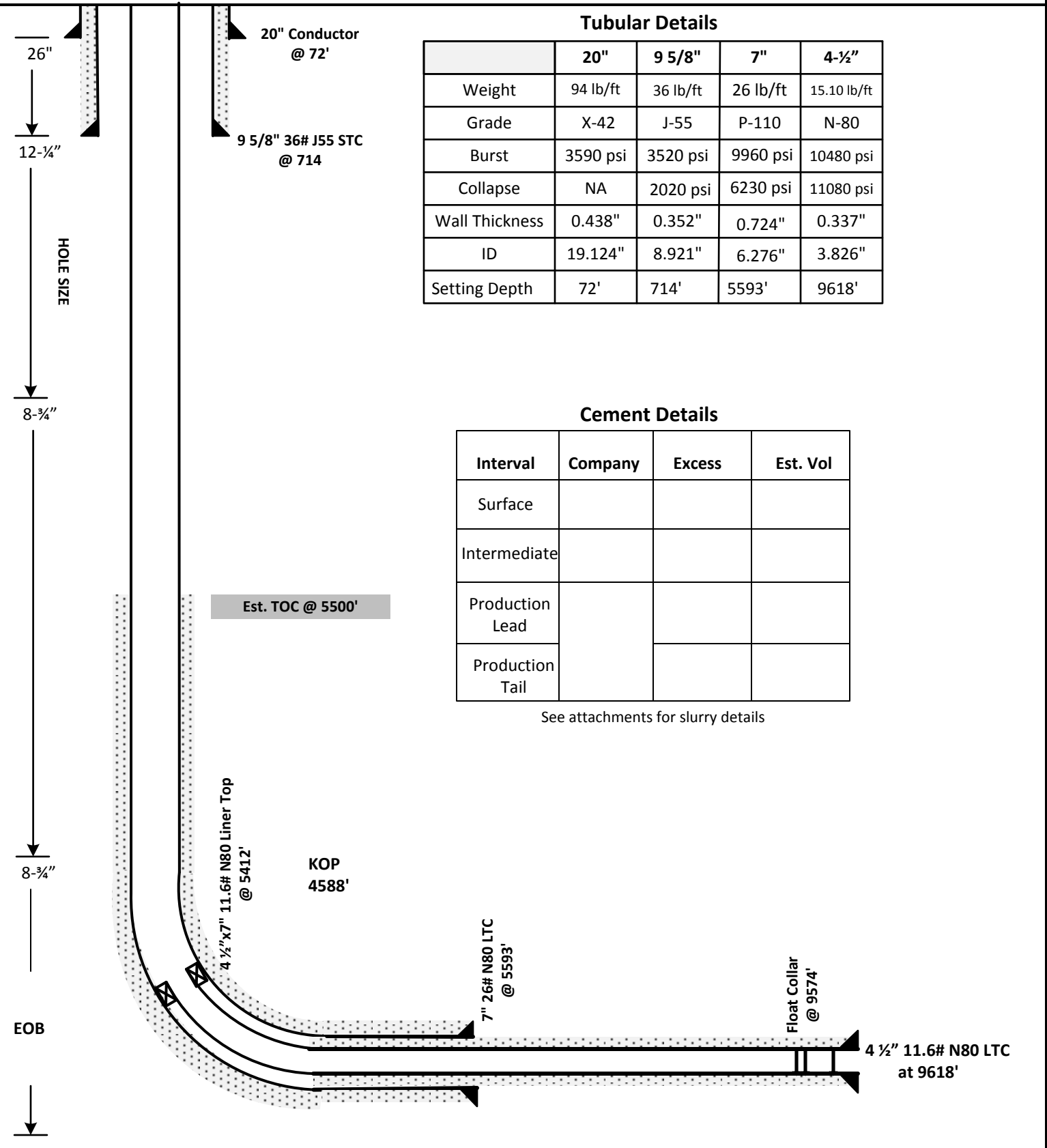
As Run

GL Elev: 2120 KB: 23 KB Elev:

BHL: 330' FNL & 660' FWL

AFE: 12-0165

Permit/API Number: 15-083-21658-01-00



Tubular Details

	20"	9 5/8"	7"	4-1/2"
Weight	94 lb/ft	36 lb/ft	26 lb/ft	15.10 lb/ft
Grade	X-42	J-55	P-110	N-80
Burst	3590 psi	3520 psi	9960 psi	10480 psi
Collapse	NA	2020 psi	6230 psi	11080 psi
Wall Thickness	0.438"	0.352"	0.724"	0.337"
ID	19.124"	8.921"	6.276"	3.826"
Setting Depth	72'	714'	5593'	9618'

Cement Details

Interval	Company	Excess	Est. Vol
Surface			
Intermediate			
Production Lead			
Production Tail			

See attachments for slurry details

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 12, 2012

Winnie Scott
Tug Hill Operating, LLC
550 BAILEY AVE, STE 510
FT. WORTH, TX 76107

Re: ACO1
API 15-033-21658-01-00
Proctor Trust 1-25H
SW/4 Sec.25-31S-19W
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Winnie Scott