



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

OPERATOR: License # 34662
 Name: Tug Hill Operating, LLC
 Address 1: 550 BAILEY AVE, STE 510
 Address 2: _____
 City: FT. WORTH State: TX Zip: 76107 +
 Contact Person: Winnie Scott
 Phone: (817) 632-3400
 CONTRACTOR: License # 34670
 Name: Patterson-UTI Drilling Company LLC
 Wellsite Geologist: NA
 Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>10/01/2012</u>	<u>10/15/2012</u>	<u>11/11/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-033-21658-01-00
 Spot Description: _____
S2_S2_SW_SW Sec. 25 Twp. 31 S. R. 19 East West
265 Feet from North / South Line of Section
660 Feet from East / West Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: Comanche
 Lease Name: Proctor Trust Well #: 1-25H
 Field Name: _____
 Producing Formation: Mississippi
 Elevation: Ground: 2120 Kelly Bushing: 23
 Total Depth: 9622 Plug Back Total Depth: 9572
 Amount of Surface Pipe Set and Cemented at: 714 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 crnt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
 Chloride content: 18000 ppm Fluid volume: 1300 bbls
 Dewatering method used: Evaporated
 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

Letter of Confidentiality Received
 Date: 12/12/2012

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: NAOMI JAMES Date: 12/14/2012



MS Energy Services
Survey Report



Company: Tug Hill Operating, LLC
 Project: Comanche County, Kansas (NAD83)
 Site: Proctor
 Well: 1-25H
 Wellbore: Wellbore #1
 Design: Surveys

Local Co-ordinate Reference: Well 1-25H
 TVD Reference: WELL @ 2143.00usft (Patterson 421)
 MD Reference: WELL @ 2143.00usft (Patterson 421)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Southern Region

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+W-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	43.69	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	39.78	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	79.88
3,943.00	0.40	223.40	3,940.43	35.27	39.68	35.87	0.12	0.11	9.66
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	39.89	34.67	0.32	0.32	4.67
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	0.80	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	42.68	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	33.08	42.52	33.71	12.91	12.90	3.87
4,683.00	10.50	1.10	4,679.84	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	4,936.84	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	10.81	3.94
5,031.00	47.60	2.60	4,982.86	195.69	41.94	196.31	10.97	10.87	0.00



MS Energy Services
Survey Report



Company: Tug Hill Operating, LLC
 Project: Comanche County, Kansas (NAD83)
 Site: Proctor
 Well: 1-25H
 Wellbore: Wellbore #1
 Design: Surveys

Local Co-ordinate Reference: Well 1-25H
 TVD Reference: WELL @ 2143.00usft (Patterson 421)
 MD Reference: WELL @ 2143.00usft (Patterson 421)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
5,083.00	51.50	2.30	5,003.62	220.01	42.98	220.64	12.21	12.19	-0.94
5,094.00	54.30	2.80	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
5,186.00	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	362.26	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	9.08	1.25
5,315.00	67.30	359.10	5,132.14	436.18	42.48	436.76	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	38.72	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	1.68	-0.87	1.41
6,022.00	90.90	1.90	5,177.85	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	5,176.80	1,474.40	49.01	1,474.98	0.79	0.63	-0.48
6,454.00	89.90	359.90	5,177.51	1,568.38	47.20	1,568.92	0.96	0.96	0.00
6,549.00	90.80	358.70	5,178.93	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
6,736.00	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	48.89	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	1.25
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



MS Energy Services
Survey Report



Company: Tug Hill Operating, LLC
 Project: Comanche County, Kansas (NAD83)
 Site: Proctor
 Well: 1-25H
 Wellbore: Wellbore #1
 Design: Surveys

Local Co-ordinate Reference: Well 1-25H
 TVD Reference: WELL @ 2143.00usft (Patterson 421)
 MD Reference: WELL @ 2143.00usft (Patterson 421)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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	0.88	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	1.18	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	359.80	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	1.08	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
9,581.00	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



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

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
	WMM_2010	09/28/2012	(°)	(°)	(nT)
			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)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	0.88	

Survey Program	Date 10/15/2012			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	668.00	VES Gyro (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s
808.00	9,822.00	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	222.80	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	187.47	
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	7.88	
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	-13.88	
1,853.00	0.10	75.60	1,850.46	45.07	41.13	45.70	1.70	-1.67	50.94	



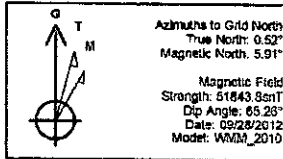
Company: Tug Hill Operating, LLC
 Site: Proctor
 Well: 1-25H
 Project: Comanche County, Kansas (NAD83)
 Rig Name: Patterson 421



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

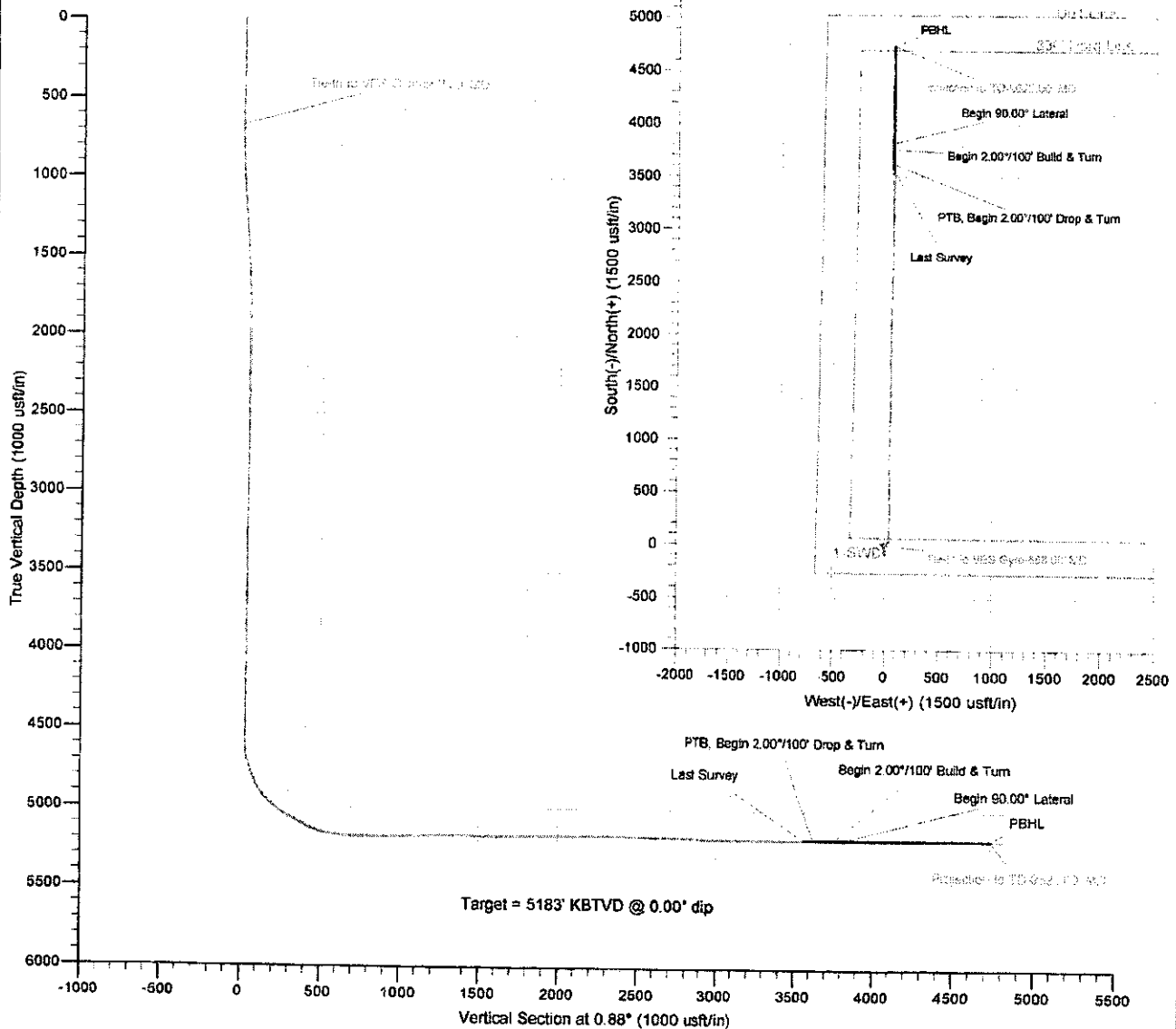
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
8448.00	91.30	359.80	5183.84	3561.91	84.52	3562.48	0.00	Last Survey
8509.00	91.30	359.80	5182.46	3622.89	84.30	3623.45	80.98	PTB, Begin 2.00"/100' Drop & Turn
8842.58	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	72.78	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



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