



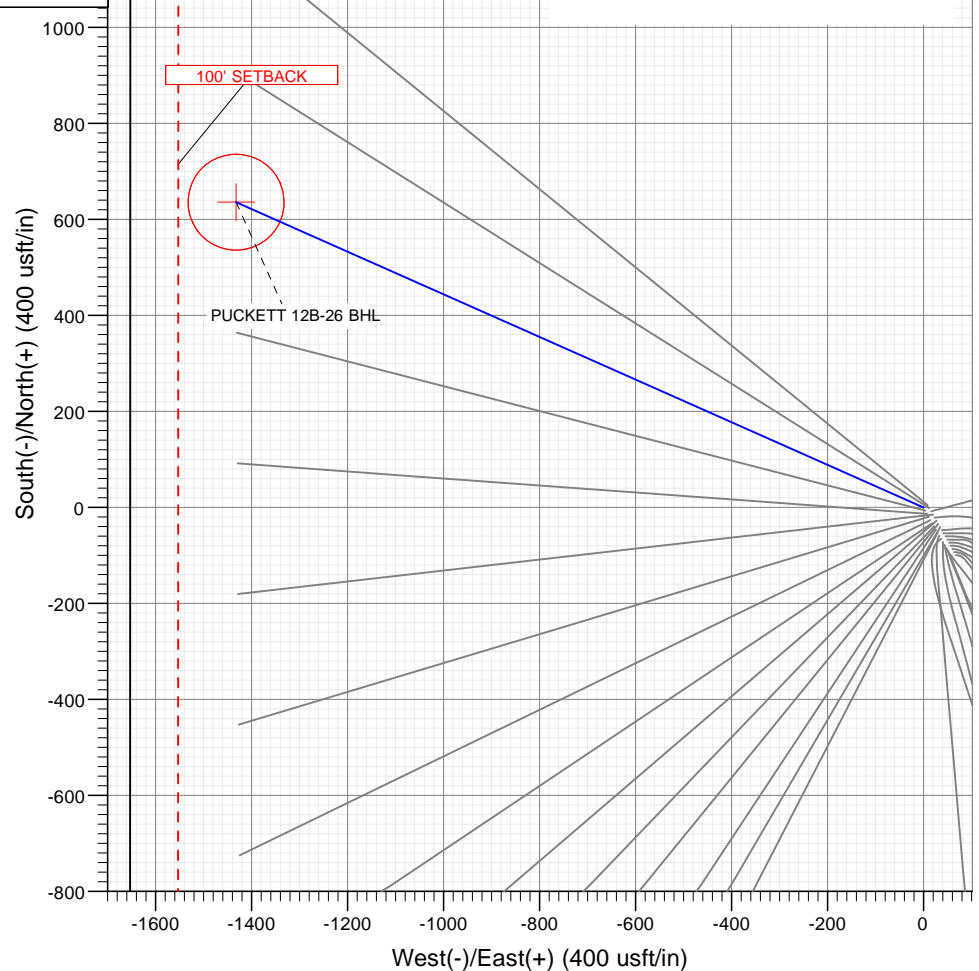
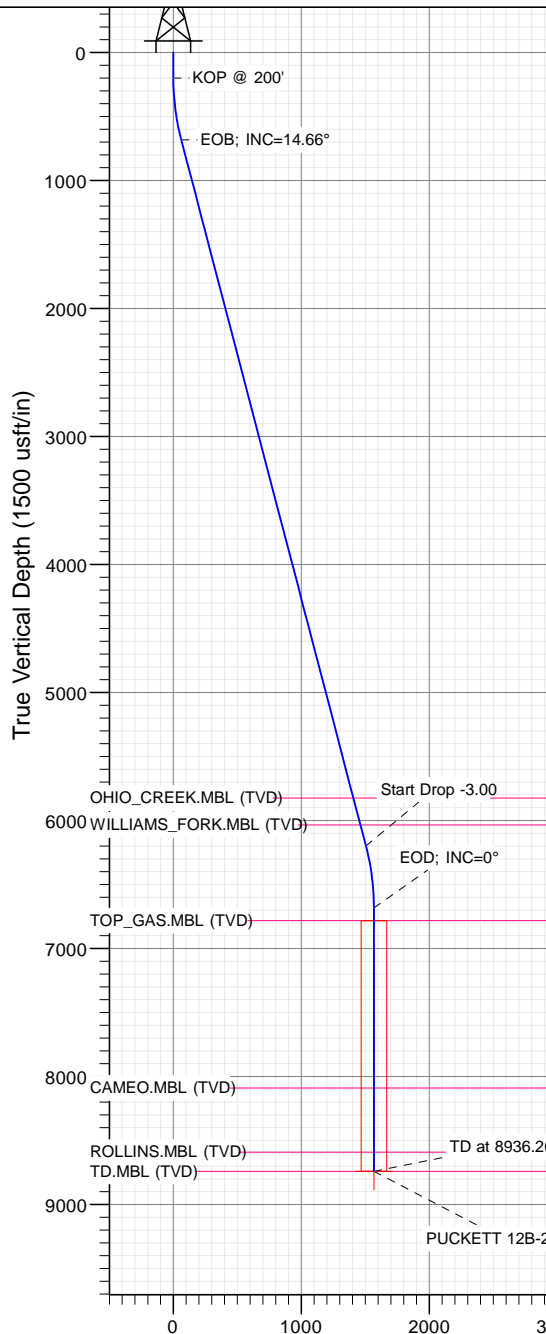
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	688.64	14.66	293.95	683.32	25.24	-56.82	3.00	293.95	62.17	
4	6389.56	14.66	293.95	6198.68	610.86	-1375.33	0.00	0.00	1504.89	
5	6878.20	0.00	0.00	6682.00	636.10	-1432.15	3.00	180.00	1567.06	
6	8936.20	0.00	0.00	8740.00	636.10	-1432.15	0.00	0.00	1567.06	PUCKETT 12B-26 BHL

PLAN #1
PUCKETT 12B-26
XXX16; LR
30' KB @ 8322.00ft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 12B-26, True North

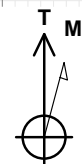
Type	Target	Asimuth	Origin	Type	N/S	E/W	From	TVD
TD	No Target (Freehand)	293.95	Spot	0.00	0.00	0.00	0.00	0.00
Name	PUCKETT 12B-26 BHL	TVD	+N/-S	+E/-W	Latitude	Longitude		
		8740.00	636.10	-1432.15	39.496831	-108.190245		

Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26)
Well: PUCKETT 12B-26
Wellbore: OH
Design: PLAN #1



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5825.00	6003.31	OHIO_CREEK.MBL (TVD)
6035.00	6220.38	WILLIAMS_FORK.MBL (TVD)
6782.00	6978.20	TOP_GAS.MBL (TVD)
8090.00	8286.20	CAMEO.MBL (TVD)
8590.00	8786.20	ROLLINS.MBL (TVD)
8740.00	8936.20	TD.MBL (TVD)



Azimuths to True North
Magnetic North: 9.78°

Magnetic Field
Strength: 51819.5nT
Dip Angle: 65.83°
Date: 9/23/2016
Model: HDGM

Vertical Section at 293.95° (1500 usft/in)

WELL DETAILS: PUCKETT 12B-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354563.90	Easting	2433138.00	39.495086	-108.190245

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12B-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 12B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site		S26-T6S-R97W (MESA F26)			
Site Position:		Northing:	14,354,512.70 usft	Latitude:	39.494943
From:	Map	Easting:	2,433,169.20 usft	Longitude:	-108.190140
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.79 °

Well	PUCKETT 12B-26					
Well Position	+N/-S	0.00 usft	Northing:	14,354,563.90 usft	Latitude:	39.495086
	+E/-W	0.00 usft	Easting:	2,433,138.00 usft	Longitude:	-108.190245
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	8,322.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	9/23/2016	9.78	65.83	51,820

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	293.95

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
688.64	14.66	293.95	683.32	25.24	-56.82	3.00	3.00	0.00	293.95	
6,389.56	14.66	293.95	6,198.68	610.86	-1,375.33	0.00	0.00	0.00	0.00	
6,878.20	0.00	0.00	6,682.00	636.10	-1,432.15	3.00	-3.00	0.00	180.00	
8,936.20	0.00	0.00	8,740.00	636.10	-1,432.15	0.00	0.00	0.00	0.00	PUCKETT 12B-26 BH

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12B-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 12B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	KOP @ 200'
300.00	3.00	293.95	299.95	1.06	-2.39	2.62	3.00	3.00	
400.00	6.00	293.95	399.63	4.25	-9.56	10.46	3.00	3.00	
500.00	9.00	293.95	498.77	9.54	-21.49	23.51	3.00	3.00	
600.00	12.00	293.95	597.08	16.94	-38.14	41.74	3.00	3.00	
688.64	14.66	293.95	683.32	25.24	-56.82	62.17	3.00	3.00	EOB; INC=14.66°
700.00	14.66	293.95	694.32	26.40	-59.44	65.04	0.00	0.00	
800.00	14.66	293.95	791.06	36.67	-82.57	90.35	0.00	0.00	
900.00	14.66	293.95	887.81	46.95	-105.70	115.66	0.00	0.00	
1,000.00	14.66	293.95	984.55	57.22	-128.83	140.96	0.00	0.00	
1,100.00	14.66	293.95	1,081.30	67.49	-151.96	166.27	0.00	0.00	
1,200.00	14.66	293.95	1,178.04	77.76	-175.09	191.58	0.00	0.00	
1,300.00	14.66	293.95	1,274.79	88.04	-198.21	216.88	0.00	0.00	
1,400.00	14.66	293.95	1,371.53	98.31	-221.34	242.19	0.00	0.00	
1,500.00	14.66	293.95	1,468.28	108.58	-244.47	267.50	0.00	0.00	
1,600.00	14.66	293.95	1,565.02	118.85	-267.60	292.81	0.00	0.00	
1,700.00	14.66	293.95	1,661.77	129.13	-290.73	318.11	0.00	0.00	
1,800.00	14.66	293.95	1,758.51	139.40	-313.85	343.42	0.00	0.00	
1,900.00	14.66	293.95	1,855.25	149.67	-336.98	368.73	0.00	0.00	
2,000.00	14.66	293.95	1,952.00	159.94	-360.11	394.03	0.00	0.00	
2,100.00	14.66	293.95	2,048.74	170.22	-383.24	419.34	0.00	0.00	
2,200.00	14.66	293.95	2,145.49	180.49	-406.37	444.65	0.00	0.00	
2,300.00	14.66	293.95	2,242.23	190.76	-429.49	469.95	0.00	0.00	
2,400.00	14.66	293.95	2,338.98	201.03	-452.62	495.26	0.00	0.00	
2,500.00	14.66	293.95	2,435.72	211.31	-475.75	520.57	0.00	0.00	
2,600.00	14.66	293.95	2,532.47	221.58	-498.88	545.87	0.00	0.00	
2,700.00	14.66	293.95	2,629.21	231.85	-522.01	571.18	0.00	0.00	
2,800.00	14.66	293.95	2,725.96	242.12	-545.14	596.49	0.00	0.00	
2,900.00	14.66	293.95	2,822.70	252.40	-568.26	621.79	0.00	0.00	
3,000.00	14.66	293.95	2,919.45	262.67	-591.39	647.10	0.00	0.00	
3,100.00	14.66	293.95	3,016.19	272.94	-614.52	672.41	0.00	0.00	
3,200.00	14.66	293.95	3,112.94	283.21	-637.65	697.71	0.00	0.00	
3,300.00	14.66	293.95	3,209.68	293.49	-660.78	723.02	0.00	0.00	
3,400.00	14.66	293.95	3,306.43	303.76	-683.90	748.33	0.00	0.00	
3,500.00	14.66	293.95	3,403.17	314.03	-707.03	773.63	0.00	0.00	
3,600.00	14.66	293.95	3,499.92	324.30	-730.16	798.94	0.00	0.00	
3,700.00	14.66	293.95	3,596.66	334.58	-753.29	824.25	0.00	0.00	
3,800.00	14.66	293.95	3,693.41	344.85	-776.42	849.55	0.00	0.00	
3,900.00	14.66	293.95	3,790.15	355.12	-799.54	874.86	0.00	0.00	
4,000.00	14.66	293.95	3,886.90	365.39	-822.67	900.17	0.00	0.00	
4,100.00	14.66	293.95	3,983.64	375.67	-845.80	925.47	0.00	0.00	
4,200.00	14.66	293.95	4,080.39	385.94	-868.93	950.78	0.00	0.00	
4,300.00	14.66	293.95	4,177.13	396.21	-892.06	976.09	0.00	0.00	
4,400.00	14.66	293.95	4,273.88	406.48	-915.18	1,001.40	0.00	0.00	
4,500.00	14.66	293.95	4,370.62	416.76	-938.31	1,026.70	0.00	0.00	
4,600.00	14.66	293.95	4,467.37	427.03	-961.44	1,052.01	0.00	0.00	
4,700.00	14.66	293.95	4,564.11	437.30	-984.57	1,077.32	0.00	0.00	
4,800.00	14.66	293.95	4,660.86	447.57	-1,007.70	1,102.62	0.00	0.00	
4,900.00	14.66	293.95	4,757.60	457.85	-1,030.83	1,127.93	0.00	0.00	
5,000.00	14.66	293.95	4,854.35	468.12	-1,053.95	1,153.24	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12B-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 12B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,100.00	14.66	293.95	4,951.09	478.39	-1,077.08	1,178.54	0.00	0.00	
5,200.00	14.66	293.95	5,047.84	488.66	-1,100.21	1,203.85	0.00	0.00	
5,300.00	14.66	293.95	5,144.58	498.93	-1,123.34	1,229.16	0.00	0.00	
5,400.00	14.66	293.95	5,241.32	509.21	-1,146.47	1,254.46	0.00	0.00	
5,500.00	14.66	293.95	5,338.07	519.48	-1,169.59	1,279.77	0.00	0.00	
5,600.00	14.66	293.95	5,434.81	529.75	-1,192.72	1,305.08	0.00	0.00	
5,700.00	14.66	293.95	5,531.56	540.02	-1,215.85	1,330.38	0.00	0.00	
5,800.00	14.66	293.95	5,628.30	550.30	-1,238.98	1,355.69	0.00	0.00	
5,900.00	14.66	293.95	5,725.05	560.57	-1,262.11	1,381.00	0.00	0.00	
6,000.00	14.66	293.95	5,821.79	570.84	-1,285.23	1,406.30	0.00	0.00	
6,003.31	14.66	293.95	5,825.00	571.18	-1,286.00	1,407.14	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,100.00	14.66	293.95	5,918.54	581.11	-1,308.36	1,431.61	0.00	0.00	
6,200.00	14.66	293.95	6,015.28	591.39	-1,331.49	1,456.92	0.00	0.00	
6,220.38	14.66	293.95	6,035.00	593.48	-1,336.20	1,462.07	0.00	0.00	WILLIAMS_FORK.MBL (TVD)
6,300.00	14.66	293.95	6,112.03	601.66	-1,354.62	1,482.22	0.00	0.00	
6,389.56	14.66	293.95	6,198.68	610.86	-1,375.33	1,504.89	0.00	0.00	Start Drop -3.00
6,400.00	14.35	293.95	6,208.78	611.92	-1,377.72	1,507.50	3.00	-3.00	
6,500.00	11.35	293.95	6,306.27	620.94	-1,398.04	1,529.73	3.00	-3.00	
6,600.00	8.35	293.95	6,404.78	627.88	-1,413.67	1,546.83	3.00	-3.00	
6,700.00	5.35	293.95	6,504.06	632.72	-1,424.56	1,558.75	3.00	-3.00	
6,800.00	2.35	293.95	6,603.82	635.45	-1,430.69	1,565.46	3.00	-3.00	
6,878.20	0.00	0.00	6,682.00	636.10	-1,432.15	1,567.06	3.00	-3.00	EOD; INC=0°
6,900.00	0.00	0.00	6,703.80	636.10	-1,432.15	1,567.06	0.00	0.00	
6,978.20	0.00	0.00	6,782.00	636.10	-1,432.15	1,567.06	0.00	0.00	TOP_GAS.MBL (TVD)
7,000.00	0.00	0.00	6,803.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,100.00	0.00	0.00	6,903.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,200.00	0.00	0.00	7,003.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,300.00	0.00	0.00	7,103.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,400.00	0.00	0.00	7,203.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,500.00	0.00	0.00	7,303.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,600.00	0.00	0.00	7,403.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,700.00	0.00	0.00	7,503.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,800.00	0.00	0.00	7,603.80	636.10	-1,432.15	1,567.06	0.00	0.00	
7,900.00	0.00	0.00	7,703.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,000.00	0.00	0.00	7,803.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,100.00	0.00	0.00	7,903.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,200.00	0.00	0.00	8,003.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,286.20	0.00	0.00	8,090.00	636.10	-1,432.15	1,567.06	0.00	0.00	CAMEO.MBL (TVD)
8,300.00	0.00	0.00	8,103.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,400.00	0.00	0.00	8,203.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,500.00	0.00	0.00	8,303.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,600.00	0.00	0.00	8,403.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,700.00	0.00	0.00	8,503.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,786.20	0.00	0.00	8,590.00	636.10	-1,432.15	1,567.06	0.00	0.00	ROLLINS.MBL (TVD)
8,800.00	0.00	0.00	8,603.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,900.00	0.00	0.00	8,703.80	636.10	-1,432.15	1,567.06	0.00	0.00	
8,936.20	0.00	0.00	8,740.00	636.10	-1,432.15	1,567.06	0.00	0.00	TD at 8936.20 - TD.MBL (TVD)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 12B-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 12B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PUCKETT 12B-26 BHL	0.00	0.00	8,740.00	636.10	-1,432.15	14,355,155.00	2,431,686.70	39.496831	-108.195318
- plan hits target center									
- Circle (radius 100.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,003.31	5,825.00	OHIO_CREEK.MBL (TVD)				
6,220.38	6,035.00	WILLIAMS_FORK.MBL (TVD)				
6,978.20	6,782.00	TOP_GAS.MBL (TVD)				
8,286.20	8,090.00	CAMEO.MBL (TVD)				
8,786.20	8,590.00	ROLLINS.MBL (TVD)				
8,936.20	8,740.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
200.00	200.00	0.00	0.00	KOP @ 200'	
688.64	683.32	25.24	-56.82	EOB; INC=14.66°	
6,389.56	6,198.68	610.86	-1,375.33	Start Drop -3.00	
6,878.20	6,682.00	636.10	-1,432.15	EOD; INC=0°	
8,936.20	8,740.00	636.10	-1,432.15	TD at 8936.20	