



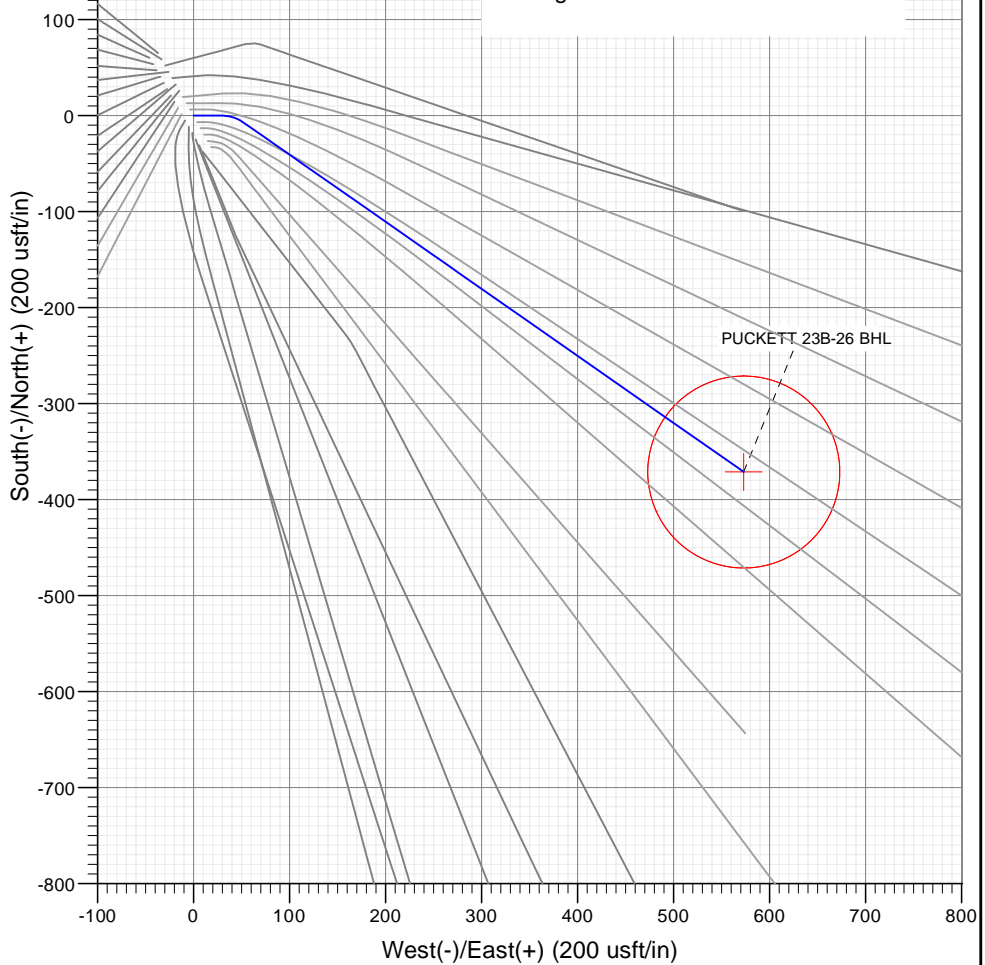
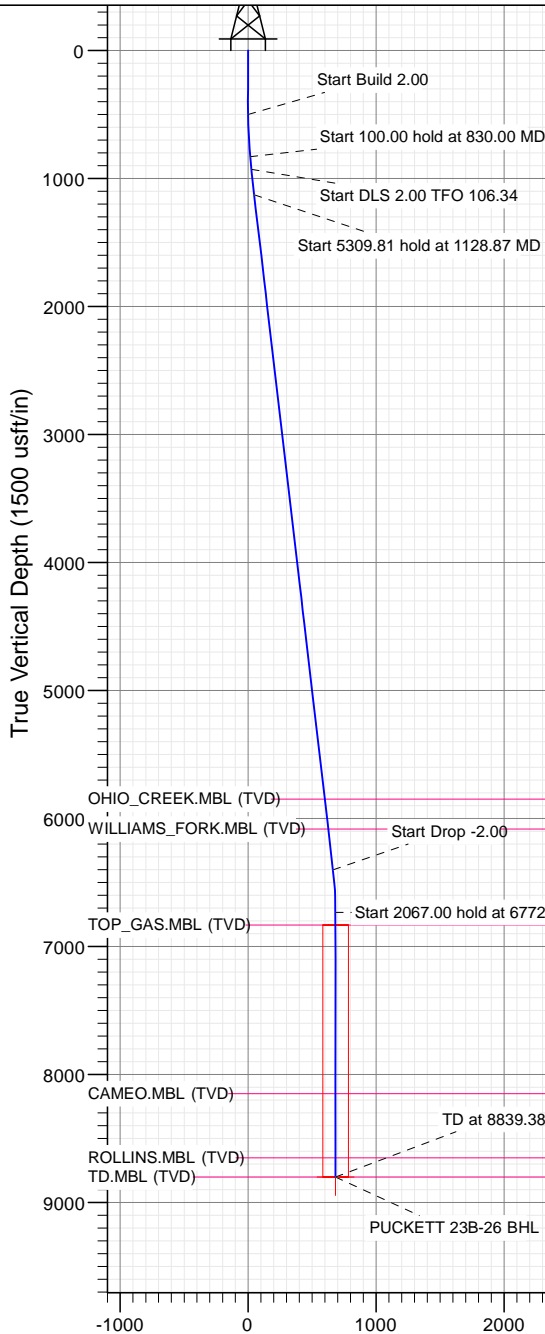
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
3	830.00	6.60	90.00	829.27	0.00	18.99	2.00	90.00	15.94	
4	930.00	6.60	90.00	928.61	0.00	30.48	0.00	0.00	25.58	
5	1128.87	6.67	124.94	1126.22	-6.62	51.39	2.00	106.34	46.74	
6	6438.68	6.67	124.94	6400.05	-360.05	557.28	0.00	0.00	663.47	
7	6772.38	0.00	0.00	6733.00	-371.17	573.20	2.00	180.00	682.88	
8	8839.38	0.00	0.00	8800.00	-371.17	573.20	0.00	0.00	682.88	PUCKETT 23B-26 BHL

PLAN #2
PUCKETT 23B-26
XXX16; LR
30' KB @ 8322.00ft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 23B-26, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	122.92	Spot	0.00	0.00	0.00
Name		TVD	+N/-S	+E/-W	Latitude	Longitude
PUCKETT 23B-26 BHL		8800.00	-371.17	573.20	39.493902	-108.186053

Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26)
Well: PUCKETT 23B-26
Wellbore: OH
Design: PLAN #2



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5848.00	5882.86	OHIO_CREEK.MBL (TVD)
6083.00	6119.47	WILLIAMS_FORK.MBL (TVD)
6833.00	6872.38	TOP_GAS.MBL (TVD)
8150.00	8189.38	CAMEO.MBL (TVD)
8650.00	8689.38	ROLLINS.MBL (TVD)
8800.00	8839.38	TD.MBL (TVD)



Azimuths to True North
Magnetic North: 9.80°

Magnetic Field
Strength: 51817.0snT
Dip Angle: 65.82°
Date: 9/23/2016
Model: HDGM

Vertical Section at 122.92° (1500 usft/in)

WELL DETAILS: PUCKETT 23B-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354505.10	Easting	2433185.50	39.494920	-108.190083

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 23B-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 23B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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 23B-26					
Well Position	+N/-S	0.00 usft	Northing:	14,354,505.10 usft	Latitude:	39.494920
	+E/-W	0.00 usft	Easting:	2,433,185.50 usft	Longitude:	-108.190083
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	9.80	65.82	51,817.00000000

Design	PLAN #2			
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	122.92

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
830.00	6.60	90.00	829.27	0.00	18.99	2.00	2.00	0.00	90.00	
930.00	6.60	90.00	928.61	0.00	30.48	0.00	0.00	0.00	0.00	
1,128.87	6.67	124.94	1,126.22	-6.62	51.39	2.00	0.04	17.57	106.34	
6,438.68	6.67	124.94	6,400.05	-360.05	557.28	0.00	0.00	0.00	0.00	
6,772.38	0.00	0.00	6,733.00	-371.17	573.20	2.00	-2.00	0.00	180.00	
8,839.38	0.00	0.00	8,800.00	-371.17	573.20	0.00	0.00	0.00	0.00	PUCKETT 23B-26 BH

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 23B-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 23B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
600.00	2.00	90.00	599.98	0.00	1.75	1.46	2.00	2.00	
700.00	4.00	90.00	699.84	0.00	6.98	5.86	2.00	2.00	
800.00	6.00	90.00	799.45	0.00	15.69	13.17	2.00	2.00	
830.00	6.60	90.00	829.27	0.00	18.99	15.94	2.00	2.00	Start 100.00 hold at 830.00 MD
900.00	6.60	90.00	898.81	0.00	27.03	22.69	0.00	0.00	
930.00	6.60	90.00	928.61	0.00	30.48	25.58	0.00	0.00	Start DLS 2.00 TFO 106.34
1,000.00	6.35	102.24	998.16	-0.82	38.29	32.58	2.00	-0.36	
1,100.00	6.52	120.10	1,097.55	-4.84	48.60	43.42	2.00	0.17	
1,128.87	6.67	124.94	1,126.22	-6.62	51.39	46.74	2.00	0.55	Start 5309.81 hold at 1128.87 MD
1,200.00	6.67	124.94	1,196.87	-11.36	58.17	55.00	0.00	0.00	
1,300.00	6.67	124.94	1,296.19	-18.01	67.69	66.61	0.00	0.00	
1,400.00	6.67	124.94	1,395.52	-24.67	77.22	78.23	0.00	0.00	
1,500.00	6.67	124.94	1,494.84	-31.32	86.75	89.84	0.00	0.00	
1,600.00	6.67	124.94	1,594.16	-37.98	96.28	101.46	0.00	0.00	
1,700.00	6.67	124.94	1,693.48	-44.64	105.80	113.07	0.00	0.00	
1,800.00	6.67	124.94	1,792.81	-51.29	115.33	124.69	0.00	0.00	
1,900.00	6.67	124.94	1,892.13	-57.95	124.86	136.30	0.00	0.00	
2,000.00	6.67	124.94	1,991.45	-64.60	134.39	147.92	0.00	0.00	
2,100.00	6.67	124.94	2,090.77	-71.26	143.91	159.53	0.00	0.00	
2,200.00	6.67	124.94	2,190.10	-77.92	153.44	171.15	0.00	0.00	
2,300.00	6.67	124.94	2,289.42	-84.57	162.97	182.76	0.00	0.00	
2,400.00	6.67	124.94	2,388.74	-91.23	172.50	194.38	0.00	0.00	
2,500.00	6.67	124.94	2,488.06	-97.89	182.02	205.99	0.00	0.00	
2,600.00	6.67	124.94	2,587.38	-104.54	191.55	217.61	0.00	0.00	
2,700.00	6.67	124.94	2,686.71	-111.20	201.08	229.22	0.00	0.00	
2,800.00	6.67	124.94	2,786.03	-117.85	210.61	240.84	0.00	0.00	
2,900.00	6.67	124.94	2,885.35	-124.51	220.13	252.45	0.00	0.00	
3,000.00	6.67	124.94	2,984.67	-131.17	229.66	264.07	0.00	0.00	
3,100.00	6.67	124.94	3,084.00	-137.82	239.19	275.68	0.00	0.00	
3,200.00	6.67	124.94	3,183.32	-144.48	248.72	287.30	0.00	0.00	
3,300.00	6.67	124.94	3,282.64	-151.13	258.24	298.91	0.00	0.00	
3,400.00	6.67	124.94	3,381.96	-157.79	267.77	310.53	0.00	0.00	
3,500.00	6.67	124.94	3,481.29	-164.45	277.30	322.14	0.00	0.00	
3,600.00	6.67	124.94	3,580.61	-171.10	286.83	333.76	0.00	0.00	
3,700.00	6.67	124.94	3,679.93	-177.76	296.35	345.37	0.00	0.00	
3,800.00	6.67	124.94	3,779.25	-184.41	305.88	356.99	0.00	0.00	
3,900.00	6.67	124.94	3,878.58	-191.07	315.41	368.60	0.00	0.00	
4,000.00	6.67	124.94	3,977.90	-197.73	324.94	380.22	0.00	0.00	
4,100.00	6.67	124.94	4,077.22	-204.38	334.46	391.83	0.00	0.00	
4,200.00	6.67	124.94	4,176.54	-211.04	343.99	403.45	0.00	0.00	
4,300.00	6.67	124.94	4,275.86	-217.70	353.52	415.06	0.00	0.00	
4,400.00	6.67	124.94	4,375.19	-224.35	363.05	426.68	0.00	0.00	
4,500.00	6.67	124.94	4,474.51	-231.01	372.57	438.30	0.00	0.00	
4,600.00	6.67	124.94	4,573.83	-237.66	382.10	449.91	0.00	0.00	
4,700.00	6.67	124.94	4,673.15	-244.32	391.63	461.53	0.00	0.00	
4,800.00	6.67	124.94	4,772.48	-250.98	401.16	473.14	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 23B-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 23B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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
4,900.00	6.67	124.94	4,871.80	-257.63	410.69	484.76	0.00	0.00	
5,000.00	6.67	124.94	4,971.12	-264.29	420.21	496.37	0.00	0.00	
5,100.00	6.67	124.94	5,070.44	-270.94	429.74	507.99	0.00	0.00	
5,200.00	6.67	124.94	5,169.77	-277.60	439.27	519.60	0.00	0.00	
5,300.00	6.67	124.94	5,269.09	-284.26	448.80	531.22	0.00	0.00	
5,400.00	6.67	124.94	5,368.41	-290.91	458.32	542.83	0.00	0.00	
5,500.00	6.67	124.94	5,467.73	-297.57	467.85	554.45	0.00	0.00	
5,600.00	6.67	124.94	5,567.05	-304.22	477.38	566.06	0.00	0.00	
5,700.00	6.67	124.94	5,666.38	-310.88	486.91	577.68	0.00	0.00	
5,800.00	6.67	124.94	5,765.70	-317.54	496.43	589.29	0.00	0.00	
5,882.86	6.67	124.94	5,848.00	-323.05	504.33	598.92	0.00	0.00	OHIO_CREEK.MBL (TVD)
5,900.00	6.67	124.94	5,865.02	-324.19	505.96	600.91	0.00	0.00	
6,000.00	6.67	124.94	5,964.34	-330.85	515.49	612.52	0.00	0.00	
6,100.00	6.67	124.94	6,063.67	-337.51	525.02	624.14	0.00	0.00	
6,119.47	6.67	124.94	6,083.00	-338.80	526.87	626.40	0.00	0.00	WILLIAMS_FORK.MBL (TVD)
6,200.00	6.67	124.94	6,162.99	-344.16	534.54	635.75	0.00	0.00	
6,300.00	6.67	124.94	6,262.31	-350.82	544.07	647.37	0.00	0.00	
6,400.00	6.67	124.94	6,361.63	-357.47	553.60	658.98	0.00	0.00	
6,438.68	6.67	124.94	6,400.05	-360.05	557.28	663.47	0.00	0.00	Start Drop -2.00
6,500.00	5.45	124.94	6,461.03	-363.76	562.59	669.94	2.00	-2.00	
6,600.00	3.45	124.94	6,560.72	-368.20	568.95	677.69	2.00	-2.00	
6,700.00	1.45	124.94	6,660.62	-370.64	572.45	681.96	2.00	-2.00	
6,772.38	0.00	0.00	6,733.00	-371.17	573.20	682.88	2.00	-2.00	Start 2067.00 hold at 6772.38 MD
6,800.00	0.00	0.00	6,760.62	-371.17	573.20	682.88	0.00	0.00	
6,872.38	0.00	0.00	6,833.00	-371.17	573.20	682.88	0.00	0.00	TOP_GAS.MBL (TVD)
6,900.00	0.00	0.00	6,860.62	-371.17	573.20	682.88	0.00	0.00	
7,000.00	0.00	0.00	6,960.62	-371.17	573.20	682.88	0.00	0.00	
7,100.00	0.00	0.00	7,060.62	-371.17	573.20	682.88	0.00	0.00	
7,200.00	0.00	0.00	7,160.62	-371.17	573.20	682.88	0.00	0.00	
7,300.00	0.00	0.00	7,260.62	-371.17	573.20	682.88	0.00	0.00	
7,400.00	0.00	0.00	7,360.62	-371.17	573.20	682.88	0.00	0.00	
7,500.00	0.00	0.00	7,460.62	-371.17	573.20	682.88	0.00	0.00	
7,600.00	0.00	0.00	7,560.62	-371.17	573.20	682.88	0.00	0.00	
7,700.00	0.00	0.00	7,660.62	-371.17	573.20	682.88	0.00	0.00	
7,800.00	0.00	0.00	7,760.62	-371.17	573.20	682.88	0.00	0.00	
7,900.00	0.00	0.00	7,860.62	-371.17	573.20	682.88	0.00	0.00	
8,000.00	0.00	0.00	7,960.62	-371.17	573.20	682.88	0.00	0.00	
8,100.00	0.00	0.00	8,060.62	-371.17	573.20	682.88	0.00	0.00	
8,189.38	0.00	0.00	8,150.00	-371.17	573.20	682.88	0.00	0.00	CAMEO.MBL (TVD)
8,200.00	0.00	0.00	8,160.62	-371.17	573.20	682.88	0.00	0.00	
8,300.00	0.00	0.00	8,260.62	-371.17	573.20	682.88	0.00	0.00	
8,400.00	0.00	0.00	8,360.62	-371.17	573.20	682.88	0.00	0.00	
8,500.00	0.00	0.00	8,460.62	-371.17	573.20	682.88	0.00	0.00	
8,600.00	0.00	0.00	8,560.62	-371.17	573.20	682.88	0.00	0.00	
8,689.38	0.00	0.00	8,650.00	-371.17	573.20	682.88	0.00	0.00	ROLLINS.MBL (TVD)
8,700.00	0.00	0.00	8,660.62	-371.17	573.20	682.88	0.00	0.00	
8,800.00	0.00	0.00	8,760.62	-371.17	573.20	682.88	0.00	0.00	
8,839.38	0.00	0.00	8,800.00	-371.17	573.20	682.88	0.00	0.00	TD at 8839.38 - TD.MBL (TVD)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 23B-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 23B-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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 23B-26 BHL	0.00	0.00	8,800.00	-371.17	573.20	14,354,152.00	2,433,770.00	39.493902	-108.188053
- plan hits target center									
- Circle (radius 100.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
5,882.86	5,848.00	OHIO_CREEK.MBL (TVD)				
6,119.47	6,083.00	WILLIAMS_FORK.MBL (TVD)				
6,872.38	6,833.00	TOP_GAS.MBL (TVD)				
8,189.38	8,150.00	CAMEO.MBL (TVD)				
8,689.38	8,650.00	ROLLINS.MBL (TVD)				
8,839.38	8,800.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
500.00	500.00	0.00	0.00	Start Build 2.00	
830.00	829.27	0.00	18.99	Start 100.00 hold at 830.00 MD	
930.00	928.61	0.00	30.48	Start DLS 2.00 TFO 106.34	
1,128.87	1,126.22	-6.62	51.39	Start 5309.81 hold at 1128.87 MD	
6,438.68	6,400.05	-360.05	557.28	Start Drop -2.00	
6,772.38	6,733.00	-371.17	573.20	Start 2067.00 hold at 6772.38 MD	
8,839.38	8,800.00	-371.17	573.20	TD at 8839.38	