

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Overlook 1-30 PAD

Overlook 7-30

Overlook 7-30

Plan: Overlook 7-30 (wp01)

Standard Planning Report

10 August, 2011

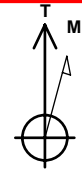


Weatherford®

Project: COLORADO NORTHERN ZONE - 83
 Site: WELD_Overlook 1-30 PAD
 Well: Overlook 7-30
 Wellbore: Overlook 7-30
 Section:
 SHL:
 Design: Overlook 7-30 (wp01)
 Latitude: 40.114805
 Longitude: -104.926098
 GL: 5010.00
 KB: 15' rkb + 5010' gl @ 5025.00ft

FORMATION TOPDETAILS

TVDPath	MDPath	Formation
4160.00	4361.20	PK Depth
4553.00	4778.90	SX Depth
7318.00	7655.65	NIO Depth
7624.00	7961.65	CD Depth
7710.00	8047.65	GH Depth



Azimuths to True North
 Magnetic North: 8.91°
 Magnetic Field
 Strength: 52953.5snT
 Dip Angle: 66.79°
 Date: 7/15/2011
 Model: IGRF2010

WELL DETAILS: Overlook7-30

+N/-S	+E/-W	Northing	Ground Level: Easting	5010.00 Latitude	Longitude	Slot
0.00	0.00	1285186.95	3160508.92	40.114805	-104.926098	

CASING DETAILS

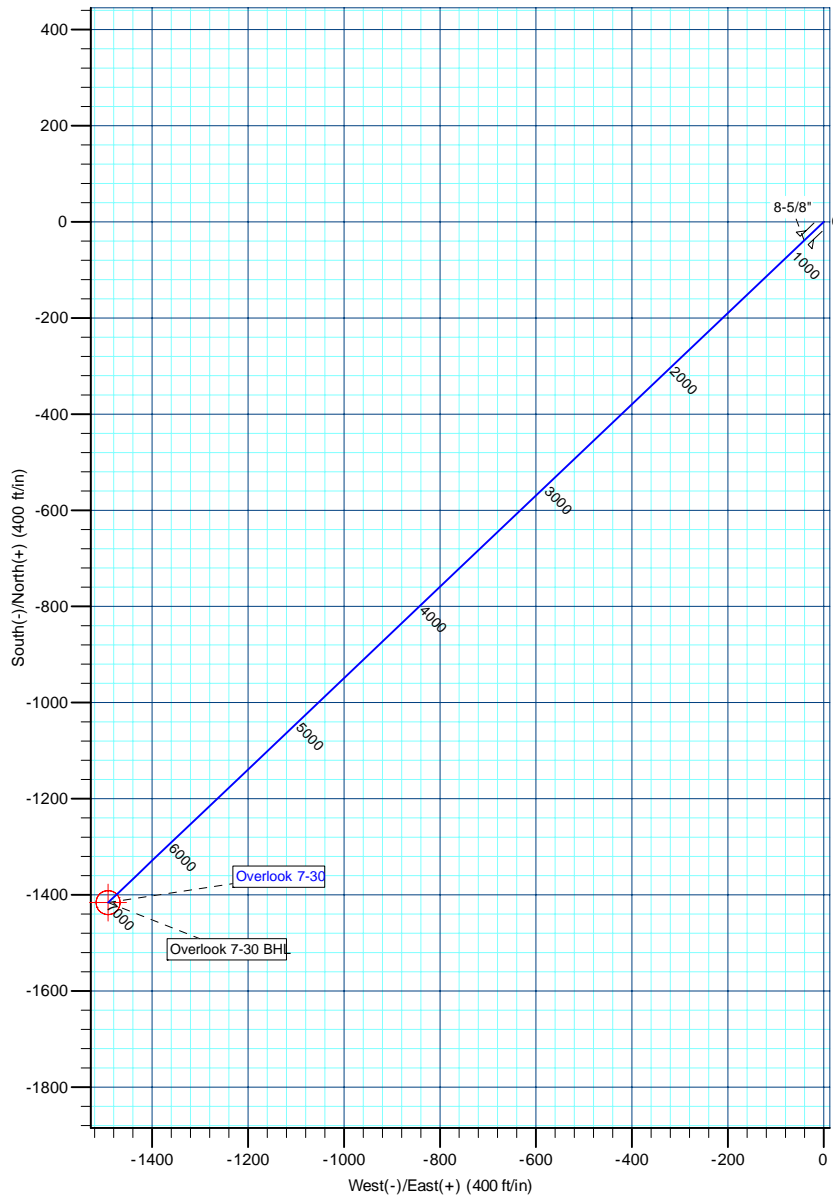
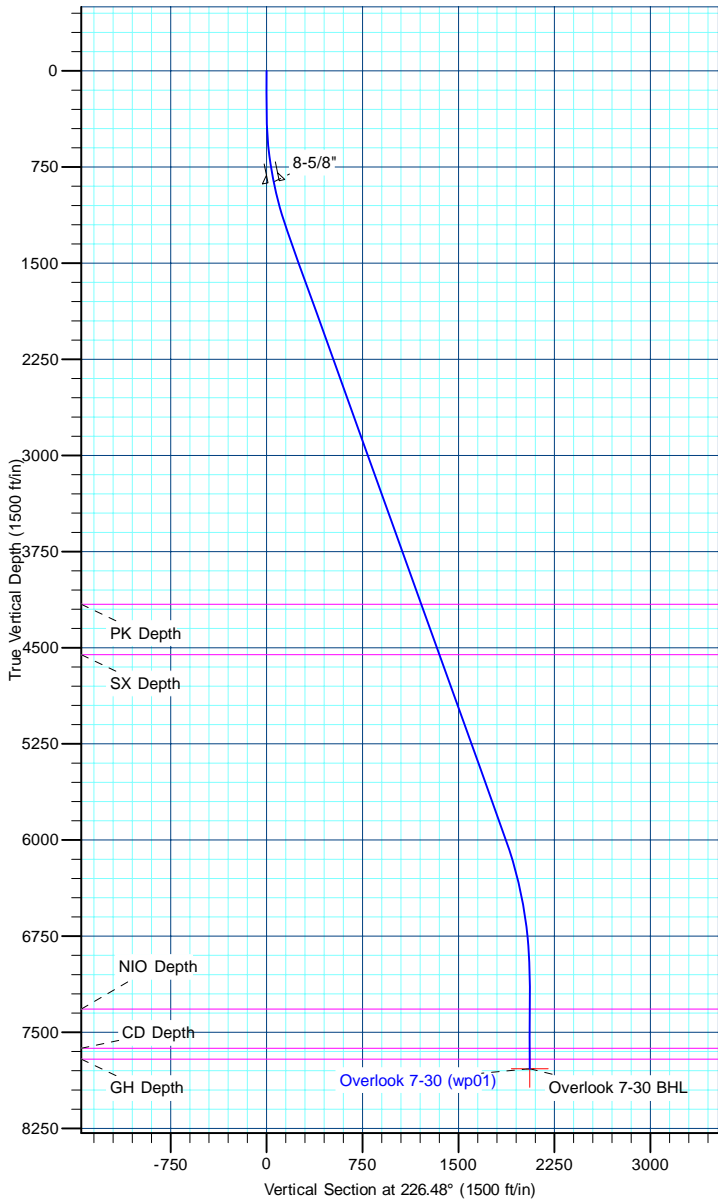
TVD	MD	Name	Size
865.00	868.73	8-5/8"	8-5/8

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Overlook 7-30 BHL	7784.00	-1416.26	-1491.63	1283761.07	3159026.49	40.110917	-104.931431	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	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
1290.12	19.80	226.48	1270.52	-116.64	-122.85	2.00	226.48	169.40
6290.09	19.80	226.48	5974.83	-1282.95	-1351.23	0.00	0.00	1863.27
7421.65	0.00	0.00	7084.00	-1416.26	-1491.63	1.75	180.00	2056.88
8121.65	0.00	0.00	7784.00	-1416.26	-1491.63	0.00	0.00	2056.88



Database:	edm5000p	Local Co-ordinate Reference:	Well Overlook 7-30
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' rkb + 5010' gl @ 5025.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' rkb + 5010' gl @ 5025.00ft
Site:	WELD_Overlook 1-30 PAD	North Reference:	True
Well:	Overlook 7-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 7-30		
Design:	Overlook 7-30 (wp01)		

Project	COLORADO NORTHERN ZONE - 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	WELD_Overlook 1-30 PAD				
Site Position:	Northing:	1,285,224.36 ft	Latitude:	40.114908	
From: Lat/Long	Easting:	3,160,489.94 ft	Longitude:	-104.926165	
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	0.37 °

Well	Overlook 7-30					
Well Position	+N/-S	-37.53 ft	Northing:	1,285,186.95 ft	Latitude:	40.114805
	+E/-W	18.74 ft	Easting:	3,160,508.92 ft	Longitude:	-104.926098
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,010.00 ft

Wellbore	Overlook 7-30				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/15/2011	8.91	66.79	52,953

Design	Overlook 7-30 (wp01)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	226.48

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	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	0.00	
1,290.12	19.80	226.48	1,270.52	-116.64	-122.85	2.00	2.00	0.00	226.48	
6,290.09	19.80	226.48	5,974.83	-1,282.95	-1,351.23	0.00	0.00	0.00	0.00	
7,421.65	0.00	0.00	7,084.00	-1,416.26	-1,491.63	1.75	-1.75	0.00	180.00	
8,121.65	0.00	0.00	7,784.00	-1,416.26	-1,491.63	0.00	0.00	0.00	0.00	Overlook 7-30 BHL

Database:	edm5000p	Local Co-ordinate Reference:	Well Overlook 7-30
Company:	US ROCKIES REGION PLANNING	TVD Reference:	15' rkb + 5010' gl @ 5025.00ft
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' rkb + 5010' gl @ 5025.00ft
Site:	WELD_Overlook 1-30 PAD	North Reference:	True
Well:	Overlook 7-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 7-30		
Design:	Overlook 7-30 (wp01)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	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	0.00	
200.00	0.00	0.00	200.00	0.00	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	0.00	
400.00	2.00	226.48	399.98	-1.20	-1.27	1.75	2.00	2.00	0.00	
500.00	4.00	226.48	499.84	-4.81	-5.06	6.98	2.00	2.00	0.00	
600.00	6.00	226.48	599.45	-10.81	-11.38	15.69	2.00	2.00	0.00	
700.00	8.00	226.48	698.70	-19.20	-20.22	27.88	2.00	2.00	0.00	
800.00	10.00	226.48	797.47	-29.97	-31.56	43.52	2.00	2.00	0.00	
868.73	11.37	226.48	865.00	-38.74	-40.80	56.27	2.00	2.00	0.00	
8-5/8"										
900.00	12.00	226.48	895.62	-43.10	-45.40	62.60	2.00	2.00	0.00	
1,000.00	14.00	226.48	993.06	-58.59	-61.71	85.10	2.00	2.00	0.00	
1,100.00	16.00	226.48	1,089.64	-76.41	-80.48	110.98	2.00	2.00	0.00	
1,200.00	18.00	226.48	1,185.27	-96.54	-101.68	140.21	2.00	2.00	0.00	
1,290.12	19.80	226.48	1,270.52	-116.64	-122.85	169.40	2.00	2.00	0.00	
1,300.00	19.80	226.48	1,279.82	-118.95	-125.28	172.75	0.00	0.00	0.00	
1,400.00	19.80	226.48	1,373.91	-142.27	-149.85	206.63	0.00	0.00	0.00	
1,500.00	19.80	226.48	1,467.99	-165.60	-174.41	240.51	0.00	0.00	0.00	
1,600.00	19.80	226.48	1,562.08	-188.93	-198.98	274.38	0.00	0.00	0.00	
1,700.00	19.80	226.48	1,656.17	-212.25	-223.55	308.26	0.00	0.00	0.00	
1,800.00	19.80	226.48	1,750.25	-235.58	-248.12	342.14	0.00	0.00	0.00	
1,900.00	19.80	226.48	1,844.34	-258.91	-272.68	376.02	0.00	0.00	0.00	
2,000.00	19.80	226.48	1,938.43	-282.23	-297.25	409.89	0.00	0.00	0.00	
2,100.00	19.80	226.48	2,032.52	-305.56	-321.82	443.77	0.00	0.00	0.00	
2,200.00	19.80	226.48	2,126.60	-328.88	-346.39	477.65	0.00	0.00	0.00	
2,300.00	19.80	226.48	2,220.69	-352.21	-370.96	511.53	0.00	0.00	0.00	
2,400.00	19.80	226.48	2,314.78	-375.54	-395.52	545.41	0.00	0.00	0.00	
2,500.00	19.80	226.48	2,408.86	-398.86	-420.09	579.28	0.00	0.00	0.00	
2,600.00	19.80	226.48	2,502.95	-422.19	-444.66	613.16	0.00	0.00	0.00	
2,700.00	19.80	226.48	2,597.04	-445.52	-469.23	647.04	0.00	0.00	0.00	
2,800.00	19.80	226.48	2,691.12	-468.84	-493.79	680.92	0.00	0.00	0.00	
2,900.00	19.80	226.48	2,785.21	-492.17	-518.36	714.79	0.00	0.00	0.00	
3,000.00	19.80	226.48	2,879.30	-515.50	-542.93	748.67	0.00	0.00	0.00	
3,100.00	19.80	226.48	2,973.38	-538.82	-567.50	782.55	0.00	0.00	0.00	
3,200.00	19.80	226.48	3,067.47	-562.15	-592.06	816.43	0.00	0.00	0.00	
3,300.00	19.80	226.48	3,161.56	-585.47	-616.63	850.30	0.00	0.00	0.00	
3,400.00	19.80	226.48	3,255.64	-608.80	-641.20	884.18	0.00	0.00	0.00	
3,500.00	19.80	226.48	3,349.73	-632.13	-665.77	918.06	0.00	0.00	0.00	
3,600.00	19.80	226.48	3,443.82	-655.45	-690.34	951.94	0.00	0.00	0.00	
3,700.00	19.80	226.48	3,537.90	-678.78	-714.90	985.81	0.00	0.00	0.00	
3,800.00	19.80	226.48	3,631.99	-702.11	-739.47	1,019.69	0.00	0.00	0.00	
3,900.00	19.80	226.48	3,726.08	-725.43	-764.04	1,053.57	0.00	0.00	0.00	
4,000.00	19.80	226.48	3,820.16	-748.76	-788.61	1,087.45	0.00	0.00	0.00	
4,100.00	19.80	226.48	3,914.25	-772.08	-813.17	1,121.32	0.00	0.00	0.00	
4,200.00	19.80	226.48	4,008.34	-795.41	-837.74	1,155.20	0.00	0.00	0.00	
4,300.00	19.80	226.48	4,102.42	-818.74	-862.31	1,189.08	0.00	0.00	0.00	
4,361.20	19.80	226.48	4,160.00	-833.01	-877.34	1,209.81	0.00	0.00	0.00	
PK Depth										
4,400.00	19.80	226.48	4,196.51	-842.06	-886.88	1,222.96	0.00	0.00	0.00	
4,500.00	19.80	226.48	4,290.60	-865.39	-911.45	1,256.83	0.00	0.00	0.00	
4,600.00	19.80	226.48	4,384.68	-888.72	-936.01	1,290.71	0.00	0.00	0.00	
4,700.00	19.80	226.48	4,478.77	-912.04	-960.58	1,324.59	0.00	0.00	0.00	
4,778.90	19.80	226.48	4,553.00	-930.45	-979.96	1,351.32	0.00	0.00	0.00	

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' rkb + 5010' gl @ 5025.00ft
Site:	WELD_Overlook 1-30 PAD	North Reference:	True
Well:	Overlook 7-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 7-30		
Design:	Overlook 7-30 (wp01)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
SX Depth									
4,800.00	19.80	226.48	4,572.86	-935.37	-985.15	1,358.47	0.00	0.00	0.00
4,900.00	19.80	226.48	4,666.94	-958.70	-1,009.72	1,392.34	0.00	0.00	0.00
5,000.00	19.80	226.48	4,761.03	-982.02	-1,034.28	1,426.22	0.00	0.00	0.00
5,100.00	19.80	226.48	4,855.12	-1,005.35	-1,058.85	1,460.10	0.00	0.00	0.00
5,200.00	19.80	226.48	4,949.20	-1,028.67	-1,083.42	1,493.98	0.00	0.00	0.00
5,300.00	19.80	226.48	5,043.29	-1,052.00	-1,107.99	1,527.85	0.00	0.00	0.00
5,400.00	19.80	226.48	5,137.38	-1,075.33	-1,132.55	1,561.73	0.00	0.00	0.00
5,500.00	19.80	226.48	5,231.46	-1,098.65	-1,157.12	1,595.61	0.00	0.00	0.00
5,600.00	19.80	226.48	5,325.55	-1,121.98	-1,181.69	1,629.49	0.00	0.00	0.00
5,700.00	19.80	226.48	5,419.64	-1,145.31	-1,206.26	1,663.37	0.00	0.00	0.00
5,800.00	19.80	226.48	5,513.72	-1,168.63	-1,230.83	1,697.24	0.00	0.00	0.00
5,900.00	19.80	226.48	5,607.81	-1,191.96	-1,255.39	1,731.12	0.00	0.00	0.00
6,000.00	19.80	226.48	5,701.90	-1,215.29	-1,279.96	1,765.00	0.00	0.00	0.00
6,100.00	19.80	226.48	5,795.98	-1,238.61	-1,304.53	1,798.88	0.00	0.00	0.00
6,200.00	19.80	226.48	5,890.07	-1,261.94	-1,329.10	1,832.75	0.00	0.00	0.00
6,290.09	19.80	226.48	5,974.83	-1,282.95	-1,351.23	1,863.27	0.00	0.00	0.00
6,300.00	19.63	226.48	5,984.16	-1,285.25	-1,353.65	1,866.62	1.75	-1.75	0.00
6,400.00	17.88	226.48	6,078.85	-1,307.39	-1,376.97	1,898.77	1.75	-1.75	0.00
6,500.00	16.13	226.48	6,174.47	-1,327.53	-1,398.17	1,928.01	1.75	-1.75	0.00
6,600.00	14.38	226.48	6,270.95	-1,345.64	-1,417.25	1,954.32	1.75	-1.75	0.00
6,700.00	12.63	226.48	6,368.18	-1,361.72	-1,434.19	1,977.67	1.75	-1.75	0.00
6,800.00	10.88	226.48	6,466.08	-1,375.74	-1,448.96	1,998.04	1.75	-1.75	0.00
6,900.00	9.13	226.48	6,564.55	-1,387.70	-1,461.56	2,015.41	1.75	-1.75	0.00
7,000.00	7.38	226.48	6,663.51	-1,397.59	-1,471.97	2,029.76	1.75	-1.75	0.00
7,100.00	5.63	226.48	6,762.87	-1,405.39	-1,480.18	2,041.09	1.75	-1.75	0.00
7,200.00	3.88	226.48	6,862.52	-1,411.09	-1,486.19	2,049.38	1.75	-1.75	0.00
7,300.00	2.13	226.48	6,962.38	-1,414.70	-1,489.99	2,054.62	1.75	-1.75	0.00
7,400.00	0.38	226.48	7,062.35	-1,416.21	-1,491.58	2,056.81	1.75	-1.75	0.00
7,421.65	0.00	0.00	7,084.00	-1,416.26	-1,491.63	2,056.88	1.75	-1.75	0.00
7,500.00	0.00	0.00	7,162.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
7,600.00	0.00	0.00	7,262.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
7,655.65	0.00	0.00	7,318.00	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
NIO Depth									
7,700.00	0.00	0.00	7,362.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
7,800.00	0.00	0.00	7,462.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
7,900.00	0.00	0.00	7,562.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
7,961.65	0.00	0.00	7,624.00	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
CD Depth									
8,000.00	0.00	0.00	7,662.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
8,047.65	0.00	0.00	7,710.00	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
GH Depth									
8,100.00	0.00	0.00	7,762.35	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
8,121.65	0.00	0.00	7,784.00	-1,416.26	-1,491.63	2,056.88	0.00	0.00	0.00
Overlook 7-30 BHL									

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	15' rkb + 5010' gl @ 5025.00ft
Site:	WELD_Overlook 1-30 PAD	North Reference:	True
Well:	Overlook 7-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 7-30		
Design:	Overlook 7-30 (wp01)		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Overlook 7-30 BHL	0.00	0.00	7,784.00	-1,416.26	-1,491.63	1,283,761.07	3,159,026.49	40.110917	-104.931431
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(ft)	(ft)		(")	(")	
868.73	865.00	8-5/8"	8-5/8	11	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
4,361.20	4,160.00	PK Depth		0.00		
4,778.90	4,553.00	SX Depth				
7,655.65	7,318.00	NIO Depth				
7,961.65	7,624.00	CD Depth				
8,047.65	7,710.00	GH Depth				