

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

WELD_Overlook 1-30 PAD

Overlook 2-30

Overlook 2-30

Plan: Overlook 2-30 (wp01)

Standard Planning Report


15 July, 2011




Weatherford®

Project: COLORADO NORTHERN ZONE - 83
Site: WELD_Overlook 1-30 PAD
Well: Overlook 2-30
Wellbore: Overlook 2-30
Section:
SHL:
Design: Overlook 2-30 (wp01)
Latitude: 40.114856
Longitude: -104.926131
GL: 5010.00
KB: 15' rkb + 5010' gl @ 5025.00ft

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4160.00	4344.39	PK Depth
4553.00	4750.86	SX Depth
7318.00	7519.81	NIO Depth
7624.00	7825.81	CD Depth
7710.00	7911.81	GH Depth
8043.00	8244.81	J Depth





Azimuths to True North
Magnetic North: 8.91°

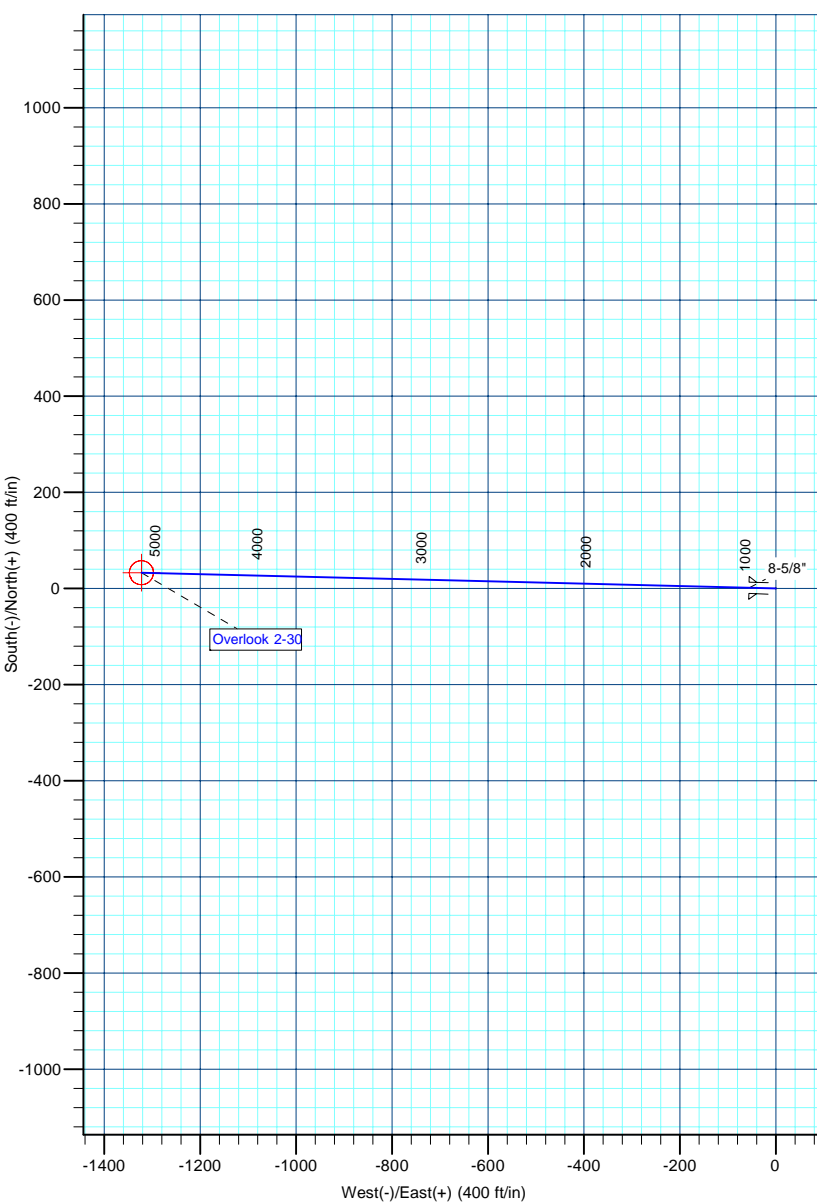
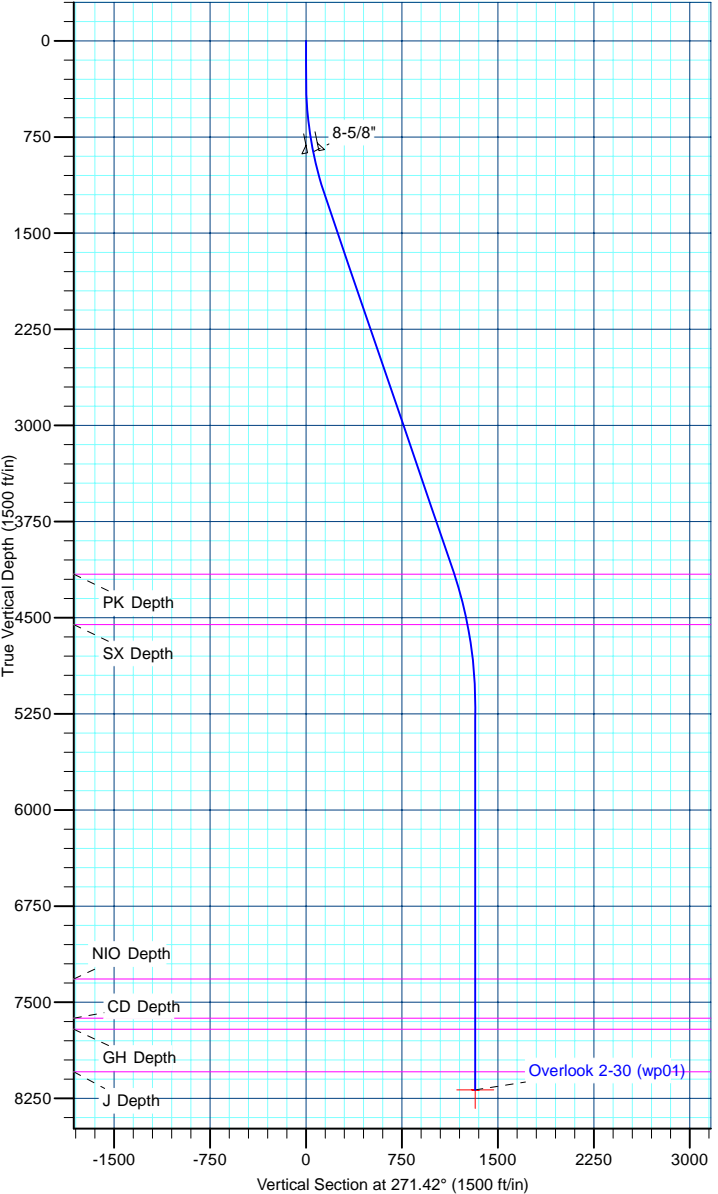
Magnetic Field
Strength: 52953.5snT
Dip Angle: 66.79°
Date: 7/15/2011
Model: IGRF2010

WELL DETAILS: Overlook 2-30						
+N/-S	+E/-W	Northing	Ground Level: Easting	5010.00 Latitude	Longitude	Slot
0.00	0.00	1285205.47	3160499.57	40.114856	-104.926131	

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 2-30 BHL	8183.00	32.83	-1322.61	1285229.74	3159176.78	40.114946	-104.930860	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
1245.91	18.92	271.42	1228.82	3.84	-154.70	2.00	271.42	154.75
4303.77	18.92	271.42	4121.49	28.44	-1145.81	0.00	0.00	1146.16
5384.81	0.00	0.00	5183.00	32.83	-1322.61	1.75	180.00	1323.02
8384.81	0.00	0.00	8183.00	32.83	-1322.61	0.00	0.00	1323.02



Database:	edm5000p	Local Co-ordinate Reference:	Well Overlook 2-30
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 2-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 2-30		
Design:	Overlook 2-30 (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 2-30					
Well Position	+N-S	-18.96 ft	Northing:	1,285,205.47 ft	Latitude:	40.114856
	+E-W	9.51 ft	Easting:	3,160,499.57 ft	Longitude:	-104.926131
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,010.00 ft

Wellbore	Overlook 2-30				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/15/2011	8.91	66.79	52,953

Design	Overlook 2-30 (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	271.42

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	
1,245.91	18.92	271.42	1,228.82	3.84	-154.70	2.00	2.00	0.00	271.42	
4,303.77	18.92	271.42	4,121.49	28.44	-1,145.81	0.00	0.00	0.00	0.00	
5,384.81	0.00	0.00	5,183.00	32.83	-1,322.61	1.75	-1.75	0.00	180.00	
8,384.81	0.00	0.00	8,183.00	32.83	-1,322.61	0.00	0.00	0.00	0.00	Overlook 2-30 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 2-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 2-30		
Design:	Overlook 2-30 (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	271.42	399.98	0.04	-1.74	1.75	2.00	2.00	0.00
500.00	4.00	271.42	499.84	0.17	-6.98	6.98	2.00	2.00	0.00
600.00	6.00	271.42	599.45	0.39	-15.69	15.69	2.00	2.00	0.00
700.00	8.00	271.42	698.70	0.69	-27.87	27.88	2.00	2.00	0.00
800.00	10.00	271.42	797.47	1.08	-43.51	43.52	2.00	2.00	0.00
868.73	11.37	271.42	865.00	1.40	-56.25	56.27	2.00	2.00	0.00
8-5/8"									
900.00	12.00	271.42	895.62	1.55	-62.58	62.60	2.00	2.00	0.00
1,000.00	14.00	271.42	993.06	2.11	-85.07	85.10	2.00	2.00	0.00
1,100.00	16.00	271.42	1,089.64	2.75	-110.94	110.98	2.00	2.00	0.00
1,200.00	18.00	271.42	1,185.27	3.48	-140.17	140.21	2.00	2.00	0.00
1,245.91	18.92	271.42	1,228.82	3.84	-154.70	154.75	2.00	2.00	0.00
1,300.00	18.92	271.42	1,279.98	4.28	-172.23	172.29	0.00	0.00	0.00
1,400.00	18.92	271.42	1,374.58	5.08	-204.64	204.71	0.00	0.00	0.00
1,500.00	18.92	271.42	1,469.18	5.88	-237.06	237.13	0.00	0.00	0.00
1,600.00	18.92	271.42	1,563.78	6.69	-269.47	269.55	0.00	0.00	0.00
1,700.00	18.92	271.42	1,658.38	7.49	-301.88	301.97	0.00	0.00	0.00
1,800.00	18.92	271.42	1,752.98	8.30	-334.29	334.40	0.00	0.00	0.00
1,900.00	18.92	271.42	1,847.57	9.10	-366.70	366.82	0.00	0.00	0.00
2,000.00	18.92	271.42	1,942.17	9.91	-399.12	399.24	0.00	0.00	0.00
2,100.00	18.92	271.42	2,036.77	10.71	-431.53	431.66	0.00	0.00	0.00
2,200.00	18.92	271.42	2,131.37	11.52	-463.94	464.08	0.00	0.00	0.00
2,300.00	18.92	271.42	2,225.97	12.32	-496.35	496.50	0.00	0.00	0.00
2,400.00	18.92	271.42	2,320.56	13.13	-528.76	528.93	0.00	0.00	0.00
2,500.00	18.92	271.42	2,415.16	13.93	-561.18	561.35	0.00	0.00	0.00
2,600.00	18.92	271.42	2,509.76	14.74	-593.59	593.77	0.00	0.00	0.00
2,700.00	18.92	271.42	2,604.36	15.54	-626.00	626.19	0.00	0.00	0.00
2,800.00	18.92	271.42	2,698.96	16.34	-658.41	658.61	0.00	0.00	0.00
2,900.00	18.92	271.42	2,793.56	17.15	-690.82	691.04	0.00	0.00	0.00
3,000.00	18.92	271.42	2,888.15	17.95	-723.24	723.46	0.00	0.00	0.00
3,100.00	18.92	271.42	2,982.75	18.76	-755.65	755.88	0.00	0.00	0.00
3,200.00	18.92	271.42	3,077.35	19.56	-788.06	788.30	0.00	0.00	0.00
3,300.00	18.92	271.42	3,171.95	20.37	-820.47	820.72	0.00	0.00	0.00
3,400.00	18.92	271.42	3,266.55	21.17	-852.88	853.15	0.00	0.00	0.00
3,500.00	18.92	271.42	3,361.14	21.98	-885.29	885.57	0.00	0.00	0.00
3,600.00	18.92	271.42	3,455.74	22.78	-917.71	917.99	0.00	0.00	0.00
3,700.00	18.92	271.42	3,550.34	23.59	-950.12	950.41	0.00	0.00	0.00
3,800.00	18.92	271.42	3,644.94	24.39	-982.53	982.83	0.00	0.00	0.00
3,900.00	18.92	271.42	3,739.54	25.20	-1,014.94	1,015.26	0.00	0.00	0.00
4,000.00	18.92	271.42	3,834.14	26.00	-1,047.35	1,047.68	0.00	0.00	0.00
4,100.00	18.92	271.42	3,928.73	26.80	-1,079.77	1,080.10	0.00	0.00	0.00
4,200.00	18.92	271.42	4,023.33	27.61	-1,112.18	1,112.52	0.00	0.00	0.00
4,300.00	18.92	271.42	4,117.93	28.41	-1,144.59	1,144.94	0.00	0.00	0.00
4,303.77	18.92	271.42	4,121.49	28.44	-1,145.81	1,146.16	0.00	0.00	0.00
4,344.39	18.21	271.42	4,160.00	28.76	-1,158.74	1,159.10	1.75	-1.75	0.00
PK Depth									
4,400.00	17.23	271.42	4,212.97	29.18	-1,175.66	1,176.02	1.75	-1.75	0.00
4,500.00	15.48	271.42	4,308.92	29.88	-1,203.82	1,204.19	1.75	-1.75	0.00
4,600.00	13.73	271.42	4,405.68	30.51	-1,229.03	1,229.41	1.75	-1.75	0.00
4,700.00	11.98	271.42	4,503.17	31.06	-1,251.28	1,251.66	1.75	-1.75	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 2-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 2-30		
Design:	Overlook 2-30 (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)
4,750.86	11.09	271.42	4,553.00	31.31	-1,261.45	1,261.84	1.75	-1.75	0.00
SX Depth									
4,800.00	10.23	271.42	4,601.30	31.54	-1,270.54	1,270.93	1.75	-1.75	0.00
4,900.00	8.48	271.42	4,699.96	31.94	-1,286.80	1,287.19	1.75	-1.75	0.00
5,000.00	6.73	271.42	4,799.08	32.27	-1,300.03	1,300.43	1.75	-1.75	0.00
5,100.00	4.98	271.42	4,898.55	32.53	-1,310.24	1,310.64	1.75	-1.75	0.00
5,200.00	3.23	271.42	4,998.29	32.70	-1,317.40	1,317.81	1.75	-1.75	0.00
5,300.00	1.48	271.42	5,098.20	32.81	-1,321.52	1,321.92	1.75	-1.75	0.00
5,384.81	0.00	0.00	5,183.00	32.83	-1,322.61	1,323.02	1.75	-1.75	0.00
5,400.00	0.00	0.00	5,198.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
5,500.00	0.00	0.00	5,298.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
5,600.00	0.00	0.00	5,398.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
5,700.00	0.00	0.00	5,498.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
5,800.00	0.00	0.00	5,598.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
5,900.00	0.00	0.00	5,698.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,000.00	0.00	0.00	5,798.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,100.00	0.00	0.00	5,898.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,200.00	0.00	0.00	5,998.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,300.00	0.00	0.00	6,098.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,400.00	0.00	0.00	6,198.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,500.00	0.00	0.00	6,298.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,600.00	0.00	0.00	6,398.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,700.00	0.00	0.00	6,498.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,800.00	0.00	0.00	6,598.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
6,900.00	0.00	0.00	6,698.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,000.00	0.00	0.00	6,798.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,100.00	0.00	0.00	6,898.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,200.00	0.00	0.00	6,998.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,300.00	0.00	0.00	7,098.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,400.00	0.00	0.00	7,198.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,500.00	0.00	0.00	7,298.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,519.81	0.00	0.00	7,318.00	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
NIO Depth									
7,600.00	0.00	0.00	7,398.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,700.00	0.00	0.00	7,498.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,800.00	0.00	0.00	7,598.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,825.81	0.00	0.00	7,624.00	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
CD Depth									
7,900.00	0.00	0.00	7,698.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
7,911.81	0.00	0.00	7,710.00	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
GH Depth									
8,000.00	0.00	0.00	7,798.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
8,100.00	0.00	0.00	7,898.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
8,200.00	0.00	0.00	7,998.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
8,244.81	0.00	0.00	8,043.00	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
J Depth									
8,300.00	0.00	0.00	8,098.19	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
8,384.81	0.00	0.00	8,183.00	32.83	-1,322.61	1,323.02	0.00	0.00	0.00
Overlook 2-30 BHL									

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Site:	WELD_Overlook 1-30 PAD	North Reference:	True
Well:	Overlook 2-30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Overlook 2-30		
Design:	Overlook 2-30 (wp01)		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Overlook 2-30 BHL	0.00	0.00	8,183.00	32.83	-1,322.61	1,285,229.74	3,159,176.78	40.114946	-104.930860
- 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)				(°)	(°)
4,344.39	4,160.00	PK Depth				
4,750.86	4,553.00	SX Depth				
7,519.81	7,318.00	NIO Depth				
7,825.81	7,624.00	CD Depth				
7,911.81	7,710.00	GH Depth				
8,244.81	8,043.00	J Depth				