



Company: Extraction Oil & Gas
Field: Weld Co., Co
Location: Sec.31-T05N-R67W
Well: Wind 09
Borehole: Original Hole
Rig: Xtreme 7
Plan: Rev 1

PATHFINDER
A Schlumberger Company

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge
3	1328.83	10.58	187.83	1325.83	-48.22	-6.63	2.00	187.83	15.34	Hold Tangent
4	5993.46	10.58	187.83	5911.21	-896.43	-123.27	0.00	0.00	285.21	Begin Drop
5	6522.29	0.00	0.00	6437.04	-944.65	-129.90	2.00	180.00	300.55	Vertical Point
6	6622.29	0.00	0.00	6537.04	-944.65	-129.90	0.00	0.00	300.55	KOP, Build 10°/100' DLS
7	7522.29	90.00	270.00	7110.00	-944.64	-702.86	10.00	270.00	863.84	LP, Hold to TD
8	11894.53	90.00	270.00	7110.00	-944.55	-5075.10	0.00	0.00	5162.25	PBHL/TD

WELL DETAILS: Wind 09

GL 4928.00 KB @ 4944.00usft (Xtreme 7 - 16')
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 1372106.78 3154774.96 40° 21' 12.614 N 104° 56' 40.751 W

WELLBORE TARGET DETAILS

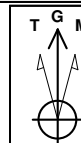
Name	TVD	+N/-S	+E/-W	Shape
KOP Wind 9	6437.04	-944.65	-129.90	Point
LP Wind 9	7110.00	-944.64	-702.86	Point
PBHL Wind 9	7110.00	-944.55	-5075.10	Point

FORMATION TOP DETAILS

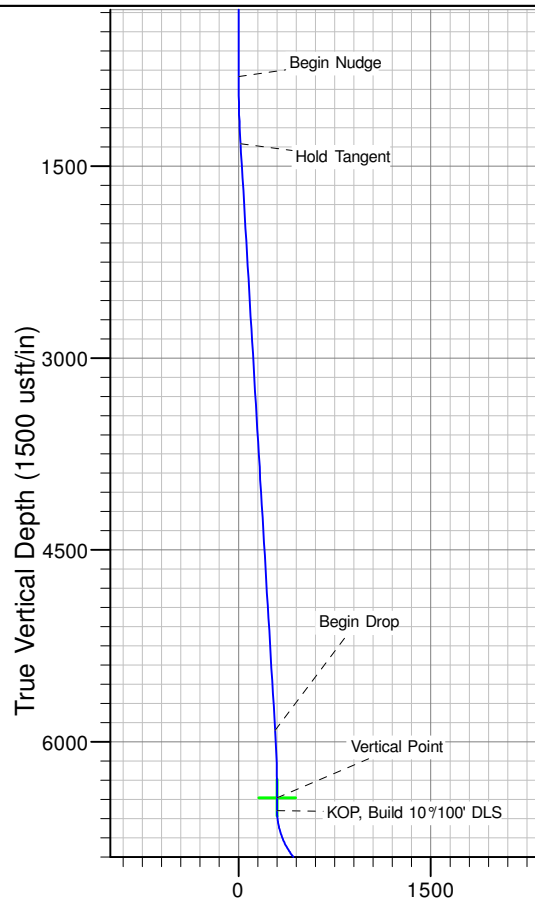
TVDPath	MDPath	Formation
3460.00	3499.88	Parkman
4275.00	4328.97	Sussex
5680.00	5758.25	Shannon
6790.00	6884.28	Niobrara
7075.00	7320.99	Fort Hays
7110.00	7522.29	Codell

CASING DETAILS

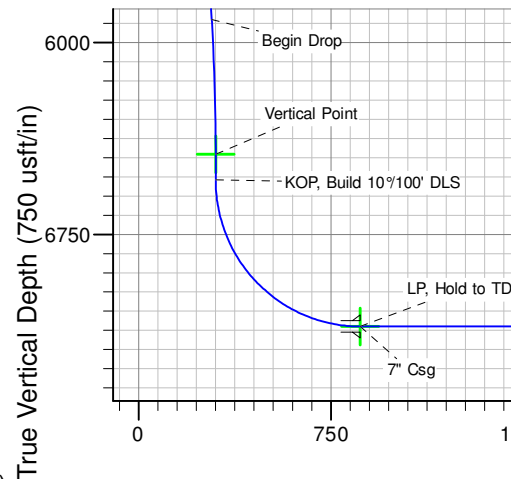
TVD	MD	Name	Size
7110.00	7522.29	7" Csg	7



Azimuths to Grid North
True North: -0.36°
Magnetic North: 8.19°
Magnetic Field
Strength: 52767.9snT
Dip Angle: 66.88°
Date: 6/26/2014
Model: IGRF2010



Vertical Section at 259.46° (1500 usft/in)



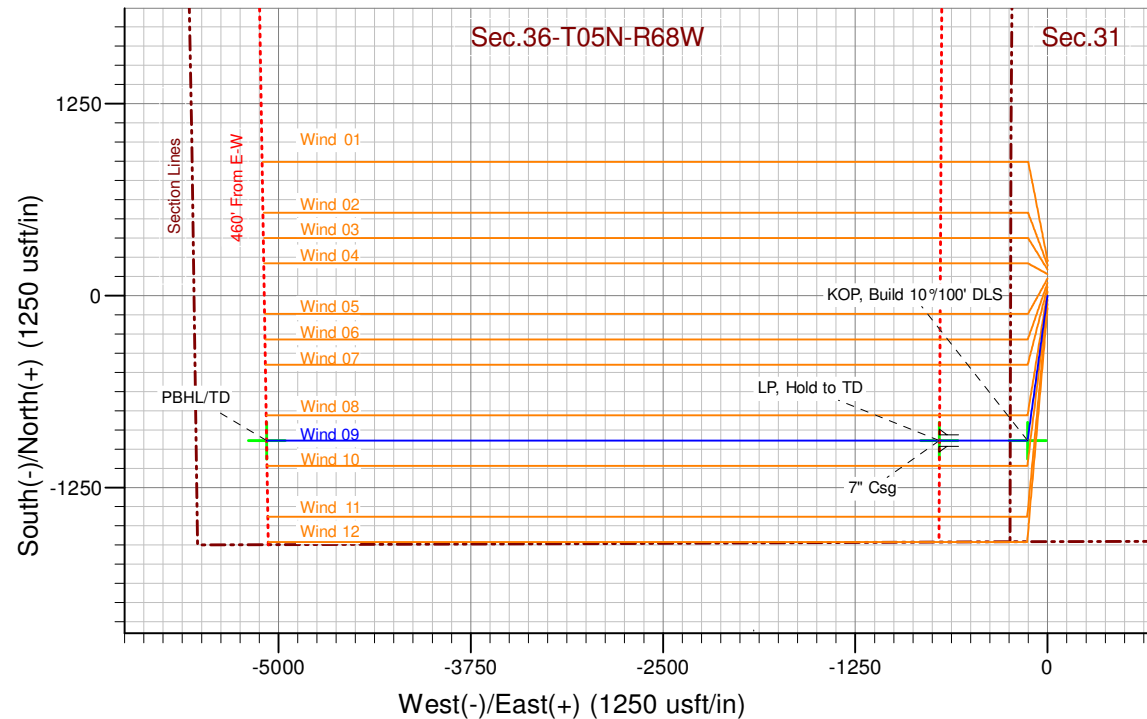
Vertical Section at 259.46° (750 usft/in)

SHL: 1602' FSL & 240' FWL
(Sec.31-T05N-R67W)
PBHL: 677' FSL & 460' FWL
(Sec.36-T05N-R68W)

Notice:
Section Lines and Hardlines
are estimates only and are
subject to customer approval

Wind 09 Rev 1

Created By: J Rieke Date: 16:04, August 14 2014



Sec.31

Sec.36-T05N-R68W



Extraction Oil & Gas

**Weld Co., Co
Sec.31-T05N-R67W
Wind 09**

Original Hole

Plan: Rev 1

Standard Planning Report

14 August, 2014



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wind 09
Company:	Extraction Oil & Gas	TVD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Project:	Weld Co., Co	MD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Site:	Sec.31-T05N-R67W	North Reference:	Grid
Well:	Wind 09	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Rev 1		

Project	Weld Co., Co		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Sec.31-T05N-R67W			
Site Position:		Northing:	1,372,289.16 usft	Latitude: 40° 21' 14.418 N
From:	Lat/Long	Easting:	3,154,752.91 usft	Longitude: 104° 56' 41.021 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.36 °

Well	Wind 09			
Well Position	+N/-S	-182.38 usft	Northing:	1,372,106.78 usft
	+E/-W	22.05 usft	Easting:	3,154,774.96 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	4,944.00 usft	Ground Level: 4,928.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/26/2014	8.55	66.88	52,768

Design	Rev 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	259.46

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	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,328.83	10.58	187.83	1,325.83	-48.22	-6.63	2.00	2.00	0.00	187.83	
5,993.46	10.58	187.83	5,911.21	-896.43	-123.27	0.00	0.00	0.00	0.00	
6,522.29	0.00	0.01	6,437.04	-944.65	-129.90	2.00	-2.00	0.00	180.00	KOP Wind 9
6,622.29	0.00	0.01	6,537.04	-944.65	-129.90	0.00	0.00	0.00	0.01	
7,522.29	90.00	270.00	7,110.00	-944.64	-702.86	10.00	10.00	0.00	270.00	LP Wind 9
11,894.53	90.00	270.00	7,110.00	-944.55	-5,075.10	0.00	0.00	0.00	0.00	PBHL Wind 9



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wind 09
Company:	Extraction Oil & Gas	TVD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Project:	Weld Co., Co	MD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Site:	Sec.31-T05N-R67W	North Reference:	Grid
Well:	Wind 09	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Rev 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 (°/100usft)	Turn Rate (°/100usft)
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	0.00	0.00	400.00	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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge									
900.00	2.00	187.83	899.98	-1.73	-0.24	0.55	2.00	2.00	0.00
1,000.00	4.00	187.83	999.84	-6.91	-0.95	2.20	2.00	2.00	0.00
1,100.00	6.00	187.83	1,099.45	-15.55	-2.14	4.95	2.00	2.00	0.00
1,200.00	8.00	187.83	1,198.70	-27.62	-3.80	8.79	2.00	2.00	0.00
1,300.00	10.00	187.83	1,297.47	-43.12	-5.93	13.72	2.00	2.00	0.00
1,328.83	10.58	187.83	1,325.83	-48.22	-6.63	15.34	2.00	2.00	0.00
Hold Tangent									
1,400.00	10.58	187.83	1,395.79	-61.16	-8.41	19.46	0.00	0.00	0.00
1,500.00	10.58	187.83	1,494.09	-79.34	-10.91	25.24	0.00	0.00	0.00
1,600.00	10.58	187.83	1,592.39	-97.53	-13.41	31.03	0.00	0.00	0.00
1,700.00	10.58	187.83	1,690.70	-115.71	-15.91	36.82	0.00	0.00	0.00
1,800.00	10.58	187.83	1,789.00	-133.89	-18.41	42.60	0.00	0.00	0.00
1,900.00	10.58	187.83	1,887.30	-152.08	-20.91	48.39	0.00	0.00	0.00
2,000.00	10.58	187.83	1,985.60	-170.26	-23.41	54.17	0.00	0.00	0.00
2,100.00	10.58	187.83	2,083.90	-188.45	-25.91	59.96	0.00	0.00	0.00
2,200.00	10.58	187.83	2,182.20	-206.63	-28.41	65.74	0.00	0.00	0.00
2,300.00	10.58	187.83	2,280.50	-224.81	-30.91	71.53	0.00	0.00	0.00
2,400.00	10.58	187.83	2,378.80	-243.00	-33.42	77.31	0.00	0.00	0.00
2,500.00	10.58	187.83	2,477.10	-261.18	-35.92	83.10	0.00	0.00	0.00
2,600.00	10.58	187.83	2,575.41	-279.37	-38.42	88.88	0.00	0.00	0.00
2,700.00	10.58	187.83	2,673.71	-297.55	-40.92	94.67	0.00	0.00	0.00
2,800.00	10.58	187.83	2,772.01	-315.73	-43.42	100.46	0.00	0.00	0.00
2,900.00	10.58	187.83	2,870.31	-333.92	-45.92	106.24	0.00	0.00	0.00
3,000.00	10.58	187.83	2,968.61	-352.10	-48.42	112.03	0.00	0.00	0.00
3,100.00	10.58	187.83	3,066.91	-370.29	-50.92	117.81	0.00	0.00	0.00
3,200.00	10.58	187.83	3,165.21	-388.47	-53.42	123.60	0.00	0.00	0.00
3,300.00	10.58	187.83	3,263.51	-406.65	-55.92	129.38	0.00	0.00	0.00
3,400.00	10.58	187.83	3,361.81	-424.84	-58.42	135.17	0.00	0.00	0.00
3,499.88	10.58	187.83	3,460.00	-443.00	-60.92	140.95	0.00	0.00	0.00
Parkman									
3,500.00	10.58	187.83	3,460.11	-443.02	-60.92	140.95	0.00	0.00	0.00
3,600.00	10.58	187.83	3,558.42	-461.21	-63.42	146.74	0.00	0.00	0.00
3,700.00	10.58	187.83	3,656.72	-479.39	-65.92	152.52	0.00	0.00	0.00
3,800.00	10.58	187.83	3,755.02	-497.57	-68.42	158.31	0.00	0.00	0.00
3,900.00	10.58	187.83	3,853.32	-515.76	-70.92	164.10	0.00	0.00	0.00
4,000.00	10.58	187.83	3,951.62	-533.94	-73.42	169.88	0.00	0.00	0.00
4,100.00	10.58	187.83	4,049.92	-552.12	-75.92	175.67	0.00	0.00	0.00
4,200.00	10.58	187.83	4,148.22	-570.31	-78.42	181.45	0.00	0.00	0.00
4,300.00	10.58	187.83	4,246.52	-588.49	-80.92	187.24	0.00	0.00	0.00
4,328.97	10.58	187.83	4,275.00	-593.76	-81.65	188.91	0.00	0.00	0.00
Sussex									
4,400.00	10.58	187.83	4,344.82	-606.68	-83.43	193.02	0.00	0.00	0.00
4,500.00	10.58	187.83	4,443.12	-624.86	-85.93	198.81	0.00	0.00	0.00
4,600.00	10.58	187.83	4,541.43	-643.04	-88.43	204.59	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wind 09
Company:	Extraction Oil & Gas	TVD Reference:	KB @ 4944.00usft (Xtreme 7 - 16")
Project:	Weld Co., Co	MD Reference:	KB @ 4944.00usft (Xtreme 7 - 16")
Site:	Sec.31-T05N-R67W	North Reference:	Grid
Well:	Wind 09	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Rev 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 (°/100usft)	Turn Rate (°/100usft)
4,700.00	10.58	187.83	4,639.73	-661.23	-90.93	210.38	0.00	0.00	0.00
4,800.00	10.58	187.83	4,738.03	-679.41	-93.43	216.16	0.00	0.00	0.00
4,900.00	10.58	187.83	4,836.33	-697.60	-95.93	221.95	0.00	0.00	0.00
5,000.00	10.58	187.83	4,934.63	-715.78	-98.43	227.74	0.00	0.00	0.00
5,100.00	10.58	187.83	5,032.93	-733.96	-100.93	233.52	0.00	0.00	0.00
5,200.00	10.58	187.83	5,131.23	-752.15	-103.43	239.31	0.00	0.00	0.00
5,300.00	10.58	187.83	5,229.53	-770.33	-105.93	245.09	0.00	0.00	0.00
5,400.00	10.58	187.83	5,327.83	-788.52	-108.43	250.88	0.00	0.00	0.00
5,500.00	10.58	187.83	5,426.14	-806.70	-110.93	256.66	0.00	0.00	0.00
5,600.00	10.58	187.83	5,524.44	-824.88	-113.43	262.45	0.00	0.00	0.00
5,700.00	10.58	187.83	5,622.74	-843.07	-115.93	268.23	0.00	0.00	0.00
5,758.25	10.58	187.83	5,680.00	-853.66	-117.39	271.60	0.00	0.00	0.00
Shannon									
5,800.00	10.58	187.83	5,721.04	-861.25	-118.43	274.02	0.00	0.00	0.00
5,900.00	10.58	187.83	5,819.34	-879.43	-120.93	279.80	0.00	0.00	0.00
5,993.46	10.58	187.83	5,911.21	-896.43	-123.27	285.21	0.00	0.00	0.00
Begin Drop									
6,000.00	10.45	187.83	5,917.64	-897.61	-123.43	285.59	2.00	-2.00	0.00
6,100.00	8.45	187.83	6,016.28	-913.87	-125.67	290.76	2.00	-2.00	0.00
6,200.00	6.45	187.83	6,115.43	-926.71	-127.43	294.84	2.00	-2.00	0.00
6,300.00	4.45	187.83	6,214.98	-936.11	-128.73	297.84	2.00	-2.00	0.00
6,400.00	2.45	187.83	6,314.79	-942.06	-129.54	299.73	2.00	-2.00	0.00
6,500.00	0.45	187.83	6,414.75	-944.56	-129.89	300.52	2.00	-2.00	0.00
6,522.29	0.00	0.01	6,437.04	-944.65	-129.90	300.55	2.00	-2.00	0.00
Vertical Point									
6,600.00	0.00	0.01	6,514.75	-944.65	-129.90	300.55	0.00	0.00	0.00
6,622.29	0.00	0.01	6,537.04	-944.65	-129.90	300.55	0.00	0.00	0.00
KOP, Build 10°/100' DLS									
6,700.00	7.77	270.00	6,614.52	-944.65	-135.16	305.73	10.00	10.00	0.00
6,800.00	17.77	270.00	6,711.92	-944.65	-157.24	327.43	10.00	10.00	0.00
6,884.28	26.20	270.00	6,790.00	-944.65	-188.76	358.42	10.00	10.00	0.00
Niobrara									
6,900.00	27.77	270.00	6,804.01	-944.65	-195.90	365.43	10.00	10.00	0.00
7,000.00	37.77	270.00	6,887.98	-944.65	-249.96	418.58	10.00	10.00	0.00
7,100.00	47.77	270.00	6,961.30	-944.65	-317.78	485.26	10.00	10.00	0.00
7,200.00	57.77	270.00	7,021.72	-944.65	-397.30	563.44	10.00	10.00	0.00
7,300.00	67.77	270.00	7,067.42	-944.64	-486.11	650.74	10.00	10.00	0.00
7,320.99	69.87	270.00	7,075.00	-944.64	-505.68	669.99	10.00	10.00	0.00
Fort Hays									
7,400.00	77.77	270.00	7,097.00	-944.64	-581.50	744.52	10.00	10.00	0.00
7,500.00	87.77	270.00	7,109.56	-944.64	-680.58	841.93	10.00	10.00	0.00
7,522.29	90.00	270.00	7,110.00	-944.64	-702.86	863.84	10.00	10.00	0.00
LP, Hold to TD - Codell - 7" Csg									
7,600.00	90.00	270.00	7,110.00	-944.64	-780.57	940.24	0.00	0.00	0.00
7,700.00	90.00	270.00	7,110.00	-944.64	-880.57	1,038.55	0.00	0.00	0.00
7,800.00	90.00	270.00	7,110.00	-944.64	-980.57	1,136.86	0.00	0.00	0.00
7,900.00	90.00	270.00	7,110.00	-944.64	-1,080.57	1,235.17	0.00	0.00	0.00
8,000.00	90.00	270.00	7,110.00	-944.64	-1,180.57	1,333.48	0.00	0.00	0.00
8,100.00	90.00	270.00	7,110.00	-944.64	-1,280.57	1,431.80	0.00	0.00	0.00
8,200.00	90.00	270.00	7,110.00	-944.64	-1,380.57	1,530.11	0.00	0.00	0.00
8,300.00	90.00	270.00	7,110.00	-944.64	-1,480.57	1,628.42	0.00	0.00	0.00
8,400.00	90.00	270.00	7,110.00	-944.64	-1,580.57	1,726.73	0.00	0.00	0.00
8,500.00	90.00	270.00	7,110.00	-944.64	-1,680.57	1,825.04	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wind 09
Company:	Extraction Oil & Gas	TVD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Project:	Weld Co., Co	MD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Site:	Sec.31-T05N-R67W	North Reference:	Grid
Well:	Wind 09	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Rev 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 (°/100usft)	Turn Rate (°/100usft)	
8,600.00	90.00	270.00	7,110.00	-944.63	-1,780.57	1,923.35	0.00	0.00	0.00	
8,700.00	90.00	270.00	7,110.00	-944.63	-1,880.57	2,021.67	0.00	0.00	0.00	
8,800.00	90.00	270.00	7,110.00	-944.63	-1,980.57	2,119.98	0.00	0.00	0.00	
8,900.00	90.00	270.00	7,110.00	-944.63	-2,080.57	2,218.29	0.00	0.00	0.00	
9,000.00	90.00	270.00	7,110.00	-944.63	-2,180.57	2,316.60	0.00	0.00	0.00	
9,100.00	90.00	270.00	7,110.00	-944.63	-2,280.57	2,414.91	0.00	0.00	0.00	
9,200.00	90.00	270.00	7,110.00	-944.63	-2,380.57	2,513.22	0.00	0.00	0.00	
9,300.00	90.00	270.00	7,110.00	-944.63	-2,480.57	2,611.54	0.00	0.00	0.00	
9,400.00	90.00	270.00	7,110.00	-944.63	-2,580.57	2,709.85	0.00	0.00	0.00	
9,500.00	90.00	270.00	7,110.00	-944.63	-2,680.57	2,808.16	0.00	0.00	0.00	
9,600.00	90.00	270.00	7,110.00	-944.63	-2,780.57	2,906.47	0.00	0.00	0.00	
9,700.00	90.00	270.00	7,110.00	-944.63	-2,880.57	3,004.78	0.00	0.00	0.00	
9,800.00	90.00	270.00	7,110.00	-944.63	-2,980.57	3,103.09	0.00	0.00	0.00	
9,900.00	90.00	270.00	7,110.00	-944.63	-3,080.57	3,201.41	0.00	0.00	0.00	
10,000.00	90.00	270.00	7,110.00	-944.62	-3,180.57	3,299.72	0.00	0.00	0.00	
10,100.00	90.00	270.00	7,110.00	-944.62	-3,280.57	3,398.03	0.00	0.00	0.00	
10,200.00	90.00	270.00	7,110.00	-944.62	-3,380.57	3,496.34	0.00	0.00	0.00	
10,300.00	90.00	270.00	7,110.00	-944.62	-3,480.57	3,594.65	0.00	0.00	0.00	
10,400.00	90.00	270.00	7,110.00	-944.62	-3,580.57	3,692.96	0.00	0.00	0.00	
10,500.00	90.00	270.00	7,110.00	-944.62	-3,680.57	3,791.28	0.00	0.00	0.00	
10,600.00	90.00	270.00	7,110.00	-944.62	-3,780.57	3,889.59	0.00	0.00	0.00	
10,700.00	90.00	270.00	7,110.00	-944.62	-3,880.57	3,987.90	0.00	0.00	0.00	
10,800.00	90.00	270.00	7,110.00	-944.62	-3,980.57	4,086.21	0.00	0.00	0.00	
10,900.00	90.00	270.00	7,110.00	-944.62	-4,080.57	4,184.52	0.00	0.00	0.00	
11,000.00	90.00	270.00	7,110.00	-944.62	-4,180.57	4,282.83	0.00	0.00	0.00	
11,100.00	90.00	270.00	7,110.00	-944.62	-4,280.57	4,381.15	0.00	0.00	0.00	
11,200.00	90.00	270.00	7,110.00	-944.62	-4,380.57	4,479.46	0.00	0.00	0.00	
11,300.00	90.00	270.00	7,110.00	-944.61	-4,480.57	4,577.77	0.00	0.00	0.00	
11,400.00	90.00	270.00	7,110.00	-944.61	-4,580.57	4,676.08	0.00	0.00	0.00	
11,500.00	90.00	270.00	7,110.00	-944.61	-4,680.57	4,774.39	0.00	0.00	0.00	
11,600.00	90.00	270.00	7,110.00	-944.61	-4,780.57	4,872.70	0.00	0.00	0.00	
11,700.00	90.00	270.00	7,110.00	-944.61	-4,880.57	4,971.02	0.00	0.00	0.00	
11,800.00	90.00	270.00	7,110.00	-944.61	-4,980.57	5,069.33	0.00	0.00	0.00	
11,894.53	90.00	270.00	7,110.00	-944.61	-5,075.10	5,162.26	0.00	0.00	0.00	
PBHL/TD										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP Wind 9 - hit/miss target - Shape	0.00	0.00	6,437.04	-944.65	-129.90	1,371,162.13	3,154,645.06	40° 21' 3.287 N	104° 56' 42.505 W
- plan hits target center - Point									
PBHL Wind 9 - plan misses target center by 0.06usft at 11894.53usft MD (7110.00 TVD, -944.61 N, -5075.10 E) - Point	0.00	0.00	7,110.00	-944.55	-5,075.10	1,371,162.22	3,149,699.86	40° 21' 3.589 N	104° 57' 46.379 W
LP Wind 9 - plan hits target center - Point	0.00	0.00	7,110.00	-944.64	-702.86	1,371,162.14	3,154,072.10	40° 21' 3.323 N	104° 56' 49.906 W



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Wind 09
Company:	Extraction Oil & Gas	TVD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Project:	Weld Co., Co	MD Reference:	KB @ 4944.00usft (Xtreme 7 - 16')
Site:	Sec.31-T05N-R67W	North Reference:	Grid
Well:	Wind 09	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Rev 1		

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
7,522.29	7,110.00	7" Csg	7	7-1/2

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,499.88	3,460.00	Parkman		0.00	
4,328.97	4,275.00	Sussex		0.00	
5,758.25	5,680.00	Shannon		0.00	
6,884.28	6,790.00	Niobrara		0.00	
7,320.99	7,075.00	Fort Hays		0.00	
7,522.29	7,110.00	Codell		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
800.00	800.00	0.00	0.00	Begin Nudge
1,328.83	1,325.83	-48.22	-6.63	Hold Tangent
5,993.46	5,911.21	-896.43	-123.27	Begin Drop
6,522.29	6,437.04	-944.65	-129.90	Vertical Point
6,622.29	6,537.04	-944.65	-129.90	KOP, Build 10°/100' DLS
7,522.29	7,110.00	-944.64	-702.86	LP, Hold to TD
11,894.53	7,110.00	-944.61	-5,075.10	PBHL/TD