

MINERAL RESOURCES, INC.

Location: COLORADO
 Field: WELD COUNTY
 Facility: SEC.20-T5N-R65W

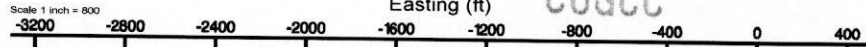
Slot: D8 EHR LIC MOTORS
 Well: D8 Ehrlic Motors
 Wellbore: D8 Ehrlic Motors PWB

ENSIGN
 United States Drilling

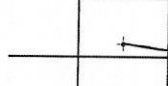


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TARGET: 400' X 400'
 CENTER @ BHL
 50'FSL & 1379'FWL
 SECTION 17

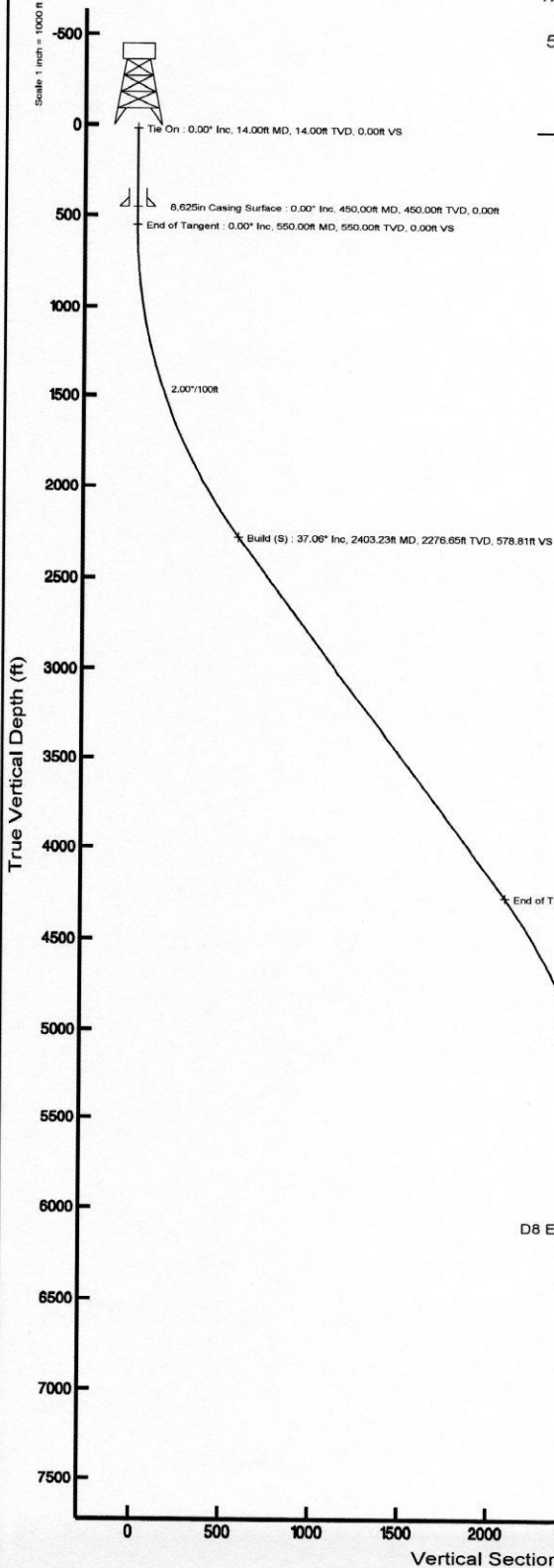


D8 Ehrlic Motors Target

SURFACE HOLE LOCATION: D8 EHR LIC MOTORS
 290'FNL & 1257'FEL
 SECTION 20



Northing (ft)



Targets								
Name	MD (ft)	TVD (ft)	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)	Latitude	Longitude
D8 Ehrlic Motors Target	6758.72	6000.00	340.00	-2644.00	3225106.64	1386672.87	40° 23' 31.210"N	104° 41' 30.596"W

Location Information				
Facility Name	Grid East (USft)	Grid North (USft)	Latitude	Longitude
SEC.20-T5N-R65W	3225988.330	1384979.750	40° 23' 14.400"N	104° 41' 19.400"W
Slot	Local N (ft)	Local E (ft)	Grid East (USft)	Grid North (USft)
D8 EHR LIC MOTORS	1361.37	1777.82	3227753.548	1386357.274
Ensign 55 (RT) to Mud line (Facility - SEC.20-T5N-R65W)			4888ft	
Mean Sea Level to Mud line (Facility - SEC.20-T5N-R65W)			0ft	
Ensign 55 (RT) to Mean Sea Level			4888ft	

Well Profile Data								
Design Comment	MD (ft)	Inc. (")	Az (")	TVD (ft)	Local N (ft)	Local E (ft)	DLS ("/100ft)	VS (ft)
Tie On	14.00	0.000	277.328	14.00	0.00	0.00	0.00	0.00
End of Tangent	550.00	0.000	277.328	550.00	0.00	0.00	0.00	0.00
Build (S)	2403.23	37.065	277.328	2276.65	73.82	-574.08	2.00	578.81
End of Tangent (S)	4905.49	37.065	277.328	4273.35	266.18	-2069.92	0.00	2086.96
Drop (S)	6758.72	0.000	277.328	6000.00	340.00	-2644.00	2.00	2665.77
End of Tangent	8258.72	0.000	277.328	7500.00	340.00	-2644.00	0.00	2665.77

Plot reference wellpath is D8 Ehrlic Motors PWB	
True vertical depths are referenced to Ensign 55 (RT)	Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet
Measured depths are referenced to Ensign 55 (RT)	North Reference: True north
Ensign 55 (RT) to Mean Sea Level: 4888 feet	Scale: True distance
Mean Sea Level to Mud line (Facility - SEC.20-T5N-R65W): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Suzanne Thompson on 3/2/2007

ENSIGN 55



BGM (1945.0 to 2008.0) Dip: 67.24° Field: 53627.7 nT
 Magnetic North is 9.41 degrees East of True North (at 02/26/07)

To correct azimuth from Magnetic to True add 9.41 degrees

Azimuth 277.33° with reference 0.00 N, 0.00 E from wellhead

Planned Wellpath Report

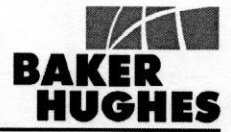
D8 Ehrlic Motors PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	MINERAL RESOURCES, INC.	Slot	D8 EHRLIC MOTORS
Area	COLORADO	Well	D8 Ehrlic Motors
Field	WELD COUNTY	Wellbore	D8 Ehrlic Motors PWB
Facility	SEC.20-T5N-R65W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet	Software System	WellArchitect™ 1.2
North Reference	True	User	Suzanne Thompson
Scale	0.99996	Report Generated	03/02/07 at 11:21:43
Wellbore last revised	06/01/06	Database/Source file	WA_Denver/D8_Ehrl

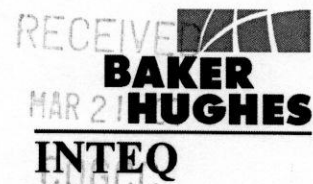
WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	1361.37	1777.82	3227753.55	1386357.27	40 23 27.852N	104 40 56.424W
Facility Reference Pt			3225988.33	1384979.75	40 23 14.400N	104 41 19.400W
Field Reference Pt			3225988.33	1384979.75	40 23 14.400N	104 41 19.400W

WELLPATH DATUM			
Calculation method	Minimum curvature	Ensign 55 (RT) to Installation Vertical Datum	4688.00 feet
Horizontal Reference Pt	Slot	Ensign 55 (RT) to Mean Sea Level	4688.00 feet
Vertical Reference Pt	Ensign 55 (RT)	Installation Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Ensign 55 (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	277.33°

Planned Wellpath Report

D8 Ehrlic Motors PWP

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Area	COLORADO	Well	D8 Ehrlic Motors
Field	WELD COUNTY	Wellbore	D8 Ehrlic Motors PWB
Facility	SEC.20-T5N-R65W		

WELLPATH DATA (89 stations) † = interpolated/extrapolated station							
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
0.00†	0.000	277.328	0.00	0.00	0.00	0.00	0.00
14.00	0.000	277.328	14.00	0.00	0.00	0.00	0.00
114.00†	0.000	0.000	114.00	0.00	0.00	0.00	0.00
214.00†	0.000	0.000	214.00	0.00	0.00	0.00	0.00
314.00†	0.000	0.000	314.00	0.00	0.00	0.00	0.00
414.00†	0.000	0.000	414.00	0.00	0.00	0.00	0.00
514.00†	0.000	0.000	514.00	0.00	0.00	0.00	0.00
550.00	0.000	277.328	550.00	0.00	0.00	0.00	0.00
614.00†	1.280	277.328	613.99	0.71	0.09	-0.71	2.00
714.00†	3.280	277.328	713.91	4.69	0.60	-4.65	2.00
814.00†	5.280	277.328	813.63	12.16	1.55	-12.06	2.00
914.00†	7.280	277.328	913.02	23.09	2.95	-22.91	2.00
1014.00†	9.280	277.328	1011.97	37.49	4.78	-37.19	2.00
1114.00†	11.280	277.328	1110.36	55.34	7.06	-54.89	2.00
1214.00†	13.280	277.328	1208.07	76.61	9.77	-75.98	2.00
1314.00†	15.280	277.328	1304.98	101.27	12.92	-100.44	2.00
1414.00†	17.280	277.328	1400.96	129.30	16.49	-128.25	2.00
1514.00†	19.280	277.328	1495.91	160.67	20.49	-159.36	2.00
1614.00†	21.280	277.328	1589.71	195.33	24.91	-193.73	2.00
1714.00†	23.280	277.328	1682.24	233.24	29.75	-231.33	2.00
1814.00†	25.280	277.328	1773.39	274.36	34.99	-272.12	2.00
1914.00†	27.280	277.328	1863.05	318.63	40.64	-316.03	2.00
2014.00†	29.280	277.328	1951.11	366.01	46.68	-363.02	2.00
2114.00†	31.280	277.328	2037.46	416.43	53.11	-413.02	2.00
2214.00†	33.280	277.328	2122.00	469.83	59.92	-465.99	2.00
2314.00†	35.280	277.328	2204.62	526.15	67.11	-521.85	2.00
2403.23	37.065	277.328	2276.65	578.81	73.82	-574.08	2.00
2414.00†	37.065	277.328	2285.25	585.30	74.65	-580.52	0.00
2514.00†	37.065	277.328	2365.04	645.57	82.34	-640.30	0.00
2614.00†	37.065	277.328	2444.84	705.85	90.03	-700.08	0.00
2714.00†	37.065	277.328	2524.63	766.12	97.71	-759.86	0.00
2814.00†	37.065	277.328	2604.43	826.39	105.40	-819.64	0.00
2914.00†	37.065	277.328	2684.22	886.66	113.09	-879.42	0.00
3014.00†	37.065	277.328	2764.02	946.93	120.77	-939.20	0.00
3114.00†	37.065	277.328	2843.82	1007.20	128.46	-998.98	0.00
3214.00†	37.065	277.328	2923.61	1067.47	136.15	-1058.76	0.00
3314.00†	37.065	277.328	3003.41	1127.75	143.84	-1118.54	0.00
3414.00†	37.065	277.328	3083.20	1188.02	151.52	-1178.31	0.00
3514.00†	37.065	277.328	3163.00	1248.29	159.21	-1238.09	0.00
3614.00†	37.065	277.328	3242.79	1308.56	166.90	-1297.87	0.00

Planned Wellpath Report

D8 Ehrlic Motors PWP

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REFERENCE WELLPATH IDENTIFICATION

Operator	MINERAL RESOURCES, INC.	Slot	D8 EHRLIC MOTORS
Area	COLORADO	Well	D8 Ehrlic Motors
Field	WELD COUNTY	Wellbore	D8 Ehrlic Motors PWB
Facility	SEC.20-T5N-R65W		

WELLPATH DATA (89 stations) † = interpolated/extrapolated station

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
3714.00†	37.065	277.328	3322.59	1368.83	174.58	-1357.65	0.00
3814.00†	37.065	277.328	3402.39	1429.10	182.27	-1417.43	0.00
3914.00†	37.065	277.328	3482.18	1489.37	189.96	-1477.21	0.00
4014.00†	37.065	277.328	3561.98	1549.65	197.65	-1536.99	0.00
4114.00†	37.065	277.328	3641.77	1609.92	205.33	-1596.77	0.00
4214.00†	37.065	277.328	3721.57	1670.19	213.02	-1656.55	0.00
4314.00†	37.065	277.328	3801.36	1730.46	220.71	-1716.33	0.00
4414.00†	37.065	277.328	3881.16	1790.73	228.39	-1776.11	0.00
4514.00†	37.065	277.328	3960.96	1851.00	236.08	-1835.89	0.00
4614.00†	37.065	277.328	4040.75	1911.27	243.77	-1895.66	0.00
4714.00†	37.065	277.328	4120.55	1971.55	251.46	-1955.44	0.00
4814.00†	37.065	277.328	4200.34	2031.82	259.14	-2015.22	0.00
4905.49	37.065	277.328	4273.35	2086.96	266.18	-2069.92	0.00
4914.00†	36.894	277.328	4280.15	2092.08	266.83	-2074.99	2.00
5014.00†	34.894	277.328	4361.15	2150.70	274.31	-2133.14	2.00
5114.00†	32.894	277.328	4444.15	2206.47	281.42	-2188.45	2.00
5214.00†	30.894	277.328	4529.05	2259.30	288.16	-2240.85	2.00
5314.00†	28.894	277.328	4615.74	2309.14	294.51	-2290.28	2.00
5414.00†	26.894	277.328	4704.12	2355.92	300.48	-2336.68	2.00
5514.00†	24.894	277.328	4794.08	2399.59	306.05	-2379.99	2.00
5614.00†	22.894	277.328	4885.50	2440.09	311.22	-2420.16	2.00
5714.00†	20.894	277.328	4978.28	2477.38	315.97	-2457.15	2.00
5814.00†	18.894	277.328	5072.31	2511.41	320.31	-2490.90	2.00
5914.00†	16.894	277.328	5167.47	2542.13	324.23	-2521.37	2.00
6014.00†	14.894	277.328	5263.64	2569.52	327.72	-2548.53	2.00
6114.00†	12.894	277.328	5360.71	2593.53	330.79	-2572.35	2.00
6214.00†	10.894	277.328	5458.56	2614.14	333.41	-2592.79	2.00
6314.00†	8.894	277.328	5557.06	2631.32	335.61	-2609.83	2.00
6414.00†	6.894	277.328	5656.11	2645.06	337.36	-2623.45	2.00
6514.00†	4.894	277.328	5755.58	2655.33	338.67	-2633.64	2.00
6614.00†	2.894	277.328	5855.34	2662.12	339.53	-2640.38	2.00
6714.00†	0.894	277.328	5955.28	2665.42	339.96	-2643.65	2.00
6758.72	0.000	277.328	6000.00 ¹	2665.77	340.00	-2644.00	2.00
6814.00†	0.000	0.000	6055.28	2665.77	340.00	-2644.00	0.00
6914.00†	0.000	0.000	6155.28	2665.77	340.00	-2644.00	0.00
7014.00†	0.000	0.000	6255.28	2665.77	340.00	-2644.00	0.00
7114.00†	0.000	0.000	6355.28	2665.77	340.00	-2644.00	0.00
7214.00†	0.000	0.000	6455.28	2665.77	340.00	-2644.00	0.00
7314.00†	0.000	0.000	6555.28	2665.77	340.00	-2644.00	0.00
7414.00†	0.000	0.000	6655.28	2665.77	340.00	-2644.00	0.00

Planned Wellpath Report

D8 Ehrlic Motors PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	MINERAL RESOURCES, INC.	Slot	D8 EHRLIC MOTORS
Area	COLORADO	Well	D8 Ehrlic Motors
Field	WELD COUNTY	Wellbore	D8 Ehrlic Motors PWB
Facility	SEC.20-T5N-R65W		

WELLPATH DATA (89 stations) † = interpolated/extrapolated station							
MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]
7514.00†	0.000	0.000	6755.28	2665.77	340.00	-2644.00	0.00
7614.00†	0.000	0.000	6855.28	2665.77	340.00	-2644.00	0.00
7714.00†	0.000	0.000	6955.28	2665.77	340.00	-2644.00	0.00
7814.00†	0.000	0.000	7055.28	2665.77	340.00	-2644.00	0.00
7914.00†	0.000	0.000	7155.28	2665.77	340.00	-2644.00	0.00
8014.00†	0.000	0.000	7255.28	2665.77	340.00	-2644.00	0.00
8114.00†	0.000	0.000	7355.28	2665.77	340.00	-2644.00	0.00
8214.00†	0.000	0.000	7455.28	2665.77	340.00	-2644.00	0.00
8258.72	0.000	277.328	7500.00	2665.77	340.00	-2644.00	0.00

HOLE & CASING SECTIONS Ref Wellbore: D8 Ehrlic Motors PWB Ref Wellpath: D8 Ehrlic Motors PWP									
String/Diameter	Start MD [feet]	End MD [feet]	Interval [feet]	Start TVD [feet]	End TVD [feet]	Start N/S [feet]	Start E/W [feet]	End N/S [feet]	End E/W [feet]
12.25in Open Hole	14.00	450.00	436.00	14.00	450.00	0.00	0.00	0.00	0.00
8.625in Casing Surface	14.00	450.00	436.00	14.00	450.00	0.00	0.00	0.00	0.00
7.875in Open Hole	450.00	8258.72	7808.72	450.00	7500.00	0.00	0.00	340.00	-2644.00

TARGETS									
Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
1) D8 Ehrlic Motors Target	6758.72	6000.00	340.00	-2644.00	3225106.64	1386672.87	40 23 31.210N	104 41 30.595W	square

SURVEY PROGRAM Ref Wellbore: D8 Ehrlic Motors PWB Ref Wellpath: D8 Ehrlic Motors PWP				
Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
14.00	8258.72	MTC (Collar, pre-2000) (Standard)		D8 Ehrlic Motors PWB

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