



Mewbourne Oil Company

Mewbourne Oil Company

Location: Lea County, NM
Field: (Mako) Sec 8, T17S, R35E
Facility: Mako 8 State Com No. 1H

Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB



Scale 1 inch = 800 ft
Easting (ft)
-800 -400 0 400 800 1200

EST. KOP : 8390.00ft TVD, 0.00ft N, 0.00ft E

LANDING POINT : 8962.93ft TVD, 578.32ft S, 20.58ft W

No. 1H SHL
460' FNL
660' FWL

460' LINE

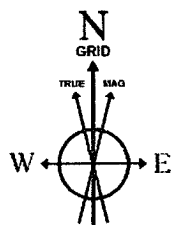
500' LINE

No. 1H PWB

Northing (ft)

Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	182.038	0.00	0.00	0.00	0.00	0.00
EST. KOP	8390.00	0.000	182.038	8390.00	0.00	0.00	0.00	0.00
LANDING POINT	9295.73	90.573	182.038	8962.93	-578.32	-20.58	10.00	578.69
No. 1H PBHL	12887.09	90.573	182.038	8927.00	-4167.23	-148.27	0.00	4169.87

Plot reference wellpath is Prehm-1 REV 1	
True vertical depths are referenced to Rig on No. 1H SHL (RT)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 1H SHL (RT)	North Reference: Grid north
Rig on No. 1H SHL (RT) to Mean Sea Level: 3412 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Mako 8 State Com No. 1H): -3394 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Victor Hernandez on 12/31/2009



BGGM (1945.0 to 2011.0) Dip: 60.33° Field: 48885.4 nT
Magnetic North is 7.66 degrees East of True North (at 12/28/2009)
Grid North is 0.56 degrees East of True North

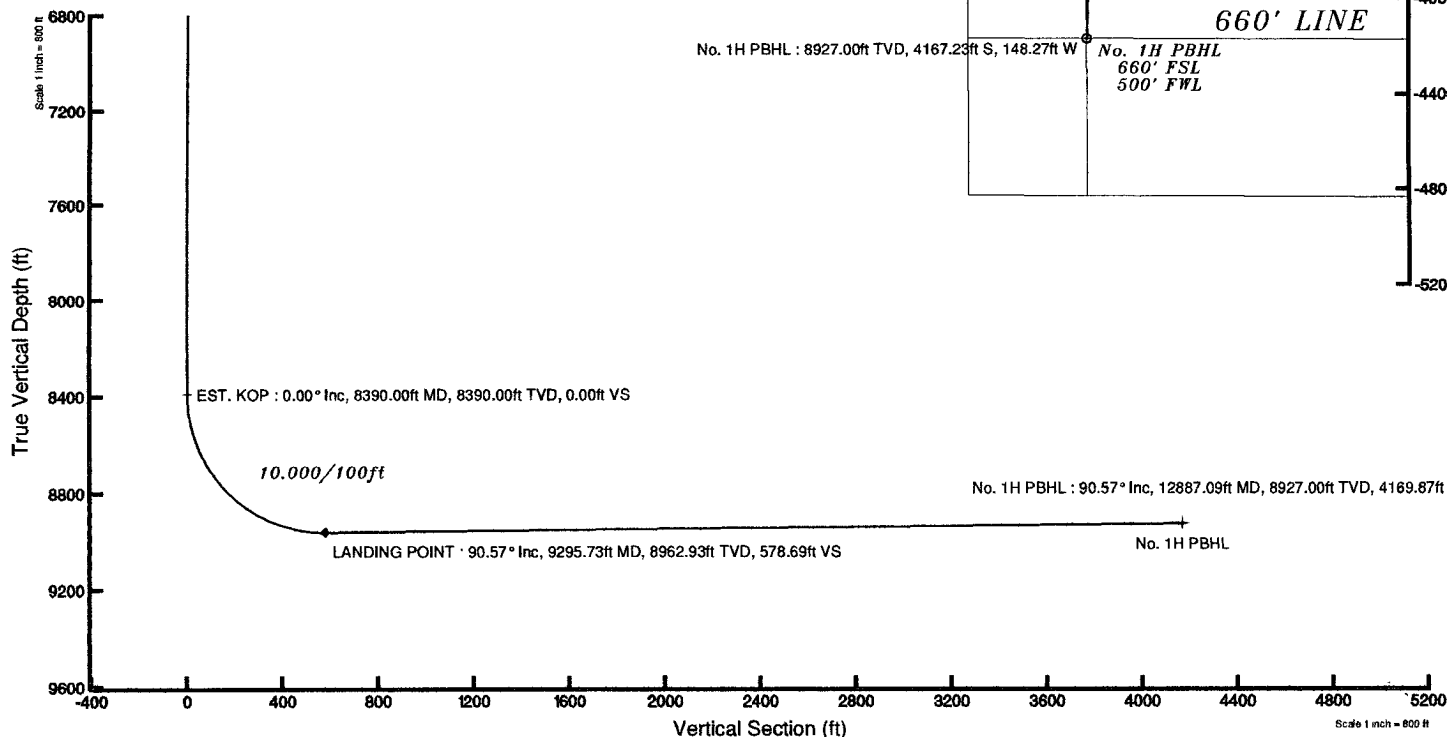
To correct azimuth from True to Grid subtract 0.56 degrees
To correct azimuth from Magnetic to Grid add 7.10 degrees

For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.10 = 97.10

No. 1H PBHL : 8927.00ft TVD, 4167.23ft S, 148.27ft W

No. 1H PBHL
660' FSL
500' FWL

660' LINE



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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Mako) Sec 8, T17S, R35E	Wellbore	No. 1H PWB
Facility	Mako 8 State Com No. 1H		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	1.00003	Report Generated	12/31/2009 at 11:08:33 AM
Convergence at slot	0.56° East	Database/Source file	WA_Midland/No._1H_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	826839.14	461968.40	32°15'56.311"N	103°16'33.462"W
Facility Reference Pt			826839.14	461968.40	32°15'56.311"N	103°16'33.462"W
Field Reference Pt			826839.14	461968.40	32°15'56.311"N	103°16'33.462"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (RT) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (RT) to Mean Sea Level	3412.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	182.04°

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Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (48 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	182.038	0.00	0.00	0.00	0.00	0.00	Tie On
8390.00	0.000	182.038	8390.00	0.00	0.00	0.00	0.00	EST. KOP
8490.00†	10.000	182.038	8489.49	8.70	-8.70	-0.31	10.00	
8590.00†	20.000	182.038	8585.96	34.55	-34.53	-1.23	10.00	
8690.00†	30.000	182.038	8676.48	76.76	-76.71	-2.73	10.00	
8790.00†	40.000	182.038	8758.29	134.05	-133.96	-4.77	10.00	
8890.00†	50.000	182.038	8828.91	204.67	-204.54	-7.28	10.00	
8990.00†	60.000	182.038	8886.20	286.48	-286.30	-10.19	10.00	
9090.00†	70.000	182.038	8928.40	376.99	-376.76	-13.41	10.00	
9190.00†	80.000	182.038	8954.25	473.46	-473.17	-16.84	10.00	
9290.00†	90.000	182.038	8962.96	572.96	-572.60	-20.37	10.00	
9295.73	90.573	182.038	8962.93	578.69	-578.32	-20.58	10.00	LANDING POINT
9390.00†	90.573	182.038	8961.99	672.95	-672.53	-23.93	0.00	
9490.00†	90.573	182.038	8960.99	772.95	-772.46	-27.48	0.00	
9590.00†	90.573	182.038	8959.99	872.94	-872.39	-31.04	0.00	
9690.00†	90.573	182.038	8958.98	972.94	-972.32	-34.60	0.00	
9790.00†	90.573	182.038	8957.98	1072.93	-1072.25	-38.15	0.00	
9890.00†	90.573	182.038	8956.98	1172.93	-1172.19	-41.71	0.00	
9990.00†	90.573	182.038	8955.98	1272.92	-1272.12	-45.26	0.00	
10090.00†	90.573	182.038	8954.98	1372.92	-1372.05	-48.82	0.00	
10190.00†	90.573	182.038	8953.98	1472.91	-1471.98	-52.37	0.00	
10290.00†	90.573	182.038	8952.98	1572.91	-1571.91	-55.93	0.00	
10390.00†	90.573	182.038	8951.98	1672.90	-1671.84	-59.49	0.00	
10490.00†	90.573	182.038	8950.98	1772.90	-1771.78	-63.04	0.00	
10590.00†	90.573	182.038	8949.98	1872.89	-1871.71	-66.60	0.00	
10690.00†	90.573	182.038	8948.98	1972.89	-1971.64	-70.15	0.00	
10790.00†	90.573	182.038	8947.98	2072.88	-2071.57	-73.71	0.00	
10890.00†	90.573	182.038	8946.98	2172.88	-2171.50	-77.26	0.00	
10990.00†	90.573	182.038	8945.98	2272.87	-2271.44	-80.82	0.00	
11090.00†	90.573	182.038	8944.98	2372.87	-2371.37	-84.38	0.00	

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REFERENCE WELLPATH IDENTIFICATION

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Area	Lea County, NM	Well	No. 1H
Field	(Mako) Sec 8, T17S, R35E	Wellbore	No. 1H PWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (48 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
11190.00†	90.573	182.038	8943.98	2472.86	-2471.30	-87.93	0.00	
11290.00†	90.573	182.038	8942.98	2572.86	-2571.23	-91.49	0.00	
11390.00†	90.573	182.038	8941.98	2672.85	-2671.16	-95.04	0.00	
11490.00†	90.573	182.038	8940.98	2772.85	-2771.09	-98.60	0.00	
11590.00†	90.573	182.038	8939.98	2872.84	-2871.03	-102.15	0.00	
11690.00†	90.573	182.038	8938.98	2972.84	-2970.96	-105.71	0.00	
11790.00†	90.573	182.038	8937.98	3072.83	-3070.89	-109.26	0.00	
11890.00†	90.573	182.038	8936.98	3172.83	-3170.82	-112.82	0.00	
11990.00†	90.573	182.038	8935.97	3272.82	-3270.75	-116.38	0.00	
12090.00†	90.573	182.038	8934.97	3372.82	-3370.68	-119.93	0.00	
12190.00†	90.573	182.038	8933.97	3472.81	-3470.62	-123.49	0.00	
12290.00†	90.573	182.038	8932.97	3572.81	-3570.55	-127.04	0.00	
12390.00†	90.573	182.038	8931.97	3672.80	-3670.48	-130.60	0.00	
12490.00†	90.573	182.038	8930.97	3772.80	-3770.41	-134.15	0.00	
12590.00†	90.573	182.038	8929.97	3872.79	-3870.34	-137.71	0.00	
12690.00†	90.573	182.038	8928.97	3972.79	-3970.28	-141.27	0.00	
12790.00†	90.573	182.038	8927.97	4072.78	-4070.21	-144.82	0.00	
12887.09	90.573	182.038	8927.00 ¹	4169.87	-4167.23	-148.27	0.00	No. 1H PBHL

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Facility	Mako 8 State Com No. 1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	12887.09	8927.00	-4167.23	-148.27	826690.86	457801.05	32°15'15.091"N	103°16'35.666"W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Prelim_1 REV 1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	12887.09	NaviTrak (Standard)		No. 1H PWB