

Results of Directional Survey

API number:	30-025-39632		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MAKO 8 STATE COM # 1H

surface	ULSTR:	D	08	T 17S	R 35E
			460 FNL	660 FWL	

BH Loc	ULSTR:	M	08	T 17S	R 35E
			4618 FNL	581 FWL	

Top Perf/OH	ULSTR:	D	08	T 17S	R 35E
	9360		1172 FNL	594 FWL	

Bot Perf/OH	ULSTR:	M	08	T 17S	R 35E
	12810		4618 FNL	581 FWL	

	MD	N/S	E/W	VD
	9298	-649.82	-63.36	8941.41
TOP PERFS/OH	9360	-711.53	-66.43	8946.49
	9366	-717.50	-66.73	8946.98
	12735	-4082.82	-78.63	8926.87
BOT PERFS/OH	12810	-4157.75	-78.96	8924.07
	12758	-4105.80	-78.73	8926.01

NEXT TO LAST	12735	-4082.82	-78.63	8926.87
LAST READING	12758	-4105.80	-78.73	8926.01
TD	12810	-4157.75	-78.96	8924.07

Surface Location	460 FN	660 FW
Projected BHL	4618 FN	581 FW
Location of		
Top Perfs/OH	1172 FN	594 FW
Bottom Perfs/OH	4618 FN	581 FW

SUMMARY of Subsurface Locations

Surface Location	D-08-17S-35E	460 FN	660 FW	Vert. Depth
Top Perfs/OH	D-08-17S-35E	1172 FN	594 FW	8946.49
Bottom Perfs/OH	M-08-17S-35E	4618 FN	581 FW	8924.07
Projected TD	M-08-17S-35E	4618 FN	581 FW	8924.07

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE
MAKO 8 ST COM # 1H
LEA CO.

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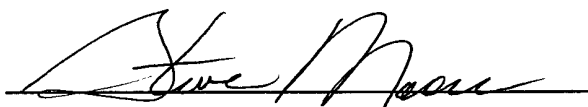
STATE OF NEW MEXICO
DEVIATION REPORT

262	1.25
406	0.78
679	0.63
1,122	1.03
1,565	1.23
1,930	0.64
2,213	0.32
2,530	0.90
2,848	0.58
3,261	0.50
3,674	0.35
4,053	0.12
4,498	0.29
4,947	0.60
5,452	0.81
5,960	0.15
6,469	0.73
6,883	0.25
7,329	0.45
7,842	0.62

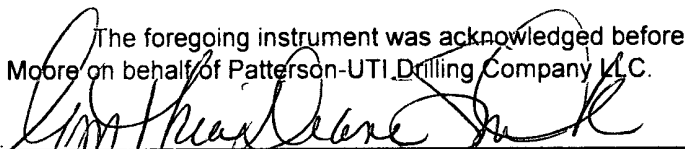
SUR: D-08-17s-35e, 460/N & 660/W
BHL: M-08-17s-35e, 4618/N & 581/W
API # 30-025-30732

STATE OF TEXAS

COUNTY OF MIDLAND

BY: 

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LLC.


Notary Public for Midland County, Texas

My Commission Expires: 11/06/10

May 21, 2010, by Steve

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BY:

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A Gyrodata Directional Survey.

for

MEWBOURNE OIL CO.

SUR: D-08-17s-35e, 460/N & 660/W
BHL: M-08-17s-35e, 4618/N & 581/W
API # 30-025-30732

Location: Patterson 45, Lea County, New Mexico,
Lease: Mako 8 St. Com Well: # 1H, 4-1/2" Drilpipe

Job Number: MD0410GVC188

Run Date: 16 Apr 2010

Surveyor: Will Norman

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Directional Drilling Company
Survey Latitude: 32.265642 deg. N Longitude: 103.275962 deg. W

Azimuth Correction:

Gyro: -2.04000 deg to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

Mewbourne Oil Co.

Location: Patterson 45, Lea County, New Mexico

Lease: Mako 8 St. Com Well: # 1H, 4-1/2" Drilpipe

Job Number: MD0410GVC188

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLE SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N 0.00 E

0-8228FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE
ALL MEASURED DEPTHS AND COORDINATES ARE REFERENCED TO PATTERSON 45 R.K.B OF 17FT

100.00	0.19	27.16	0.19	100.00	0.2	27.2	0.15 N 0.08 E
200.00	0.63	100.99	0.61	200.00	0.7	74.2	0.20 N 0.70 E
300.00	0.90	128.15	0.44	299.99	1.9	101.9	0.39 S 1.85 E
400.00	0.83	144.07	0.25	399.98	3.2	116.8	1.46 S 2.89 E
500.00	0.84	151.77	0.11	499.97	4.5	126.3	2.69 S 3.66 E
600.00	0.76	154.81	0.09	599.96	5.8	132.6	3.94 S 4.29 E
700.00	0.42	169.95	0.37	699.95	6.7	136.6	4.90 S 4.64 E
800.00	0.43	206.46	0.27	799.95	7.2	141.0	5.60 S 4.54 E
900.00	0.51	181.93	0.22	899.95	7.7	145.7	6.38 S 4.35 E
1000.00	0.52	218.67	0.32	999.94	8.2	150.5	7.18 S 4.06 E
1100.00	0.59	221.12	0.08	1099.94	8.6	156.5	7.91 S 3.44 E
1200.00	0.66	230.93	0.13	1199.93	9.1	163.0	8.66 S 2.66 E
1300.00	0.79	237.54	0.16	1299.92	9.5	170.2	9.40 S 1.63 E
1400.00	0.82	234.88	0.05	1399.91	10.2	177.4	10.18 S 0.46 E
1500.00	0.83	235.61	0.01	1499.90	11.0	183.8	11.00 S 0.73 W
1600.00	0.91	243.46	0.14	1599.89	11.9	189.8	11.77 S 2.04 W
1700.00	0.85	246.02	0.07	1699.88	12.9	195.4	12.42 S 3.43 W

A Gyrodata Directional Survey

Mewbourne Oil Co.

Location: Patterson 45, Lea County, New Mexico

Lease: Mako 8 St. Com Well: # 1H, 4-1/2" Drilpipe

Job Number: MD0410GVC188

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
1800.00	0.90	240.63	0.10	1799.87	14.0 200.1	13.11 S 4.79 W
1900.00	0.68	240.12	0.22	1899.86	15.0 203.5	13.79 S 5.99 W
2000.00	0.33	229.15	0.37	1999.85	15.8 205.2	14.27 S 6.72 W
2100.00	0.29	233.58	0.05	2099.85	16.3 206.0	14.61 S 7.14 W
2200.00	0.23	187.13	0.21	2199.85	16.7 206.2	14.96 S 7.37 W
2300.00	0.25	190.51	0.02	2299.85	17.1 205.8	15.38 S 7.43 W
2400.00	0.23	172.55	0.08	2399.85	17.5 205.2	15.80 S 7.45 W
2500.00	0.18	141.05	0.12	2499.85	17.7 204.4	16.12 S 7.32 W
2600.00	0.21	135.99	0.03	2599.85	17.8 203.4	16.38 S 7.09 W
2700.00	0.30	126.78	0.10	2699.85	18.0 202.1	16.67 S 6.76 W
2800.00	0.44	114.28	0.17	2799.85	18.1 200.0	16.96 S 6.19 W
2900.00	0.64	101.93	0.21	2899.84	18.0 197.1	17.22 S 5.28 W
3000.00	0.72	93.20	0.13	2999.83	17.8 193.3	17.37 S 4.11 W
3100.00	0.74	89.42	0.05	3099.83	17.6 189.3	17.40 S 2.84 W
3200.00	0.75	81.08	0.11	3199.82	17.4 185.1	17.29 S 1.54 W
3300.00	0.31	82.56	0.44	3299.81	17.2 182.1	17.15 S 0.63 W
3400.00	0.14	79.03	0.17	3399.81	17.1 180.8	17.09 S 0.23 W
3500.00	0.14	210.27	0.26	3499.81	17.2 180.6	17.18 S 0.17 W
3600.00	0.12	196.47	0.04	3599.81	17.4 180.9	17.39 S 0.27 W
3700.00	0.17	223.35	0.08	3699.81	17.6 181.3	17.60 S 0.40 W
3800.00	0.29	213.27	0.13	3799.81	17.9 182.1	17.92 S 0.64 W
3900.00	0.26	214.97	0.03	3899.81	18.3 182.9	18.32 S 0.91 W
4000.00	0.21	220.78	0.05	3999.81	18.7 183.6	18.65 S 1.16 W

A Gyrodata Directional Survey

Mewbourne Oil Co.

Location: Patterson 45, Lea County, New Mexico

Lease: Mako 8 St. Com Well: # 1H, 4-1/2" Drilpipe

Job Number: MD0410GVC188

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4100.00	0.26	234.65	0.07	4099.81	19.0 184.4	18.92 S 1.47 W
4200.00	0.33	215.56	0.12	4199.81	19.4 185.4	19.29 S 1.83 W
4300.00	0.21	202.00	0.14	4299.81	19.8 186.0	19.70 S 2.06 W
4400.00	0.08	253.19	0.17	4399.81	20.0 186.3	19.89 S 2.20 W
4500.00	0.27	286.85	0.21	4499.81	20.0 187.2	19.84 S 2.49 W
4600.00	0.37	288.26	0.10	4599.80	19.9 188.7	19.67 S 3.02 W
4700.00	0.36	296.04	0.05	4699.80	19.8 190.5	19.44 S 3.61 W
4800.00	0.43	295.06	0.07	4799.80	19.6 192.5	19.14 S 4.23 W
4900.00	0.45	278.70	0.13	4899.80	19.6 194.7	18.92 S 4.96 W
5000.00	0.40	259.74	0.15	4999.79	19.8 196.7	18.92 S 5.69 W
5100.00	0.31	267.31	0.10	5099.79	20.0 198.3	19.00 S 6.29 W
5200.00	0.45	261.97	0.14	5199.79	20.3 200.0	19.06 S 6.94 W
5300.00	0.44	271.71	0.08	5299.79	20.6 202.0	19.11 S 7.72 W
5400.00	0.60	293.89	0.25	5399.78	20.7 204.4	18.88 S 8.58 W
5500.00	0.67	275.28	0.22	5499.78	21.0 207.4	18.62 S 9.64 W
5600.00	0.56	278.45	0.11	5599.77	21.4 210.1	18.49 S 10.70 W
5700.00	0.57	291.21	0.13	5699.77	21.6 212.6	18.24 S 11.65 W
5800.00	0.51	281.69	0.11	5799.76	21.9 214.9	17.97 S 12.56 W
5900.00	0.39	269.20	0.16	5899.76	22.3 216.7	17.88 S 13.33 W
6000.00	0.46	282.74	0.12	5999.76	22.7 218.3	17.80 S 14.07 W
6100.00	0.52	281.64	0.05	6099.75	23.1 220.2	17.62 S 14.90 W
6200.00	0.38	267.34	0.18	6199.75	23.5 221.8	17.54 S 15.67 W

A Gyrodata Directional Survey

Mewbourne Oil Co.

Location: Patterson 45, Lea County, New Mexico

Lease: Mako 8 St. Com Well: # 1H, 4-1/2" Drilpipe

Job Number: MD0410GVC188

MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6300.00	0.25	288.16	0.17	6299.75	23.9 222.8	17.49 S 16.21 W
6400.00	0.33	302.09	0.10	6399.75	24.0 224.0	17.27 S 16.67 W
6500.00	0.35	281.99	0.12	6499.74	24.2 225.3	17.05 S 17.21 W
6600.00	0.14	272.84	0.21	6599.74	24.5 226.1	16.98 S 17.64 W
6700.00	0.13	256.03	0.04	6699.74	24.7 226.4	17.00 S 17.87 W
6800.00	0.11	275.73	0.05	6799.74	24.8 226.7	17.02 S 18.08 W
6900.00	0.24	254.95	0.15	6899.74	25.1 227.1	17.07 S 18.38 W
7000.00	0.21	233.77	0.09	6999.74	25.5 227.4	17.23 S 18.74 W
7100.00	0.19	261.28	0.10	7099.74	25.8 227.6	17.37 S 19.05 W
7200.00	0.48	237.18	0.32	7199.74	26.3 228.0	17.62 S 19.56 W
7300.00	0.38	211.42	0.21	7299.74	27.1 227.9	18.13 S 20.09 W
7400.00	0.41	217.42	0.05	7399.73	27.7 227.6	18.70 S 20.48 W
7500.00	0.36	209.92	0.07	7499.73	28.4 227.3	19.25 S 20.85 W
7600.00	0.49	202.79	0.15	7599.73	29.1 226.7	19.92 S 21.17 W
7700.00	0.59	210.62	0.12	7699.72	30.0 226.1	20.76 S 21.60 W
7800.00	0.52	223.94	0.14	7799.72	30.9 225.8	21.53 S 22.18 W
7900.00	0.47	249.41	0.22	7899.72	31.7 226.1	22.00 S 22.88 W
8000.00	0.46	258.61	0.08	7999.71	32.5 226.8	22.23 S 23.66 W
8100.00	0.47	257.28	0.02	8099.71	33.2 227.5	22.40 S 24.45 W
8200.00	0.65	249.44	0.20	8199.70	34.0 228.2	22.69 S 25.38 W
8228.00	0.47	239.66	0.72	8227.70	34.3 228.3	22.80 S 25.63 W

Final Station Closure: Distance: 34.30 ft Az: 228.34 deg.

Packers Plus		Do It Once Do It Right	Confidential Information - not to be disclosed outside Mewbourne Oil Company	Final Completion
Prepared for Mr. Mickey Young	Company Mewbourne Oil Company	Date 5-May-10		
Well name Mako 8 State Com 1H	Type of installation 15-Stage 4-1/2" StackFRAC® HD	Location Eddy County, NM		
Depth	Drawing	Description	OD (in)	ID (in)
			Page 1 of 2	
REV 2 TVD KOP	8924 8356			
9129.4 350 BBLs		***Drillable FracPORT's to be shipped without handling pups*** Latched Seal Assembly 7" 23-32 ppi x 3.750" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000001 (2 shear pins at 528 each; 1,058psi setting pressure) SF Bottom Guide 3' x 4-1/2" 11 6# P-110 LTC Pup Joint 7" 26# P-110 LT&C Casing	5.875"	4.750
9360		4-1/2" 11.60# P-110 LTC LINER JOINTS:	4.500"	4.000
Stage 15 9409.64 354 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 108482-000060 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	3.375
9509			4.500"	4.000
Stage 14 9551.10 358 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 108482-000059 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	3.250
9751.8			4.500"	4.000
Stage 13 9853.15 361 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 108482-000058 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	3.125
10001.3			4.500"	4.000
Stage 12 10109.07 365 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 108482-000057 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	3.000
10235.26			4.500"	4.000
Stage 11 10334.04 369 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 108482-000056 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	2.875
10474.14			4.500"	4.000
Stage 10 10574.58 372 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 108482-000055 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	2.750
10721.4			4.500"	4.000
Stage 9 10821.86 376 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 108482-000054 (5 shear pins at 315 psi each; 1,575 psi opening pressure) 4-1/2" 11.60# P-110 LTC LINER JOINTS: 6' x 4-1/2" 11.6# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure) 3' x 4-1/2" 11.6# P-110 LTC Pup Joint 4-1/2" 11.60# P-110 LTC LINER JOINTS:	5.630"	2.625
10822.61			4.500"	4.000
Service Center Midland, TX			Telephone 432-563-8024	Contact Keith Martin
			Telephone Chad Williams 405-255-3223	

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 HUBBARD

Packers Plus		Do It Once. Do It Right.		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Completion	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 5-May-10			
Well Name Mako 8 State Com 1H		Type of Installation 15-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
REV 2						Page 2 of 2	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	138.13	
Stage 8 11069.02 380 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 108482-000053 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	2 500"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	88.87	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 03	
11166.62		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 24	
		3' x 4-1/2" 11.6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 09	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	138.22	
Stage 7 11313.77 384 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 108482-000052 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	2 375"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	133.47	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 06	
11455.35		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 23	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 08	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	139.38	
Stage 6 11603.04 388 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 108482-000051 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	2 250"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	131.58	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 05	
11743.32		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 23	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 08	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	92.13	
Stage 5 11843.75 392 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 108482-000050 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	2 125"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	92.26	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 07	
11944.74		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 23	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 07	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	128.72	
Stage 4 12081.76 396 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball PN: 108482-000049 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	2 000"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	119.97	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 08	
12210.46		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 24	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 04	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	120.02	
Stage 3 12338.76 400 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball PN: 108482-000048 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	1 875"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	86.17	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 08	
12433.66		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 25	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 06	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	80.05	
Stage 2 12522.02 403 BBLs		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball PN: 108482-000047 (5 shear pins at 315 psi each; 1,575 psi opening pressure)	JOINTS:	5 630"	1 750"	2 65	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	80.14	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 06	
12610.87		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 102188-000003 (6 shear pins at 324 psi each; 1,950 psi setting pressure)	JOINTS:	5 750"	3 750"	5 23	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 07	
		4-1/2" 11.60# P-110 LTC LINER	JOINTS:	4 500"	4 000"	119.97	
Stage 1 12745.22 406 BBLs		Packers Plus 4-1/2" Dual Hydraulic FracPORT™ Centralized PN: 105900-000002 (10 pins at 391 psi each; 3,910 psi Upper) / (7 pins at 630 psi each; 4,410 psi Lower)	JOINTS:	5 630"	3 750"	4 34	
		3' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	3 08	
		6' x 4-1/2" 11 6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 1	
12758.74		Packers Plus 4-1/2" Toe Circulating Sub w/ 1.00" Seat for 1.25" High Pressure Ball PN: 103039-000011 (3 pins at 366 psi each; 1,098 psi closing pressure)	JOINTS:	5 500"	NA	2 73	
		4-1/2" LTC Single Valve Float Collar PN: 104733	JOINTS:	5 000"	NA	1 34	
		6' x 4-1/2" 11.6# P-110 LTC Pup Joint	JOINTS:	4 500"	4 000"	6 1	
12771		4-1/2" LTC Single Valve Float Collar PN: 104733	JOINTS:	5 000"	NA	1 34	
		4-1/2" LTC Guide Shoe PN: 104818-000002	JOINTS:	5 500"	2 250"	0 75	
Service Center Midland, TX		Telephone 432-563-8024	Contact Keith Martin	Telephone Chad Williams 405-255-3223			



Mewbourne Oil Company

Mewbourne Oil Company

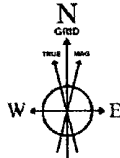
Location: Lea County, NM
Field: (Mako) Sec 8, T17S, R35E
Facility: Mako 8 State Com No. 1H

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



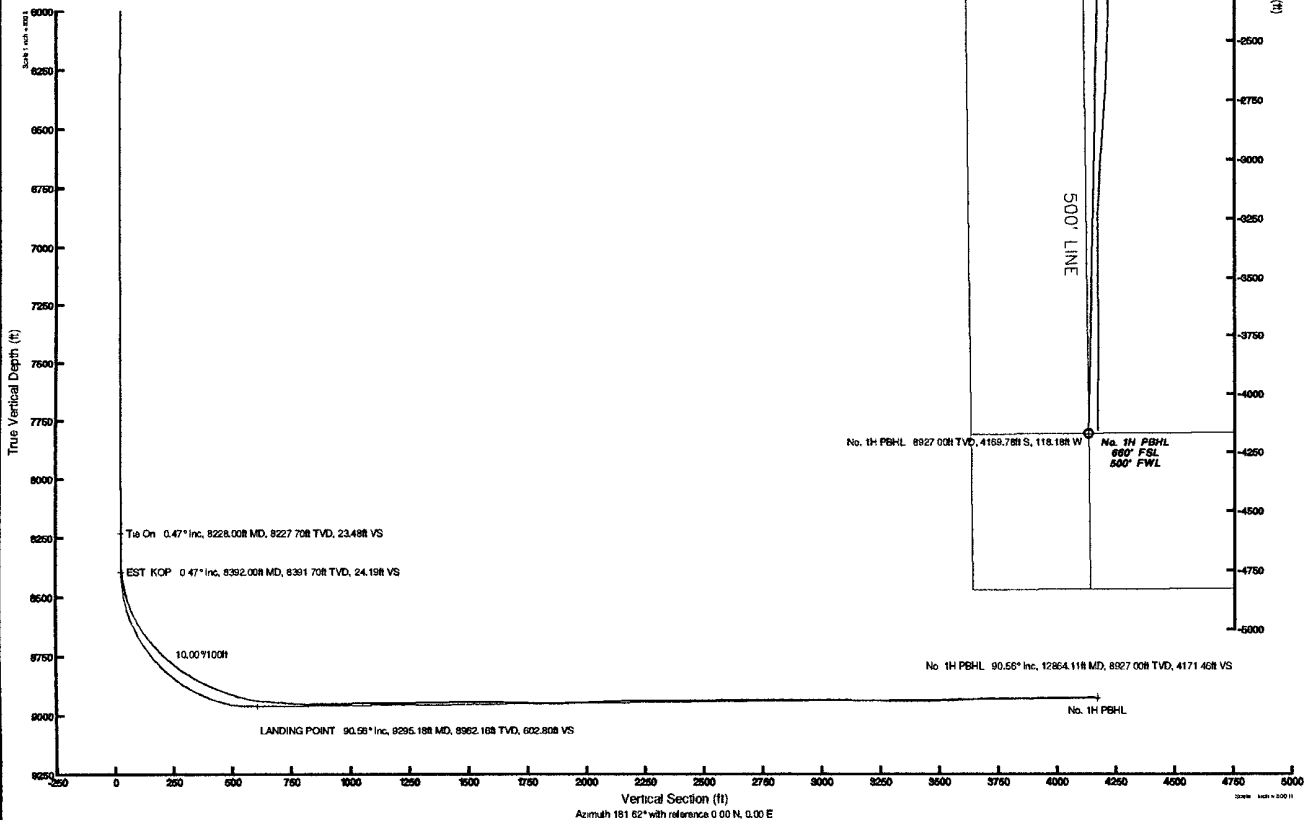
Well Profile Data							
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	VS (ft)
Tie On	8228.00	0.470	239.680	8227.70	-22.76	-25.63	23.48
EST. KOP	8392.00	0.470	239.660	8391.70	-23.44	-26.79	24.19
LANDING POINT	9295.18	90.564	181.207	8962.16	-601.83	-43.01	602.80
No. 1H PBHL	12864.11	90.564	181.207	8927.00	-4169.78	-118.18	4171.46

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BGGM (1945 0 to 2011 0) Dip: 60.84° Field: 49187.9 nT
Magnetic North is 7.77 degrees East of True North (at 4/16/2010)
Grid North is 0.46 degrees East of True North
To correct azimuth from True to Grid subtract 0.46 degrees
To correct azimuth from Magnetic to Grid add 7.31 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.31 = 97.31

Plot reference well path vs Plan #1 vs Actual <FINAL>	
True vertical depths are referenced to Fig on No. 1H SHL (RT)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Fig on No. 1H SHL (RT)	North Reference: Grid north
Fig on No. 1H SHL (RT) to Mean Sea Level 4012 feet	Scale: True distance
Mean Sea Level to Mud Line (Facility: Mako 8 State Com No. 1H) -3694 feet	Depths are in feet
Coordinates are in feet referenced to Sict	Created by: Victor Hernandez on 5/3/2010



Actual Wellpath Report

No. 1H AWP

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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 AWB
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	0.999987	Report Generated	5/3/2010 at 9:04:10 AM
Convergence at slot	0.46° East	Database/Source file	WA_Midland/No. 1H_AWB.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	760229.25	675992.54	32°51'19.862"N	103°29'09.312"W
Facility Reference Pt			760229.25	675992.54	32°51'19.862"N	103°29'09.312"W
Field Reference Pt			760229.25	675992.54	32°51'19.862"N	103°29'09.312"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	4012.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	181.62°

Actual Wellpath Report

No. 1H AWP

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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 AWP
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
0.00	0.000	27.160	0.00	0.00	0.00	0.00	0.00
100.00	0.190	27.160	100.00	-0.15	0.15	0.08	0.19
200.00	0.630	100.990	200.00	-0.21	0.19	0.69	0.61
300.00	0.900	128.150	299.99	0.35	-0.40	1.85	0.44
400.00	0.830	144.070	399.98	1.39	-1.47	2.89	0.25
500.00	0.840	151.770	499.97	2.60	-2.70	3.66	0.11
600.00	0.760	154.810	599.96	3.83	-3.95	4.29	0.09
700.00	0.420	169.950	699.95	4.78	-4.91	4.64	0.37
800.00	0.430	206.460	799.95	5.48	-5.61	4.53	0.27
900.00	0.510	181.930	899.95	6.26	-6.39	4.35	0.21
1000.00	0.520	218.670	999.94	7.07	-7.19	4.05	0.32
1100.00	0.590	221.120	1099.94	7.83	-7.93	3.43	0.07
1200.00	0.660	230.930	1199.93	8.60	-8.68	2.65	0.13
1300.00	0.790	237.540	1299.92	9.36	-9.41	1.62	0.15
1400.00	0.820	234.880	1399.91	10.18	-10.19	0.45	0.05
1500.00	0.830	235.610	1499.90	11.03	-11.02	-0.73	0.01
1600.00	0.910	243.460	1599.89	11.83	-11.78	-2.04	0.14
1700.00	0.850	246.020	1699.88	12.53	-12.44	-3.43	0.07
1800.00	0.900	240.630	1799.87	13.25	-13.12	-4.79	0.10
1900.00	0.680	240.120	1899.86	13.97	-13.80	-5.99	0.22
2000.00	0.330	229.150	1999.85	14.47	-14.29	-6.72	0.36
2100.00	0.290	233.580	2099.85	14.82	-14.63	-7.14	0.05
2200.00	0.230	187.130	2199.85	15.18	-14.98	-7.37	0.21
2300.00	0.250	190.510	2299.85	15.59	-15.39	-7.44	0.02
2400.00	0.230	172.550	2399.85	16.01	-15.80	-7.45	0.08
2500.00	0.180	141.050	2499.85	16.32	-16.12	-7.33	0.12
2600.00	0.210	135.990	2599.85	16.57	-16.38	-7.10	0.03
2700.00	0.300	126.780	2699.85	16.85	-16.67	-6.76	0.10
2800.00	0.440	111.280	2799.85	17.13	-16.96	-6.20	0.17
2900.00	0.640	101.930	2899.84	17.36	-17.22	-5.29	0.22

Actual Wellpath Report

No. 1H AWP

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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 AWP
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
3000.00	0.720	93.200	2999.83	17.48	-17.37	-4.12	0.13
3100.00	0.740	89.420	3099.83	17.47	-17.40	-2.84	0.05
3200.00	0.750	81.080	3199.82	17.33	-17.29	-1.55	0.11
3300.00	0.310	82.560	3299.81	17.16	-17.15	-0.64	0.44
3400.00	0.140	79.030	3399.81	17.09	-17.09	-0.25	0.17
3500.00	0.140	210.270	3499.81	17.17	-17.18	-0.19	0.26
3600.00	0.120	196.470	3599.81	17.38	-17.38	-0.28	0.04
3700.00	0.170	223.350	3699.81	17.59	-17.59	-0.41	0.08
3800.00	0.290	213.270	3799.81	17.92	-17.91	-0.65	0.13
3900.00	0.260	214.970	3899.81	18.33	-18.31	-0.92	0.03
4000.00	0.210	220.780	3999.81	18.66	-18.63	-1.17	0.06
4100.00	0.260	234.650	4099.81	18.94	-18.90	-1.48	0.08
4200.00	0.330	215.560	4199.81	19.31	-19.27	-1.83	0.12
4300.00	0.210	202.000	4299.81	19.72	-19.67	-2.07	0.14
4400.00	0.080	253.190	4399.81	19.92	-19.86	-2.20	0.17
4500.00	0.270	286.850	4499.81	19.88	-19.81	-2.49	0.21
4600.00	0.370	288.260	4599.80	19.72	-19.64	-3.03	0.10
4700.00	0.360	296.040	4699.80	19.50	-19.40	-3.62	0.05
4800.00	0.430	295.060	4799.80	19.22	-19.11	-4.24	0.07
4900.00	0.450	278.700	4899.80	19.02	-18.89	-4.97	0.13
5000.00	0.400	259.740	4999.79	19.05	-18.89	-5.70	0.15
5100.00	0.310	267.310	5099.79	19.14	-18.97	-6.31	0.10
5200.00	0.450	261.970	5199.79	19.22	-19.03	-6.97	0.14
5300.00	0.440	271.710	5299.79	19.29	-19.08	-7.74	0.08
5400.00	0.600	293.890	5399.78	19.09	-18.85	-8.61	0.25
5500.00	0.670	275.280	5499.78	18.86	-18.59	-9.67	0.22
5600.00	0.560	278.450	5599.77	18.76	-18.46	-10.73	0.12
5700.00	0.570	291.210	5699.77	18.54	-18.21	-11.68	0.13
5800.00	0.510	281.690	5799.76	18.29	-17.94	-12.58	0.11
5900.00	0.390	269.200	5899.76	18.23	-17.86	-13.35	0.15

Actual Wellpath Report

No. 1H AWP

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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 AWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
6000.00	0.460	282.740	5999.76	18.16	-17.77	-14.09	0.12
6100.00	0.520	281.640	6099.75	18.01	-17.59	-14.92	0.06
6200.00	0.380	267.340	6199.75	17.95	-17.52	-15.70	0.18
6300.00	0.250	288.160	6299.75	17.92	-17.46	-16.24	0.17
6400.00	0.330	302.090	6399.75	17.71	-17.24	-16.69	0.11
6500.00	0.350	281.990	6499.74	17.51	-17.03	-17.23	0.12
6600.00	0.140	272.840	6599.74	17.45	-16.96	-17.65	0.21
6700.00	0.130	256.030	6699.74	17.48	-16.98	-17.88	0.04
6800.00	0.110	275.730	6799.74	17.50	-17.00	-18.09	0.05
6900.00	0.240	254.950	6899.74	17.55	-17.04	-18.39	0.14
7000.00	0.210	233.770	6999.74	17.73	-17.20	-18.74	0.09
7100.00	0.190	261.280	7099.74	17.87	-17.34	-19.05	0.10
7200.00	0.480	237.180	7199.74	18.14	-17.59	-19.56	0.32
7300.00	0.380	211.420	7299.74	18.66	-18.10	-20.09	0.22
7400.00	0.410	217.420	7399.73	19.24	-18.67	-20.48	0.05
7500.00	0.360	209.920	7499.73	19.81	-19.22	-20.85	0.07
7600.00	0.490	202.790	7599.73	20.48	-19.89	-21.18	0.14
7700.00	0.590	210.620	7699.72	21.33	-20.73	-21.60	0.12
7800.00	0.520	223.940	7799.72	22.12	-21.50	-22.18	0.15
7900.00	0.470	249.410	7899.72	22.61	-21.97	-22.88	0.22
8000.00	0.460	258.610	7999.71	22.85	-22.19	-23.66	0.08
8100.00	0.470	257.280	8099.71	23.04	-22.36	-24.45	0.01
8200.00	0.650	249.440	8199.71	23.36	-22.65	-25.38	0.20
8228.00	0.470	239.660	8227.70	23.48	-22.76	-25.63	0.73
8293.00	0.700	255.200	8292.70	23.73	-23.00	-26.24	0.43
8300.00	0.800	262.600	8299.70	23.75	-23.02	-26.33	1.99
8331.00	0.800	261.500	8330.70	23.83	-23.08	-26.76	0.05
8362.00	2.400	214.800	8361.68	24.41	-23.64	-27.35	6.26
8395.00	5.100	207.500	8394.61	26.31	-25.51	-28.42	8.29
8427.00	8.100	202.600	8426.40	29.69	-28.85	-29.94	9.53

Actual Wellpath Report

No. 1H AWP

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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 AWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
8459.00	11.900	200.500	8457.90	34.92	-34.03	-31.96	11.93
8491.00	15.700	196.700	8488.98	42.22	-41.27	-34.37	12.20
8522.00	19.100	195.300	8518.55	51.21	-50.18	-36.91	11.05
8553.00	22.500	192.500	8547.53	61.96	-60.87	-39.53	11.42
8586.00	25.800	189.800	8577.64	75.28	-74.11	-42.12	10.54
8618.00	28.700	187.900	8606.08	89.81	-88.59	-44.36	9.46
8650.00	32.300	186.800	8633.65	105.97	-104.69	-46.43	11.38
8682.00	36.100	185.300	8660.11	123.90	-122.58	-48.32	12.16
8714.00	39.200	184.500	8685.45	143.41	-142.05	-49.98	9.81
8745.00	41.800	184.100	8709.02	163.52	-162.12	-51.49	8.43
8777.00	44.800	183.400	8732.30	185.45	-184.02	-52.92	9.49
8809.00	47.400	182.600	8754.49	208.49	-207.04	-54.12	8.32
8841.00	50.400	181.700	8775.52	232.60	-231.14	-55.02	9.61
8873.00	53.600	180.600	8795.22	257.82	-256.35	-55.52	10.36
8904.00	56.300	180.300	8813.02	283.19	-281.72	-55.72	8.75
8936.00	59.000	180.600	8830.15	310.21	-308.75	-55.94	8.47
8968.00	61.500	180.800	8846.02	337.99	-336.53	-56.28	7.83
9000.00	63.600	180.800	8860.77	366.38	-364.92	-56.67	6.56
9032.00	65.600	180.600	8874.50	395.28	-393.82	-57.03	6.28
9063.00	67.500	180.900	8886.83	423.72	-422.26	-57.40	6.19
9096.00	70.200	180.700	8898.74	454.49	-453.03	-57.83	8.20
9127.00	73.000	180.600	8908.52	483.90	-482.44	-58.16	9.04
9159.00	74.700	181.200	8917.43	514.63	-513.17	-58.64	5.61
9189.00	77.100	181.400	8924.73	543.72	-542.26	-59.30	8.03
9220.00	79.600	181.800	8930.99	574.08	-572.61	-60.15	8.16
9251.00	82.100	182.400	8935.92	604.68	-603.19	-61.27	8.29
9283.00	83.700	182.600	8939.88	636.43	-634.91	-62.66	5.04
9298.00	84.600	182.800	8941.41	651.35	-649.82	-63.36	6.14
9366.00	86.000	182.900	8946.98	719.11	-717.50	-66.73	2.06
9398.00	86.200	182.100	8949.15	751.03	-749.40	-68.13	2.57

Actual Wellpath Report

No. 1H AWP

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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 AWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
9429.00	87.300	182.000	8950.91	781.98	-780.33	-69.23	3.56
9461.00	89.900	181.000	8951.69	813.97	-812.31	-70.07	8.70
9493.00	91.500	181.600	8951.30	845.96	-844.29	-70.80	5.34
9524.00	91.300	180.300	8950.55	876.95	-875.28	-71.31	4.24
9556.00	90.900	179.200	8949.93	908.93	-907.27	-71.17	3.66
9588.00	90.400	178.600	8949.57	940.89	-939.27	-70.56	2.44
9619.00	90.400	178.500	8949.35	971.84	-970.25	-69.77	0.32
9652.00	90.500	178.800	8949.09	1004.80	-1003.24	-68.99	0.96
9683.00	91.000	178.200	8948.69	1035.75	-1034.23	-68.18	2.52
9716.00	90.300	178.200	8948.31	1068.69	-1067.21	-67.15	2.12
9748.00	90.000	177.500	8948.23	1100.62	-1099.19	-65.94	2.38
9779.00	90.000	177.800	8948.23	1131.54	-1130.16	-64.67	0.97
9811.00	89.900	177.500	8948.26	1163.46	-1162.14	-63.36	0.99
9843.00	90.600	178.800	8948.12	1195.40	-1194.12	-62.33	4.61
9874.00	91.300	179.500	8947.60	1226.37	-1225.11	-61.87	3.19
9907.00	91.500	179.900	8946.80	1259.34	-1258.10	-61.70	1.35
9939.00	91.200	179.800	8946.04	1291.32	-1290.09	-61.61	0.99
9971.00	91.200	179.400	8945.37	1323.29	-1322.08	-61.39	1.25
10002.00	90.700	179.300	8944.86	1354.26	-1353.08	-61.04	1.64
10034.00	91.000	179.400	8944.38	1386.23	-1385.07	-60.67	0.99
10066.00	91.500	178.400	8943.69	1418.19	-1417.06	-60.06	3.49
10098.00	91.300	178.500	8942.90	1450.13	-1449.04	-59.19	0.70
10130.00	91.200	177.700	8942.21	1482.06	-1481.01	-58.13	2.52
10162.00	90.100	176.800	8941.84	1513.97	-1512.97	-56.60	4.44
10194.00	89.000	175.400	8942.09	1545.82	-1544.89	-54.42	5.56
10226.00	89.000	175.600	8942.65	1577.63	-1576.79	-51.91	0.62
10258.00	89.000	174.800	8943.21	1609.42	-1608.67	-49.24	2.50
10290.00	89.000	175.200	8943.77	1641.20	-1640.55	-46.45	1.25
10322.00	88.300	174.700	8944.52	1672.98	-1672.41	-43.63	2.69
10354.00	88.500	174.000	8945.42	1704.71	-1704.25	-40.48	2.27

Actual Wellpath Report

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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 AWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
10385.00	88.600	175.000	8946.20	1735.46	-1735.09	-37.51	3.24
10417.00	89.400	176.700	8946.76	1767.29	-1767.00	-35.20	5.87
10449.00	89.500	176.900	8947.07	1799.17	-1798.95	-33.41	0.70
10481.00	89.300	177.300	8947.40	1831.07	-1830.91	-31.79	1.40
10513.00	90.500	177.600	8947.46	1862.99	-1862.88	-30.37	3.87
10545.00	91.400	178.200	8946.93	1894.92	-1894.85	-29.19	3.38
10576.00	91.200	180.200	8946.22	1925.88	-1925.84	-28.76	6.48
10608.00	91.800	181.400	8945.39	1957.86	-1957.82	-29.21	4.19
10640.00	91.700	181.200	8944.41	1989.85	-1989.80	-29.93	0.70
10671.00	92.000	181.100	8943.41	2020.83	-2020.78	-30.56	1.02
10702.00	92.200	180.500	8942.27	2051.81	-2051.75	-30.99	2.04
10734.00	92.300	180.500	8941.02	2083.78	-2083.73	-31.27	0.31
10766.00	91.800	181.000	8939.87	2115.75	-2115.70	-31.69	2.21
10798.00	91.500	181.300	8938.95	2147.74	-2147.68	-32.33	1.33
10830.00	91.200	180.700	8938.20	2179.73	-2179.67	-32.89	2.10
10861.00	91.500	180.700	8937.47	2210.71	-2210.66	-33.27	0.97
10893.00	90.800	181.000	8936.82	2242.70	-2242.65	-33.74	2.38
10925.00	90.500	179.800	8936.46	2274.69	-2274.64	-33.96	3.87
10957.00	89.800	178.900	8936.38	2306.67	-2306.64	-33.60	3.56
10988.00	89.700	179.700	8936.51	2337.64	-2337.64	-33.22	2.60
11020.00	90.100	180.400	8936.57	2369.63	-2369.64	-33.25	2.52
11051.00	89.800	181.500	8936.59	2400.63	-2400.63	-33.76	3.68
11083.00	90.100	182.400	8936.62	2432.63	-2432.61	-34.85	2.96
11115.00	90.300	182.200	8936.51	2464.62	-2464.59	-36.14	0.88
11147.00	90.300	182.100	8936.34	2496.62	-2496.57	-37.34	0.31
11179.00	90.800	182.700	8936.04	2528.62	-2528.54	-38.68	2.44
11211.00	90.800	182.200	8935.59	2560.61	-2560.50	-40.04	1.56
11242.00	90.700	181.600	8935.18	2591.61	-2591.48	-41.07	1.96
11274.00	90.800	182.100	8934.76	2623.60	-2623.46	-42.11	1.59
11306.00	90.700	182.400	8934.35	2655.60	-2655.44	-43.36	0.99

Actual Wellpath Report

No. 1H AWP

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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 AWB
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
11338.00	90.900	182.600	8933.90	2687.59	-2687.40	-44.76	0.88
11369.00	89.800	183.900	8933.71	2718.58	-2718.35	-46.51	5.49
11401.00	89.400	183.900	8933.93	2750.55	-2750.28	-48.69	1.25
11432.00	89.600	184.400	8934.20	2781.52	-2781.19	-50.93	1.74
11464.00	89.400	184.200	8934.48	2813.48	-2813.10	-53.33	0.88
11496.00	89.600	184.300	8934.76	2845.45	-2845.01	-55.71	0.70
11528.00	90.000	183.900	8934.87	2877.42	-2876.93	-57.99	1.77
11560.00	90.200	183.800	8934.82	2909.40	-2908.86	-60.14	0.70
11591.00	90.600	184.300	8934.60	2940.37	-2939.78	-62.33	2.07
11623.00	91.100	184.300	8934.13	2972.33	-2971.69	-64.73	1.56
11654.00	91.000	184.400	8933.56	3003.29	-3002.59	-67.08	0.46
11686.00	89.200	183.100	8933.50	3035.26	-3034.52	-69.17	6.94
11718.00	88.500	182.800	8934.15	3067.25	-3066.47	-70.82	2.38
11750.00	88.700	182.800	8934.93	3099.23	-3098.43	-72.38	0.62
11782.00	89.100	182.900	8935.54	3131.22	-3130.38	-73.97	1.29
11814.00	88.800	183.400	8936.13	3163.20	-3162.33	-75.73	1.82
11846.00	88.400	182.800	8936.91	3195.18	-3194.27	-77.46	2.25
11877.00	88.000	182.000	8937.88	3226.16	-3225.23	-78.76	2.88
11909.00	88.400	181.300	8938.89	3258.15	-3257.20	-79.68	2.52
11941.00	88.900	180.400	8939.64	3290.13	-3289.18	-80.15	3.22
11973.00	89.600	179.400	8940.06	3322.12	-3321.18	-80.10	3.81
12005.00	89.600	179.800	8940.28	3354.10	-3353.18	-79.88	1.25
12037.00	90.200	179.900	8940.34	3386.08	-3385.18	-79.79	1.90
12069.00	90.600	179.500	8940.12	3418.06	-3417.18	-79.62	1.77
12100.00	90.500	179.900	8939.82	3449.04	-3448.18	-79.46	1.33
12132.00	90.600	179.600	8939.51	3481.02	-3480.17	-79.32	0.99
12164.00	92.900	179.400	8938.54	3512.98	-3512.16	-79.04	7.21
12196.00	93.000	179.200	8936.89	3544.92	-3544.11	-78.65	0.70
12227.00	93.000	179.000	8935.27	3575.84	-3575.06	-78.17	0.64
12259.00	93.200	179.200	8933.54	3607.77	-3607.01	-77.66	0.88

Actual Wellpath Report

No. 1H AWP

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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 AWP
Facility	Mako 8 State Com No. 1H		

WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]
12290.00	93.500	178.800	8931.72	3638.68	-3637.96	-77.12	1.61
12322.00	92.800	179.300	8929.97	3670.60	-3669.90	-76.59	2.69
12354.00	91.100	179.300	8928.88	3702.55	-3701.88	-76.20	5.31
12386.00	89.400	180.400	8928.74	3734.54	-3733.88	-76.12	6.33
12418.00	88.900	180.700	8929.21	3766.53	-3765.87	-76.43	1.82
12450.00	89.600	179.700	8929.63	3798.51	-3797.87	-76.54	3.81
12482.00	90.300	180.500	8929.66	3830.50	-3829.87	-76.60	3.32
12514.00	91.000	180.500	8929.30	3862.49	-3861.87	-76.87	2.19
12545.00	91.500	180.300	8928.62	3893.48	-3892.86	-77.09	1.74
12577.00	90.600	181.000	8928.03	3925.47	-3924.85	-77.45	-3.56
12608.00	90.000	181.000	8927.87	3956.47	-3955.84	-77.99	1.94
12640.00	89.400	180.400	8928.04	3988.46	-3987.84	-78.39	2.65
12672.00	89.700	179.800	8928.29	4020.45	-4019.84	-78.44	2.10
12704.00	91.700	180.100	8927.90	4052.43	-4051.84	-78.41	6.32
12735.00	92.100	180.700	8926.87	4083.41	-4082.82	-78.63	2.33
12758.00	92.200	179.800	8926.01	4106.38	-4105.80	-78.73	3.93
12810.00	92.200	179.800	8924.01	4158.32	-4157.76	-78.55	0.00

Actual Wellpath Report

No. 1H AWP

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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 AWB
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
No. 1H PBHL REV1		8947.00	-4169.79	-118.18	760111.07	671822.82	32°50'38.615"N	103°29'11.090"W	point

WELLPATH COMPOSITION Ref Wellbore: No. 1H AWB Ref Wellpath: No. 1H AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8228.00	Gyrodatta standard - Drop gyro or Multi-shot	GYRO <100 - 8228>	No. 1H AWB
8228.00	12758.00	NaviTrak (Standard)	MWD <8293 - 12758>	No. 1H AWB
12758.00	12810.00	Blind Drilling (std)	Projection to bit	No. 1H AWB