

Marathon Oil Co.
Midway St. #1
Lea County, NM

STATE OF NEW MEXICO
DEVIATION REPORT

260	2-1/2
436	1-1/2
916	1/4
1,414	1/2
1,913	1/4
2,154	1/4
2,653	1-1/4
3,149	1-1/2
3,462	2
3,964	1-1/2
4,400	1-1/2
4,885	2
5,384	1-3/4
5,883	1-1/2
6,382	1-3/4
6,877	1-1/2
7,375	1-1/4
7,869	1-1/2
8,043	1-1/2
8,542	1-3/4
9,041	3-1/4
9,210	4
9,305	4
9,380	4-1/4
9,429	5
9,461	5
9,494	5
9,672	5-1/2
9,764	5
9,856	5-1/2
9,978	5
10,200	5-3/4

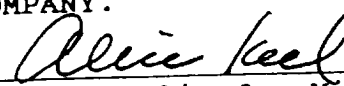

By: Ray Peterson

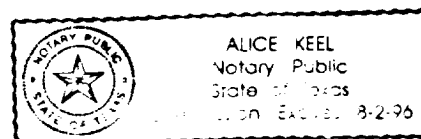
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me
this 20th day of November, 1995, by RAY PETERSON
on behalf of PETERSON DRILLING COMPANY.

My Commission Expires:


Notary Public for Midland
County, Texas



MARATHON
MIDWAY STATE NO.1

slot #1

LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref :
Our ref : svy531
License :

Date printed : 9-Nov-95
Date created : 9-Nov-95
Last revised : 9-Nov-95

Field is centred on 0.000,0.000,3.00000,N
Structure is centred on 0.000,0.000,3.00000,N

Slot location is n0 0 0.000,w1 29 18.843
Slot Grid coordinates are N 0.000, E 0.000
Slot local coordinates are 0.00 N 0.00 E
Reference North is Grid North

BHL 582/N 4 1522/W 15-175-36e
Unit C

MARATHON
MIDWAY STATE NO.1, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref :
Last revised : 9-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00
100.00	0.53	299.85	100.00	0.23 N	0.40 W	0.44
200.00	0.90	270.98	199.99	0.47 N	1.59 W	1.42
300.00	0.72	258.72	299.98	0.36 N	2.99 W	2.30
400.00	0.83	270.25	399.97	0.24 N	4.33 W	3.12
500.00	0.50	273.36	499.96	0.27 N	5.49 W	3.93
600.00	0.50	290.15	599.96	0.45 N	6.33 W	4.63
700.00	0.58	288.51	699.96	0.76 N	7.22 W	5.46
800.00	0.57	283.96	799.95	1.04 N	8.19 W	6.32
900.00	0.58	301.90	899.95	1.43 N	9.10 W	7.22
1000.00	0.24	307.28	999.94	1.82 N	9.70 W	7.92
1100.00	0.42	288.79	1099.94	2.07 N	10.21 W	8.45
1200.00	0.38	289.59	1199.94	2.30 N	10.87 W	9.06
1300.00	0.31	316.43	1299.94	2.60 N	11.37 W	9.63
1400.00	0.49	315.78	1399.94	3.11 N	11.85 W	10.32
1500.00	0.12	317.50	1499.93	3.49 N	12.22 W	10.86
1600.00	0.25	330.82	1599.93	3.76 N	12.40 W	11.17
1700.00	0.21	343.25	1699.93	4.12 N	12.56 W	11.55
1800.00	0.19	321.88	1799.93	4.43 N	12.71 W	11.88
1900.00	0.23	333.51	1899.93	4.74 N	12.90 W	12.24
2000.00	0.09	176.86	1999.93	4.84 N	12.99 W	12.37
2100.00	0.03	133.67	2099.93	4.74 N	12.97 W	12.28
2200.00	0.48	316.75	2199.93	5.03 N	13.23 W	12.68
2300.00	0.70	312.22	2299.92	5.75 N	13.97 W	13.70
2400.00	0.87	323.13	2399.92	6.76 N	14.88 W	15.07

All data is in feet unless otherwise stated
Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 317.25 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

MARATHON
MIDWAY STATE NO.1, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref :
Last revised : 9-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
2500.00	0.91	329.56	2499.90	8.06 N	0.11	16.60
2600.00	1.21	328.88	2599.89	9.64 N	0.30	18.41
2700.00	1.30	341.28	2699.86	11.62 N	0.28	20.48
800.00	1.31	344.14	2799.84	13.80 N	0.06	22.54
-1.00	1.16	359.72	2899.81	15.91 N	0.37	24.30
3000.00	1.09	16.59	2999.79	17.83 N	0.34	25.53
3100.00	1.46	16.69	3099.77	19.96 N	0.37	26.67
3200.00	1.74	17.67	3199.73	22.63 N	0.28	28.06
3300.00	1.84	19.52	3299.68	25.59 N	0.12	29.56
3400.00	1.91	19.64	3399.63	28.67 N	0.07	31.08
3500.00	1.33	14.16	3499.59	31.37 N	0.60	32.49
3600.00	1.44	6.79	3599.56	33.74 N	0.21	33.94
3700.00	1.29	0.07	3699.53	36.12 N	0.22	35.58
3800.00	1.30	0.74	3799.50	38.38 N	0.02	37.22
3900.00	1.13	356.14	3899.48	40.49 N	0.20	38.82
4000.00	1.25	349.48	3999.46	42.55 N	0.18	40.51
4100.00	1.46	352.79	4099.43	44.89 N	0.22	42.46
4200.00	1.47	343.88	4199.40	47.38 N	0.23	44.65
300.00	1.42	334.06	4299.37	49.73 N	0.25	46.98
0.00	1.76	317.95	4399.33	51.98 N	0.56	49.70
4500.00	1.52	313.48	4499.29	54.04 N	0.27	52.56
4600.00	1.46	310.13	4599.26	55.77 N	0.10	55.15
4700.00	1.56	308.02	4699.22	57.43 N	0.11	57.76
4800.00	1.55	306.30	4799.18	59.07 N	0.05	60.43
4900.00	1.55	304.76	4899.15	60.64 N	0.04	63.08

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Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 317.25 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

MARATHON
MIDWAY STATE NO.1, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref :
Last revised : 9-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
5000.00	1.47	303.53	4999.11	62.12 N	0.09	65.64
5100.00	1.37	303.59	5099.08	63.49 N	0.10	68.05
5200.00	1.35	304.41	5199.05	64.82 N	0.03	70.36
5300.00	1.60	307.98	5299.02	66.34 N	0.27	72.89
5400.00	1.64	311.91	5398.98	68.16 N	0.12	75.69
5500.00	1.64	318.73	5498.94	70.19 N	0.20	78.54
5600.00	1.57	313.81	5598.90	72.21 N	0.15	81.34
5700.00	1.17	319.89	5698.87	73.94 N	0.42	83.73
5800.00	1.45	319.61	5798.84	75.68 N	0.28	86.02
5900.00	1.43	328.45	5898.81	77.71 N	0.22	88.50
6000.00	1.49	331.76	5998.78	79.92 N	0.10	90.99
6100.00	1.36	331.34	6098.75	82.11 N	0.13	93.40
6200.00	1.42	337.94	6198.72	84.30 N	0.17	95.71
6300.00	1.44	333.46	6298.69	86.57 N	0.11	98.07
6400.00	1.31	341.24	6398.66	88.78 N	0.23	100.32
6500.00	1.32	337.90	6498.64	90.93 N	0.08	102.44
6600.00	1.37	333.58	6598.61	93.06 N	0.11	104.67
6700.00	1.18	330.66	6698.58	95.03 N	0.20	106.82
6800.00	1.05	321.05	6798.56	96.64 N	0.23	108.73
6900.00	1.13	322.61	6898.54	98.14 N	0.08	110.63
7000.00	1.06	306.40	6998.53	99.47 N	0.32	112.52
7100.00	1.10	294.83	7098.51	100.42 N	0.22	114.32
7200.00	1.33	293.84	7198.49	101.29 N	0.23	116.27
7300.00	1.11	295.90	7298.46	102.19 N	0.22	118.24
7400.00	1.23	296.44	7398.44	103.09 N	0.12	120.14

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Vertical section is from wellhead on azimuth 317.25 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
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Presented by Baker Hughes INTEQ

MARATHON
MIDWAY STATE NO.1, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref :
Last revised : 9-Nov-95

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
7500.00	1.32	295.10	7498.42	104.05 N	0.09	122.21
7600.00	1.19	298.22	7598.40	105.03 N	0.15	124.26
7700.00	1.21	287.56	7698.37	105.84 N	0.22	126.16
7800.00	1.19	282.66	7798.35	106.39 N	0.10	127.93
7900.00	1.26	285.36	7898.33	106.91 N	0.09	129.72
8000.00	1.50	287.85	7998.30	107.60 N	0.25	131.79
8100.00	1.55	292.29	8098.26	108.51 N	0.13	134.16
8200.00	1.66	291.22	8198.22	109.55 N	0.11	136.69
8300.00	2.23	296.72	8298.17	110.95 N	0.60	139.81
8400.00	2.23	299.40	8398.09	112.78 N	0.10	143.48
8500.00	2.09	305.77	8498.02	114.80 N	0.28	147.12
8600.00	2.21	300.98	8597.95	116.86 N	0.22	150.76
8700.00	2.37	301.43	8697.87	118.93 N	0.16	154.60
8800.00	2.54	302.76	8797.78	121.21 N	0.18	158.73
8900.00	2.37	299.32	8897.69	123.42 N	0.22	162.85
9000.00	3.05	299.65	8997.57	125.75 N	0.68	167.35
9100.00	3.30	300.49	9097.42	128.52 N	0.25	172.64
9200.00	3.40	306.30	9197.25	131.74 N	0.35	178.31
9300.00	4.05	311.02	9297.04	135.81 N	0.72	184.73
9400.00	4.25	313.03	9396.78	140.66 N	0.25	191.94
9496.00	5.28	326.31	9492.45	146.76 N	1.56	199.85

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Coordinates from structure and TVD from wellhead.
Vertical section is from wellhead on azimuth 317.25 degrees.
Declination is 0.00 degrees, Convergence is 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ



P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

MIDWAY STATE NO. 1
749' FNL & 1658' FWL
SEC. 15, T-17-S, R-36-E
LEA COUNTY, N.M.

DST #1 - 9,827' - 9,876'

Initial Hydrostatic - 4562

15 min Initial Flow - 335-419

60 min Initial Flow - 419-3373

90 min 2nd Flow - 503-1249

255 min 2nd Shut-in - 1249-3390

Final Hydrostatic - 4562

BH Temp - 140°

Sampler contained 2400 cc of formation water @ 1350 psi.