

RECORD OF SURVEY



MARATHON OIL COMPANY INDIAN BASIN UNIT C No. 3 EDDY COUNTY, NEW MEXICO

**BAKER HUGHES *INTEQ*
WEST TEXAS DISTRICT**

July 31, 2000



INTEQ



MARATHON OIL COMPANY

Structure : Indian Basin Unit C No.3

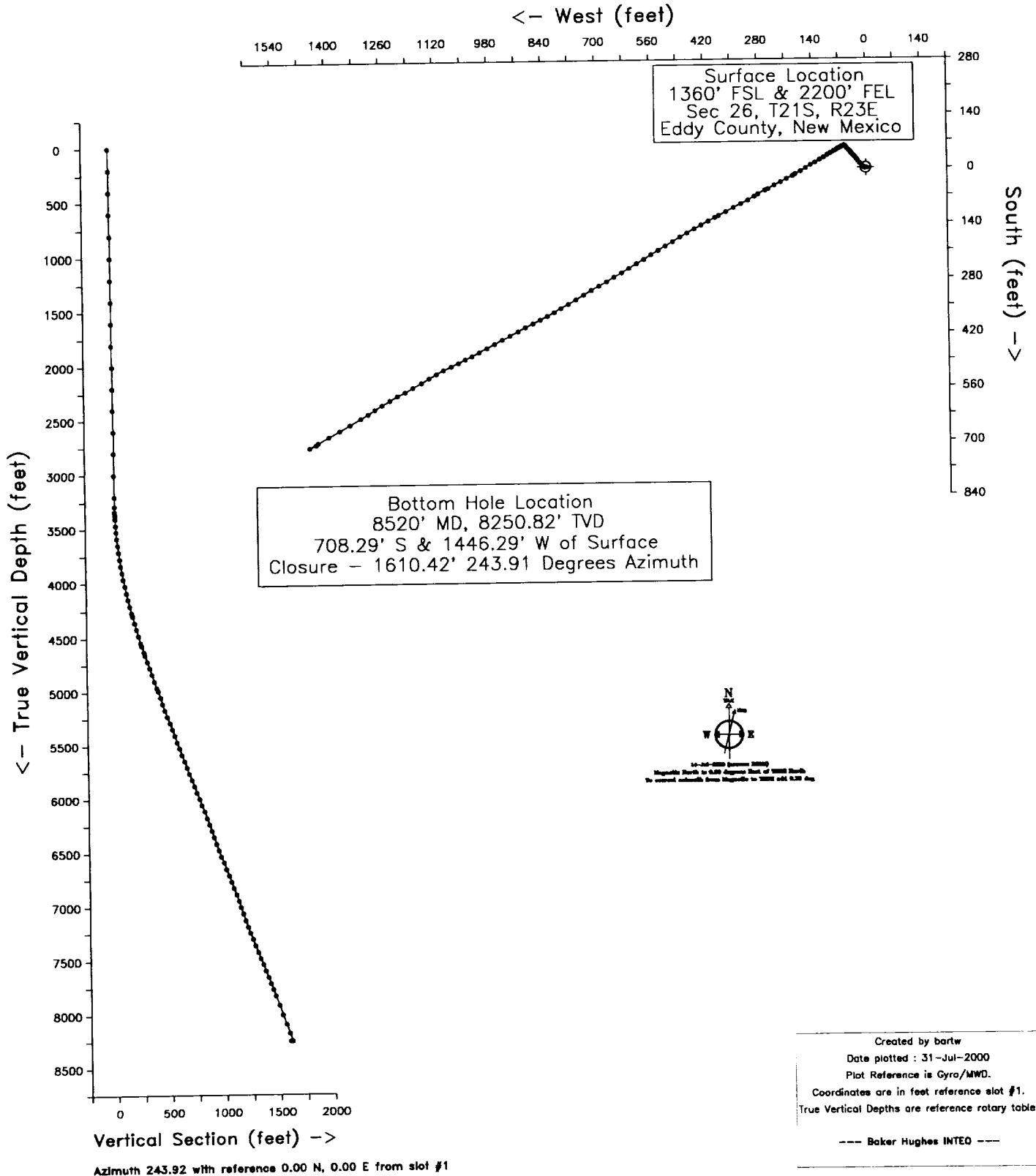
Slot : slot #1

Field : Indian Basin

Location : EDDY COUNTY, NM.



INTEQ



MARATHON OIL COMPANY
Indian Basin Unit C No.3

slot #1
Indian Basin
EDDY COUNTY, NM.

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

by
Baker Hughes INTEQ

Your ref : Gyro/MWD
Our ref : svy1425
License :

Date printed : 31-Jul-2000
Date created : 17-Jul-2000
Last revised : 31-Jul-2000

Field is centred on n32 30 0.000,w104 30 0
structure is centred on n32 30 0.000,w104 30 0

Slot location is n32 30 0.000,w104 30 0.000
slot Grid coordinates are N 545652.918, E 448616.515
slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866
Reference North is True North

MARATHON OIL COMPANY
Indian Basin Unit C No.3, slot #1
Indian Basin, EDDY COUNTY, NM.

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 E	0.00	0.00
200.00	0.53	229.86	200.00	0.71 W	0.27	0.90
400.00	0.49	305.23	399.99	2.11 W	0.31	2.21
600.00	0.76	304.71	599.98	3.90 W	0.14	3.27
800.00	1.37	310.16	799.94	6.83 W	0.31	4.88
1000.00	1.78	317.40	999.87	10.76 W	0.22	6.73
1200.00	1.95	324.01	1199.76	14.86 W	0.14	8.20
1400.00	2.09	322.83	1399.64	19.07 W	0.07	9.49
1600.00	1.80	320.58	1599.52	23.27 W	0.15	10.91
1800.00	1.49	321.65	1799.44	26.88 W	0.16	12.19
2000.00	1.32	313.71	1999.38	30.16 W	0.13	13.54
2200.00	1.32	310.74	2199.33	33.57 W	0.03	15.24
2400.00	1.28	317.61	2399.27	36.81 W	0.08	16.77
2600.00	1.46	318.51	2599.22	39.99 W	0.09	18.07
2800.00	1.51	319.73	2799.15	43.38 W	0.03	19.39
3000.00	1.89	317.64	2999.06	47.31 W	0.19	20.96
3200.00	1.96	313.92	3198.95	51.99 W	0.07	23.06
3290.00	1.96	305.21	3288.90	54.35 W	0.33	24.32
3341.00	0.90	255.40	3339.88	55.46 W	3.03	25.13
3372.00	1.70	249.90	3370.87	56.12 W	2.61	25.83
3403.00	2.30	248.40	3401.86	57.13 W	1.94	26.91
3466.00	4.00	247.20	3464.76	60.33 W	2.70	30.36
3528.00	4.60	242.30	3526.58	64.53 W	1.13	35.01
3591.00	5.90	240.30	3589.32	69.58 W	2.08	40.76
3654.00	6.50	240.90	3651.95	75.51 W	0.96	47.55

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1610.42 on azimuth 243.91 degrees from wellhead.
Vertical section is from wellhead on azimuth 243.92 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

MARATHON OIL COMPANY
Indian Basin Unit C No.3, slot #1
Indian Basin, EDDY COUNTY, NM.

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
3717.00	7.50	242.10	3714.48	42.43 N 82.26 W	1.60	55.23
3780.00	8.80	240.10	3776.84	38.10 N 90.07 W	2.11	64.14
3843.00	9.60	237.90	3839.03	32.91 N 98.70 W	1.39	74.18
3906.00	10.60	240.00	3901.05	27.22 N 108.17 W	1.69	85.18
3969.00	11.40	239.10	3962.90	21.13 N 118.53 W	1.30	97.17
4033.00	12.40	240.60	4025.52	14.51 N 129.94 W	1.64	110.33
4095.00	13.10	240.90	4085.99	7.82 N 141.88 W	1.13	123.99
4158.00	14.10	238.60	4147.22	0.35 N 154.67 W	1.80	138.76
4222.00	14.70	239.20	4209.21	7.87 S 168.30 W	0.97	154.62
4285.00	15.00	242.00	4270.11	15.79 S 182.36 W	1.23	170.73
4316.00	15.20	241.10	4300.04	19.64 S 189.46 W	0.99	178.80
4379.00	16.10	242.20	4360.70	27.70 S 204.42 W	1.50	195.78
4442.00	16.40	243.40	4421.19	35.76 S 220.10 W	0.71	213.41
4504.00	16.90	242.70	4480.59	43.81 S 235.93 W	0.87	231.17
4567.00	18.00	242.70	4540.69	52.48 S 252.72 W	1.75	250.06
4598.00	17.90	242.20	4570.18	56.90 S 261.19 W	0.59	259.61
4661.00	18.80	240.40	4629.97	66.43 S 278.58 W	1.69	279.42
4693.00	18.40	241.30	4660.30	71.40 S 287.50 W	1.54	289.61
4755.00	19.10	242.00	4719.01	80.86 S 305.04 W	1.19	309.52
4818.00	19.40	242.80	4778.49	90.48 S 323.44 W	0.63	330.29
4880.00	19.60	242.30	4836.93	100.02 S 341.81 W	0.42	350.98
4950.00	19.60	242.80	4902.88	110.85 S 362.65 W	0.24	374.45
5013.00	19.40	242.40	4962.26	120.52 S 381.32 W	0.38	395.47
5044.00	18.60	243.60	4991.57	125.11 S 390.31 W	2.87	405.57
5108.00	18.40	242.60	5052.27	134.29 S 408.42 W	0.59	425.87

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1610.42 on azimuth 243.91 degrees from wellhead.
Vertical section is from wellhead on azimuth 243.92 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

MARATHON OIL COMPANY
Indian Basin Unit C No.3, slot #1
Indian Basin, EDDY COUNTY, NM.

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
5171.00	18.90	243.00	5111.96	143.50 S 426.34 W	0.82	446.01
5235.00	19.30	240.80	5172.44	153.37 S 444.81 W	1.29	466.94
5296.00	20.20	240.40	5229.85	163.49 S 462.76 W	1.49	487.52
5360.00	20.40	240.10	5289.87	174.51 S 482.04 W	0.35	509.67
5424.00	20.30	239.40	5349.88	185.72 S 501.27 W	0.41	531.87
5487.00	20.00	239.40	5409.02	196.76 S 519.95 W	0.48	553.51
5551.00	19.80	240.60	5469.20	207.66 S 538.81 W	0.71	575.24
5613.00	20.20	239.90	5527.46	218.18 S 557.22 W	0.75	596.40
5676.00	20.10	240.30	5586.61	229.00 S 576.03 W	0.27	618.05
5739.00	20.60	239.40	5645.67	240.00 S 594.97 W	0.94	639.91
5803.00	21.20	239.70	5705.46	251.57 S 614.66 W	0.95	662.67
5867.00	20.80	239.90	5765.21	263.11 S 634.48 W	0.63	685.55
5931.00	20.40	240.00	5825.12	274.39 S 653.97 W	0.63	708.01
5994.00	21.00	239.80	5884.05	285.56 S 673.24 W	0.96	730.22
6056.00	20.90	240.40	5941.95	296.61 S 692.45 W	0.38	752.34
6120.00	21.10	241.00	6001.70	307.83 S 712.46 W	0.46	775.24
6184.00	21.50	240.20	6061.33	319.24 S 732.71 W	0.77	798.45
6247.00	21.40	240.30	6119.97	330.68 S 752.71 W	0.17	821.44
6311.00	20.80	240.00	6179.68	342.14 S 772.69 W	0.95	844.43
6374.00	19.80	240.40	6238.76	353.01 S 791.66 W	1.60	866.24
6438.00	18.20	240.80	6299.27	363.24 S 809.81 W	2.51	887.04
6501.00	19.00	241.10	6358.98	372.99 S 827.38 W	1.28	907.11
6565.00	19.70	243.50	6419.37	382.84 S 846.15 W	1.66	928.30
6627.00	20.10	243.50	6477.67	392.26 S 865.04 W	0.65	949.41
6690.00	19.90	243.90	6536.87	401.81 S 884.35 W	0.38	970.95

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1610.42 on azimuth 243.91 degrees from wellhead.
Vertical section is from wellhead on azimuth 243.92 degrees.
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Presented by Baker Hughes INTEQ

MARATHON OIL COMPANY
Indian Basin Unit C No.3, slot #1
Indian Basin, EDDY COUNTY, NM.

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
6752.00	21.10	241.90	6594.94	411.70 S 903.68 W	2.24	992.66
6816.00	21.60	241.80	6654.55	422.70 S 924.22 W	0.78	1015.94
6879.00	21.00	242.80	6713.24	433.34 S 944.48 W	1.11	1038.82
6942.00	20.30	242.70	6772.20	443.51 S 964.23 W	1.11	1061.03
7006.00	21.80	242.20	6831.92	454.14 S 984.61 W	2.36	1084.01
7069.00	20.60	242.60	6890.66	464.70 S 1004.80 W	1.92	1106.78
7132.00	19.00	242.70	6949.93	474.51 S 1023.75 W	2.54	1128.12
7194.00	17.80	244.90	7008.76	483.15 S 1041.30 W	2.24	1147.68
7258.00	18.50	244.00	7069.58	491.76 S 1059.29 W	1.18	1167.62
7321.00	19.20	245.50	7129.20	500.43 S 1077.70 W	1.35	1187.97
7385.00	20.50	245.10	7189.39	509.52 S 1097.44 W	2.04	1209.70
7448.00	20.40	239.50	7248.43	519.73 S 1116.91 W	3.11	1231.67
7510.00	20.60	238.20	7306.50	530.97 S 1135.49 W	0.80	1253.30
7574.00	22.70	240.70	7365.99	542.94 S 1155.83 W	3.58	1276.84
7638.00	22.30	241.70	7425.12	554.74 S 1177.29 W	0.86	1301.30
7700.00	21.40	242.20	7482.66	565.60 S 1197.65 W	1.48	1324.36
7761.00	21.90	241.80	7539.36	576.16 S 1217.52 W	0.85	1346.85
7823.00	21.70	239.70	7596.92	587.41 S 1237.61 W	1.30	1369.84
7886.00	21.50	237.60	7655.50	599.47 S 1257.42 W	1.27	1392.93
7949.00	20.40	238.40	7714.34	611.41 S 1276.52 W	1.80	1415.33
8010.00	20.10	240.20	7771.57	622.19 S 1294.67 W	1.13	1436.38
8073.00	20.50	239.00	7830.65	633.25 S 1313.52 W	0.92	1458.17
8167.00	20.30	240.40	7918.76	649.79 S 1341.80 W	0.56	1490.84
8258.00	19.90	240.50	8004.22	665.21 S 1369.01 W	0.44	1522.06
8352.00	20.10	241.00	8092.55	680.92 S 1397.06 W	0.28	1554.16

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Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

SURVEY LISTING Page 5
Your ref : Gyro/MWD
Last revised : 31-Jul-2000

g	00ft	Vert
6	1585.21	Sect
0	1610.42	

All data is in feet unless otherwise stated. Coordinates from slot #1 and TVD from rotary tab distance is 1610.42 on azimuth 243.91 degrees. Section is from wellhead on azimuth 243.92. Calculation uses the minimum curvature method presented by Baker Hughes INTEQ