

RECORD OF SURVEY

**CHI
OPERATING**

**MCIVER FED COM #2
EDDY COUNTY
NEW MEXICO**

RECEIVED

MAY 05 2004

OCB-ARTESIA

API # <UNKNOWN>

30-015-00134

October 25, 2002



INTEQ

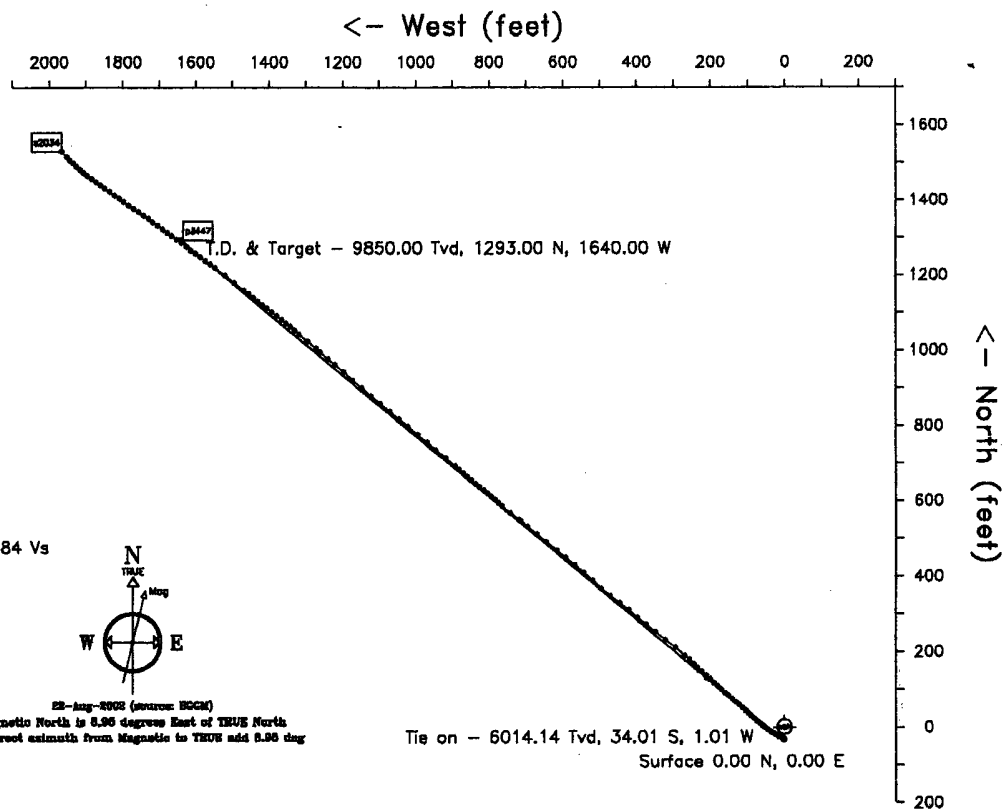
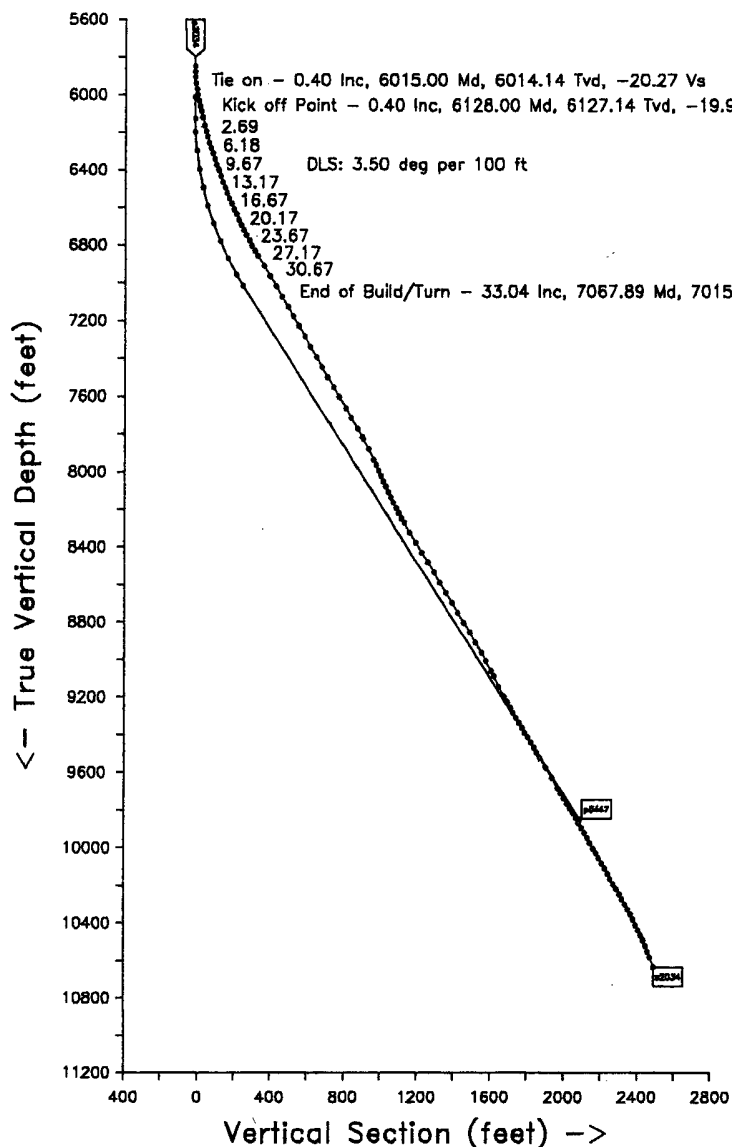
CHI OPERATING

Structure : MCIVER FED COMM #2

Slot : slot #1

Field : UNKNOWN

Location : Eddy County New Mexico



28-Sep-2002 (nearest EOCM)
Magnetic North is 8.96 degrees East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.96 deg

BOTTOM HOLE LOCATION
2492.52' ON AZI 307.89 DEGS
FROM SURFACE LOCATION
M.D: 11286.00' T.V.D: 10635.88'
N- 1530.88' W- 1966.99'

WELL PROFILE DATA								
Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	6015.00	0.40	241.00	6014.14	-34.01	-1.01	-20.27	0.00
KOP	6126.00	0.40	241.00	6127.14	-34.39	-1.70	-19.96	0.00
End of Build/Turn	7067.89	33.04	309.10	7015.54	130.17	-209.16	244.84	3.50
T.D. & Target	10449.25	33.04	309.10	9850.00	1293.00	-1640.00	2088.41	0.00

**BAKER
HUGHES**

INTEQ

Created By kellym
Date plotted : 23-Sep-2002
Plot Reference is P3 3DJ 3.5 BUR.
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
chimo13
--- Baker Hughes INTEQ ---

CHI OPERATING
MCIVER FED COMM #2

slot #1
UNKNOWN
Eddy County New Mexico

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MWD 2
Our ref : svy2034
License :

Date printed : 25-Oct-2002
Date created : 5-Sep-2002
Last revised : 23-Sep-2002

Field is centred on n32 30 0.000,w104 15 0
Structure is centred on n32 30 0.000,w104 15 0

Slot location is n32 30 0.000,w104 15 0.000
Slot Grid coordinates are N 545622.802, E 525691.731
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

CHI OPERATING
MCIVER FED COMM #2, slot #1
UNKNOWN, Eddy County New Mexico

SURVEY LISTING Page 1
Your ref : MWD 2
Last revised : 23-Sep-2002

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
5800.00	0.54	228.53	5799.15	32.73 S	0.82 E	0.00	-20.91
5851.00	0.90	253.00	5850.15	33.01 S	0.26 E	0.91	-20.64
5880.00	0.90	267.70	5879.14	33.08 S	0.19 W	0.79	-20.33
5909.00	5.50	298.60	5908.09	32.43 S	1.64 W	16.38	-18.79
5941.00	7.80	299.30	5939.87	30.63 S	4.88 W	7.19	-15.13
5971.00	9.30	299.70	5969.54	28.43 S	8.76 W	5.00	-10.72
6002.00	10.10	299.30	6000.10	25.86 S	13.31 W	2.59	-5.56
6032.00	11.30	301.40	6029.57	23.04 S	18.11 W	4.21	-0.04
6064.00	12.50	301.80	6060.89	19.58 S	23.73 W	3.76	6.51
6093.00	13.60	301.10	6089.14	16.17 S	29.31 W	3.83	13.01
6125.00	13.50	302.20	6120.25	12.23 S	35.70 W	0.86	20.46
6172.00	15.70	306.70	6165.73	5.51 S	45.44 W	5.26	32.27
6203.00	16.10	306.70	6195.54	0.43 S	52.25 W	1.29	40.76
6233.00	16.70	307.10	6224.32	4.65 N	59.02 W	2.04	49.23
6265.00	17.50	308.50	6254.90	10.42 N	66.45 W	2.81	58.64
6297.00	18.20	309.90	6285.36	16.62 N	74.05 W	2.57	68.45
6328.00	18.50	310.60	6314.79	22.93 N	81.50 W	1.20	78.20
6360.00	19.40	312.00	6345.05	29.79 N	89.31 W	3.15	88.58
6392.00	19.60	312.00	6375.22	36.94 N	97.24 W	0.63	99.23
6416.00	19.97	312.23	6397.80	42.38 N	103.27 W	1.58	107.34
6424.00	20.10	312.30	6405.32	44.23 N	105.30 W	1.65	110.07
6456.00	20.70	311.60	6435.31	51.68 N	113.59 W	2.02	121.20
6487.00	21.10	311.30	6464.27	59.00 N	121.88 W	1.34	132.25
6519.00	21.90	309.20	6494.04	66.58 N	130.84 W	3.47	143.96
6550.00	23.50	310.20	6522.64	74.22 N	140.04 W	5.31	155.92
6582.00	23.70	310.20	6551.97	82.49 N	149.82 W	0.62	168.73
6613.00	24.10	311.30	6580.31	90.69 N	159.34 W	1.93	181.27
6645.00	24.20	311.70	6609.51	99.36 N	169.14 W	0.60	194.34
6676.00	25.60	312.70	6637.62	108.13 N	178.81 W	4.72	207.36
6707.00	26.40	312.40	6665.49	117.32 N	188.82 W	2.62	220.92
6738.00	27.10	312.70	6693.17	126.76 N	199.10 W	2.30	234.83
6769.00	27.40	312.40	6720.73	136.36 N	209.55 W	1.06	248.98
6801.00	28.60	313.00	6748.98	146.54 N	220.59 W	3.85	263.96
6833.00	29.40	313.40	6776.97	157.16 N	231.90 W	2.57	279.42
6864.00	30.00	313.00	6803.90	167.68 N	243.10 W	2.04	294.72
6896.00	30.80	312.70	6831.50	178.69 N	254.97 W	2.54	310.86
6928.00	31.50	309.90	6858.88	189.61 N	267.41 W	5.03	327.38
6991.00	33.20	307.40	6912.11	210.65 N	293.74 W	3.43	361.09
7054.00	31.60	307.10	6965.30	231.08 N	320.61 W	2.55	394.84
7117.00	30.70	307.80	7019.21	250.89 N	346.48 W	1.54	427.42
7180.00	30.40	308.80	7073.47	270.74 N	371.61 W	0.94	459.44
7241.00	30.90	308.80	7125.95	290.22 N	395.84 W	0.82	490.54
7301.00	30.90	308.10	7177.43	309.38 N	419.98 W	0.60	521.35
7362.00	30.70	307.10	7229.83	328.44 N	444.72 W	0.90	552.58
7425.00	30.10	308.50	7284.17	347.98 N	469.91 W	1.47	584.46
7488.00	30.10	310.60	7338.67	368.09 N	494.27 W	1.67	616.04
7551.00	30.90	311.70	7392.96	389.13 N	518.34 W	1.55	647.97
7613.00	30.60	309.20	7446.24	409.70 N	542.46 W	2.12	679.65
7675.00	31.00	308.80	7499.50	429.68 N	567.13 W	0.72	711.39
7738.00	30.80	308.10	7553.55	449.80 N	592.47 W	0.65	743.74

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2492.52 on azimuth 307.89 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 308.25 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

CHI OPERATING
MCIVER FED COMM #2, slot #1
UNKNOWN, Eddy County New Mexico

SURVEY LISTING Page 2
Your ref : MWD 2
Last revised : 23-Sep-2002

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
7799.00	30.20	308.50	7606.11	468.98 N	616.77 W	1.04	774.70
7867.00	31.60	307.40	7664.46	490.45 N	644.30 W	2.22	809.62
7929.00	31.50	308.10	7717.30	510.31 N	669.96 W	0.61	842.06
7992.00	29.40	308.50	7771.60	530.10 N	695.01 W	3.35	873.98
8042.00	28.92	308.74	7815.27	545.30 N	714.05 W	0.99	898.35
8054.00	28.80	308.80	7825.78	548.93 N	718.56 W	1.03	904.14
8116.00	28.30	308.50	7880.24	567.44 N	741.70 W	0.84	933.77
8179.00	26.10	309.50	7936.27	585.55 N	764.09 W	3.57	962.56
8211.00	24.80	309.90	7965.16	594.33 N	774.67 W	4.10	976.31
8242.00	24.30	310.20	7993.36	602.62 N	784.53 W	1.66	989.18
8274.00	24.20	309.90	8022.54	611.08 N	794.59 W	0.50	1002.32
8306.00	24.70	310.60	8051.67	619.64 N	804.70 W	1.81	1015.55
8336.00	25.40	308.80	8078.84	627.75 N	814.47 W	3.45	1028.25
8368.00	26.50	308.80	8107.62	636.52 N	825.38 W	3.44	1042.25
8399.00	27.40	308.80	8135.25	645.32 N	836.33 W	2.90	1056.30
8431.00	27.90	309.50	8163.60	654.70 N	847.85 W	1.86	1071.15
8463.00	28.00	309.90	8191.86	664.28 N	859.39 W	0.66	1086.14
8494.00	27.80	310.20	8219.26	673.61 N	870.49 W	0.79	1100.64
8524.00	27.90	310.90	8245.79	682.72 N	881.14 W	1.14	1114.64
8554.00	29.70	310.20	8272.07	692.12 N	892.12 W	6.10	1129.08
8617.00	32.50	309.50	8326.01	712.96 N	917.11 W	4.48	1161.61
8680.00	32.20	309.50	8379.24	734.40 N	943.12 W	0.48	1195.31
8741.00	32.20	309.50	8430.85	755.08 N	968.20 W	0.00	1227.81
8804.00	32.40	310.20	8484.11	776.65 N	994.05 W	0.67	1261.46
8867.00	32.20	309.90	8537.36	798.31 N	1019.81 W	0.41	1295.11
8927.00	30.90	307.80	8588.49	818.01 N	1044.25 W	2.84	1326.50
8990.00	31.10	308.80	8642.49	838.12 N	1069.72 W	0.88	1358.94
9053.00	31.00	309.20	8696.46	858.57 N	1094.97 W	0.36	1391.43
9116.00	31.10	309.20	8750.44	879.11 N	1120.15 W	0.16	1423.92
9179.00	30.90	309.50	8804.44	899.68 N	1145.24 W	0.40	1456.37
9241.00	32.10	310.60	8857.30	920.53 N	1170.03 W	2.15	1488.74
9303.00	31.40	310.60	8910.02	941.76 N	1194.81 W	1.13	1521.34
9365.00	30.20	309.20	8963.28	962.13 N	1219.15 W	2.25	1553.07
9414.00	29.30	310.30	9005.82	977.67 N	1237.85 W	2.15	1577.38
9476.00	27.30	310.90	9060.41	996.80 N	1260.17 W	3.26	1606.74
9506.00	26.10	310.90	9087.21	1005.62 N	1270.36 W	4.00	1620.21
9570.00	28.60	308.80	9144.05	1024.44 N	1292.94 W	4.19	1649.59
9633.00	29.40	308.50	9199.15	1043.52 N	1316.79 W	1.29	1680.14
9665.00	28.70	308.10	9227.12	1053.15 N	1328.99 W	2.27	1695.67
9697.00	29.10	308.50	9255.14	1062.73 N	1341.12 W	1.39	1711.14
9727.00	29.40	307.80	9281.31	1071.79 N	1352.65 W	1.52	1725.80
9758.00	30.80	307.40	9308.13	1081.27 N	1364.97 W	4.56	1741.34
9790.00	31.40	307.40	9335.53	1091.31 N	1378.10 W	1.87	1757.87
9822.00	31.80	307.80	9362.79	1101.54 N	1391.39 W	1.41	1774.64
9853.00	31.70	308.10	9389.15	1111.57 N	1404.25 W	0.60	1790.95
9883.00	30.90	308.10	9414.78	1121.19 N	1416.51 W	2.67	1806.53
9915.00	30.30	308.50	9442.33	1131.29 N	1429.30 W	1.98	1822.82
9946.00	29.80	307.40	9469.16	1140.83 N	1441.54 W	2.40	1838.35
9977.00	30.50	307.80	9495.97	1150.33 N	1453.87 W	2.35	1853.91
10008.00	31.50	307.40	9522.54	1160.07 N	1466.52 W	3.29	1869.88

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2492.52 on azimuth 307.89 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 308.25 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

CHI OPERATING
MCIVER FED COMM #2, slot #1
UNKNOWN, Eddy County New Mexico

SURVEY LISTING Page 3
Your ref : MWD 2
Last revised : 23-Sep-2002

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
10071.00	32.00	307.10	9576.11	1180.14 N	1492.91 W	0.83	1903.03
10134.00	32.10	307.10	9629.51	1200.31 N	1519.58 W	0.16	1936.45
10196.00	30.80	305.70	9682.40	1219.51 N	1545.61 W	2.40	1968.78
10228.00	31.20	305.70	9709.83	1229.12 N	1558.99 W	1.25	1985.24
10259.00	31.90	305.70	9736.25	1238.59 N	1572.16 W	2.26	2001.45
10290.00	32.30	305.70	9762.51	1248.20 N	1585.54 W	1.29	2017.91
10322.00	32.10	305.70	9789.59	1258.15 N	1599.39 W	0.62	2034.94
10352.00	31.90	305.70	9815.03	1267.43 N	1612.30 W	0.67	2050.82
10383.00	31.60	306.00	9841.39	1276.98 N	1625.52 W	1.09	2067.12
10414.00	30.70	305.70	9867.92	1286.37 N	1638.52 W	2.95	2083.14
10446.00	30.30	305.70	9895.49	1295.85 N	1651.71 W	1.25	2099.37
10478.00	30.10	305.30	9923.15	1305.20 N	1664.81 W	0.89	2115.45
10509.00	30.20	304.60	9949.95	1314.12 N	1677.57 W	1.18	2130.99
10540.00	30.20	304.60	9976.75	1322.97 N	1690.41 W	0.00	2146.55
10572.00	30.70	305.00	10004.33	1332.23 N	1703.73 W	1.69	2162.74
10603.00	30.50	304.60	10031.02	1341.24 N	1716.68 W	0.92	2178.49
10634.00	31.10	305.30	10057.64	1350.33 N	1729.69 W	2.25	2194.34
10665.00	30.90	304.60	10084.22	1359.48 N	1742.78 W	1.33	2210.28
10697.00	30.70	304.30	10111.70	1368.74 N	1756.29 W	0.79	2226.63
10729.00	30.30	304.60	10139.27	1377.93 N	1769.68 W	1.34	2242.83
10760.00	30.30	304.60	10166.04	1386.81 N	1782.56 W	0.00	2258.44
10792.00	30.30	304.30	10193.67	1395.95 N	1795.87 W	0.47	2274.55
10823.00	30.20	304.30	10220.45	1404.75 N	1808.77 W	0.32	2290.13
10855.00	30.30	303.90	10248.09	1413.78 N	1822.12 W	0.70	2306.21
10886.00	29.70	304.60	10274.94	1422.51 N	1834.93 W	2.24	2321.67
10918.00	29.50	305.00	10302.76	1431.53 N	1847.91 W	0.88	2337.45
10949.00	29.30	303.90	10329.77	1440.14 N	1860.46 W	1.86	2352.63
10980.00	28.60	305.30	10356.89	1448.65 N	1872.81 W	3.14	2367.61
11010.00	26.70	306.70	10383.47	1456.83 N	1884.08 W	6.69	2381.52
11041.00	25.50	307.80	10411.31	1465.08 N	1894.94 W	4.17	2395.15
11071.00	25.50	308.80	10438.38	1473.09 N	1905.07 W	1.44	2408.07
11102.00	25.10	309.20	10466.41	1481.43 N	1915.37 W	1.40	2421.31
11133.00	24.70	310.60	10494.53	1489.80 N	1925.38 W	2.30	2434.36
11165.00	23.00	312.70	10523.80	1498.39 N	1935.05 W	5.94	2447.27
11197.00	22.20	314.50	10553.34	1506.87 N	1943.96 W	3.30	2459.51
11231.00	21.90	316.60	10584.85	1515.98 N	1952.90 W	2.48	2472.17
11286.00	21.90	316.60	10635.88	1530.88 N	1966.99 W	0.00	2492.47

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2492.52 on azimuth 307.89 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 308.25 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

CHI OPERATING
MCIVER FED COMM #2,slot #1
UNKNOWN,Eddy County New Mexico

SURVEY LISTING Page 4
Your ref : MWD 2
Last revised : 23-Sep-2002

NO PROPOSAL