



1700 Broadway Suite 1450 Denver Colorado 80290
(303) 860-0509 Fax (303) 830-2546

REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

Bright and Company
COMPANY

Cuba Mesa 35-2
WELL NAME

Sandoval County, New Mexico
LOCATION

JOB NUMBER
410-2943

TYPE OF SURVEY
MWD

DATE
NOVEMBER 17, 1993

SURVEYED BY
C. Wyant & D. Freeburg

OFFICE
DENVER

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NOV 24 1993

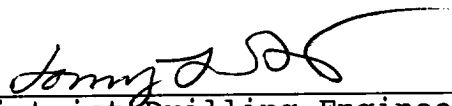
OIL CON. DIV.
DIST. 2

SURVEY CERTIFICATION SHEET

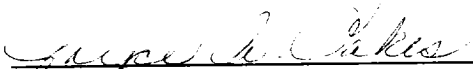
Company Bright and Company Job # 410-2943 Date November 17, 1993
Lease Cuba Mesa Well # 35-2 State New Mexico
Surveyed from a depth of 3,517 feet to a depth of 4,499 feet.
Type of Survey MWD
Directional Supervisor/Surveyor Carl Wyant & David Freeburg

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site.

Checked by:


District Drilling Engineer

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 18th day of November, 1993.

 My commission expires Aug. 4, 1996
Notary

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OIL CON. DIV
DIST. 3

BRIGHT AND COMPANY
S35-21N-2W

CUBA MESA 35-2
OFFSET WELL
SANDOVAL COUNTY
NEW MEXICO

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

by
Baker Hughes Inteq

Your ref : MWD SURVEYS
Our ref : svy2864
License :

Date printed : 17-Nov-93
Date created : 19-Oct-93
Last revised : 17-Nov-93

Field is centred on n36 15 0.000,w107 15 0
Structure is centred on n36 15 0.000,w107 15 0

Slot location is n36 15 2.769,w107 15 2.198
Slot Grid coordinates are N 1912013.566, E 204965.239
Slot local coordinates are 280.00 N 180.00 W
Reference North is True North

R E C

NOV 24 1993

OIL CON. D^o
DIST. ?

BRIGHT AND COMPANY
S35-21N-2W, CUBA MESA 35-2
SANDOVAL COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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	0.00
212.00	0.50	214.00	212.00	0.77 S	0.52 W	0.24	-0.74
220.00	0.60	159.00	220.00	0.83 S	0.52 W	6.44	-0.81
240.00	0.70	129.00	240.00	1.01 S	0.39 W	1.75	-0.99
260.00	0.80	259.00	259.99	1.11 S	0.43 W	6.80	-1.09
280.00	0.70	264.00	279.99	1.15 S	0.69 W	0.60	-1.12
300.00	0.70	260.00	299.99	1.19 S	0.93 W	0.24	-1.14
320.00	0.80	261.00	319.99	1.23 S	1.19 W	0.50	-1.18
340.00	0.70	261.00	339.99	1.27 S	1.45 W	0.50	-1.21
360.00	0.70	263.00	359.99	1.30 S	1.69 W	0.12	-1.23
380.00	0.80	267.00	379.98	1.33 S	1.95 W	0.56	-1.24
400.00	0.70	264.00	399.98	1.35 S	2.21 W	0.54	-1.25
420.00	0.60	259.00	419.98	1.38 S	2.44 W	0.57	-1.27
440.00	0.70	262.00	439.98	1.42 S	2.66 W	0.53	-1.30
460.00	0.70	258.00	459.98	1.46 S	2.90 W	0.24	-1.33
480.00	0.60	248.00	479.98	1.52 S	3.12 W	0.75	-1.39
500.00	0.70	250.00	499.98	1.60 S	3.33 W	0.51	-1.46
520.00	0.60	247.00	519.98	1.69 S	3.54 W	0.53	-1.53
540.00	0.60	252.00	539.97	1.76 S	3.74 W	0.26	-1.60
560.00	0.40	247.00	559.97	1.82 S	3.90 W	1.02	-1.65
580.00	0.50	240.00	579.97	1.89 S	4.04 W	0.57	-1.71
600.00	0.70	258.00	599.97	1.96 S	4.24 W	1.36	-1.77
620.00	0.70	255.00	619.97	2.02 S	4.47 W	0.18	-1.82
640.00	0.80	251.00	639.97	2.09 S	4.72 W	0.56	-1.89
660.00	0.60	236.00	659.97	2.20 S	4.94 W	1.35	-1.98
680.00	0.90	253.00	679.96	2.30 S	5.18 W	1.85	-2.07
700.00	0.80	259.00	699.96	2.38 S	5.46 W	0.67	-2.13
720.00	0.70	243.00	719.96	2.46 S	5.71 W	1.16	-2.20
740.00	0.90	246.00	739.96	2.58 S	5.96 W	1.02	-2.31
760.00	0.90	245.00	759.96	2.71 S	6.25 W	0.08	-2.43
780.00	0.80	250.00	779.95	2.82 S	6.52 W	0.62	-2.53
800.00	0.70	256.00	799.95	2.90 S	6.77 W	0.64	-2.60
820.00	0.90	252.00	819.95	2.98 S	7.04 W	1.04	-2.67
840.00	0.80	246.00	839.95	3.08 S	7.32 W	0.67	-2.76
860.00	0.80	259.00	859.95	3.16 S	7.58 W	0.90	-2.83
880.00	0.80	261.00	879.94	3.21 S	7.86 W	0.14	-2.87
900.00	0.90	261.00	899.94	3.26 S	8.15 W	0.50	-2.90
920.00	0.90	265.00	919.94	3.30 S	8.46 W	0.31	-2.93
940.00	0.90	268.00	939.94	3.32 S	8.78 W	0.24	-2.93
960.00	0.80	270.00	959.94	3.32 S	9.07 W	0.52	-2.92
980.00	0.90	273.00	979.93	3.31 S	9.37 W	0.55	-2.90
1000.00	0.80	273.00	999.93	3.30 S	9.66 W	0.50	-2.87
1020.00	0.80	270.00	1019.93	3.29 S	9.94 W	0.21	-2.86
1040.00	0.70	274.00	1039.93	3.28 S	10.20 W	0.56	-2.84
1060.00	0.70	276.00	1059.93	3.26 S	10.45 W	0.12	-2.80
1080.00	0.60	275.00	1079.92	3.24 S	10.67 W	0.50	-2.77
1100.00	0.60	270.00	1099.92	3.23 S	10.88 W	0.26	-2.75
1120.00	0.50	272.00	1119.92	3.23 S	11.08 W	0.51	-2.74
1140.00	0.40	270.00	1139.92	3.22 S	11.23 W	0.51	-2.73
1160.00	0.40	265.00	1159.92	3.23 S	11.37 W	0.17	-2.73

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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BRIGHT AND COMPANY
S35-21N-2W, CUBA MESA 35-2
SANDOVAL COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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
1180.00	0.40	262.00	1179.92	3.25 S	11.51 W	0.10	-2.74
1200.00	0.40	267.00	1199.92	3.26 S	11.65 W	0.17	-2.75
1220.00	0.30	250.00	1219.92	3.28 S	11.77 W	0.72	-2.76
1240.00	0.40	246.00	1239.92	3.33 S	11.88 W	0.51	-2.81
1260.00	0.20	228.00	1259.92	3.38 S	11.97 W	1.09	-2.85
1280.00	0.30	208.00	1279.92	3.45 S	12.02 W	0.66	-2.92
1300.00	0.40	194.00	1299.92	3.56 S	12.06 W	0.65	-3.03
1320.00	0.30	196.00	1319.92	3.68 S	12.09 W	0.50	-3.15
1340.00	0.30	190.00	1339.92	3.78 S	12.12 W	0.16	-3.25
1360.00	0.30	190.00	1359.92	3.89 S	12.14 W	0.00	-3.35
1380.00	0.40	199.00	1379.92	4.00 S	12.17 W	0.57	-3.47
1400.00	0.40	192.00	1399.92	4.14 S	12.20 W	0.24	-3.60
1420.00	0.50	196.00	1419.92	4.29 S	12.24 W	0.52	-3.75
1440.00	0.50	186.00	1439.92	4.46 S	12.28 W	0.44	-3.92
1460.00	0.60	184.00	1459.92	4.65 S	12.29 W	0.51	-4.11
1480.00	0.60	180.00	1479.91	4.86 S	12.30 W	0.21	-4.32
1500.00	0.60	181.00	1499.91	5.07 S	12.30 W	0.05	-4.53
1520.00	0.60	181.00	1519.91	5.28 S	12.31 W	0.00	-4.74
1540.00	0.70	177.00	1539.91	5.51 S	12.30 W	0.55	-4.96
1560.00	0.70	181.00	1559.91	5.75 S	12.30 W	0.24	-5.21
1580.00	0.70	176.00	1579.91	6.00 S	12.29 W	0.30	-5.45
1600.00	0.70	180.00	1599.91	6.24 S	12.28 W	0.24	-5.70
1620.00	0.70	176.00	1619.90	6.48 S	12.27 W	0.24	-5.94
1640.00	0.80	171.00	1639.90	6.74 S	12.24 W	0.60	-6.20
1660.00	0.80	167.00	1659.90	7.02 S	12.19 W	0.28	-6.48
1680.00	0.80	167.00	1679.90	7.29 S	12.13 W	0.00	-6.75
1700.00	1.00	165.00	1699.90	7.59 S	12.05 W	1.01	-7.06
1720.00	1.00	172.00	1719.89	7.94 S	11.98 W	0.61	-7.40
1740.00	1.10	171.00	1739.89	8.30 S	11.93 W	0.51	-7.77
1760.00	1.20	171.00	1759.89	8.69 S	11.86 W	0.50	-8.17
1780.00	1.30	169.00	1779.88	9.12 S	11.79 W	0.54	-8.60
1800.00	1.30	166.00	1799.88	9.57 S	11.69 W	0.34	-9.05
1820.00	1.40	163.00	1819.87	10.02 S	11.56 W	0.61	-9.51
1840.00	1.40	160.00	1839.86	10.48 S	11.41 W	0.37	-9.98
1860.00	1.30	162.00	1859.86	10.93 S	11.26 W	0.55	-10.43
1880.00	1.40	163.00	1879.85	11.38 S	11.11 W	0.51	-10.88
1900.00	1.30	167.00	1899.85	11.83 S	10.99 W	0.69	-11.34
1920.00	1.40	170.00	1919.84	12.29 S	10.90 W	0.61	-11.81
1940.00	1.40	171.00	1939.84	12.78 S	10.82 W	0.12	-12.29
1960.00	1.50	171.00	1959.83	13.28 S	10.74 W	0.50	-12.80
1980.00	1.40	167.00	1979.82	13.77 S	10.64 W	0.71	-13.30
2000.00	1.30	164.00	1999.82	14.23 S	10.52 W	0.61	-13.76
2020.00	1.40	164.00	2019.81	14.68 S	10.39 W	0.50	-14.21
2040.00	1.30	165.00	2039.81	15.14 S	10.27 W	0.51	-14.67
2060.00	1.40	166.00	2059.80	15.59 S	10.15 W	0.51	-15.13
2080.00	1.50	170.00	2079.80	16.09 S	10.05 W	0.71	-15.63
2100.00	1.50	172.00	2099.79	16.60 S	9.96 W	0.26	-16.15
2120.00	1.50	172.00	2119.78	17.12 S	9.89 W	0.00	-16.68
2140.00	1.50	169.00	2139.77	17.64 S	9.80 W	0.39	-17.19
2160.00	1.60	171.00	2159.77	18.17 S	9.71 W	0.57	-17.73

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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OIL CON. DIV.
DIST. 2

BRIGHT AND COMPANY
S35-21N-2W,CUBA MESA 35-2
SANDOVAL COUNTY,NEW MEXICO

SURVEY LISTING Page 3
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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
2180.00	1.60	168.00	2179.76	18.72 S	9.61 W	0.42	-18.28	
2200.00	1.50	166.00	2199.75	19.25 S	9.49 W	0.57	-18.82	
2220.00	1.60	166.00	2219.74	19.77 S	9.36 W	0.50	-19.34	
2240.00	1.70	165.00	2239.74	20.33 S	9.21 W	0.52	-19.91	
2260.00	1.70	166.00	2259.73	20.90 S	9.06 W	0.15	-20.49	
2280.00	1.70	166.00	2279.72	21.48 S	8.92 W	0.00	-21.07	
2300.00	1.80	166.00	2299.71	22.07 S	8.77 W	0.50	-21.67	
2320.00	1.80	166.00	2319.70	22.68 S	8.62 W	0.00	-22.28	
2340.00	1.80	165.00	2339.69	23.29 S	8.46 W	0.16	-22.90	
2360.00	1.90	163.00	2359.68	23.91 S	8.28 W	0.60	-23.53	
2380.00	1.90	161.00	2379.67	24.54 S	8.08 W	0.33	-24.16	
2400.00	1.80	159.00	2399.66	25.15 S	7.86 W	0.60	-24.78	
2420.00	1.80	158.00	2419.65	25.73 S	7.63 W	0.16	-25.38	
2440.00	1.90	155.00	2439.64	26.32 S	7.37 W	0.70	-25.98	
2460.00	2.00	157.00	2459.63	26.95 S	7.10 W	0.60	-26.61	
2480.00	2.00	158.00	2479.61	27.59 S	6.83 W	0.17	-27.27	
2500.00	2.00	159.00	2499.60	28.24 S	6.57 W	0.17	-27.93	
2520.00	1.90	158.00	2519.59	28.87 S	6.32 W	0.53	-28.57	
2540.00	1.90	158.00	2539.58	29.49 S	6.08 W	0.00	-29.20	
2560.00	1.80	156.00	2559.57	30.08 S	5.82 W	0.60	-29.80	
2580.00	1.80	156.00	2579.56	30.66 S	5.57 W	0.00	-30.38	
2600.00	1.80	153.00	2599.55	31.22 S	5.30 W	0.47	-30.96	
2620.00	1.80	153.00	2619.54	31.78 S	5.01 W	0.00	-31.53	
2640.00	1.80	145.00	2639.53	32.32 S	4.69 W	1.26	-32.08	
2660.00	1.80	149.00	2659.52	32.85 S	4.35 W	0.63	-32.63	
2680.00	1.70	148.00	2679.51	33.37 S	4.03 W	0.52	-33.16	
2700.00	1.70	152.00	2699.50	33.88 S	3.73 W	0.59	-33.69	
2720.00	1.60	152.00	2719.49	34.39 S	3.46 W	0.50	-34.21	
2740.00	1.60	149.00	2739.48	34.88 S	3.19 W	0.42	-34.70	
2760.00	1.70	148.00	2759.48	35.37 S	2.88 W	0.52	-35.21	
2780.00	1.60	148.00	2779.47	35.86 S	2.58 W	0.50	-35.71	
2800.00	1.60	148.00	2799.46	36.33 S	2.28 W	0.00	-36.19	
2820.00	1.50	146.00	2819.45	36.78 S	1.99 W	0.57	-36.66	
2840.00	1.60	141.00	2839.45	37.22 S	1.67 W	0.84	-37.11	
2860.00	1.60	138.00	2859.44	37.64 S	1.30 W	0.42	-37.55	
2880.00	1.70	137.00	2879.43	38.06 S	0.92 W	0.52	-37.99	
2900.00	1.70	136.00	2899.42	38.50 S	0.51 W	0.15	-38.44	
2920.00	1.60	136.00	2919.41	38.91 S	0.11 W	0.50	-38.87	
2940.00	1.60	133.00	2939.40	39.30 S	0.29 E	0.42	-39.28	
2960.00	1.50	130.00	2959.40	39.66 S	0.69 E	0.64	-39.65	
2980.00	1.60	127.00	2979.39	40.00 S	1.12 E	0.64	-40.01	
3000.00	1.60	122.00	2999.38	40.31 S	1.58 E	0.70	-40.34	
3020.00	1.70	119.00	3019.37	40.60 S	2.07 E	0.66	-40.66	
3040.00	1.90	118.00	3039.36	40.90 S	2.63 E	1.01	-40.98	
3060.00	1.90	112.00	3059.35	41.18 S	3.23 E	0.99	-41.28	
3080.00	1.80	112.00	3079.34	41.42 S	3.82 E	0.50	-41.55	
3100.00	1.90	114.00	3099.33	41.68 S	4.42 E	0.60	-41.83	
3120.00	1.90	115.00	3119.32	41.95 S	5.02 E	0.16	-42.13	
3140.00	1.90	115.00	3139.31	42.23 S	5.62 E	0.00	-42.44	
3160.00	1.80	111.00	3159.30	42.48 S	6.22 E	0.82	-42.72	

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
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BRIGHT AND COMPANY
S35-21N-2W,CUBA MESA 35-2
SANDOVAL COUNTY,NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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
3180.00	1.50	111.00	3179.29	42.69 S	6.76 E	1.50	-42.95
3200.00	1.50	109.00	3199.28	42.87 S	7.25 E	0.26	-43.15
3220.00	1.50	110.00	3219.28	43.04 S	7.74 E	0.13	-43.34
3240.00	1.40	110.00	3239.27	43.22 S	8.22 E	0.50	-43.54
3260.00	1.40	111.00	3259.27	43.39 S	8.67 E	0.12	-43.73
3280.00	1.30	106.00	3279.26	43.54 S	9.12 E	0.77	-43.90
3300.00	1.20	104.00	3299.26	43.65 S	9.54 E	0.54	-44.03
3320.00	1.30	110.00	3319.25	43.78 S	9.96 E	0.82	-44.17
3340.00	1.40	105.00	3339.24	43.92 S	10.41 E	0.77	-44.33
3360.00	1.30	110.00	3359.24	44.06 S	10.86 E	0.77	-44.49
3380.00	1.30	110.00	3379.23	44.22 S	11.28 E	0.00	-44.67
3400.00	1.40	104.00	3399.23	44.36 S	11.73 E	0.86	-44.82
3420.00	1.60	100.00	3419.22	44.46 S	12.24 E	1.13	-44.95
3440.00	1.70	98.00	3439.21	44.55 S	12.81 E	0.58	-45.07
3460.00	2.00	94.00	3459.20	44.62 S	13.46 E	1.63	-45.16
3480.00	2.10	94.00	3479.19	44.67 S	14.17 E	0.50	-45.24
3500.00	2.30	94.00	3499.18	44.72 S	14.93 E	1.00	-45.33
3517.00	2.40	96.00	3516.16	44.78 S	15.63 E	0.76	-45.42
3531.00	2.40	67.40	3530.15	44.70 S	16.19 E	8.47	-45.36
3563.00	4.50	35.10	3562.09	43.42 S	17.53 E	8.70	-44.14
3593.00	7.60	26.60	3591.92	40.68 S	19.10 E	10.73	-41.47
3624.00	10.60	23.50	3622.53	36.23 S	21.15 E	9.80	-37.12
3655.00	13.60	18.90	3652.84	30.16 S	23.47 E	10.16	-31.16
3687.00	16.40	14.70	3683.74	22.23 S	25.84 E	9.38	-23.34
3718.00	19.10	10.80	3713.27	13.02 S	27.90 E	9.51	-14.22
3749.00	21.50	6.90	3742.34	2.39 S	29.53 E	8.88	-3.68
3780.00	24.20	3.40	3770.91	9.59 N	30.59 E	9.75	8.25
3811.00	26.60	359.50	3798.91	22.88 N	30.91 E	9.43	21.51
3842.00	27.90	1.00	3826.47	37.07 N	30.97 E	4.74	35.68
3874.00	28.80	2.40	3854.63	52.26 N	31.43 E	3.50	50.84
3904.00	30.80	1.10	3880.66	67.16 N	31.88 E	7.00	65.70
3936.00	33.20	359.90	3907.80	84.11 N	32.02 E	7.76	82.64
3967.00	35.40	358.10	3933.41	101.58 N	31.70 E	7.81	100.10
3999.00	37.40	357.40	3959.16	120.55 N	30.96 E	6.38	119.08
4030.00	39.30	358.50	3983.47	139.77 N	30.27 E	6.51	138.32
4061.00	41.20	359.20	4007.13	159.80 N	29.87 E	6.30	158.34
4093.00	43.10	359.20	4030.86	181.27 N	29.57 E	5.94	179.80
4125.00	44.90	359.20	4053.87	203.49 N	29.26 E	5.62	202.02
4155.00	47.90	358.10	4074.56	225.21 N	28.75 E	10.35	223.74
4186.00	52.40	356.00	4094.42	248.97 N	27.51 E	15.42	247.53
4219.00	57.70	355.30	4113.32	275.93 N	25.45 E	16.15	274.55
4251.00	60.80	355.70	4129.68	303.34 N	23.30 E	9.75	302.04
4281.00	62.30	357.40	4143.97	329.67 N	21.71 E	7.06	328.41
4312.00	63.40	358.10	4158.12	357.23 N	20.63 E	4.08	355.99
4344.00	65.00	358.50	4172.04	386.03 N	19.78 E	5.12	384.80
4375.00	66.80	358.50	4184.70	414.31 N	19.03 E	5.81	413.09
4403.00	68.50	357.80	4195.35	440.20 N	18.20 E	6.50	438.98
4438.00	70.40	357.40	4207.63	472.94 N	16.82 E	5.53	471.75
4467.00	73.30	356.40	4216.67	500.45 N	15.33 E	10.52	499.30
4499.00	78.50	355.00	4224.46	531.39 N	13.00 E	16.79	530.31

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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BRIGHT AND COMPANY
S35-21N-2W, CUBA MESA 35-2
SANDOVAL COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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	
4555.00	87.87	356.00	4231.10	586.76 N	8.65 E	16.82	585.82	CASING POINT	
4577.00	88.25	356.00	4231.84	608.69 N	7.12 E	1.73	607.80		
4609.00	89.50	353.50	4232.47	640.55 N	4.19 E	8.73	639.76		
4640.00	87.50	354.50	4233.28	671.37 N	0.95 E	7.21	670.69		
4673.00	86.37	356.00	4235.05	704.20 N	1.78 W	5.68	703.61		
4705.00	86.75	356.00	4236.97	736.07 N	4.01 W	1.19	735.54		
4737.00	87.75	355.50	4238.50	767.94 N	6.38 W	3.49	767.49		
4768.00	85.87	356.00	4240.23	798.81 N	8.67 W	6.27	798.43		
4800.00	85.12	355.00	4242.74	830.61 N	11.17 W	3.90	830.31		
4833.00	84.25	355.50	4245.80	863.36 N	13.89 W	3.04	863.14		
4864.00	83.12	357.50	4249.21	894.11 N	15.78 W	7.38	893.94		
4896.00	83.62	357.50	4252.90	925.86 N	17.16 W	1.56	925.73		
4928.00	82.25	358.00	4256.84	957.60 N	18.41 W	4.55	957.49		
4961.00	81.00	357.50	4261.64	990.22 N	19.69 W	4.07	990.13		
4993.00	82.00	357.50	4266.37	1021.84 N	21.07 W	3.12	1021.78		
5025.00	83.37	356.50	4270.45	1053.53 N	22.73 W	5.28	1053.52		
5057.00	84.62	357.00	4273.80	1085.30 N	24.54 W	4.20	1085.34		
5089.00	85.75	357.00	4276.48	1117.15 N	26.20 W	3.53	1117.23		
5122.00	86.37	356.00	4278.75	1150.01 N	28.22 W	3.56	1150.14		
5154.00	83.50	356.50	4281.58	1181.81 N	30.30 W	9.10	1182.01		
5186.00	84.25	356.50	4284.99	1213.57 N	32.24 W	2.34	1213.82		
5219.00	85.37	356.50	4287.97	1246.37 N	34.25 W	3.39	1246.68		
5251.00	86.75	356.00	4290.17	1278.22 N	36.34 W	4.58	1278.59		
5283.00	88.25	356.00	4291.57	1310.12 N	38.57 W	4.69	1310.55		
5316.00	86.37	355.00	4293.12	1342.98 N	41.15 W	6.45	1343.49		
5348.00	86.87	354.50	4295.00	1374.79 N	44.08 W	2.21	1375.40		
5381.00	85.37	355.50	4297.24	1407.58 N	46.94 W	5.46	1408.29		
5412.00	83.50	356.50	4300.24	1438.36 N	49.10 W	6.83	1439.13		
5444.00	83.87	356.50	4303.76	1470.11 N	51.04 W	1.16	1470.93		
5477.00	85.50	356.00	4306.82	1502.89 N	53.19 W	5.16	1503.78		
5507.00	86.75	356.00	4308.85	1532.75 N	55.28 W	4.17	1533.70		
5540.00	84.75	356.50	4311.29	1565.59 N	57.43 W	6.25	1566.60		
5572.00	85.37	357.00	4314.05	1597.42 N	59.24 W	2.48	1598.48		
5604.00	83.37	357.00	4317.19	1629.22 N	60.90 W	6.25	1630.32		
5637.00	84.26	358.00	4320.74	1661.99 N	62.33 W	4.04	1663.13		
5669.00	85.00	358.00	4323.74	1693.83 N	63.44 W	2.32	1694.99		
5701.00	83.50	358.50	4326.94	1725.66 N	64.42 W	4.94	1726.82		
5734.00	83.87	358.00	4330.58	1758.44 N	65.42 W	1.88	1759.62		
5766.00	85.75	358.50	4333.47	1790.29 N	66.39 W	6.08	1791.49		
5798.00	87.35	357.50	4335.40	1822.22 N	67.51 W	5.89	1823.42		
5831.00	85.00	358.00	4337.60	1855.11 N	68.80 W	7.28	1856.35		
5863.00	85.50	358.00	4340.25	1886.98 N	69.91 W	1.56	1888.24		
5896.00	86.62	357.50	4342.51	1919.88 N	71.21 W	3.72	1921.16		
5927.00	87.37	357.50	4344.14	1950.81 N	72.56 W	2.42	1952.12		
5959.00	86.12	357.50	4345.96	1982.72 N	73.95 W	3.91	1984.06		
5992.00	86.62	357.00	4348.04	2015.62 N	75.53 W	2.14	2017.00		
6024.00	87.87	356.50	4349.58	2047.53 N	77.34 W	4.21	2048.96		
6056.00	89.12	356.50	4350.42	2079.46 N	79.30 W	3.91	2080.94		
6089.00	87.00	357.00	4351.54	2112.39 N	81.16 W	6.60	2113.92		
6121.00	85.87	358.00	4353.53	2144.29 N	82.56 W	4.71	2145.85		

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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BRIGHT AND COMPANY
S35-21N-2W, CUBA MESA 35-2
SANDOVAL COUNTY, NEW MEXICO

SURVEY LISTING Page 6
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

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
6153.00	86.87	358.00	4355.56	2176.21 N	83.67 W	3.12	2177.79
6186.00	85.00	359.50	4357.90	2209.12 N	84.39 W	7.26	2210.70
6206.00	85.25	359.50	4359.60	2229.04 N	84.56 W	1.25	2230.61
6238.00	84.37	1.00	4362.49	2260.91 N	84.43 W	5.42	2262.44
6270.00	85.00	0.00	4365.45	2292.77 N	84.15 W	3.68	2294.26
6303.00	83.12	1.50	4368.87	2325.59 N	83.72 W	7.27	2327.03
6335.00	83.62	1.00	4372.56	2357.37 N	83.03 W	2.20	2358.74
6366.00	84.75	1.50	4375.70	2388.20 N	82.35 W	3.98	2389.52
6397.00	86.12	1.50	4378.17	2419.09 N	81.54 W	4.42	2420.34
6429.00	87.72	1.50	4379.89	2451.03 N	80.71 W	5.00	2452.22
6461.00	85.37	1.50	4381.82	2482.96 N	79.87 W	7.34	2484.08
6491.00	86.12	1.00	4384.05	2512.87 N	79.22 W	3.00	2513.93
6524.00	87.50	0.50	4385.88	2545.82 N	78.79 W	4.45	2546.83
6556.00	85.00	0.00	4387.98	2577.74 N	78.65 W	7.97	2578.72
6588.00	85.37	359.50	4390.66	2609.63 N	78.79 W	1.94	2610.58
6611.00	86.75	0.00	4392.24	2632.58 N	78.89 W	6.38	2633.51
6642.00	87.12	359.00	4393.90	2663.53 N	79.16 W	3.44	2664.45
6672.00	85.00	359.50	4395.96	2693.45 N	79.55 W	7.26	2694.36
6702.00	86.37	359.50	4398.22	2723.37 N	79.81 W	4.57	2724.26
6733.00	87.00	358.50	4400.01	2754.31 N	80.35 W	3.81	2755.19
6763.00	84.25	358.50	4402.30	2784.21 N	81.13 W	9.17	2785.10
6794.00	85.00	359.50	4405.20	2815.07 N	81.67 W	4.02	2815.95
6824.00	87.25	359.50	4407.23	2845.00 N	81.93 W	7.50	2845.86
6854.00	88.25	359.50	4408.41	2874.97 N	82.20 W	3.33	2875.82
6885.00	87.50	359.00	4409.56	2905.95 N	82.60 W	2.91	2906.78
6915.00	88.25	359.00	4410.67	2935.92 N	83.12 W	2.50	2936.75
6945.00	87.00	359.00	4411.91	2965.89 N	83.65 W	4.17	2966.72
6976.00	88.00	358.50	4413.26	2996.85 N	84.32 W	3.60	2997.68
7006.00	89.00	358.50	4414.05	3026.83 N	85.11 W	3.33	3027.66
7036.00	90.00	358.50	4414.31	3056.82 N	85.89 W	3.33	3057.66
7073.00	91.25	358.50	4413.91	3093.80 N	86.86 W	3.38	3094.65 PROJECTION TO BIT

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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S35-21N-2W, CUBA MESA 35-2
SANDOVAL COUNTY, NEW MEXICO

SURVEY LISTING Page 7
Your ref : MWD SURVEYS
Last revised : 17-Nov-93

				Comments in wellpath
				=====
MD	TVD	Rectangular Coords.		Comment
4555.00	4231.10	586.76 N	8.65 E	CASING POINT
7073.00	4413.91	3093.80 N	86.86 W	PROJECTION TO BIT

All data is in feet unless otherwise stated
Coordinates from OFFSET WELL and TVD from wellhead.
Bottom hole distance is 3095.02 on azimuth 358.39 degrees from wellhead.
Vertical section is from wellhead on azimuth 357.50 degrees.
Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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BRIGHT AND COMPANY

Structure : S35-21N-2W Well : CUBA MESA 35-2
Field : SANDOVAL COUNTY Location : NEW MEXICO

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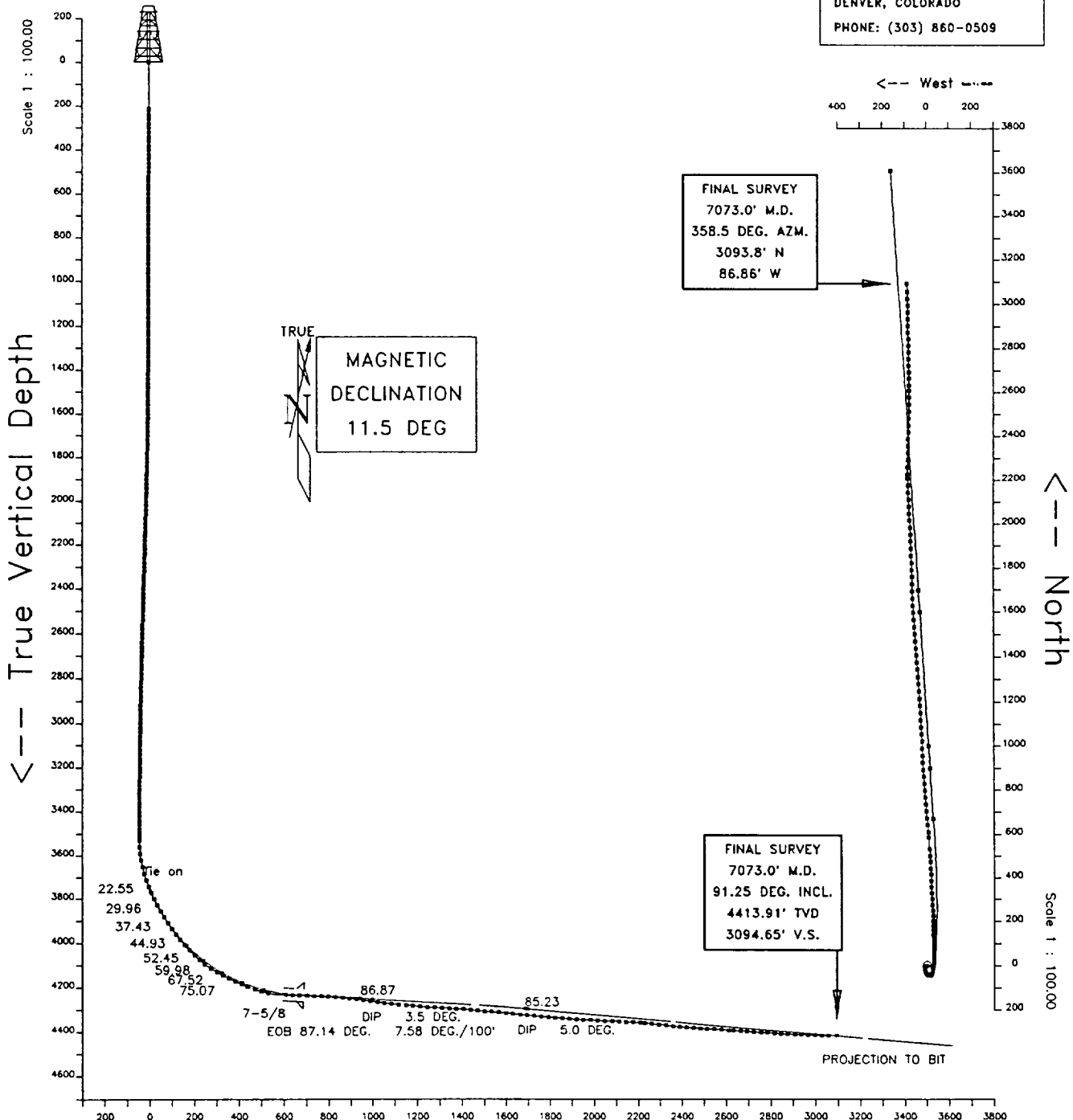
NOV 24 1993

OIL CON. DIV.

Point	MD	Inc	Dir	TVD	North	East
Tie on	3687	16.40	14.70	3684	-22	26
End of Build	4632	87.14	356.31	4234	670	30
End of Hold	4863	87.14	356.31	4246	901	15
End of Drop	4964	86.50	356.31	4251	1001	8
End of Hold	5565	86.50	356.31	4288	1600	-30
End of Drop	5665	85.00	356.31	4295	1700	-37
End of Hold	7587	85.00	356.31	4463	3610	-160



DRAWN BY: WALLY HOLBROOK
DATE: NOVEMBER 17, 1993
TVD REFERENCED WELLHEAD.
DENVER, COLORADO
PHONE: (303) 860-0509



Vertical Section on 357.97 azimuth with reference 0.00 N, 0.00 E from OFFSET WELL