



1700 Broadway Suite 1450 Denver Colorado 80290
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Case 10789

RECEIVED
DIVISION
NOV 18 1993

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

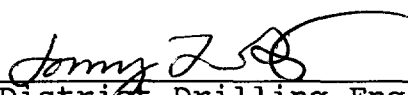
OFFICE
DENVER

SURVEY CERTIFICATION SHEET

Company Bright and Co. 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

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

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

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

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.
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Declination is 11.45 degrees, Convergence is -0.59 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq

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

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

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

BRIGHT AND COMPANY
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

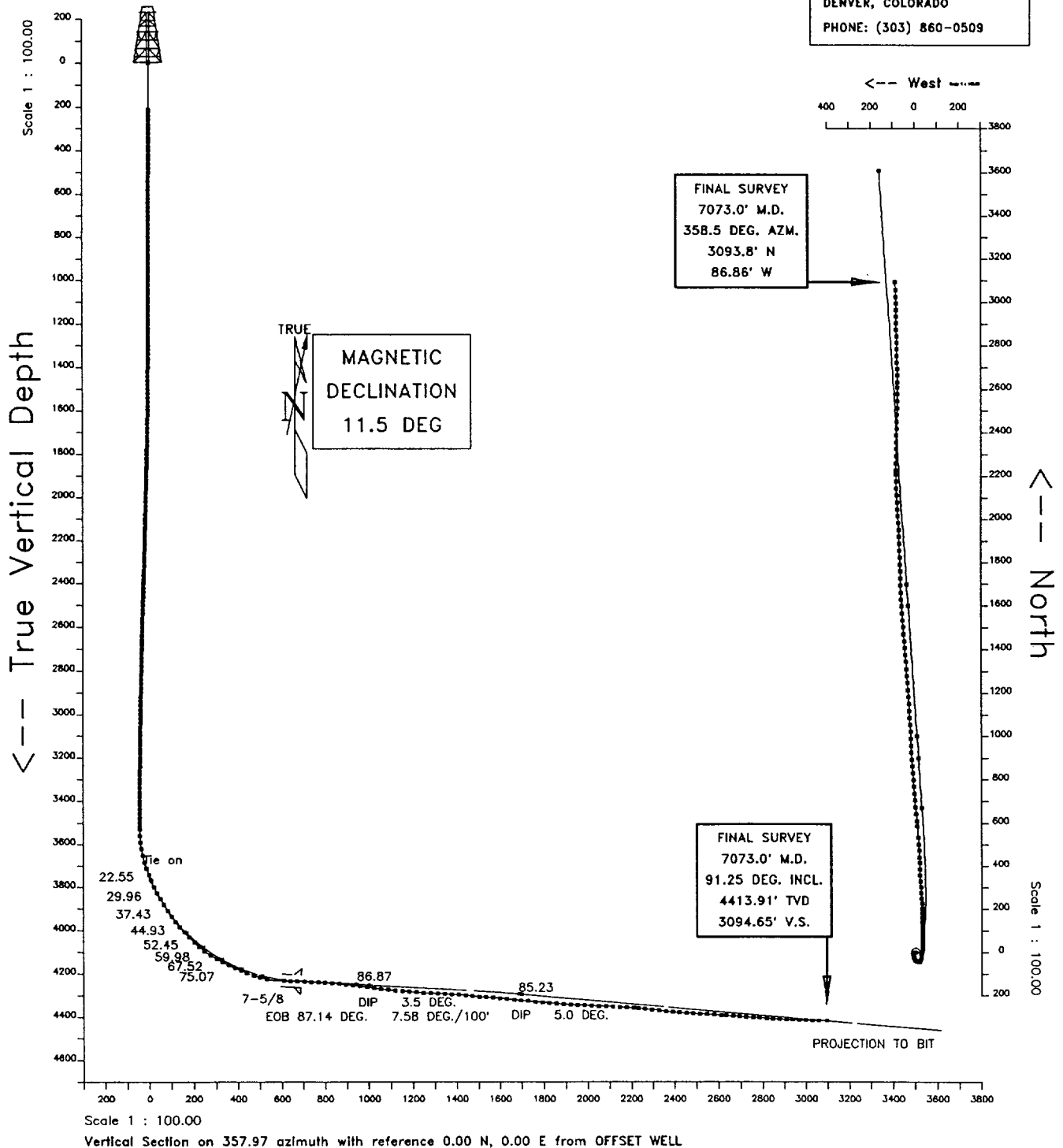
BRIGHT AND COMPANY

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

----- WELL PROFILE DATA -----						
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



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY



POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

August 30, 1993

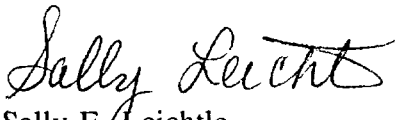
HINKLE, COX, EATON,
COFFIELD & HENSLEY
Attorneys at Law
P. O. Box 2068
Santa Fe, New Mexico 87501

RE: CASE NO. 10789
ORDER NO. R-9951

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

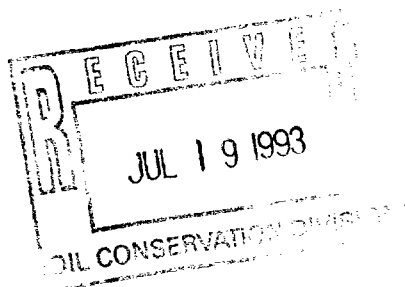
Sincerely,


Sally E. Leichtle
Administrative Secretary

cc: BLM - Farmington
OCD Aztec Office

PROPOSED ADVERTISEMENT

Case No. 10789: Application of Bright & Company for approval of a second well in a high angle/horizontal directional drilling pilot project, an unorthodox surface oil well location, and special operating rules therefor, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks to drill a second high angle/horizontal well in the Rio Puerco-Mancos Oil Pool within its high angle/horizontal directional drilling pilot project previously approved by Division Order No. R-9676 by commencing its Cuba Mesa Unit 35 Well No. 2 at an unorthodox surface location 1,010 feet from the South line and 820 feet from the West line (Unit M) of Section 35, Township 21 North, Range 2 West, drill vertically to a depth of approximately 3,539 feet, kick-off in a north-northwesterly direction, build angle up to approximately 87.25 degrees, drill horizontally for approximately 3,613 feet, and bottom said wellbore at a location approximately 660 feet from the North line and 660 feet from the West line of said Section 35. Said well is to be dedicated to the W $\frac{1}{2}$ of said Section 35 forming a standard 320-acre oil spacing and proration unit for said pool. Applicant further requests a special oil allowable of 19,200 barrels for the 60 day period commencing the day the well is spudded, and an additional allowable of 320 barrels of oil per day for the well after completion. Applicant proposes to keep the horizontal displacement of said well's producing interval within the allowed 660 foot setback from the outer boundary of the assigned spacing unit. Said unit is located approximately 3.5 miles west by south of Cuba, New Mexico.



HINKLE, COX, EATON, COFFIELD & HENSLEY

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PAUL W. EATON
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
STUART D. SHANER
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FAX (806) 372-9761

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FAX (505) 768-1529

*NOT LICENSED IN NEW MEXICO

Florene Davidson
Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87503

Dear Florene:

Please find enclosed the original and two copies of an Application, Exhibits A through C to the Application, and a proposed advertisement, on behalf of Bright & Company.

Very truly yours,

HINKLE, COX, EATON, COFFIELD
& HENSLEY

Fran Sowers
Fran Sowers, Secretary
to James Bruce

Enclosures

VIA HAND DELIVERY

