



Cross Timbers Operating Company

TABULATION OF DEVIATION TESTS
CROSS TIMBERS OPERATING COMPANY



See Attached Survey Data as obtained by Baker Hughes Inteq

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above survey details the deviation tests taken on CROSS TIMBERS OPERATING COMPANY'S

***Carson Federal "I" #1R in Section 34, T28N, R04W,
API #30-039-26505
San Juan County, New Mexico.***

Signed

Jeffrey W. Patton 6/15/01

Printed Name

Jeffrey W. Patton

Title

Drilling Engineer

THE STATE OF NEW MEXICO)

) SS.

COUNTY OF SAN JUAN)

BEFORE ME, the undersigned authority, on this day personally, Jeffrey W. Patton, known to me to be Drilling Engineer for Cross Timbers Operating Company and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN to before me, a Notary Public in and for said County and State this 15th day of June, 2001.

Shelby C. Perkins

Notary Public

My Commission Expires:
S:\Forms\Deviation Tests

9-1-2004

CROSS TIMBERS OPERATING CO.



Carson Fed I No. 1R

slot #1

RIO ARRIBA COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MWD Survey
Our ref : svy1673
License :

Date printed : 15-Jun-2001
Date created : 24-Apr-2001
Last revised : 15-Jun-2001

Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico West (3003), Spheroid: Clarke - 1866

Reference North is Grid North



INTEQ

2105 Market Street
 Midland, Texas 79703
 Tel. (915) 694-9517
 Fax (915) 694-5648

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
400.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
449.00	0.50	192.97	49.00	0.21 S	0.05 W	1.02	-0.03
510.00	1.30	140.10	109.99	1.00 S	0.34 E	1.76	-0.68
650.00	2.50	312.10	249.96	0.17 S	0.91 W	2.71	0.78
747.00	5.20	305.00	346.73	3.77 N	6.08 W	2.82	7.05
840.00	7.70	305.00	439.14	9.76 N	14.64 W	2.69	17.22
934.00	10.00	295.00	532.02	16.83 N	27.20 W	2.93	31.51
1012.00	11.90	291.00	608.59	22.57 N	40.84 W	2.62	46.31
1106.00	12.50	290.00	700.47	29.52 N	59.45 W	0.68	66.17
1200.00	15.00	290.00	791.77	37.16 N	80.45 W	2.66	88.50
1295.00	15.00	290.70	883.53	45.71 N	103.50 W	0.19	113.08
1368.00	14.20	288.70	954.17	51.92 N	120.82 W	1.30	131.46
1420.00	14.00	288.70	1004.61	55.99 N	132.82 W	0.38	144.11
1483.00	15.00	290.00	1065.60	61.22 N	147.70 W	1.67	159.87
1581.00	15.50	290.70	1160.15	70.18 N	171.86 W	0.54	185.64
1671.00	15.00	291.30	1246.98	78.66 N	193.96 W	0.58	209.31
1767.00	16.30	292.00	1339.42	88.22 N	218.03 W	1.37	235.20
1862.00	15.80	292.00	1430.72	98.06 N	242.38 W	0.53	261.47
1955.00	14.80	291.30	1520.42	107.12 N	265.19 W	1.09	286.01
2017.00	15.10	290.80	1580.32	112.87 N	280.12 W	0.53	302.00
2081.00	16.00	290.90	1641.98	118.97 N	296.15 W	1.41	319.15
2176.00	15.30	291.90	1733.45	128.32 N	320.01 W	0.79	344.78
2271.00	15.90	291.97	1824.95	137.86 N	343.71 W	0.63	370.33
2367.00	15.70	291.70	1917.33	147.58 N	367.97 W	0.22	396.46
2430.00	15.90	292.70	1977.95	154.07 N	383.85 W	0.54	413.62
2493.00	15.90	293.00	2038.54	160.77 N	399.76 W	0.13	430.87
2525.00	16.30	294.00	2069.28	164.31 N	407.90 W	1.52	439.74
2589.00	17.40	294.00	2130.53	171.85 N	424.84 W	1.72	458.28
2651.00	18.40	296.00	2189.53	179.91 N	442.11 W	1.89	477.31
2715.00	18.40	294.00	2250.26	188.45 N	460.41 W	0.99	497.48
2778.00	17.00	293.00	2310.28	196.09 N	477.97 W	2.27	516.62
2842.00	16.50	291.57	2371.56	203.09 N	495.04 W	1.01	535.06
2937.00	14.00	291.90	2463.21	212.34 N	518.25 W	2.63	560.05
3001.00	14.90	291.93	2525.18	218.30 N	533.07 W	1.41	576.02
3096.00	14.10	291.10	2617.16	227.03 N	555.19 W	0.87	599.80
3159.00	15.30	291.20	2678.09	232.79 N	570.10 W	1.91	615.79



INTEQ

3234.00	14.40	294.00	2750.59	240.17 N	587.85 W	1.53	635.00
3349.00	13.80	294.00	2862.12	251.56 N	613.44 W	0.52	663.00
3445.00	13.90	293.20	2955.33	260.76 N	634.50 W	0.23	685.97
3538.00	13.50	292.00	3045.69	269.23 N	654.83 W	0.53	707.99
3632.00	13.40	293.00	3137.11	277.59 N	675.03 W	0.27	729.85
3727.00	13.70	295.00	3229.46	286.65 N	695.36 W	0.59	752.09
3758.00	14.20	295.00	3259.55	289.81 N	702.13 W	1.61	759.55
3853.00	13.50	292.00	3351.79	298.89 N	722.98 W	1.06	782.28
3948.00	13.20	292.00	3444.22	307.10 N	743.31 W	0.32	804.21
4051.00	13.80	297.60	3544.38	317.20 N	765.11 W	1.40	828.20
4152.00	13.70	296.90	3642.49	328.19 N	786.45 W	0.19	852.10
4246.00	11.40	289.50	3734.24	336.33 N	805.13 W	2.98	872.47
4340.00	10.00	286.10	3826.60	341.70 N	821.73 W	1.63	889.88
4437.00	8.90	289.00	3922.29	346.47 N	836.92 W	1.24	905.75
4501.00	8.40	290.60	3985.56	349.73 N	845.98 W	0.87	915.37
4595.00	7.10	291.30	4078.70	354.26 N	857.82 W	1.39	928.04
5012.00	1.00	235.00	4494.53	361.54 N	884.84 W	1.58	955.83
5220.00	1.00	80.00	4702.52	360.81 N	884.54 W	0.94	955.28
5501.00	0.50	190.00	4983.50	360.03 N	882.34 W	0.45	952.95
5720.00	0.50	340.00	5202.50	359.99 N	882.83 W	0.44	953.39
5943.00	0.50	320.00	5425.49	361.65 N	883.79 W	0.08	954.90
6178.00	1.00	350.00	5660.47	364.45 N	884.80 W	0.26	956.88
6361.00	1.00	0.00	5843.44	367.62 N	885.08 W	0.10	958.32
6601.00	0.75	355.00	6083.41	371.28 N	885.22 W	0.11	959.81
6820.00	0.50	275.00	6302.40	372.79 N	886.29 W	0.38	961.37

2325/N
- 378 +1085/E

1952/N 1971/E