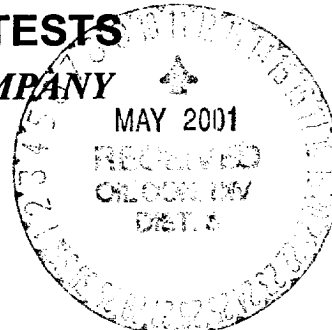




Cross Timbers Operating Company

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

*Duff Gas Com #3 in Section 27, T30N, R12W,
API #30-045-30544
San Juan County, New Mexico.*

Signed

Printed Name

Title

Jeffrey W. Patton

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 10th day of May, 2001.

Notary Public

My Commission Expires:
S:\Forms\Deviation Tests

9-1-2004

Holly C. Perkins



INTEQ

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

CROSS TIMBERS OPERATING CO.

Duff Gas Com No. 3

slot #1

SAN JUAN COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : Gyro Survey
Our ref : svy1694
License :

Date printed : 9-May-2001
Date created : 9-May-2001
Last revised : 9-May-2001

Field is centred on n36 46 47.000,w108 4 44
Structure is centred on 428220.000,2103177.000,999.00000,N

Slot location is n36 46 47.082,w108 4 42.374
Slot Grid coordinates are N 2103177.000, E 428220.000
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



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Gyro Survey

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N 0.00 E	0.00	0.00
100.00	0.15	219.98	100.00	0.10 S 0.08 W	0.15	0.06
200.00	0.26	280.46	200.00	0.16 S 0.39 W	0.23	0.35
300.00	0.65	24.43	300.00	0.40 N 0.38 W	0.76	0.46
400.00	0.34	201.60	400.00	0.64 N 0.26 W	1.00	0.39
500.00	0.74	275.56	499.99	0.42 N 1.01 W	0.73	1.08
600.00	0.91	300.57	599.98	0.89 N 2.34 W	0.39	2.47
700.00	0.79	290.16	699.97	1.53 N 3.66 W	0.20	3.90
800.00	0.26	345.92	799.97	1.98 N 4.36 W	0.68	4.68
900.00	0.15	28.18	899.97	2.31 N 4.35 W	0.18	4.74
1000.00	0.37	122.79	999.97	2.25 N 4.02 W	0.41	4.40
1100.00	0.34	130.95	1099.96	1.89 N 3.53 W	0.06	3.85
1200.00	0.86	194.22	1199.96	0.97 N 3.49 W	0.77	3.62
1300.00	0.86	215.69	1299.95	0.36 S 4.12 W	0.32	3.95
1400.00	1.05	251.72	1399.93	1.26 S 5.42 W	0.61	5.05
1500.00	0.88	288.05	1499.92	1.30 S 7.02 W	0.62	6.60
1600.00	0.96	316.50	1599.91	0.46 S 8.33 W	0.46	8.05
1700.00	0.87	302.12	1699.90	0.55 N 9.54 W	0.24	9.45
1800.00	0.72	332.99	1799.89	1.51 N 10.47 W	0.45	10.55
1900.00	0.18	156.91	1899.89	1.92 N 10.69 W	0.90	10.85
2000.00	0.54	345.52	1999.88	2.23 N 10.74 W	0.72	10.97
2100.00	0.64	344.68	2099.88	3.22 N 11.01 W	0.10	11.43
2200.00	0.06	180.25	2199.88	3.70 N 11.15 W	0.69	11.68
2300.00	0.40	203.46	2299.88	3.33 N 11.29 W	0.35	11.74
2400.00	0.67	190.57	2399.87	2.43 N 11.54 W	0.29	11.79
2500.00	0.56	181.67	2499.87	1.37 N 11.66 W	0.14	11.69
2600.00	0.44	160.78	2599.86	0.52 N 11.55 W	0.22	11.41
2700.00	0.60	182.05	2699.86	0.37 S 11.44 W	0.25	11.12
2800.00	0.76	196.16	2799.85	1.53 S 11.65 W	0.23	11.08
2900.00	0.98	212.31	2899.84	2.88 S 12.29 W	0.33	11.43
3000.00	0.97	222.54	2999.83	4.23 S 13.32 W	0.17	12.16
3050.00	0.45	158.75	3049.82	4.73 S 13.53 W	1.75	12.27

MWD Survey

Measured	Inclin.	Azimuth	True Vert	RECTANGULAR	Dogleg	Vert
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Depth	Degrees	Degrees	Depth	C O O R D I N A T E S		Deg/100ft	Sect
3000.00	0.97	222.54	2999.81	4.23 S	13.32 W	0.00	11.72
3055.00	0.60	219.86	3054.80	4.80 S	13.82 W	0.68	12.05
3086.00	0.80	289.86	3085.80	4.85 S	14.13 W	2.64	12.33
3118.00	5.70	310.50	3117.74	3.74 S	15.55 W	15.50	13.99
3150.00	12.20	314.00	3149.34	0.35 S	19.19 W	20.37	18.41
3181.00	19.40	314.40	3179.14	5.53 N	25.23 W	23.23	25.80
3213.00	26.50	311.90	3208.59	14.03 N	34.36 W	22.39	36.85
3245.00	32.10	308.30	3236.49	24.08 N	46.35 W	18.34	51.09
3276.00	37.50	305.30	3261.94	34.64 N	60.53 W	18.27	67.56
3308.00	42.60	303.60	3286.43	46.27 N	77.51 W	16.30	87.03
3340.00	47.70	304.40	3308.99	58.96 N	96.31 W	16.04	108.52
3371.00	53.30	305.40	3328.70	72.65 N	115.91 W	18.23	131.06
3403.00	58.60	305.80	3346.61	88.08 N	137.46 W	16.59	155.93
3435.00	61.30	306.20	3362.63	104.36 N	159.87 W	8.51	181.86
3466.00	62.50	306.00	3377.23	120.47 N	181.96 W	3.91	207.45
3498.00	64.20	306.50	3391.59	137.38 N	205.03 W	5.49	234.18
3530.00	67.10	307.50	3404.78	154.93 N	228.31 W	9.50	261.28
3561.00	69.10	308.00	3416.34	172.53 N	251.05 W	6.62	287.89
3592.00	72.80	309.20	3426.46	190.81 N	273.94 W	12.48	314.82
3624.00	77.60	309.60	3434.63	210.45 N	297.84 W	15.05	343.07
3655.00	82.80	309.50	3439.90	229.89 N	321.39 W	16.78	370.94
3702.00	87.20	311.00	3444.00	260.14 N	357.11 W	9.89	413.42
3734.00	89.30	314.70	3444.98	281.89 N	380.55 W	13.29	441.81
3765.00	89.40	314.50	3445.33	303.65 N	402.63 W	0.72	468.87
3830.00	89.20	313.00	3446.12	348.59 N	449.57 W	2.33	526.08
3861.00	89.70	312.40	3446.42	369.62 N	472.36 W	2.52	553.63
3893.00	89.40	310.80	3446.67	390.86 N	496.28 W	5.09	582.35
3925.00	89.00	309.30	3447.12	411.45 N	520.78 W	4.85	611.43
3956.00	88.30	307.10	3447.85	430.61 N	545.13 W	7.45	640.00
3988.00	88.30	305.70	3448.80	449.59 N	570.87 W	4.37	669.87
4020.00	88.40	304.40	3449.72	467.96 N	597.06 W	4.07	699.99
4052.00	89.30	303.00	3450.36	485.71 N	623.68 W	5.20	730.37
4084.00	89.90	301.00	3450.59	502.67 N	650.81 W	6.53	761.04
4115.00	90.00	300.00	3450.61	518.40 N	677.52 W	3.24	790.97
4147.00	90.40	297.00	3450.50	533.67 N	705.64 W	9.46	822.14
4181.00	90.90	292.00	3450.12	547.76 N	736.57 W	14.78	855.70
4212.00	91.20	287.70	3449.55	558.29 N	765.71 W	13.90	886.59
4244.00	91.60	287.30	3448.77	567.91 N	796.22 W	1.77	918.56



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4276.00	91.60	286.60	3447.87	577.23 N	826.82 W	2.19	950.54
4307.00	91.80	286.00	3446.95	585.93 N	856.56 W	2.04	981.52
4338.00	91.30	281.60	3446.11	593.32 N	886.65 W	14.28	1012.49
4369.00	92.00	280.10	3445.22	599.15 N	917.08 W	5.34	1043.38
4401.00	92.00	279.30	3444.10	604.54 N	948.60 W	2.50	1075.20
4433.00	90.00	276.50	3443.55	608.94 N	980.29 W	10.75	1106.91
4465.00	89.40	275.30	3443.71	612.23 N	1012.12 W	4.19	1138.47
4497.00	87.90	272.60	3444.47	614.43 N	1044.03 W	9.65	1169.82
4560.00	87.40	266.80	3447.05	614.10 N	1106.95 W	9.23	1230.39
4592.00	87.90	266.60	3448.36	612.26 N	1138.87 W	1.68	1260.67
4624.00	88.00	266.80	3449.51	610.42 N	1170.80 W	0.70	1290.96
4656.00	89.60	267.20	3450.18	608.74 N	1202.74 W	5.15	1321.31
4688.00	89.90	267.20	3450.32	607.18 N	1234.70 W	0.94	1351.70
4719.00	89.90	267.30	3450.37	605.69 N	1265.67 W	0.32	1381.16
4751.00	90.00	267.30	3450.40	604.19 N	1297.63 W	0.31	1411.57
4783.00	90.00	267.70	3450.40	602.79 N	1329.60 W	1.25	1442.02
4815.00	90.10	267.70	3450.37	601.51 N	1361.58 W	0.31	1472.50
4847.00	89.70	267.80	3450.43	600.25 N	1393.55 W	1.29	1502.99
4879.00	90.40	266.80	3450.40	598.74 N	1425.52 W	3.81	1533.40
4911.00	89.70	266.90	3450.37	596.98 N	1457.47 W	2.21	1563.74
4942.00	90.50	266.10	3450.32	595.09 N	1488.41 W	3.65	1593.06
4974.00	90.80	265.20	3449.96	592.66 N	1520.31 W	2.96	1623.17
5006.00	91.20	264.70	3449.40	589.85 N	1552.19 W	2.00	1653.15
5038.00	90.70	264.50	3448.87	586.84 N	1584.04 W	1.68	1683.05
5070.00	89.20	264.50	3448.90	583.77 N	1615.89 W	4.69	1712.94
5102.00	89.30	264.10	3449.31	580.59 N	1647.73 W	1.29	1742.79
5167.00	89.50	264.00	3449.99	573.85 N	1712.38 W	0.34	1803.32



CROSS TIMBERS OPERATING CO.

Structure : Duff Gas Corn No. 3

Slot : slot #1

Field :

Location : SAN JUAN COUNTY, NEW MEXICO



INTEQ

