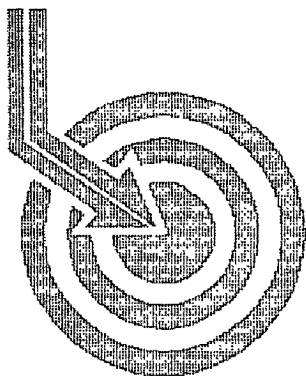




Scientific Drilling

RCVD OCT 30 '09

OIL CONS. DIV.

DIST. 3

30-039-30115

CONOCOPHILLIPS

Field: Jacrilla

Site: SEC 32-T26N-R3W

Well: Jicarilla D #22

Wellpath: DH - Job #33D0909154

Survey: 09/06/09-09/16/09

Surface 1215/S 1060/W
Top of Fish 1274/S 1166/W
B.H.L. 1283/S 1174/W

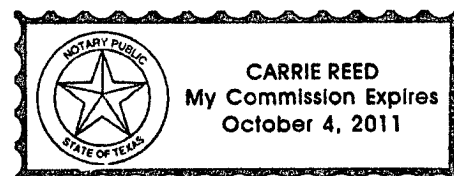
10/30/09

This survey is correct to the best of my knowledge
and is supported by actual field data.

Robert.....Company Representative

Notorized this date 30th of September, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas



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Scientific Drilling International

COP Survey Report

Company: CONOCOPHILLIPS **Date:** 09/29/2009 **Time:** 15:11:01 **Page:** 1
Field: Jacrilla **Co-ordinate(NE) Reference:** Site: SEC 32-T26N-R3W, True North
Site: SEC 32-T26N-R3W **Vertical (TVD) Reference:** SITE 0.0
Well: Jicarilla D #22 **Section (VS) Reference:** Well (0.00N,0.00E,65.00Azi)
Wellpath: DH - Job #33D0909154 **Survey Calculation Method:** Minimum Curvature **Db:** Sybase

Survey: 09/06/09-09/16/09 **Start Date:** 09/06/2009
Company: Scientific Drilling Internatio **Engineer:** Burrus/Webb/Wagner/Rogers
Tool: E-field;E-field MWD **Tied-to:** From Surface

Site: SEC 32-T26N-R3W

Site Position: **Northing:** 1979748.68 ft **Latitude:** 36 26 20.820 N
From: Map **Easting:** 694200.37 ft **Longitude:** 107 10 23.232 W
Position Uncertainty: 0.00 ft **North Reference:** True
Ground Level: 7332.00 ft **Grid Convergence:** 0.39 deg

Well: Jicarilla D #22 **Slot Name:**
 131' Slant @ N65.00E
Well Position: +N/-S 0.00 ft **Northing:** 1979748.68 ft **Latitude:** 36 26 20.820 N
 +E/-W 0.00 ft **Easting:** 694200.37 ft **Longitude:** 107 10 23.232 W
Position Uncertainty: 0.00 ft

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
455.00	0.79	83.62	454.99	2.97	0.35	3.12	0.17	3.14	83.62
581.00	0.89	77.53	580.97	4.75	0.66	4.94	0.11	4.98	82.43
805.00	0.98	74.38	804.94	8.34	1.55	8.48	0.05	8.62	79.66
986.00	0.99	85.67	985.92	11.33	2.08	11.53	0.11	11.72	79.76
1166.00	0.89	80.25	1165.89	14.13	2.44	14.46	0.07	14.66	80.43
1211.00	0.89	74.42	1210.89	14.81	2.59	15.14	0.20	15.36	80.29
1256.00	1.86	73.10	1255.87	15.88	2.90	16.17	2.16	16.43	79.85
1301.00	2.87	71.41	1300.83	17.73	3.47	17.94	2.25	18.27	79.06
1346.00	4.08	67.22	1345.75	20.44	4.45	20.48	2.75	20.96	77.75
1390.00	4.91	61.78	1389.61	23.89	5.94	23.59	2.12	24.32	75.86
1435.00	4.85	60.67	1434.45	27.71	7.79	26.94	0.25	28.04	73.88
1526.00	4.69	62.18	1525.14	35.26	11.41	33.59	0.22	35.47	71.24
1616.00	4.51	58.79	1614.85	42.45	14.96	39.87	0.36	42.58	69.44
1706.00	4.89	54.42	1704.54	49.74	19.02	46.01	0.58	49.79	67.54
1795.00	4.55	56.54	1793.24	56.96	23.18	52.04	0.43	56.97	66.00
1885.00	4.39	54.35	1882.97	63.88	27.15	57.82	0.26	63.88	64.85
1975.00	5.02	59.47	1972.67	71.18	31.16	64.01	0.84	71.19	64.04
2065.00	4.77	58.02	2062.34	78.82	35.14	70.58	0.31	78.84	63.53
2155.00	4.81	57.54	2152.02	86.27	39.15	76.94	0.06	86.32	63.03
2245.00	5.75	58.71	2241.64	94.49	43.52	83.97	1.05	94.58	62.61
2335.00	5.55	58.69	2331.20	103.30	48.12	91.54	0.22	103.42	62.27
2425.00	3.79	57.08	2420.90	110.57	52.00	97.76	1.96	110.73	61.99
2515.00	2.62	53.94	2510.76	115.54	54.82	101.92	1.31	115.73	61.72
2605.00	0.88	40.74	2600.71	118.19	56.56	104.03	1.97	118.41	61.47
2695.00	0.71	33.54	2690.70	119.29	57.55	104.79	0.22	119.55	61.23
2785.00	0.69	31.36	2780.70	120.22	58.48	105.38	0.04	120.52	60.97
2875.00	0.67	33.52	2870.69	121.12	59.38	105.95	0.04	121.46	60.73
2965.00	0.74	25.09	2960.68	122.02	60.34	106.49	0.14	122.40	60.46
3055.00	0.94	33.25	3050.67	123.09	61.49	107.14	0.26	123.53	60.15
3145.00	0.48	309.90	3140.67	123.56	62.34	107.26	1.12	124.06	59.83
3235.00	0.62	314.30	3230.66	123.23	62.93	106.62	0.16	123.81	59.45
3325.00	0.54	343.60	3320.66	123.12	63.67	106.15	0.34	123.78	59.04
3415.00	0.71	344.93	3410.66	123.28	64.62	105.89	0.19	124.05	58.61
3505.00	0.88	353.14	3500.65	123.59	65.84	105.66	0.23	124.50	58.07
3595.00	0.90	326.82	3590.64	123.70	67.12	105.19	0.45	124.78	57.46
3685.00	0.13	78.86	3680.63	123.70	67.73	104.90	1.06	124.87	57.15

Tof



Scientific Drilling International

COP Survey Report

Company: CONOCOPHILLIPS	Date: 09/29/2009	Time: 15:11:01	Page: 2
Field: Jacrilla	Co-ordinate(NE) Reference:	Site: SEC 32-T26N-R3W, True North	
Site: SEC 32-T26N-R3W	Vertical (TVD) Reference:	SITE 0.0	
Well: Jicarilla D #22	Section (VS) Reference:	Well (0.00N,0.00E,65.00Azi)	
Wellpath: DH - Job #33D0909154	Survey Calculation Method:	Minimum Curvature	Db: Sybase

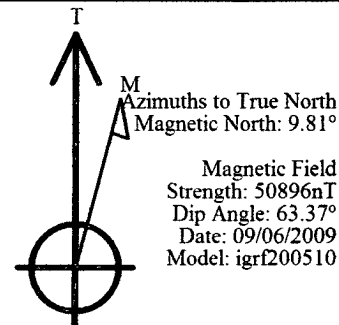
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3774.00	0.37	95.44	3769.63	124.05	67.72	105.29	0.28	125.19	57.25
3864.00	0.54	126.31	3859.63	124.50	67.45	105.92	0.32	125.57	57.51
3954.00	0.31	139.08	3949.63	124.77	67.01	106.42	0.27	125.76	57.80
4044.00	0.38	92.59	4039.62	125.10	66.81	106.88	0.31	126.04	57.99
4134.00	0.35	82.52	4129.62	125.63	66.84	107.45	0.08	126.54	58.12
4224.00	0.84	16.81	4219.62	126.33	67.50	107.91	0.85	127.29	57.97
4314.00	0.66	11.95	4309.61	127.08	68.64	108.21	0.21	128.15	57.61
4404.00	0.47	33.26	4399.61	127.71	69.46	108.52	0.31	128.85	57.38
4494.00	0.45	59.03	4489.60	128.37	69.95	109.03	0.23	129.54	57.32
4584.00	0.57	49.88	4579.60	129.16	70.42	109.67	0.16	130.33	57.30
4674.00	0.18	67.21	4669.60	129.73	70.76	110.14	0.45	130.92	57.28
4764.00	0.24	4.19	4759.60	129.96	71.00	110.29	0.25	131.17	57.23
4854.00	0.14	65.77	4849.60	130.17	71.24	110.40	0.24	131.39	57.17
4944.00	0.18	29.77	4939.60	130.39	71.41	110.57	0.12	131.63	57.15
5034.00	0.07	14.48	5029.60	130.54	71.58	110.66	0.13	131.79	57.10
5124.00	0.05	15.74	5119.60	130.60	71.67	110.68	0.02	131.86	57.07
5214.00	0.19	95.85	5209.60	130.76	71.70	110.84	0.21	132.01	57.10
5304.00	0.13	114.17	5299.60	130.95	71.64	111.08	0.09	132.18	57.18
5394.00	0.13	54.55	5389.60	131.12	71.66	111.26	0.14	132.34	57.22
5484.00	0.21	105.88	5479.60	131.34	71.67	111.50	0.18	132.55	57.27
5574.00	0.15	123.97	5569.60	131.53	71.56	111.76	0.09	132.70	57.37
5664.00	0.24	85.58	5659.59	131.77	71.51	112.04	0.17	132.92	57.45
5754.00	0.24	144.77	5749.59	131.98	71.37	112.34	0.26	133.09	57.57
5844.00	0.17	161.26	5839.59	131.99	71.09	112.49	0.10	133.07	57.71
5934.00	0.20	172.39	5929.59	131.93	70.81	112.55	0.05	132.97	57.83
6024.00	0.42	167.00	6019.59	131.82	70.33	112.65	0.25	132.80	58.02
6114.00	0.36	161.04	6109.59	131.72	69.74	112.82	0.08	132.63	58.28
6204.00	0.48	143.13	6199.59	131.77	69.17	113.13	0.20	132.60	58.56
6294.00	0.42	157.40	6289.58	131.83	68.56	113.49	0.14	132.59	58.86
6327.00	0.44	149.57	6322.58	131.84	68.34	113.60	0.19	132.57	58.97

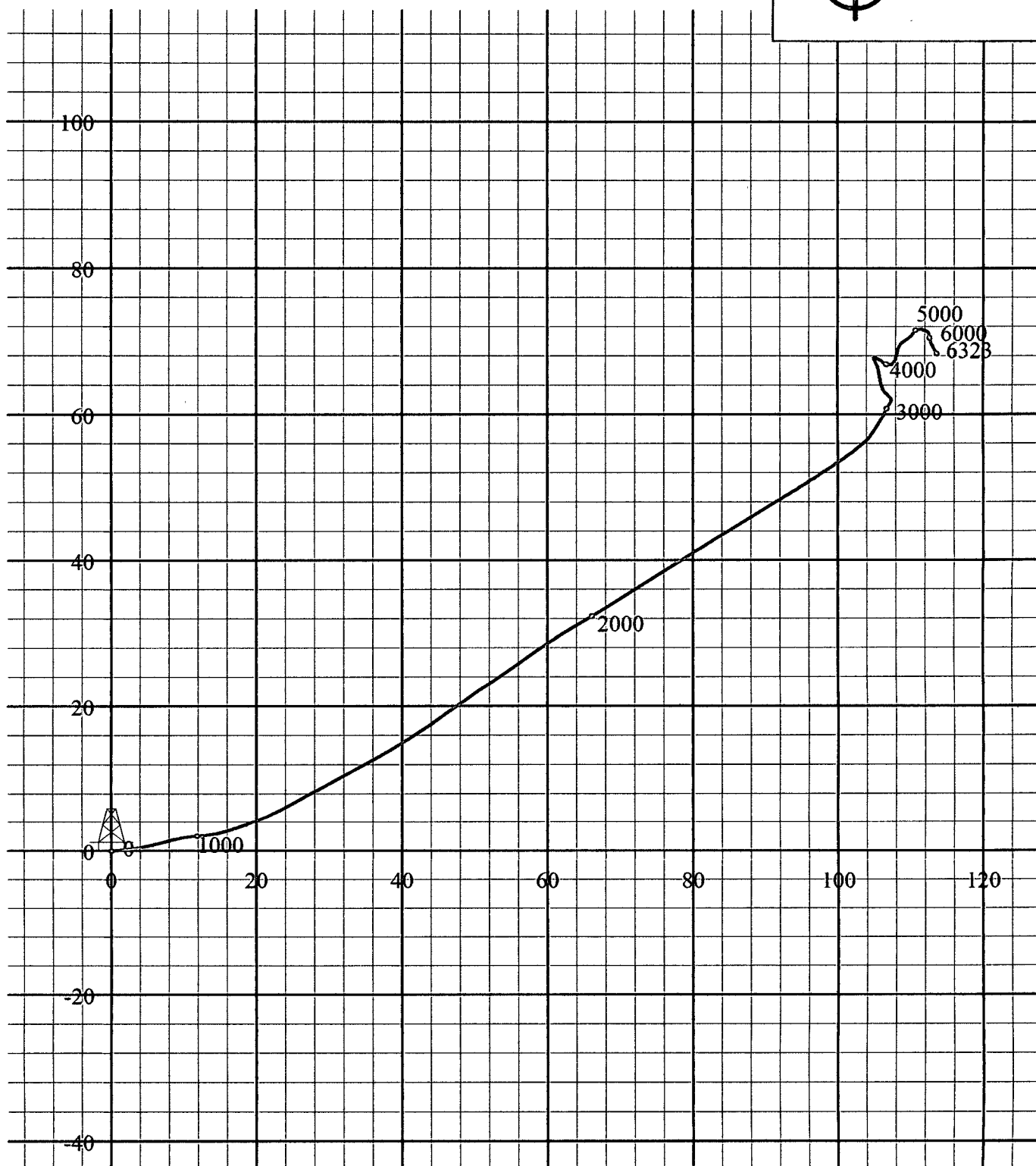


Scientific
Drilling

Field: Jacrilla
Site: SEC 32-T26N-R3W
Well: Jicarilla D #22
Wellpath: DH - Job #33D0909154
Survey: 09/06/09-09/16/09



South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]