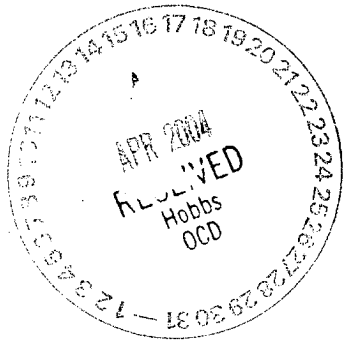
Scientific Drilling

SUR: F-32-21s-37e, 1880/N & 2080/W
BHL: A-32-21s-37e, 665/N & 4196/W
API # 30-025-06928

CHEVRONTEXACO

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #138H
Wellpath: DH - Job #32D0304146
Survey: 03/02/04-03/13/04

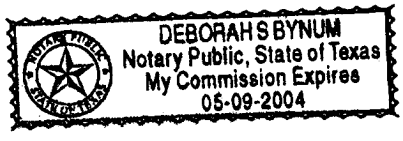


This survey is correct to the best of my knowledge and is supported by actual field data.

.....Company Representative

Notorized this date 29th of March, 2004.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas



Scientific Drilling

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 3/27/2004	**Time:** 21:09:43	**Page:**	1
Field:	Drinkard	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Central Drinkard #138H	**Section (VS) Reference:**	Well (0.00N,0.00E,60.14Azi)		
Wellpath:	VH - Job #32K0304148	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	03/03/04 KSRG 0'-6429'	**Start Date:**	3/3/2004
Company:	Scientific Drilling	**Engineer:**	Gonzales/Webb
Tool:	Keeper,Keeper Gyro	**Tied-to:**	From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	359.39	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.17	192.66	100.0	-0.1	-0.1	0.0	0.17	0.1	192.66
200.0	0.14	191.42	200.0	-0.3	-0.4	-0.1	0.03	0.4	192.30
300.0	0.21	118.40	300.0	-0.3	-0.6	0.0	0.22	0.6	175.56
400.0	0.25	119.67	400.0	-0.1	-0.8	0.4	0.04	0.9	153.84
500.0	0.10	130.79	500.0	0.1	-1.0	0.7	0.15	1.2	146.16
600.0	0.18	27.46	600.0	0.2	-0.9	0.8	0.22	1.2	138.50
700.0	0.07	232.67	700.0	0.3	-0.8	0.8	0.24	1.1	134.19
800.0	0.06	248.02	800.0	0.2	-0.9	0.7	0.02	1.1	139.68
900.0	0.10	272.93	900.0	0.1	-0.9	0.6	0.05	1.0	145.87
1000.0	0.08	263.19	1000.0	-0.1	-0.9	0.4	0.02	1.0	153.65
1100.0	0.10	272.46	1100.0	-0.2	-0.9	0.3	0.02	0.9	162.59
1200.0	0.14	238.84	1200.0	-0.4	-0.9	0.1	0.08	0.9	174.94
1300.0	0.12	236.99	1300.0	-0.6	-1.1	-0.1	0.02	1.1	185.94
1400.0	0.11	194.59	1400.0	-0.8	-1.2	-0.2	0.08	1.2	190.44
1500.0	0.15	168.46	1500.0	-0.9	-1.4	-0.2	0.07	1.4	188.77
1600.0	0.17	127.49	1600.0	-0.9	-1.6	-0.1	0.11	1.6	182.68
1700.0	0.09	181.84	1700.0	-0.9	-1.8	0.0	0.14	1.8	178.81
1800.0	0.17	103.44	1800.0	-0.8	-1.9	0.2	0.17	1.9	174.70
1900.0	0.32	86.88	1900.0	-0.4	-1.9	0.6	0.16	2.0	162.84
2000.0	0.58	87.18	2000.0	0.3	-1.9	1.4	0.26	2.4	143.99
2100.0	0.73	82.86	2100.0	1.3	-1.8	2.5	0.16	3.1	125.53
2200.0	0.89	76.95	2200.0	2.6	-1.5	3.9	0.18	4.2	111.58
2300.0	0.78	78.67	2300.0	4.0	-1.2	5.3	0.11	5.5	103.06
2400.0	0.75	79.90	2400.0	5.3	-1.0	6.6	0.03	6.7	98.46
2500.0	0.71	71.75	2499.9	6.5	-0.7	7.9	0.11	7.9	94.92
2600.0	0.75	58.67	2599.9	7.8	-0.1	9.0	0.17	9.0	90.92
2700.0	1.09	46.65	2699.9	9.3	0.9	10.3	0.39	10.3	85.26
2800.0	1.13	45.11	2799.9	11.2	2.2	11.7	0.05	11.9	79.31
2900.0	1.01	46.28	2899.9	13.0	3.5	13.0	0.12	13.5	74.90
3000.0	1.02	54.90	2999.9	14.8	4.6	14.4	0.15	15.1	72.14
3100.0	1.05	60.39	3099.9	16.6	5.6	15.9	0.10	16.9	70.61
3200.0	0.99	54.54	3199.8	18.3	6.5	17.4	0.12	18.6	69.37
3300.0	0.84	53.80	3299.8	19.9	7.5	18.7	0.15	20.1	68.18
3400.0	0.83	52.29	3399.8	21.4	8.4	19.9	0.02	21.5	67.17
3500.0	0.92	39.20	3499.8	22.8	9.4	20.9	0.22	23.0	65.77
3600.0	0.85	34.92	3599.8	24.3	10.7	21.9	0.10	24.3	64.02
3700.0	0.83	36.48	3699.8	25.6	11.8	22.7	0.03	25.6	62.47
3800.0	0.80	35.91	3799.8	26.9	13.0	23.6	0.03	26.9	61.13
3900.0	0.90	44.45	3899.8	28.3	14.1	24.5	0.16	28.3	60.07
4000.0	0.94	48.90	3999.8	29.9	15.2	25.7	0.08	29.9	59.36
4100.0	1.28	34.44	4099.7	31.7	16.7	26.9	0.43	31.7	58.24
4200.0	1.53	18.95	4199.7	33.7	18.9	28.0	0.45	33.8	56.04
4300.0	1.76	14.77	4299.7	35.8	21.6	28.8	0.26	36.0	53.16
4400.0	2.08	31.68	4399.6	38.4	24.6	30.2	0.65	38.9	50.78
4500.0	2.18	35.28	4499.5	41.7	27.7	32.2	0.17	42.5	49.29
4600.0	2.15	32.41	4599.5	45.1	30.9	34.3	0.11	46.2	48.05
4700.0	1.66	45.75	4699.4	48.2	33.5	36.4	0.66	49.4	47.39
4800.0	1.48	65.01	4799.4	50.9	35.0	38.6	0.56	52.1	47.78

Scientific Drilling

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 3/27/2004	**Time:** 21:09:43	**Page:**	2
Field:	Drinkard	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Central Drinkard #138H	**Section (VS) Reference:**	Well (0.00N,0.00E,60.14Azi)		
Wellpath:	VH - Job #32K0304148	**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
4900.0	1.50	75.53	4899.3	53.4	35.9	41.0	0.27	54.5	48.82
5000.0	1.48	74.74	4999.3	55.9	36.5	43.5	0.03	56.8	49.98
5100.0	1.63	75.89	5099.3	58.6	37.2	46.2	0.15	59.3	51.10
5200.0	1.27	76.43	5199.2	61.0	37.8	48.6	0.36	61.6	52.10
5300.0	1.17	85.55	5299.2	63.0	38.2	50.7	0.22	63.5	53.02
5400.0	0.96	91.11	5399.2	64.6	38.2	52.6	0.23	65.0	53.96
5500.0	0.84	78.47	5499.2	66.0	38.4	54.1	0.23	66.3	54.66
5600.0	0.86	80.56	5599.2	67.4	38.6	55.6	0.04	67.7	55.19
5700.0	0.81	80.91	5699.2	68.8	38.9	57.0	0.05	69.0	55.71
5800.0	0.57	88.21	5799.2	69.9	39.0	58.2	0.25	70.1	56.17
5900.0	0.16	130.12	5899.2	70.4	38.9	58.8	0.47	70.5	56.50
6000.0	0.21	150.56	5999.2	70.4	38.7	59.0	0.08	70.6	56.75
6100.0	0.25	107.41	6099.2	70.6	38.5	59.3	0.17	70.7	57.04
6200.0	0.32	100.85	6199.2	70.9	38.3	59.8	0.08	71.0	57.33
6300.0	0.34	114.91	6299.1	71.3	38.2	60.3	0.08	71.4	57.68
6400.0	0.43	104.74	6399.1	71.8	37.9	61.0	0.11	71.8	58.10
6429.3	0.57	116.10	6426.4	71.9	37.9	61.2	0.58	72.0	58.26

Scientific Drilling

Scientific Drilling
Survey Report

Company:	CHEVRONTEXACO	**Date:** 3/27/2004	**Time:** 20:44:20	**Page:**	1
Field:	Drinkard	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Central Drinkard #138H	**Section (VS) Reference:**	Well (0.00N,0.00E,60.14Azi)		
Wellpath:	DH - Job #32D0304146	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	03/02/04-03/13/04 MWD 6456'-8903'	**Start Date:**	3/2/2004
Company:	Scientific Drilling	**Engineer:**	Lamb/Melendez/Hendrix
Tool:	MWD,MWD	**Tied-to:**	From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
6429.3	0.57	116.10	6428.4	71.9	37.9	61.2	0.00	72.0	58.26
6456.0	0.57	116.10	6455.1	72.1	37.7	61.4	0.00	72.1	58.44
6515.0	26.29	59.92	6512.1	85.5	44.3	73.2	44.03	85.6	58.84
6525.0	30.86	60.01	6520.9	90.3	46.7	77.4	45.70	90.3	58.90
6535.0	35.61	60.09	6529.2	95.8	49.4	82.1	47.50	95.8	58.97
6545.0	40.63	60.18	6537.1	102.0	52.5	87.4	50.20	102.0	59.04
6555.0	45.46	59.22	6544.4	108.8	55.9	93.3	48.74	108.8	59.08
6565.0	50.74	58.78	6551.1	116.2	59.7	99.7	52.90	116.2	59.07
6575.0	55.40	59.22	6557.1	124.2	63.9	106.6	46.73	124.2	59.07
6588.0	61.91	59.92	6563.8	135.3	69.5	116.1	50.29	135.3	59.11
6620.0	72.11	63.96	6576.3	164.7	83.3	142.1	33.92	164.7	59.63
6651.0	78.44	66.86	6584.2	194.5	95.7	169.4	22.33	194.5	60.52
6683.0	86.35	68.31	6588.4	226.0	107.8	198.7	25.12	226.0	61.51
6715.0	91.19	62.56	6589.1	257.8	121.1	227.7	23.48	257.9	62.00
6746.0	91.01	61.85	6588.5	288.8	135.6	255.2	2.36	288.9	62.02
6778.0	88.99	59.48	6588.5	320.8	151.2	283.0	9.73	320.9	61.88
6810.0	91.36	60.01	6588.4	352.8	167.4	310.7	7.59	352.9	61.69
6841.0	90.57	59.92	6587.9	383.8	182.9	337.5	2.56	383.9	61.55
6872.0	89.52	59.74	6587.9	414.8	198.5	364.3	3.44	414.9	61.42
6904.0	90.84	59.74	6587.8	446.8	214.6	392.0	4.12	446.8	61.30
6936.0	91.36	60.27	6587.2	478.8	230.6	419.7	2.32	478.8	61.21
6968.0	96.90	61.33	6584.8	510.7	246.1	447.5	17.62	510.7	61.19
6999.0	97.43	61.06	6581.0	541.4	261.0	474.5	1.92	541.5	61.19
7031.0	95.67	59.92	6577.3	573.2	276.6	502.1	6.54	573.3	61.15
7062.0	97.25	59.92	6573.8	604.0	292.1	528.8	5.10	604.1	61.09
7094.0	96.46	60.45	6570.0	635.8	307.9	556.4	2.97	635.8	61.04
7125.0	93.03	58.07	6567.5	666.7	323.6	582.9	13.45	666.7	60.96
7156.0	92.42	58.60	6566.0	697.6	339.9	609.3	2.61	697.7	60.84
7187.0	91.45	59.22	6564.9	728.6	355.9	635.8	3.71	728.6	60.76
7218.0	89.52	58.95	6564.7	759.6	371.8	662.4	6.29	759.6	60.69
7250.0	90.40	58.86	6564.7	791.6	388.3	689.8	2.76	791.6	60.62
7281.0	94.70	58.69	6563.3	822.5	404.4	716.3	13.88	822.5	60.55
7313.0	97.69	58.43	6559.9	854.3	421.0	743.4	9.38	854.3	60.48
7344.0	97.05	58.51	6555.9	885.0	437.1	769.6	2.08	885.1	60.41
7376.0	96.90	58.25	6552.0	916.8	453.7	796.6	0.93	916.8	60.34
7407.0	96.90	58.07	6548.3	947.5	470.0	822.8	0.58	947.5	60.27
7438.0	97.08	57.19	6544.5	978.3	486.4	848.8	2.88	978.3	60.18
7470.0	93.65	61.41	6541.5	1010.1	502.7	876.2	16.95	1010.1	60.16
7502.0	93.21	60.97	6539.6	1042.1	518.1	904.2	1.94	1042.1	60.19
7533.0	94.00	60.01	6537.7	1073.0	533.3	931.1	4.01	1073.0	60.20
7564.0	97.78	60.89	6534.5	1103.8	548.5	957.9	12.52	1103.8	60.20
7596.0	97.34	60.45	6530.3	1135.6	564.1	985.6	1.94	1135.6	60.22
7627.0	93.91	60.09	6527.2	1166.4	579.4	1012.3	11.12	1166.4	60.22
7659.0	91.10	59.48	6525.8	1198.4	595.4	1040.0	8.99	1198.4	60.21
7690.0	90.04	59.04	6525.5	1229.4	611.3	1066.6	3.70	1229.4	60.18
7721.0	90.66	60.45	6525.3	1260.4	626.9	1093.4	4.97	1260.4	60.17
7753.0	92.07	62.12	6524.6	1292.3	642.3	1121.4	6.83	1292.3	60.20
7784.0	93.83	63.08	6523.0	1323.3	656.5	1148.9	6.47	1323.3	60.26
7816.0	91.45	59.57	6521.5	1355.2	671.9	1177.0	13.24	1355.2	60.28

Scientific Drilling

Scientific Drilling
Survey Report

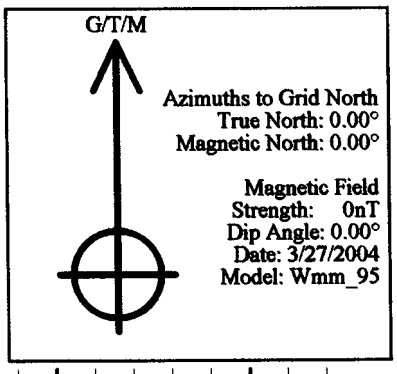
Company:	CHEVRONTEXACO	**Date:** 3/27/2004	**Time:** 20:44:20	**Page:**	2
Field:	Drinkard	**Co-ordinate(NE) Reference:**	Site: Lea County, NM, Grid North		
Site:	Lea County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Central Drinkard #138H	**Section (VS) Reference:**	Well (0.00N,0.00E,60.14Azi)		
Wellpath:	DH - Job #32D0304146	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

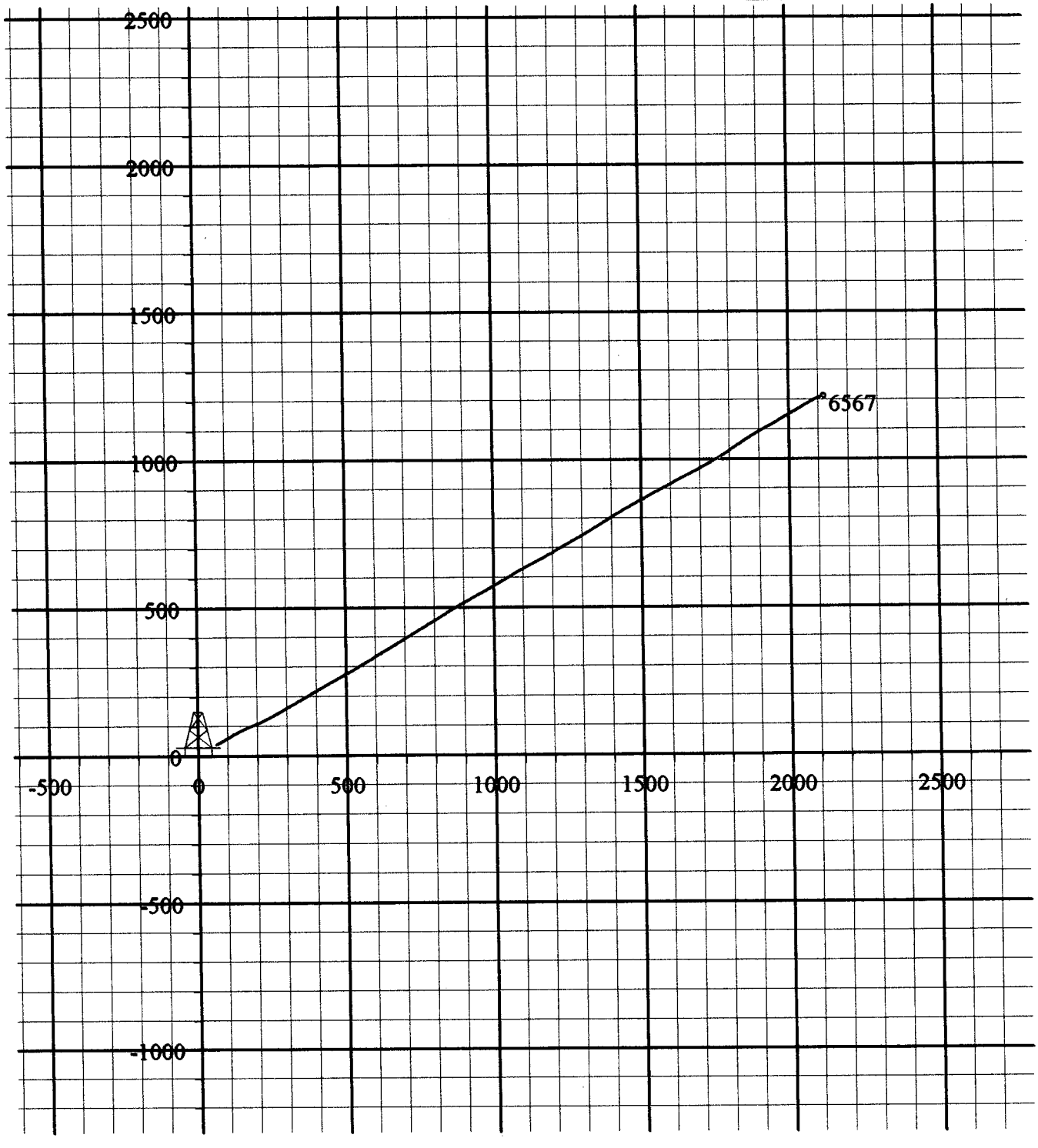
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7848.0	91.28	59.92	6520.7	1387.2	688.0	1204.6	1.22	1387.2	60.27
7879.0	89.34	59.66	6520.6	1418.2	703.6	1231.4	6.31	1418.2	60.26
7910.0	89.52	60.80	6520.9	1449.2	719.0	1258.3	3.72	1449.2	60.26
7941.0	88.37	60.45	6521.4	1480.2	734.2	1285.3	3.88	1480.2	60.26
7973.0	88.02	58.95	6522.5	1512.2	750.3	1312.9	4.81	1512.2	60.25
8005.0	86.79	58.34	6523.9	1544.1	766.9	1340.2	4.29	1544.1	60.22
8036.0	85.74	57.37	6525.9	1575.0	783.4	1366.4	4.61	1575.0	60.17
8067.0	85.91	57.28	6528.2	1605.9	800.1	1392.4	0.62	1605.9	60.12
8099.0	87.85	59.92	6529.9	1637.9	816.7	1419.7	10.23	1637.9	60.09
8131.0	87.67	59.83	6531.2	1669.8	832.8	1447.4	0.63	1669.8	60.08
8162.0	87.76	60.62	6532.4	1700.8	848.2	1474.2	2.56	1700.8	60.09
8194.0	87.67	61.33	6533.7	1732.8	863.7	1502.2	2.23	1732.8	60.10
8225.0	88.02	61.50	6534.8	1763.8	878.5	1529.4	1.25	1763.8	60.13
8257.0	88.72	62.20	6535.8	1795.7	893.6	1557.6	3.09	1795.7	60.16
8288.0	86.44	60.53	6537.1	1826.7	908.4	1584.8	9.11	1826.7	60.18
8320.0	87.41	61.41	6538.8	1858.6	923.9	1612.7	4.09	1858.6	60.19
8351.0	88.55	62.47	6539.9	1889.6	938.5	1640.1	5.02	1889.6	60.22
8383.0	89.34	63.26	6540.5	1921.6	953.1	1668.5	3.49	1921.6	60.26
8414.0	87.58	60.71	6541.3	1952.5	967.7	1695.9	9.99	1952.5	60.29
8446.0	87.41	61.50	6542.7	1984.5	983.1	1723.9	2.52	1984.5	60.30
8477.0	86.70	59.74	6544.3	2015.5	998.3	1750.9	6.11	2015.5	60.31
8508.0	84.94	56.67	6546.6	2046.3	1014.6	1777.1	11.39	2046.4	60.28
8540.0	84.50	56.14	6549.5	2078.1	1032.2	1803.7	2.15	2078.1	60.22
8572.0	84.42	55.35	6552.6	2109.9	1050.1	1830.0	2.47	2109.9	60.15
8603.0	86.33	58.36	6555.1	2140.7	1067.0	1855.9	11.47	2140.7	60.10
8635.0	86.00	57.72	6557.2	2172.7	1083.9	1883.0	2.25	2172.7	60.07
8666.0	87.67	61.15	6558.9	2203.6	1099.7	1909.6	12.29	2203.6	60.06
8698.0	87.32	60.36	6560.3	2235.6	1115.3	1937.5	2.70	2235.6	60.07
8729.0	87.32	60.45	6561.8	2266.5	1130.6	1964.4	0.29	2266.5	60.08
8761.0	87.32	59.83	6563.3	2298.5	1146.5	1992.1	1.94	2298.5	60.08
8792.0	87.67	59.39	6564.6	2329.5	1162.2	2018.9	1.81	2329.5	60.07
8824.0	87.49	59.83	6566.0	2361.4	1178.3	2046.4	1.48	2361.4	60.07
8855.0	89.87	62.69	6566.7	2392.4	1193.2	2073.6	12.00	2392.4	60.08
8868.0	89.78	62.38	6566.7	2405.4	1199.2	2085.1	2.48	2405.4	60.10
8903.0	89.78	62.38	6566.9	2440.4	1215.5	2116.2	0.00	2440.4	60.13

Scientific Drilling

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #138H
Wellpath: DH - Job #32D0304146
Survey: 03/02/04-03/13/04





South(-)/North(+) [500ft/in]

West(-)/East(+) [500ft/in]