

Scientific Drilling

RECEIVED

MAR 01 2010

HOBBSOCD

30-025-06853
A-28-215-37E

CHEVRON

Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #101
Wellpath: DH - Job #32D1109513
Survey: 11/30/09-12/19/09

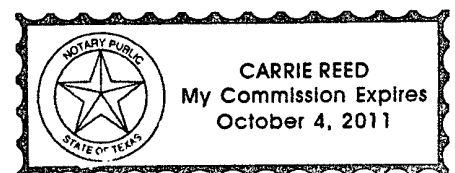
SUR: A-28-21s-37e, 554/N & 766/E
BHL: E-28-21s-37e, 1447/N & 4690/E
API # 30-025-06853

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

Shurtan.....Company Representative

Notorized this date 30th of December, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CHEVRON
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #101
Wellpath: VH - Job #32K1109522

Date: 12/08/2009 Time: 13:20:58 Page: 1
Co-ordinate(N/E) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,257.27Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 11/30/09 Start Date: 11/30/2009
Company: Scientific Drilling Internatio Engineer: Guebara/Garza/Paredes
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.45	71.96	100.00	-0.39	0.12	0.37	0.45	0.39	71.96
200.00	0.46	47.70	200.00	-1.13	0.51	1.04	0.19	1.16	63.81
300.00	0.29	81.10	299.99	-1.73	0.82	1.59	0.27	1.79	62.65
400.00	0.23	88.47	399.99	-2.18	0.87	2.04	0.07	2.22	66.98
500.00	0.47	118.34	499.99	-2.69	0.68	2.60	0.29	2.69	75.40
600.00	0.47	106.03	599.99	-3.36	0.37	3.36	0.10	3.38	83.71
700.00	0.40	100.51	699.98	-4.04	0.19	4.10	0.08	4.10	87.30
800.00	0.48	130.65	799.98	-4.61	-0.14	4.76	0.24	4.76	91.73
900.00	0.52	154.83	899.98	-4.96	-0.83	5.27	0.21	5.33	98.92
1000.00	0.46	156.60	999.97	-5.13	-1.61	5.62	0.06	5.84	105.95
1100.00	0.40	162.73	1099.97	-5.23	-2.31	5.88	0.08	6.32	111.42
1200.00	0.53	167.19	1199.97	-5.26	-3.09	6.09	0.13	6.83	116.92
1300.00	0.49	157.21	1299.96	-5.33	-3.94	6.36	0.10	7.48	121.77
1400.00	0.48	149.81	1399.96	-5.53	-4.69	6.73	0.06	8.21	124.88
1500.00	0.54	155.83	1499.96	-5.75	-5.49	7.14	0.08	9.00	127.55
1600.00	0.80	156.25	1599.95	-5.98	-6.55	7.61	0.26	10.04	130.73
1700.00	0.87	149.84	1699.94	-6.34	-7.85	8.27	0.12	11.41	133.49
1800.00	0.81	142.38	1799.93	-6.87	-9.07	9.09	0.12	12.84	134.94
1900.00	0.70	97.31	1899.92	-7.74	-9.70	10.12	0.59	14.02	133.79
2000.00	0.60	91.24	1999.91	-8.82	-9.79	11.25	0.12	14.92	131.03
2100.00	0.73	102.33	2099.91	-9.90	-9.94	12.40	0.18	15.89	128.72
2200.00	0.83	92.00	2199.90	-11.18	-10.10	13.75	0.17	17.06	126.31
2300.00	0.70	88.26	2299.89	-12.48	-10.11	15.08	0.14	18.15	123.84
2400.00	0.68	100.76	2399.88	-13.63	-10.20	16.27	0.15	19.21	122.08
2500.00	0.59	102.64	2499.88	-14.63	-10.42	17.36	0.09	20.25	120.99
2600.00	0.64	96.66	2599.87	-15.63	-10.60	18.42	0.08	21.25	119.93
2700.00	0.72	90.19	2699.86	-16.77	-10.67	19.60	0.11	22.31	118.56
2800.00	1.00	90.53	2799.85	-18.23	-10.68	21.10	0.28	23.65	116.84
2900.00	1.01	88.97	2899.84	-19.94	-10.67	22.85	0.03	25.22	115.03
3000.00	1.08	94.72	2999.82	-21.70	-10.73	24.67	0.13	26.91	113.51
3100.00	0.96	83.31	3099.80	-23.43	-10.71	26.45	0.24	28.53	112.05
3200.00	0.94	73.39	3199.79	-25.09	-10.38	28.06	0.17	29.92	110.30
3300.00	0.88	71.26	3299.78	-26.67	-9.90	29.58	0.07	31.19	108.51
3400.00	0.68	67.16	3399.77	-28.02	-9.42	30.85	0.21	32.26	106.98
3500.00	0.53	67.12	3499.76	-29.06	-9.01	31.82	0.15	33.07	105.81
3600.00	0.56	66.58	3599.76	-29.99	-8.64	32.70	0.03	33.82	104.80
3700.00	0.48	74.83	3699.75	-30.89	-8.33	33.55	0.11	34.57	103.95
3800.00	0.48	89.77	3799.75	-31.72	-8.22	34.37	0.12	35.34	103.45
3900.00	0.22	90.83	3899.75	-32.31	-8.22	34.98	0.26	35.94	103.23
4000.00	0.20	3.47	3999.75	-32.55	-8.05	35.19	0.29	36.10	102.89
4100.00	0.51	317.99	4099.75	-32.38	-7.55	34.90	0.40	35.71	102.20
4200.00	0.42	6.60	4199.74	-32.28	-6.85	34.64	0.39	35.32	101.19
4300.00	0.32	33.15	4299.74	-32.60	-6.25	34.84	0.20	35.40	100.18
4400.00	0.41	234.33	4399.74	-32.48	-6.23	34.70	0.72	35.26	100.18
4500.00	0.46	245.34	4499.74	-31.75	-6.61	34.05	0.10	34.68	100.98
4600.00	0.42	256.81	4599.74	-30.99	-6.86	33.32	0.10	34.02	101.63
4700.00	0.24	287.33	4699.73	-30.45	-6.88	32.77	0.25	33.48	101.85
4800.00	0.32	338.08	4799.73	-30.22	-6.56	32.46	0.25	33.12	101.42



Scientific Drilling International

Survey Report

Company: CHEVRON
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #101
Wellpath: VH - Job #32K1109522

Date: 12/08/2009
Co-ordinate(NE) Reference:
Vertical (TVD) Reference:
Section (VS) Reference:
Survey Calculation Method:
Time: 13:20:58
Site: Lea County, NM, Grid North
SITE 0.0
Well (0.00N,0.00E,257.27Azi)
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
4900.00	0.31	319.15	4899.73	-30.05	-6.09	32.18	0.10	32.75	100.72
5000.00	0.39	351.95	4999.73	-29.95	-5.55	31.96	0.21	32.44	99.85
5100.00	0.27	19.75	5099.73	-30.10	-4.99	31.99	0.20	32.38	98.87
5200.00	0.21	334.12	5199.73	-30.19	-4.61	31.99	0.19	32.32	98.19
5300.00	0.10	306.38	5299.73	-30.09	-4.39	31.84	0.13	32.14	97.85
5400.00	0.07	198.09	5399.73	-30.00	-4.40	31.75	0.14	32.05	97.88
5500.00	0.26	190.19	5499.73	-29.88	-4.68	31.69	0.19	32.03	98.40
5600.00	0.19	203.56	5599.73	-29.69	-5.05	31.58	0.09	31.99	99.09
5700.00	0.36	183.27	5699.72	-29.51	-5.52	31.50	0.19	31.98	99.94
5800.00	0.44	200.06	5799.72	-29.21	-6.19	31.35	0.14	31.96	101.17
5900.00	0.37	180.36	5899.72	-28.93	-6.88	31.22	0.15	31.96	102.42
6000.00	0.39	198.51	5999.72	-28.68	-7.52	31.11	0.12	32.00	103.59
6100.00	0.25	184.58	6099.72	-28.44	-8.06	30.98	0.16	32.01	104.59
6200.00	0.34	206.23	6199.71	-28.19	-8.55	30.83	0.14	31.99	105.49
6300.00	0.17	177.67	6299.71	-27.98	-8.96	30.71	0.21	31.99	106.27
6340.00	0.32	163.56	6339.71	-27.97	-9.13	30.74	0.40	32.07	106.53



Scientific Drilling International Survey Report

Company: CHEVRON	Date: 12/31/2009	Time: 14:08:30	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 #101	Section (VS) Reference:	Well (0.00N,0.00E,257.27Azi)	
Wellpath: DH - Job #32D1109513	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/30/09-12/19/09	Start Date: 11/30/2009
MWD 6394'-8243'	
Company: Scientific Drilling Internatio	Engineer: Barbre/Melendez/Smith/Lambert
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
6340.00	0.32	163.56	6339.71	-27.97	-9.13	30.74	0.00	32.07	106.53
6394.00	9.11	212.48	6393.48	-24.94	-12.88	28.48	16.49	31.26	114.34
6404.00	11.34	214.38	6403.32	-23.66	-14.36	27.50	22.55	31.03	117.58
6411.00	12.93	216.75	6410.16	-22.56	-15.56	26.65	23.80	30.86	120.28
6421.00	15.22	217.04	6419.86	-20.71	-17.50	25.19	22.91	30.67	124.80
6440.00	19.59	216.89	6437.99	-16.38	-22.04	21.77	23.00	30.98	135.36
6472.00	27.05	216.21	6467.35	-6.79	-32.22	14.24	23.33	35.23	156.16
6487.00	31.21	215.74	6480.45	-1.31	-38.13	9.95	27.78	39.41	165.37
6504.00	36.13	216.17	6494.60	5.77	-45.75	4.42	28.97	45.97	174.48
6535.00	45.56	217.94	6518.02	21.25	-61.90	-7.81	30.65	62.39	187.19
6566.00	54.23	218.87	6537.97	39.71	-80.45	-22.53	28.06	83.55	195.65
6598.00	63.37	220.08	6554.53	61.32	-101.55	-39.92	28.74	109.12	201.46
6630.00	73.04	220.41	6566.40	85.02	-124.20	-59.10	30.23	137.54	205.45
6662.00	80.81	220.75	6573.63	109.99	-147.85	-79.36	24.30	167.81	208.23
6693.00	85.62	220.89	6577.30	134.75	-171.14	-99.48	15.52	197.95	210.17
6725.00	89.93	221.82	6578.54	160.64	-195.14	-120.60	13.78	229.40	211.72
6756.00	91.08	222.16	6578.26	185.94	-218.18	-141.34	3.87	259.96	212.94
6788.00	92.69	222.83	6577.21	212.21	-241.76	-162.94	5.45	291.54	213.98
6820.00	94.71	223.20	6575.15	238.60	-265.11	-184.73	6.42	323.12	214.87
6851.00	94.57	223.03	6572.64	264.17	-287.66	-205.84	0.71	353.73	215.59
6883.00	94.71	223.43	6570.05	290.60	-310.90	-227.69	1.32	385.36	216.22
6915.00	94.71	223.37	6567.42	317.08	-334.07	-249.60	0.19	417.02	216.77
6946.00	93.84	223.51	6565.11	342.76	-356.52	-270.86	2.84	447.74	217.23
6978.00	91.78	223.66	6563.54	369.36	-379.67	-292.89	6.45	479.52	217.65
7010.00	92.09	224.13	6562.46	396.06	-402.72	-315.07	1.76	511.32	218.04
7042.00	92.56	224.65	6561.17	422.92	-425.56	-337.43	2.19	543.11	218.41
7073.00	92.96	224.25	6559.67	448.94	-447.67	-359.12	1.82	573.91	218.74
7105.00	93.03	223.98	6558.00	475.69	-470.61	-381.36	0.87	605.73	219.02
7136.00	91.44	223.78	6556.79	501.55	-492.94	-402.83	5.17	636.60	219.26
7168.00	90.20	223.71	6556.33	528.23	-516.05	-424.96	3.88	668.50	219.47
7199.00	90.00	223.57	6556.28	554.04	-538.49	-446.35	0.79	699.43	219.66
7230.00	90.10	223.69	6556.25	579.85	-560.92	-467.74	0.50	730.35	219.82
7262.00	89.87	223.03	6556.26	606.40	-584.19	-489.71	2.18	762.30	219.97
7294.00	90.87	223.67	6556.05	632.96	-607.46	-511.68	3.71	794.24	220.11
7325.00	94.44	226.62	6554.62	659.17	-629.30	-533.62	14.93	825.08	220.30
7357.00	96.17	227.98	6551.66	686.77	-650.90	-557.04	6.87	856.72	220.56
7389.00	96.41	230.48	6548.15	714.85	-671.67	-581.12	7.80	888.17	220.87
7420.00	96.37	233.80	6544.70	742.73	-690.58	-605.44	10.64	918.40	221.24
7452.00	96.40	237.09	6541.14	772.25	-708.61	-631.63	10.22	949.26	221.71
7484.00	94.48	239.74	6538.11	802.39	-725.29	-658.76	10.20	979.81	222.25
7515.00	91.21	242.91	6536.57	832.16	-740.15	-685.92	14.68	1009.11	222.82
7547.00	88.92	249.64	6536.53	863.55	-753.01	-715.20	22.21	1038.53	223.52
7578.00	87.71	257.78	6537.45	894.45	-761.70	-744.91	26.53	1065.40	224.36
7610.00	86.64	265.27	6539.03	926.30	-766.40	-776.50	23.62	1091.02	225.38
7641.00	87.21	267.01	6540.69	956.88	-768.49	-807.39	5.90	1114.65	226.41
7673.00	88.32	267.48	6541.94	988.38	-770.03	-839.33	3.77	1139.04	227.47
7705.00	89.76	268.12	6542.47	1019.83	-771.25	-871.30	4.92	1163.61	228.49
7737.00	90.57	268.50	6542.38	1051.24	-772.20	-903.28	2.80	1188.36	229.47
7768.00	91.28	268.70	6541.88	1081.63	-772.95	-934.27	2.38	1212.57	230.40



Scientific Drilling International Survey Report

Company: CHEVRON	Date: 12/31/2009	Time: 14:08:30	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 #101	Section (VS) Reference:	Well (0.00N,0.00E,257.27Azi)	
Wellpath: DH - Job #32D1109513	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
7800.00	91.71	268.39	6541.04	1113.00	-773.77	-966.25	1.66	1237.88	231.31
7832.00	92.25	268.17	6539.94	1144.39	-774.73	-998.21	1.82	1263.58	232.18
7863.00	91.88	268.32	6538.82	1174.81	-775.68	-1029.18	1.29	1288.75	233.00
7895.00	91.24	268.22	6537.95	1206.21	-776.64	-1061.15	2.02	1315.00	233.80
7926.00	91.55	268.15	6537.20	1236.64	-777.62	-1092.13	1.03	1340.69	234.55
7958.00	91.48	267.93	6536.35	1268.06	-778.72	-1124.10	0.72	1367.48	235.29
7989.00	89.87	267.10	6535.99	1298.56	-780.06	-1155.07	5.84	1393.80	235.97
8021.00	89.63	267.20	6536.12	1330.09	-781.65	-1187.03	0.81	1421.27	236.64
8053.00	89.60	266.94	6536.34	1361.62	-783.29	-1218.98	0.82	1448.95	237.28
8085.00	90.17	267.70	6536.40	1393.13	-784.78	-1250.95	2.97	1476.74	237.90
8116.00	90.87	270.48	6536.12	1423.47	-785.28	-1281.94	9.25	1503.34	238.51
8148.00	92.22	273.36	6535.26	1454.41	-784.20	-1313.91	9.94	1530.14	239.17
8180.00	90.91	272.50	6534.39	1485.21	-782.57	-1345.85	4.90	1556.83	239.82
8211.00	90.44	271.87	6534.02	1515.17	-781.39	-1376.83	2.54	1583.10	240.42
8243.00	90.64	272.72	6533.72	1546.07	-780.11	-1408.80	2.73	1610.37	241.02



Scientific Drilling International Survey Report

Company: CHEVRON
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #101
Wellpath: DHST#1 - Job #32D1109513

Date: 12/31/2009 Time: 14:19:33 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,257.27Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 11/30/09-12/19/09 Start Date: 11/30/2009
MWD 7674'-10688'
Company: Scientific Drilling Internatio Engineer: Barbre/Melendez/Smith/Lambert
Tool: MWD;MWD Tied-to: From: Definitive Path

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7641.00	87.21	267.01	6540.69	956.88	-768.49	-807.39	0.00	1114.65	226.41
7674.00	86.34	267.23	6542.54	989.35	-770.14	-840.29	2.72	1139.83	227.49
7706.00	84.05	266.70	6545.23	1020.77	-771.83	-872.13	7.34	1164.62	228.49
7737.00	84.41	266.13	6548.34	1051.23	-773.76	-902.92	2.17	1189.10	229.40
7769.00	84.21	265.77	6551.51	1082.70	-776.01	-934.68	1.28	1214.83	230.30
7801.00	84.12	265.77	6554.77	1114.19	-778.36	-966.43	0.28	1240.90	231.15
7832.00	84.92	266.15	6557.73	1144.69	-780.53	-997.21	2.85	1266.35	231.95
7864.00	85.40	266.34	6560.43	1176.19	-782.62	-1029.03	1.61	1292.82	232.75
7895.00	86.70	265.86	6562.56	1206.75	-784.72	-1059.88	4.47	1318.76	233.48
7927.00	87.55	267.14	6564.17	1238.29	-786.67	-1091.78	4.80	1345.67	234.23
7959.00	87.58	266.30	6565.53	1269.83	-788.50	-1123.70	2.62	1372.75	234.94
7990.00	88.86	266.63	6566.49	1300.41	-790.41	-1154.62	4.26	1399.25	235.61
8022.00	90.34	267.54	6566.71	1331.94	-792.04	-1186.58	5.43	1426.64	236.28
8054.00	90.37	266.97	6566.52	1363.46	-793.57	-1218.54	1.78	1454.17	236.93
8085.00	89.73	267.72	6566.49	1393.98	-795.01	-1249.51	3.18	1480.98	237.53
8117.00	89.93	268.59	6566.58	1425.40	-796.04	-1281.49	2.79	1508.61	238.15
8149.00	91.18	267.96	6566.27	1456.81	-797.00	-1313.47	4.37	1536.37	238.75
8180.00	92.09	266.75	6565.39	1487.32	-798.43	-1344.43	4.88	1563.64	239.29
8212.00	91.44	267.04	6564.40	1518.86	-800.17	-1376.37	2.22	1592.06	239.83
8243.00	90.91	266.91	6563.77	1549.40	-801.80	-1407.32	1.76	1619.70	240.33
8275.00	90.97	266.73	6563.24	1580.96	-803.58	-1439.26	0.59	1648.40	240.82
8306.00	91.11	265.19	6562.68	1611.60	-805.76	-1470.18	4.99	1676.51	241.27
8337.00	90.54	265.32	6562.23	1642.29	-808.32	-1501.07	1.89	1704.87	241.70
8369.00	90.57	264.93	6561.92	1673.99	-811.04	-1532.95	1.22	1734.28	242.12
8400.00	91.45	265.45	6561.38	1704.69	-813.64	-1563.84	3.30	1762.84	242.51
8432.00	90.91	266.11	6560.72	1736.33	-816.00	-1595.74	2.66	1792.27	242.92
8463.00	91.35	265.87	6560.11	1766.96	-818.16	-1626.66	1.62	1820.83	243.30
8495.00	88.92	265.36	6560.03	1798.62	-820.61	-1658.57	7.76	1850.47	243.68
8527.00	88.59	266.33	6560.73	1830.26	-822.93	-1690.47	3.20	1880.14	244.04
8559.00	88.29	267.28	6561.60	1861.80	-824.71	-1722.41	3.11	1909.67	244.41
8590.00	88.72	267.65	6562.41	1892.30	-826.08	-1753.37	1.83	1938.23	244.77
8622.00	88.19	267.72	6563.27	1923.77	-827.37	-1785.33	1.67	1967.73	245.14
8654.00	89.16	266.63	6564.01	1955.28	-828.95	-1817.28	4.56	1997.42	245.48
8685.00	89.66	266.43	6564.33	1985.87	-830.83	-1848.23	1.74	2026.38	245.79
8716.00	89.56	266.35	6564.54	2016.48	-832.78	-1879.16	0.41	2055.43	246.10
8747.00	89.83	267.63	6564.71	2047.03	-834.41	-1910.12	4.22	2084.42	246.40
8779.00	90.57	266.91	6564.59	2078.55	-835.93	-1942.08	3.23	2114.35	246.71
8810.00	91.92	266.96	6563.92	2109.10	-837.59	-1973.03	4.36	2143.46	247.00
8842.00	91.92	266.91	6562.85	2140.63	-839.30	-2004.97	0.16	2173.55	247.29
8861.00	91.99	265.60	6562.20	2159.38	-840.54	-2023.91	6.90	2191.51	247.45
8892.00	91.88	265.59	6561.15	2190.04	-842.92	-2054.81	0.36	2220.98	247.70
8924.00	92.46	266.64	6559.94	2221.64	-845.08	-2086.71	3.75	2251.34	247.95
8955.00	92.26	264.83	6558.66	2252.27	-847.39	-2117.59	5.87	2280.85	248.19
8987.00	92.22	265.46	6557.41	2283.94	-850.09	-2149.46	1.97	2311.45	248.42
9019.00	92.15	265.19	6556.19	2315.61	-852.70	-2181.33	0.87	2342.07	248.65
9050.00	92.08	264.70	6555.05	2346.31	-855.43	-2212.18	1.60	2371.82	248.86
9082.00	91.28	265.70	6554.11	2377.99	-858.11	-2244.06	4.00	2402.53	249.07
9113.00	90.64	266.85	6553.59	2408.60	-860.12	-2274.99	4.24	2432.15	249.29
9144.00	90.47	266.02	6553.29	2439.20	-862.05	-2305.93	2.73	2461.79	249.50

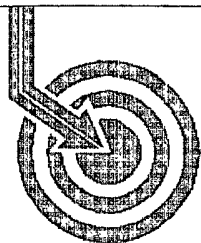


Scientific Drilling International Survey Report

Company: CHEVRON	Date: 12/31/2009	Time: 14:19:33	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 #101	Section (VS) Reference:	Well (0.00N,0.00E,257.27Azi)	
Wellpath: DHST#1 - Job #32D1109513	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
9176.00	90.07	266.29	6553.14	2470.82	-864.19	-2337.85	1.51	2492.47	249.71
9207.00	89.36	268.80	6553.30	2501.32	-865.52	-2368.82	8.41	2521.99	249.93
9239.00	89.16	271.31	6553.71	2532.52	-865.49	-2400.82	7.87	2552.06	250.18
9270.00	88.69	271.21	6554.29	2562.59	-864.81	-2431.80	1.55	2581.00	250.42
9302.00	88.59	271.73	6555.05	2593.61	-863.99	-2463.78	1.65	2610.88	250.68
9333.00	89.19	271.43	6555.65	2623.64	-863.13	-2494.77	2.16	2639.86	250.92
9365.00	89.93	270.81	6555.90	2654.71	-862.51	-2526.76	3.02	2669.91	251.15
9396.00	89.43	271.10	6556.07	2684.83	-861.99	-2557.75	1.86	2699.10	251.38
9428.00	88.69	270.43	6556.59	2715.94	-861.56	-2589.75	3.12	2729.30	251.60
9460.00	88.35	270.47	6557.42	2747.09	-861.31	-2621.73	1.07	2759.59	251.81
9491.00	89.73	271.34	6557.94	2777.21	-860.82	-2652.72	5.26	2788.90	252.02
9523.00	90.67	270.32	6557.83	2808.31	-860.36	-2684.72	4.33	2819.21	252.23
9555.00	90.47	269.12	6557.51	2839.56	-860.52	-2716.72	3.80	2849.74	252.42
9586.00	90.24	269.42	6557.32	2869.88	-860.91	-2747.71	1.22	2879.43	252.60
9617.00	89.40	270.12	6557.42	2900.15	-861.03	-2778.71	3.53	2909.06	252.78
9649.00	88.69	269.20	6557.95	2931.40	-861.22	-2810.71	3.63	2939.69	252.96
9680.00	88.86	269.71	6558.61	2961.69	-861.52	-2841.70	1.73	2969.42	253.13
9712.00	88.82	269.38	6559.26	2992.95	-861.77	-2873.69	1.04	3000.13	253.31
9744.00	87.78	269.04	6560.21	3024.25	-862.21	-2905.67	3.42	3030.90	253.47
9775.00	88.76	268.65	6561.14	3054.60	-862.84	-2936.65	3.40	3060.79	253.63
9807.00	90.27	268.04	6561.42	3086.00	-863.76	-2968.64	5.09	3091.75	253.78
9839.00	89.26	266.60	6561.55	3117.51	-865.26	-3000.60	5.50	3122.86	253.91
9870.00	88.49	266.96	6562.16	3148.08	-867.00	-3031.55	2.74	3153.09	254.04
9902.00	89.76	266.77	6562.64	3179.63	-868.75	-3063.49	4.01	3184.29	254.17
9934.00	91.71	268.09	6562.23	3211.12	-870.18	-3095.46	7.36	3215.44	254.30
9965.00	91.98	268.94	6561.24	3241.51	-870.99	-3126.43	2.88	3245.49	254.43
9997.00	91.58	268.46	6560.24	3272.86	-871.71	-3158.41	1.95	3276.49	254.57
10028.00	90.91	267.15	6559.57	3303.33	-872.90	-3189.38	4.75	3306.67	254.69
10060.00	90.40	268.52	6559.20	3334.78	-874.11	-3221.35	4.57	3337.84	254.82
10091.00	89.56	268.14	6559.21	3365.21	-875.01	-3252.34	2.97	3367.99	254.94
10123.00	89.43	268.16	6559.49	3396.63	-876.05	-3284.32	0.41	3399.15	255.06
10153.00	88.89	267.33	6559.93	3426.13	-877.23	-3314.29	3.30	3428.42	255.17
10185.00	88.38	266.38	6560.70	3457.67	-878.98	-3346.23	3.37	3459.75	255.28
10216.00	88.49	268.17	6561.54	3488.19	-880.45	-3377.19	5.78	3490.07	255.39
10248.00	88.59	268.82	6562.36	3519.56	-881.29	-3409.16	2.05	3521.23	255.51
10278.00	87.88	267.89	6563.28	3548.99	-882.16	-3439.14	3.90	3550.47	255.61
10310.00	86.23	267.41	6564.93	3580.42	-883.47	-3471.07	5.37	3581.73	255.72
10341.00	85.39	265.74	6567.19	3610.93	-885.31	-3501.93	6.02	3612.10	255.81
10373.00	86.98	267.77	6569.32	3642.42	-887.12	-3533.80	8.05	3643.45	255.91
10405.00	88.15	267.88	6570.68	3673.85	-888.33	-3565.75	3.67	3674.74	256.01
10436.00	87.91	267.83	6571.75	3704.31	-889.49	-3596.71	0.79	3705.07	256.11
10468.00	88.89	267.62	6572.64	3735.76	-890.76	-3628.67	3.13	3736.40	256.21
10499.00	89.93	269.42	6572.96	3766.16	-891.56	-3659.66	6.71	3766.69	256.31
10531.00	91.24	269.63	6572.63	3797.43	-891.83	-3691.65	4.15	3797.85	256.42
10562.00	91.45	269.94	6571.91	3827.69	-891.94	-3722.65	1.21	3828.01	256.53
10594.00	91.28	270.14	6571.14	3858.89	-891.92	-3754.64	0.82	3859.12	256.64
10626.00	90.98	268.69	6570.51	3890.16	-892.25	-3786.63	4.63	3890.33	256.74
10657.00	90.81	268.87	6570.03	3920.54	-892.91	-3817.62	0.80	3920.65	256.84
10688.00	90.74	270.57	6569.61	3950.80	-893.06	-3848.61	5.49	3950.87	256.94



**Scientific
Drilling**

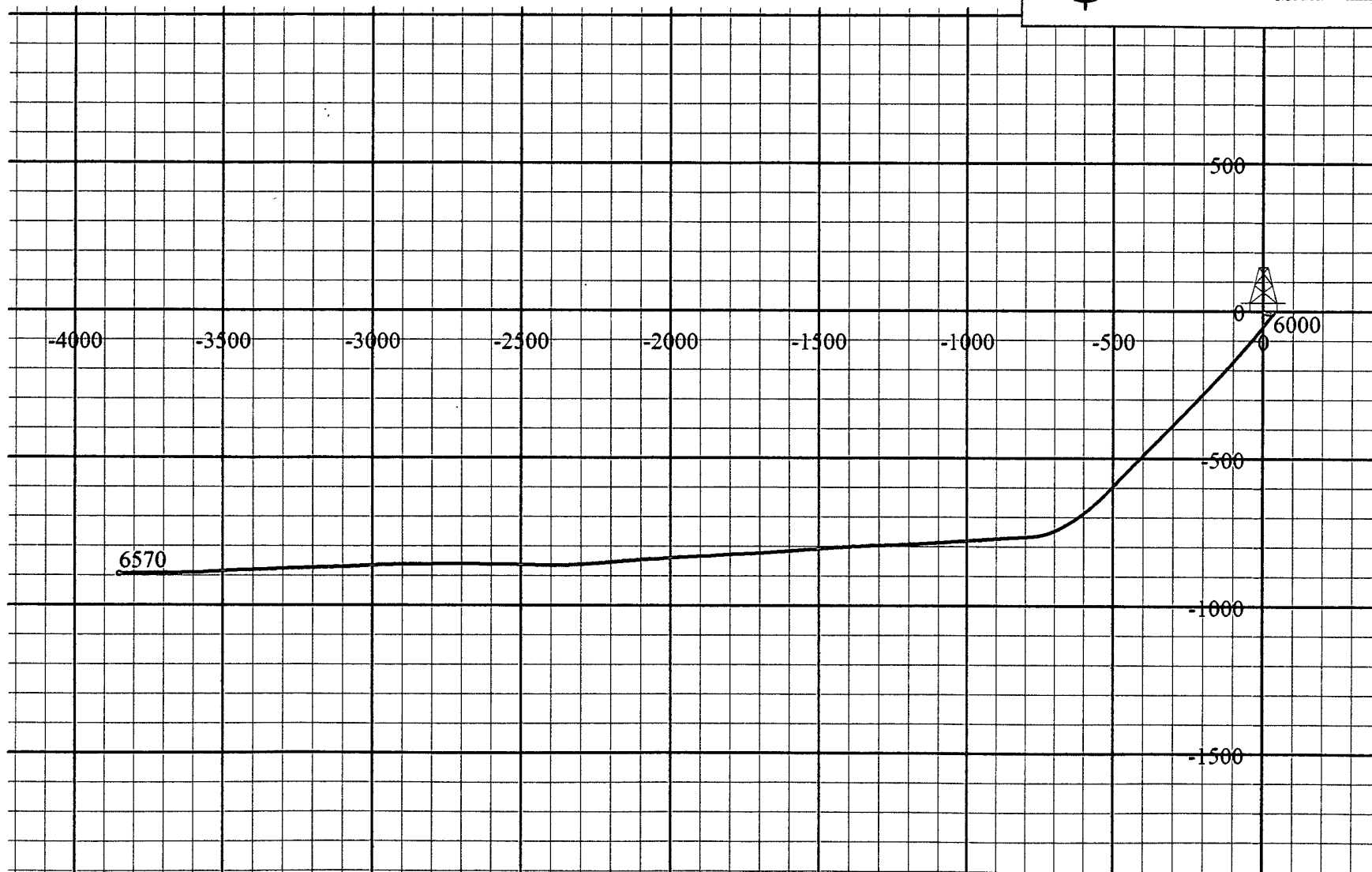
Field: Drinkard
Site: Lea County, NM
Well: Central Drinkard #101
Wellpath: DHST#1 - Job #32D1109513
Survey: 11/30/09-12/19/09



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/31/2009
Model: Wmm_95

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



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