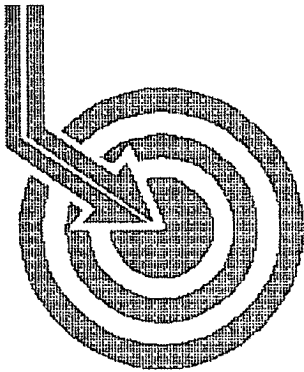


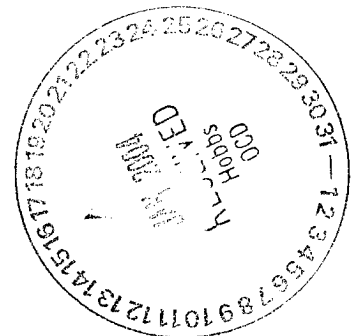


Scientific Drilling

SUR: d-6-18S-35E, 760/n & 484/w
BHL: b-6-18S-35E, 565/N & 2851/W
API # 30-025-28182

CHEVRONTExACO

Field: Central Vacuum
Site: Lea County, NM
Well: CVU #162H
Wellpath: DH - Job #32D1203622
Survey: 12/01/03-12/08/03



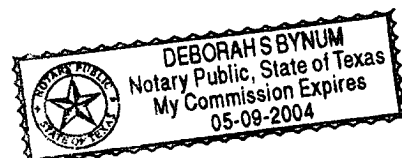
This survey is correct to the best of my knowledge
and is supported by actual field data.

[Signature] Company Representative

Notorized this date 12th of January, 2004.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling

Survey Report

Company: CHEVRONTExACO Field: Central Vacuum Site: Lea County, NM Well: CVU #162H Wellpath: VH - Job #32K1203624	Date: 1/12/2004 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,85.29Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: 12/02/03 KSRG 0'-4200' Company: Scientific Drilling Tool: Keeper, Keeper Gyro	Start Date: 12/2/2003 Engineer: Angel Guebara Tied-to: From Surface
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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	359.55	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.15	179.98	100.0	0.0	-0.1	0.0	0.15	0.1	179.98
200.0	0.16	177.59	200.0	0.0	-0.4	0.0	0.01	0.4	179.15
300.0	0.32	199.38	300.0	-0.1	-0.8	-0.1	0.18	0.8	185.74
400.0	0.74	189.34	400.0	-0.4	-1.7	-0.3	0.43	1.7	189.27
500.0	0.98	196.03	500.0	-0.9	-3.2	-0.6	0.26	3.2	191.07
600.0	1.13	206.05	600.0	-1.7	-4.9	-1.3	0.24	5.0	194.81
700.0	1.65	228.29	699.9	-3.3	-6.7	-2.8	0.74	7.3	202.61
800.0	2.30	235.41	799.9	-6.2	-8.8	-5.5	0.69	10.4	212.08
900.0	3.12	238.98	899.8	-10.4	-11.4	-9.5	0.84	14.8	219.94
1000.0	4.04	235.28	999.6	-15.9	-14.8	-14.7	0.95	20.9	224.94
1100.0	4.70	232.15	1099.3	-22.4	-19.3	-20.9	0.70	28.4	227.26
1200.0	4.88	232.41	1198.9	-29.4	-24.4	-27.5	0.18	36.7	228.40
1300.0	4.44	232.64	1298.6	-36.2	-29.3	-33.9	0.44	44.8	229.14
1400.0	3.65	232.52	1398.3	-42.1	-33.6	-39.5	0.79	51.9	229.61
1500.0	3.00	231.36	1498.2	-47.0	-37.2	-44.1	0.65	57.7	229.85
1600.0	2.28	233.51	1598.1	-50.9	-40.0	-47.7	0.73	62.3	230.03
1700.0	2.07	240.48	1698.0	-54.2	-42.1	-50.9	0.34	66.0	230.42
1800.0	1.93	244.21	1797.9	-57.4	-43.7	-54.0	0.19	69.5	231.01
1900.0	2.00	245.33	1897.9	-60.6	-45.2	-57.1	0.08	72.8	231.65
2000.0	1.24	251.40	1997.8	-63.3	-46.2	-59.7	0.78	75.5	232.24
2100.0	1.17	251.55	2097.8	-65.3	-46.9	-61.7	0.07	77.5	232.76
2200.0	0.78	246.94	2197.8	-67.0	-47.5	-63.3	0.40	79.1	233.11
2300.0	0.76	255.41	2297.8	-68.3	-47.9	-64.6	0.12	80.4	233.41
2400.0	0.58	256.09	2397.8	-69.4	-48.2	-65.7	0.18	81.5	233.72
2500.0	0.26	312.24	2497.8	-70.1	-48.2	-66.4	0.49	82.0	234.01
2600.0	0.63	61.25	2597.8	-69.7	-47.8	-66.0	0.76	81.5	234.12
2700.0	0.65	64.69	2697.8	-68.7	-47.3	-65.0	0.04	80.4	234.00
2800.0	0.57	69.95	2797.8	-67.7	-46.9	-64.1	0.10	79.4	233.82
2900.0	0.62	67.15	2897.8	-66.7	-46.5	-63.1	0.06	78.4	233.63
3000.0	0.68	78.12	2997.8	-65.6	-46.1	-62.0	0.14	77.3	233.35
3100.0	0.49	88.38	3097.8	-64.6	-46.0	-61.0	0.22	76.4	232.98
3200.0	0.38	130.22	3197.8	-63.9	-46.2	-60.3	0.33	76.0	232.55
3300.0	0.44	197.95	3297.7	-63.8	-46.8	-60.2	0.46	76.2	232.15
3400.0	0.56	201.98	3397.7	-64.2	-47.6	-60.5	0.12	77.0	231.80
3500.0	0.75	212.37	3497.7	-64.8	-48.6	-61.0	0.22	78.0	231.46
3600.0	0.90	224.04	3597.7	-65.8	-49.7	-61.9	0.22	79.4	231.24
3700.0	1.07	223.46	3697.7	-67.1	-51.0	-63.1	0.17	81.1	231.08
3800.0	1.22	218.28	3797.7	-68.5	-52.5	-64.4	0.18	83.1	230.83
3900.0	1.17	225.90	3897.7	-70.0	-54.0	-65.8	0.17	85.1	230.61
4000.0	1.45	218.99	3997.6	-71.7	-55.7	-67.3	0.32	87.4	230.39
4100.0	1.52	217.37	4097.6	-73.5	-57.8	-68.9	0.08	89.9	230.04
4200.0	1.56	215.18	4197.6	-75.2	-59.9	-70.5	0.07	92.6	229.65

Scientific Drilling Survey Report

Company: CHEVRONTExACO Field: Central Vacuum Site: Lea County, NM Well: CVU #162H Wellpath: DH - Job #32D1203622	Date: 1/12/2004 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,85.29Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: 12/01/03-12/08/03 MWD 4232'-6906' Company: Scientific Drilling Tool: MWD,MWD	Start Date: 12/1/2003 Engineer: Lamb/Melendez/Grossie Tied-to: From: Definitive Path
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Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4200.0	1.56	215.18	4197.6	-75.2	-59.9	-70.5	0.00	92.6	229.65
4232.0	1.56	215.18	4229.6	-75.8	-60.6	-71.0	0.00	93.4	229.51
4279.0	10.22	65.49	4276.3	-72.2	-59.4	-67.6	24.67	90.0	228.68
4311.0	16.54	62.98	4307.5	-65.4	-56.2	-60.9	19.83	82.9	227.33
4342.0	22.97	64.27	4336.6	-55.6	-51.5	-51.6	20.79	72.9	225.01
4374.0	29.09	69.79	4365.4	-42.3	-46.1	-38.6	20.55	60.2	219.93
4405.0	34.89	73.44	4391.6	-26.3	-41.0	-23.0	19.71	47.0	209.32
4437.0	35.77	73.08	4417.8	-8.2	-35.7	-5.3	2.83	36.1	188.47
4468.0	42.17	70.52	4441.8	10.7	-29.6	13.2	21.28	32.4	155.96
4500.0	48.79	69.40	4464.3	32.7	-21.7	34.6	20.84	40.9	122.13
4532.0	54.98	69.67	4484.0	56.9	-12.9	58.2	19.36	59.6	102.54
4563.0	61.39	69.84	4500.3	82.3	-3.8	82.9	20.68	83.0	92.64
4595.0	67.12	70.08	4514.2	110.1	6.0	110.0	17.92	110.1	86.85
4627.0	73.80	70.11	4524.9	139.2	16.3	138.3	20.88	139.2	83.28
4658.0	77.85	70.89	4532.5	168.2	26.3	166.6	13.29	168.7	81.02
4690.0	84.59	71.46	4537.4	198.9	36.5	196.5	21.14	199.9	79.47
4721.0	85.73	71.75	4540.0	228.9	46.3	225.8	3.79	230.5	78.42
4753.0	85.76	75.63	4542.4	260.1	55.2	256.5	12.09	262.3	77.84
4785.0	88.56	75.70	4544.0	291.6	63.2	287.4	8.75	294.3	77.61
4816.0	88.25	74.87	4544.8	322.2	71.0	317.4	2.86	325.2	77.39
4848.0	88.19	74.86	4545.8	353.6	79.4	348.3	0.19	357.2	77.16
4880.0	88.42	75.04	4546.8	385.1	87.7	379.2	0.91	389.2	76.98
4911.0	88.09	74.60	4547.7	415.6	95.8	409.1	1.77	420.1	76.82
4943.0	88.09	74.79	4548.8	447.0	104.2	439.9	0.59	452.1	76.67
4975.0	88.22	75.06	4549.8	478.5	112.6	470.8	0.94	484.1	76.55
5006.0	88.22	75.08	4550.8	508.9	120.5	500.7	0.06	515.0	76.47
5038.0	88.66	74.95	4551.7	540.4	128.8	531.6	1.43	547.0	76.38
5069.0	88.62	75.69	4552.4	570.9	136.7	561.6	2.39	578.0	76.32
5101.0	88.79	74.69	4553.1	602.4	144.8	592.5	3.17	610.0	76.26
5133.0	88.12	72.02	4554.0	633.7	154.0	623.2	8.60	641.9	76.12
5164.0	88.29	71.69	4555.0	663.9	163.6	652.6	1.20	672.8	75.92
5196.0	87.88	72.18	4556.0	695.0	173.6	683.0	2.00	704.7	75.74
5227.0	89.09	78.57	4556.8	725.5	181.4	713.0	20.97	735.7	75.73
5259.0	89.23	79.97	4557.3	757.3	187.3	744.4	4.40	767.7	75.87
5291.0	89.40	85.80	4557.7	789.3	191.3	776.2	18.23	799.4	76.15
5322.0	89.50	87.15	4558.0	820.3	193.2	807.1	4.37	829.9	76.54
5354.0	89.23	87.01	4558.3	852.2	194.8	839.1	0.95	861.4	76.93
5385.0	89.46	87.08	4558.7	883.2	196.4	870.0	0.78	891.9	77.28
5417.0	89.06	86.70	4559.1	915.2	198.2	902.0	1.72	923.5	77.61
5449.0	88.49	84.32	4559.8	947.2	200.7	933.9	7.65	955.2	77.87
5480.0	88.99	85.24	4560.5	978.2	203.5	964.7	3.38	986.0	78.09
5512.0	91.84	86.28	4560.3	1010.2	205.9	996.6	9.48	1017.7	78.33
5543.0	92.28	86.57	4559.1	1041.2	207.8	1027.6	1.70	1048.4	78.57
5575.0	91.95	86.00	4558.0	1073.1	209.9	1059.5	2.06	1080.1	78.80
5606.0	88.83	85.68	4557.7	1104.1	212.1	1090.4	10.12	1110.8	78.99
5638.0	88.69	84.80	4558.4	1136.1	214.8	1122.3	2.78	1142.6	79.17
5670.0	89.53	85.46	4558.9	1168.1	217.5	1154.2	3.34	1174.5	79.33
5701.0	91.85	86.48	4558.6	1199.1	219.7	1185.1	8.18	1205.3	79.50
5732.0	92.76	86.30	4557.3	1230.1	221.6	1216.0	2.99	1236.0	79.67

Scientific Drilling Survey Report

Company: CHEVRONTXACO
Field: Central Vacuum
Site: Lea County, NM
Well: CVU #162H
Wellpath: DH - Job #32D1203622

Date: 1/12/2004 **Time:** 12:41:29 **Page:** 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,85.29Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

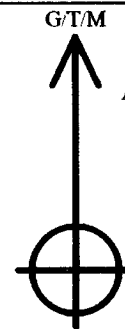
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5763.0	90.91	86.60	4556.3	1261.1	223.5	1246.9	6.05	1266.8	79.84
5795.0	90.81	87.12	4555.8	1293.0	225.3	1278.9	1.65	1298.6	80.01
5826.0	90.10	86.84	4555.6	1324.0	226.9	1309.8	2.46	1329.3	80.17
5858.0	87.66	85.42	4556.2	1356.0	229.1	1341.7	8.82	1361.1	80.31
5890.0	88.56	84.36	4557.3	1388.0	231.9	1373.6	4.34	1393.0	80.42
5921.0	88.32	84.01	4558.1	1419.0	235.1	1404.4	1.37	1424.0	80.50
5953.0	88.79	83.47	4558.9	1451.0	238.6	1436.2	2.24	1455.9	80.57
5985.0	88.93	83.97	4559.6	1482.9	242.1	1468.0	1.62	1487.8	80.64
6016.0	88.32	86.86	4560.3	1513.9	244.5	1498.9	9.53	1518.7	80.73
6048.0	83.57	87.45	4562.6	1545.8	246.1	1530.8	14.96	1550.4	80.87
6079.0	77.80	88.32	4567.6	1576.4	247.2	1561.3	18.82	1580.8	81.00
6110.0	75.57	88.05	4574.7	1606.5	248.2	1591.5	7.24	1610.7	81.14
6142.0	70.76	89.27	4584.0	1637.1	248.9	1622.1	15.47	1641.1	81.28
6174.0	70.94	89.45	4594.5	1667.2	249.3	1652.3	0.77	1671.0	81.42
6205.0	69.23	89.22	4605.0	1696.3	249.6	1681.5	5.56	1699.9	81.56
6237.0	69.22	89.40	4616.4	1726.1	250.0	1711.4	0.53	1729.5	81.69
6268.0	66.51	91.11	4628.1	1754.7	249.8	1740.1	10.13	1757.9	81.83
6300.0	67.43	90.48	4640.6	1784.0	249.4	1769.5	3.40	1787.0	81.98
6331.0	69.01	89.95	4652.1	1812.7	249.3	1798.3	5.34	1815.5	82.11
6367.0	73.17	90.51	4663.8	1846.6	249.2	1832.4	11.65	1849.2	82.26
6394.0	77.62	92.41	4670.6	1872.6	248.5	1858.5	17.83	1875.0	82.38
6426.0	82.12	93.98	4676.2	1903.8	246.8	1889.9	14.87	1906.0	82.56
6457.0	86.51	95.87	4679.3	1934.2	244.1	1920.7	15.41	1936.1	82.76
6489.0	90.00	96.57	4680.2	1965.6	240.6	1952.4	11.12	1967.2	82.97
6521.0	89.63	96.96	4680.3	1997.0	236.9	1984.2	1.68	1998.3	83.19
6552.0	89.87	97.06	4680.5	2027.3	233.1	2015.0	0.84	2028.4	83.40
6584.0	93.23	95.68	4679.6	2058.7	229.5	2046.8	11.35	2059.6	83.60
6616.0	93.70	95.61	4677.7	2090.1	226.4	2078.6	1.48	2090.9	83.78
6647.0	94.27	95.70	4675.5	2120.6	223.3	2109.3	1.86	2121.1	83.96
6679.0	94.70	95.70	4673.0	2151.9	220.2	2141.1	1.34	2152.4	84.13
6710.0	91.91	96.11	4671.2	2182.3	217.0	2171.9	9.10	2182.7	84.29
6742.0	92.52	96.06	4670.0	2213.8	213.6	2203.7	1.91	2214.0	84.46
6773.0	89.53	96.17	4669.4	2244.2	210.3	2234.5	9.65	2244.3	84.62
6805.0	89.80	95.95	4669.6	2275.6	206.9	2266.3	1.09	2275.7	84.78
6836.0	90.37	96.05	4669.6	2306.1	203.7	2297.1	1.87	2306.1	84.93
6870.0	88.19	97.12	4670.0	2339.4	199.8	2330.9	7.14	2339.4	85.10
6906.0	88.19	97.12	4671.1	2374.6	195.3	2366.6	0.00	2374.6	85.28



**Scientific
Drilling**

Field: Central Vacuum
Site: Lea County, NM
Well: CVU #162H
Wellpath: DH - Job #32D1203622
Survey: 12/01/03-12/08/03



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

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 1/12/2004
Model: igrf2000

