

Results of Directional Survey

API number:	30-025-30437		
OGRID:		Operator:	CONOCOPHILLIPS COMPANY
		Property:	VACUUM GLORIETA EAST UNIT # 6

surface	ULSTR:	O	28	T 17S	R 35E
			1195	FSL	2518 FEL

BH Loc	ULSTR:	M	28	T 17S	R 35E
			288	FSL	4091 FEL

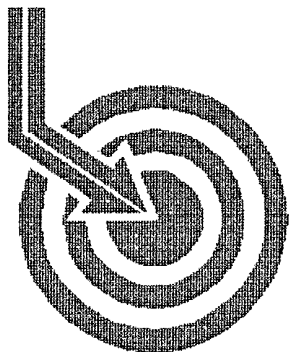
	MD	N/S	E/W	VD
	5798	-2.81	40.78	5797.58
TOP PERFS/OH	5808	-3.51	39.71	5807.46
	5862	-7.30	33.92	5860.83
	7715	-869.97	-1513.81	6052.49
BOT PERFS/OH	7785	-907.30	-1573.00	6055.41
	7733	-879.57	-1529.03	6053.24

NEXT TO LAST	7715	-869.97	-1513.81	6052.49
LAST READING	7733	-879.57	-1529.03	6053.24
TD	7785	-907.30	-1573.00	6055.41

Surface Location	1195	FS	2518	FE
Projected BHL	288	FS	4091	FE
Location of				
Top Perfs/OH	1191	FS	2478	FE
Bottom Perfs/OH	288	FS	4091	FE

SUMMARY of Subsurface Locations

Surface Location	O-28-17S-35E	1195	FS	2518	FE	Vert Depth
Top Perfs/OH	O-28-17S-35E	1191	FS	2478	FE	5807.46
Bottom Perfs/OH	M-28-17S-35E	288	FS	4091	FE	6055.41
Projected TD	M-28-17S-35E	288	FS	4091	FE	6055.41



Scientific Drilling

SUR @ O-28s-17s-35e, 1195/S & 2518/E
BHL @ M-28-18s-35e, 288/S & 4091/E
API # 30-025-30437

CONOCOPHILLIPS

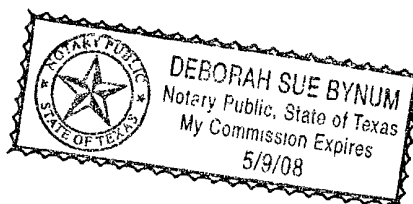
Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748
Survey: 09/05/07-09/21/07

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

.....*R. Wharton*..... Company Representative

Notorized this date 25th of October, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: VH - Job #32K0907773

Date: 10/07/2007
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 09/06/07
Start Date: 09/06/2007
Company: Scientific Drilling Internatio
Engineer: Rehders/Stanley w/GeoGyro
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	0.39	183.52	100.00	0.19	-0.34	-0.02	0.39	0.34	183.52
200.00	0.40	187.99	200.00	0.59	-1.03	-0.09	0.03	1.03	185.03
300.00	0.42	178.97	299.99	0.98	-1.74	-0.13	0.07	1.74	184.35
400.00	0.64	207.93	399.99	1.63	-2.60	-0.39	0.34	2.63	188.48
500.00	0.81	208.02	499.98	2.71	-3.71	-0.98	0.17	3.84	194.79
600.00	0.81	197.29	599.97	3.83	-5.01	-1.52	0.15	5.24	196.90
700.00	0.69	203.41	699.96	4.83	-6.24	-1.97	0.14	6.55	197.54
800.00	0.74	209.75	799.96	5.87	-7.35	-2.53	0.09	7.78	199.00
900.00	0.50	202.31	899.95	6.77	-8.32	-3.02	0.25	8.85	199.94
1000.00	0.42	194.83	999.95	7.38	-9.08	-3.28	0.10	9.65	199.85
1100.00	0.26	209.64	1099.94	7.83	-9.63	-3.48	0.18	10.24	199.89
1200.00	0.43	211.21	1199.94	8.36	-10.15	-3.79	0.17	10.83	200.48
1300.00	0.39	197.99	1299.94	8.94	-10.79	-4.09	0.10	11.54	200.76
1400.00	0.39	177.74	1399.94	9.35	-11.45	-4.18	0.14	12.19	200.05
1500.00	0.36	174.49	1499.94	9.64	-12.11	-4.14	0.04	12.79	198.87
1600.00	0.30	162.16	1599.93	9.82	-12.67	-4.03	0.09	13.29	197.64
1700.00	0.20	151.89	1699.93	9.88	-13.07	-3.87	0.11	13.63	196.47
1800.00	0.17	153.07	1799.93	9.90	-13.36	-3.72	0.03	13.87	195.54
1900.00	0.07	164.78	1899.93	9.92	-13.55	-3.63	0.10	14.03	195.01
2000.00	0.13	221.67	1999.93	10.04	-13.69	-3.69	0.11	14.18	195.09
2100.00	0.15	61.11	2099.93	10.02	-13.71	-3.65	0.28	14.19	194.91
2200.00	0.22	48.28	2199.93	9.70	-13.52	-3.39	0.08	13.94	194.09
2300.00	0.31	31.75	2299.93	9.28	-13.17	-3.11	0.12	13.53	193.29
2400.00	0.19	49.03	2399.93	8.87	-12.83	-2.84	0.14	13.14	192.49
2500.00	0.38	50.92	2499.93	8.38	-12.51	-2.46	0.19	12.75	191.12
2600.00	0.59	40.28	2599.93	7.57	-11.91	-1.87	0.23	12.05	188.92
2700.00	0.50	40.38	2699.92	6.68	-11.18	-1.25	0.09	11.25	186.39
2800.00	0.71	55.86	2799.91	5.65	-10.50	-0.46	0.26	10.51	182.49
2900.00	0.86	47.57	2899.91	4.30	-9.65	0.61	0.19	9.67	176.39
3000.00	0.70	54.82	2999.90	2.96	-8.79	1.66	0.19	8.95	169.29
3100.00	0.71	64.55	3099.89	1.73	-8.17	2.72	0.12	8.61	161.58
3200.00	0.83	65.10	3199.88	0.39	-7.60	3.94	0.12	8.56	152.61
3300.00	0.66	57.34	3299.87	-0.91	-6.98	5.08	0.20	8.64	143.98
3400.00	0.64	81.20	3399.86	-2.00	-6.59	6.12	0.27	8.99	137.13
3500.00	0.67	79.67	3499.86	-3.07	-6.40	7.24	0.03	9.66	131.46
3600.00	0.61	86.89	3599.85	-4.10	-6.26	8.35	0.10	10.44	126.88
3700.00	0.51	102.61	3699.85	-4.90	-6.33	9.32	0.18	11.26	124.21
3800.00	0.68	109.24	3799.84	-5.62	-6.63	10.31	0.18	12.26	122.73
3900.00	0.59	103.54	3899.84	-6.38	-6.94	11.37	0.11	13.32	121.40
4000.00	0.76	108.50	3999.83	-7.19	-7.27	12.50	0.18	14.46	120.19
4100.00	0.72	116.44	4099.82	-7.98	-7.76	13.69	0.11	15.74	119.55
4200.00	0.60	89.75	4199.81	-8.78	-8.04	14.78	0.33	16.82	118.55
4300.00	0.67	76.48	4299.81	-9.79	-7.90	15.87	0.16	17.73	116.47
4400.00	0.81	81.55	4399.80	-11.01	-7.66	17.14	0.15	18.77	114.09
4500.00	1.03	68.65	4499.79	-12.56	-7.23	18.67	0.30	20.03	111.16
4600.00	1.27	63.34	4599.77	-14.55	-6.41	20.50	0.26	21.48	107.35
4700.00	1.36	69.62	4699.74	-16.83	-5.49	22.60	0.17	23.26	103.66
4800.00	1.10	70.62	4799.72	-18.94	-4.76	24.62	0.26	25.08	100.95



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 10/07/2007 Time: 13:41:15 Page: 2
Field: Vacuum Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: VGEU #01-06 Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
Wellpath: VH - Job #32K0907773 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
4900.00	1.03	66.85	4899.70	-20.78	-4.09	26.35	0.10	26.67	98.82
5000.00	1.02	74.64	4999.68	-22.53	-3.50	28.04	0.14	28.26	97.12
5100.00	0.97	82.33	5099.67	-24.18	-3.15	29.74	0.14	29.90	96.05
5200.00	0.88	96.76	5199.66	-25.57	-3.13	31.34	0.25	31.49	95.71
5300.00	1.02	99.57	5299.64	-26.88	-3.37	32.98	0.15	33.15	95.83
5400.00	0.92	87.50	5399.63	-28.27	-3.48	34.66	0.23	34.83	95.74
5500.00	0.94	90.66	5499.62	-29.69	-3.46	36.28	0.06	36.44	95.44
5600.00	0.85	87.38	5599.60	-31.06	-3.43	37.84	0.10	38.00	95.18
5700.00	0.90	77.32	5699.59	-32.46	-3.23	39.35	0.16	39.48	94.69
5798.00	0.85	70.12	5797.58	-33.91	-2.81	40.78	0.12	40.88	93.94



Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 10/18/2007 Time: 20:57:42 Page: 1
Field: Vacuum Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Site: Lea County, NM Vertical (TVD) Reference: SITE 0.0
Well: VGEU #01-06 Section (VS) Reference: Well (0.00N,0.00E,240.00Azi)
Wellpath: DH - Job #32D0807748 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/05/07-09/21/07 Start Date: 09/05/2007
MWD 5862'-7733'
Company: Scientific Drilling Internatio Engineer: Johns/Lopez/Graham/Smith
Tool: Keeper;Keeper GYRO 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
5798.00	0.85	70.12	5797.58	-33.91	-2.81	40.78	0.00	40.88	93.94
5862.00	15.60	237.51	5860.83	-25.73	-7.30	33.92	25.67	34.70	102.15
5894.00	23.54	234.53	5890.96	-15.05	-13.33	25.08	25.00	28.40	118.00
5925.00	31.77	233.31	5918.39	-0.76	-21.81	13.47	26.61	25.64	148.30
5957.00	38.74	235.16	5944.51	17.61	-32.58	-1.52	22.03	32.62	182.67
5989.00	46.52	236.43	5968.04	39.21	-44.74	-19.44	24.46	48.78	203.49
6021.00	54.20	236.44	5988.44	63.78	-58.35	-39.96	24.00	70.72	214.40
6052.00	62.23	237.50	6004.75	90.07	-72.70	-62.04	26.07	95.57	220.48
6084.00	69.08	238.21	6017.94	119.19	-88.19	-86.71	21.50	123.68	224.51
6114.00	74.88	238.47	6027.21	147.70	-103.16	-110.98	19.35	151.52	227.09
6145.00	79.48	237.26	6034.09	177.89	-119.24	-136.57	15.32	181.30	228.88
6177.00	84.74	238.72	6038.48	209.56	-136.03	-163.44	17.05	212.64	230.23
6209.00	87.81	240.20	6040.56	241.49	-152.25	-190.94	10.65	244.21	231.43
6240.00	88.01	241.69	6041.69	272.46	-167.30	-218.02	4.85	274.81	232.50
6272.00	88.15	242.28	6042.76	304.42	-182.32	-246.25	1.89	306.40	233.48
6304.00	89.26	242.91	6043.48	336.38	-197.04	-274.66	3.99	338.03	234.34
6336.00	90.34	243.15	6043.60	368.34	-211.56	-303.17	3.46	369.69	235.09
6367.00	90.84	243.88	6043.28	399.27	-225.38	-330.92	2.85	400.38	235.74
6383.00	91.04	243.56	6043.01	415.24	-232.46	-345.26	2.36	416.23	236.05
6415.00	92.55	243.14	6042.01	447.17	-246.81	-373.85	4.90	447.97	236.57
6447.00	90.77	243.13	6041.09	479.10	-261.26	-402.38	5.56	479.76	237.00
6479.00	89.13	242.87	6041.11	511.06	-275.79	-430.89	5.19	511.60	237.38
6510.00	89.09	242.65	6041.60	542.02	-289.98	-458.45	0.72	542.46	237.69
6542.00	88.96	242.34	6042.14	573.99	-304.75	-486.83	1.05	574.35	237.95
6574.00	89.33	242.11	6042.62	605.96	-319.66	-515.14	1.36	606.26	238.18
6605.00	90.20	242.46	6042.74	636.93	-334.08	-542.58	3.03	637.19	238.38
6637.00	91.04	242.41	6042.40	668.90	-348.89	-570.95	2.63	669.11	238.57
6669.00	89.43	242.77	6042.27	700.87	-363.62	-599.36	5.16	701.03	238.76
6701.00	89.53	242.39	6042.56	732.83	-378.36	-627.76	1.23	732.96	238.92
6732.00	90.27	242.76	6042.61	763.80	-392.63	-655.28	2.67	763.90	239.07
6764.00	90.57	242.19	6042.38	795.77	-407.42	-683.65	2.01	795.85	239.21
6796.00	88.39	242.24	6042.67	827.74	-422.34	-711.96	6.81	827.80	239.32
6827.00	88.89	242.21	6043.40	858.71	-436.78	-739.38	1.62	858.75	239.43
6859.00	89.77	242.03	6043.78	890.69	-451.74	-767.66	2.81	890.72	239.52
6891.00	90.71	241.87	6043.64	922.67	-466.79	-795.90	2.98	922.69	239.61
6923.00	89.43	242.19	6043.60	954.65	-481.80	-824.17	4.12	954.66	239.69
6954.00	90.00	242.12	6043.76	985.62	-496.28	-851.58	1.85	985.63	239.77
6986.00	91.65	242.52	6043.30	1017.59	-511.14	-879.91	5.31	1017.60	239.85
7018.00	89.56	242.46	6042.96	1049.56	-525.92	-908.29	6.53	1049.56	239.93
7049.00	90.50	242.87	6042.94	1080.53	-540.15	-935.83	3.31	1080.53	240.01
7081.00	91.62	242.90	6042.35	1112.48	-554.74	-964.30	3.50	1112.48	240.09
7113.00	89.90	242.47	6041.93	1144.44	-569.42	-992.73	5.54	1144.45	240.16
7144.00	90.13	242.49	6041.92	1175.41	-583.74	-1020.22	0.74	1175.42	240.22
7176.00	88.22	241.92	6042.38	1207.38	-598.66	-1048.53	6.23	1207.40	240.28
7208.00	88.86	242.03	6043.19	1239.35	-613.69	-1076.77	2.03	1239.37	240.32
7239.00	89.33	241.79	6043.68	1270.33	-628.29	-1104.11	1.70	1270.36	240.36
7271.00	87.58	241.30	6044.55	1302.31	-643.53	-1132.23	5.68	1302.34	240.39
7303.00	87.81	241.14	6045.83	1334.27	-658.92	-1160.26	0.88	1334.31	240.41
7334.00	88.32	240.53	6046.88	1365.25	-674.02	-1187.31	2.56	1365.29	240.42



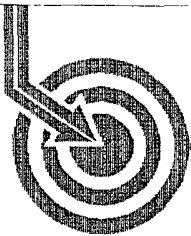
Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748

Date: 10/18/2007 Time: 20:57:42 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,240.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

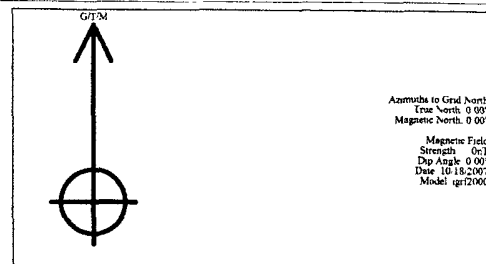
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
7366.00	88.96	239.67	6047.64	1397.24	-689.97	-1215.05	3.35	1397.28	240.41
7398.00	89.30	239.78	6048.13	1429.24	-706.10	-1242.68	1.12	1429.27	240.39
7430.00	90.47	239.77	6048.19	1461.24	-722.21	-1270.33	3.66	1461.27	240.38
7461.00	91.14	239.85	6047.76	1492.24	-737.79	-1297.12	2.18	1492.27	240.37
7493.00	91.75	239.77	6046.95	1524.22	-753.88	-1324.77	1.92	1524.25	240.36
7525.00	89.93	239.18	6046.48	1556.22	-770.13	-1352.33	5.98	1556.25	240.34
7556.00	90.03	239.15	6046.49	1587.22	-786.02	-1378.95	0.34	1587.24	240.32
7588.00	88.69	238.81	6046.85	1619.21	-802.51	-1406.37	4.32	1619.23	240.29
7620.00	87.35	238.07	6047.95	1651.18	-819.25	-1433.62	4.78	1651.19	240.25
7652.00	87.01	237.54	6049.53	1683.11	-836.28	-1460.67	1.97	1683.12	240.21
7683.00	87.28	237.50	6051.07	1714.05	-852.90	-1486.79	0.88	1714.05	240.16
7715.00	87.65	237.95	6052.49	1745.99	-869.97	-1513.81	1.82	1745.99	240.11
7733.00	87.55	237.57	6053.24	1763.96	-879.57	-1529.03	2.18	1763.96	240.09



Scientific
Drilling

Field: Vacuum
Site: Lea County, NM
Well: VGEU #01-06
Wellpath: DH - Job #32D0807748
Survey: 09/05/07-09/21/07



West(-)/East(+) [200ft/in]

South(-)/North(+) [200ft/in]

