Results of Directional Survey

API number:	30-025-30505			
OGRID:		Operator:	CONOCOPHILLPS COMPANY	
		Property:	VACUUM GLORIETA EAST UNIT TR 42	# 1

surface	ULSTR:	E	33	T	17S	R	35E
			1655	FNL	990	FWL	
BH Loc	ULSTR:	C	33	T	17S	R	35E
			496	FNL	1706	FWL	

	MD	N/S	E/W	VD
	5800	50.68	4.93	5798.68
TOP PERFS/OH	**5810**	51.07	4.83	5808.67
	5810	51.07	4.83	5808.67
	7187	1092.75	676.75	6064.09
BOT PERFS/OH	**7264**	1158.71	716.28	6059.95
	7211	1113.31	689.07	6062.80

NEXT TO LAST	7187	1092.75	676.75	6064.09
LAST READING	7211	1113.31	689.07	6062.80
TD	**7264**	1158.71	716.28	6059 95

Surface Location	1655	FN	990	FW
Projected BHL	496	FN	1706	FW
Location of				
Top Perfs/OH	1604	FN	995	FW
Bottom Perfs/OH	496	FN	1706	FW

SUMMARY of Subsurface Locations

Surface Location	E-33-17S-35E	1655	FN	990	FW	Vert. Depth
Top Perfs/OH	E-33-17S-35E	1604	FN	995	FW	5808.67
Bottom Perfs/OH	C-33-17S-35E	496	FN	1706	FW	6059.95
Projected TD	C-33-17S-35E	496	FN	1706	FW	6059.95

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Field: Vacuum
Site: Lea County, NM
Well: VGEU #42-01
Wellpath: DH - Job #32D0807683
Survey: 08/13/07-08/27/07

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

.....Company Representative

Notorized this date 18th of September, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
DEBORAH SUE BYNUM
Notary Public, State of Texas
My Commission Expires
5/9/08

Scientific Drilling

Scientific Drilling International

Survey Report

Company:	CONOCOPHILLIPS	**Date:**	09/07/2007	**Time:** 11:39:59	**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 #42-01	**Section (VS) Reference:**	Well (0.00N,0.00E,33.00Azi)		
Wellpath:	VH - Job #32K0807693	**Survey Calculation Method:**	Minimum Curvature	**Db:** Sybase	

Survey:	08/15/07 KSRG 0'-5810'	**Start Date:**	08/15/2007
Company:	Scientific Drilling Internatio	**Engineer:**	Guebara 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	359.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.40	247.06	100.00	-0.29	-0.14	-0.32	0.40	0.35	247.06
200.00	0.59	235.52	200.00	-1.05	-0.56	-1.07	0.21	1.21	242.16
300.00	0.43	239.14	299.99	-1.87	-1.05	-1.81	0.16	2.09	239.99
400.00	0.35	236.30	399.99	-2.48	-1.41	-2.39	0.08	2.77	239.47
500.00	0.38	251.56	499.99	-3.02	-1.68	-2.96	0.10	3.40	240.36
600.00	0.30	262.54	599.99	-3.45	-1.82	-3.53	0.10	3.98	242.71
700.00	0.24	242.43	699.98	-3.81	-1.95	-3.98	0.11	4.43	243.84
800.00	0.21	208.29	799.98	-4.17	-2.21	-4.25	0.14	4.79	242.51
900.00	0.21	215.91	899.98	-4.54	-2.52	-4.45	0.03	5.11	240.43
1000.00	0.39	165.86	999.98	-4.95	-3.00	-4.47	0.30	5.38	236.13
1100.00	0.51	175.37	1099.98	-5.53	-3.77	-4.35	0.14	5.76	229.06
1200.00	0.53	172.24	1199.97	-6.24	-4.68	-4.25	0.03	6.32	222.28
1300.00	0.77	175.87	1299.97	-7.12	-5.80	-4.14	0.24	7.13	215.51
1400.00	0.86	176.35	1399.96	-8.26	-7.22	-4.04	0.09	8.28	209.25
1500.00	0.90	170.06	1499.95	-9.44	-8.75	-3.86	0.10	9.56	203.82
1600.00	0.94	175.67	1599.93	-10.67	-10.34	-3.66	0.10	10.97	199.52
1700.00	0.91	173.15	1699.92	-11.93	-11.94	-3.51	0.05	12.45	196.37
1800.00	0.93	167.91	1799.91	-13.11	-13.53	-3.24	0.09	13.91	193.48
1900.00	0.81	160.18	1899.90	-14.11	-14.98	-2.83	0.17	15.25	190.71
2000.00	0.87	146.86	1999.89	-14.84	-16.28	-2.18	0.20	16.43	187.62
2100.00	0.88	127.39	2099.87	-15.21	-17.39	-1.15	0.30	17.43	183.79
2200.00	0.82	123.56	2199.86	-15.28	-18.25	0.05	0.08	18.25	179.83
2300.00	0.94	120.00	2299.85	-15.24	-19.05	1.36	0.13	19.10	175.92
2400.00	1.01	97.50	2399.84	-14.82	-19.58	2.94	0.39	19.80	171.45
2500.00	1.06	82.59	2499.82	-13.84	-19.58	4.74	0.27	20.14	166.40
2600.00	1.08	67.83	2599.80	-12.47	-19.10	6.53	0.28	20.18	161.14
2700.00	1.26	67.67	2699.78	-10.79	-18.33	8.41	0.18	20.17	155.34
2800.00	1.04	51.56	2799.76	-9.02	-17.35	10.14	0.39	20.09	149.68
2900.00	0.92	21.14	2899.75	-7.38	-16.03	11.14	0.53	19.52	145.20
3000.00	0.67	12.27	2999.74	-6.04	-14.71	11.56	0.28	18.71	141.85
3100.00	0.53	355.10	3099.73	-5.13	-13.68	11.64	0.23	17.96	139.60
3200.00	0.55	350.33	3199.73	-4.41	-12.75	11.52	0.05	17.18	137.89
3300.00	0.49	328.21	3299.72	-3.88	-11.91	11.22	0.21	16.36	136.72
3400.00	0.80	315.16	3399.72	-3.55	-11.05	10.50	0.34	15.24	136.47
3500.00	0.78	325.72	3499.71	-3.14	-9.99	9.62	0.15	13.87	136.08
3600.00	0.94	321.03	3599.70	-2.62	-8.79	8.72	0.17	12.39	135.23
3700.00	0.96	335.55	3699.68	-1.92	-7.39	7.86	0.24	10.79	133.24
3800.00	1.03	327.55	3799.67	-1.09	-5.87	7.03	0.16	9.16	129.86
3900.00	1.06	337.25	3899.65	-0.20	-4.26	6.19	0.18	7.52	124.53
4000.00	1.04	339.78	3999.64	0.86	-2.56	5.52	0.05	6.08	114.84
4100.00	1.00	346.80	4099.62	2.01	-0.85	5.01	0.13	5.08	99.69
4200.00	1.02	340.18	4199.60	3.15	0.83	4.51	0.12	4.58	79.54
4300.00	0.93	340.59	4299.59	4.19	2.44	3.93	0.09	4.63	58.25
4400.00	1.05	351.20	4399.58	5.36	4.11	3.52	0.22	5.41	40.65
4500.00	1.19	15.57	4499.56	7.04	6.01	3.66	0.49	7.04	31.36
4600.00	1.09	34.77	4599.54	8.98	7.79	4.48	0.39	8.99	29.92
4700.00	1.46	63.55	4699.51	11.03	9.14	6.17	0.73	11.03	34.01
4800.00	1.89	18.14	4799.47	13.72	11.28	7.82	1.35	13.72	34.75

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	CONOCOPHILLIPS	**Date:**	09/07/2007	**Time:**	11:39:59	**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 #42-01	**Section (VS) Reference:**	Well (0.00N,0.00E,33.00Azi)				
Wellpath:	VH - Job #32K0807693	**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	1.93	4.72	4899.42	16.79	14.52	8.47	0.45	16.81	30.26
5000.00	1.97	359.11	4999.36	19.70	17.92	8.59	0.19	19.87	25.60
5100.00	2.10	357.61	5099.30	22.62	21.47	8.48	0.14	23.08	21.56
5200.00	2.36	355.99	5199.22	25.76	25.35	8.26	0.27	26.66	18.05
5300.00	2.43	355.15	5299.14	29.08	29.52	7.94	0.08	30.57	15.05
5400.00	2.52	353.35	5399.04	32.45	33.81	7.51	0.12	34.64	12.51
5500.00	2.61	352.34	5498.94	35.87	38.25	6.95	0.10	38.88	10.29
5600.00	2.36	351.38	5598.85	39.13	42.55	6.33	0.25	43.02	8.47
5700.00	2.44	350.78	5698.76	42.25	46.68	5.69	0.08	47.03	6.94
5800.00	2.22	347.75	5798.68	45.19	50.68	4.93	0.25	50.92	5.56
5810.00	2.39	343.33	5808.67	45.46	51.07	4.83	2.46	51.29	5.41

Scientific Drilling

Scientific Drilling International
Survey Report

Company:	CONOCOPHILLIPS	**Date:** 09/12/2007	**Time:** 08:21:34 **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 #42-01	**Section (VS) Reference:**	Well (0.00N,0.00E,33.00Azi)
Wellpath:	DH - Job #32D0[illegible]3	**Survey Calculation Method:**	Minimum Curvature **Db:** Sybase

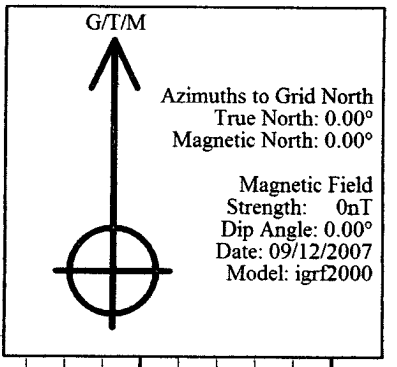
Survey:	08/13/07-08/27/07 MWD 5867'-7211'	**Start Date:**	08/13/2007
Company:	Scientific Drilling Internatio	**Engineer:**	Barbre/Lopez/Boyd/Smith
Tool:	Keeper;Keeper Gyro	**Tied-to:**	From: Definitive Path

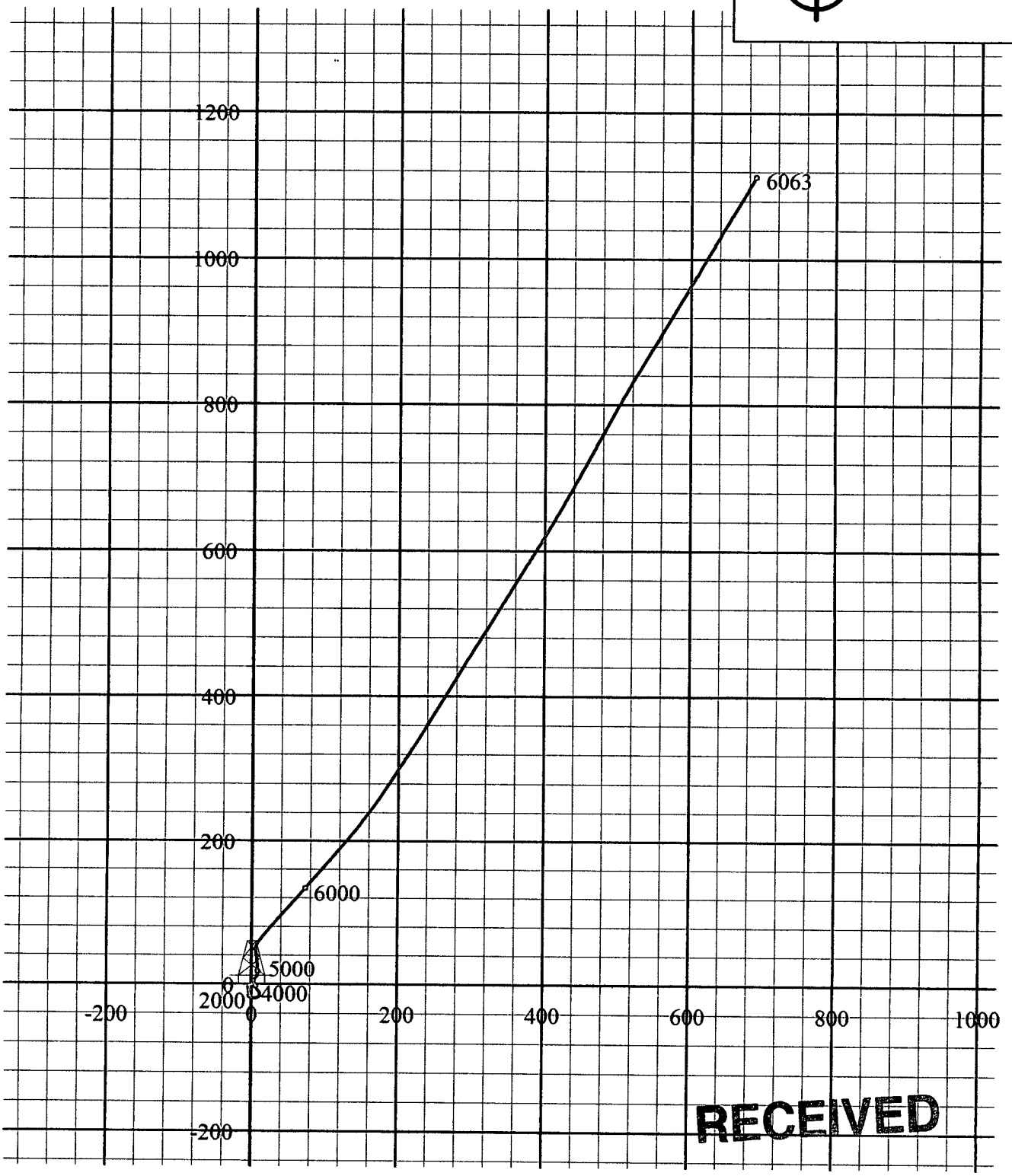
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5810.00	2.39	343.33	5808.67	45.46	51.07	4.83	0.00	51.29	5.41
5867.00	14.45	34.99	5864.99	53.37	58.06	8.59	22.98	58.69	8.41
5888.00	19.99	37.14	5885.04	59.57	63.07	12.26	26.55	64.25	11.00
5920.00	28.29	39.22	5914.22	72.59	73.33	20.37	26.07	76.10	15.53
5952.00	36.40	40.78	5941.23	89.57	86.41	31.38	25.48	91.94	19.96
5984.00	44.29	41.31	5965.60	110.06	102.02	44.98	24.68	111.50	23.79
6012.00	51.76	41.25	5984.31	130.65	117.65	58.71	26.68	131.49	26.52
6044.00	56.70	40.70	6003.01	156.35	137.25	75.72	15.50	156.75	28.89
6076.00	60.77	40.50	6019.62	183.46	158.02	93.52	12.73	183.62	30.62
6108.00	66.62	40.38	6033.79	211.89	179.84	112.12	18.28	211.93	31.94
6139.00	72.40	39.30	6044.64	240.71	202.13	130.71	18.93	240.71	32.89
6171.00	77.38	36.73	6052.98	271.47	226.46	149.72	17.39	271.48	33.47
6203.00	83.12	34.74	6058.40	302.96	252.06	168.13	18.95	302.98	33.70
6235.00	88.92	33.67	6060.62	334.86	278.45	186.07	18.43	334.89	33.75
6266.00	89.76	33.66	6060.97	365.86	304.24	203.25	2.71	365.89	33.74
6298.00	89.80	33.10	6061.10	397.86	330.97	220.85	1.75	397.89	33.72
6330.00	85.52	31.62	6062.40	429.82	357.97	237.96	14.15	429.84	33.61
6361.00	85.69	31.69	6064.78	460.72	384.28	254.18	0.59	460.74	33.48
6393.00	85.66	31.71	6067.19	492.62	411.43	270.95	0.11	492.63	33.37
6425.00	85.89	31.64	6069.55	524.53	438.58	287.71	0.75	524.53	33.26
6457.00	85.83	31.87	6071.86	556.43	465.72	304.51	0.74	556.44	33.18
6489.00	86.03	31.68	6074.13	588.35	492.86	321.31	0.86	588.35	33.10
6520.00	86.64	31.72	6076.11	619.28	519.18	337.57	1.97	619.28	33.03
6552.00	87.28	31.84	6077.81	651.22	546.34	354.40	2.03	651.22	32.97
6584.00	88.18	31.76	6079.08	683.19	573.52	371.25	2.82	683.19	32.92
6616.00	88.92	32.40	6079.89	715.18	600.62	388.24	3.06	715.18	32.88
6645.00	89.53	31.27	6080.28	744.17	625.26	403.53	4.43	744.17	32.84
6676.00	89.83	30.21	6080.45	775.14	651.90	419.38	3.55	775.15	32.75
6708.00	89.66	29.58	6080.59	807.09	679.64	435.33	2.04	807.11	32.64
6740.00	89.40	28.58	6080.86	839.02	707.61	450.88	3.23	839.05	32.50
6773.00	89.39	28.86	6081.20	871.92	736.55	466.74	0.85	871.98	32.36
6805.00	89.60	28.30	6081.49	903.83	764.65	482.04	1.87	903.91	32.23
6837.00	91.18	29.90	6081.27	935.75	792.60	497.61	7.03	935.86	32.12
6869.00	92.19	30.30	6080.33	967.69	820.28	513.65	3.39	967.83	32.05
6900.00	92.42	30.64	6079.08	998.64	846.97	529.35	1.32	998.79	32.01
6932.00	92.52	31.22	6077.70	1030.59	874.40	545.79	1.84	1030.75	31.97
6964.00	92.59	31.34	6076.27	1062.54	901.72	562.38	0.43	1062.72	31.95
6995.00	93.03	31.26	6074.76	1093.49	928.18	578.47	1.44	1093.68	31.93
7027.00	93.47	31.07	6072.94	1125.42	955.51	595.00	1.50	1125.63	31.91
7059.00	93.97	30.52	6070.86	1157.33	982.94	611.35	2.32	1157.55	31.88
7090.00	93.84	30.29	6068.75	1188.23	1009.62	627.01	0.85	1188.47	31.84
7122.00	92.62	30.57	6066.95	1220.14	1037.17	643.19	3.91	1220.41	31.80
7155.00	92.35	31.32	6065.52	1253.09	1065.44	660.14	2.41	1253.38	31.78
7187.00	92.79	31.31	6064.09	1285.05	1092.75	676.75	1.38	1285.34	31.77
7211.00	93.36	30.53	6062.80	1309.00	1113.31	689.07	4.02	1309.30	31.75

Scientific Drilling

Field: Vacuum
Site: Lea County, NM
Well: VGEU #42-01
Wellpath: DH - Job #32D0807683
Survey: 08/13/07-08/27/07





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

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