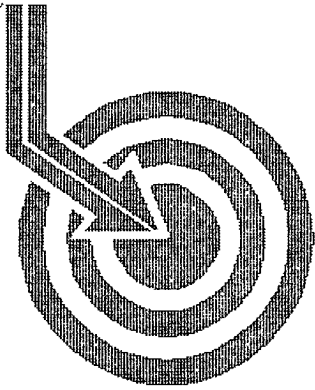




Scientific Drilling

RECEIVED

FEB 27 2009

HOBBSOCD

SUR: A-05-18s-38e, 990/N & 330/E
BHL: A-05-18s-38e, 728/N & 500/E
API # 30-025-03072

CONOCOPHILLIPS

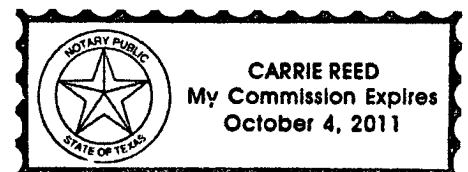
Field: Vacuum Abo
Site: Lea County, NM
Well: Vacuum Abo #13-16
Wellpath: VH - Job #32K0908682
Survey: 09/04/08

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

.....*[Signature]*.....Company Representative

Notorized this date 14th of October, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS	Date: 10/05/2008	Time: 13:06:15	Page: 1
Field: Vacuum Abo	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Vacuum Abo #13-16	Section (VS) Reference:	Well (0.00N,0.00E,326.71Azi)	
Wellpath: VH - Job #32K0908682	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 09/04/08	Start Date: 09/04/2008
Company: Scientific Drilling Internatio	Engineer: Garza w/Schlumberger
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	0.20	234.13	100.00	-0.01	-0.10	-0.14	0.20	0.17	234.13
200.00	0.31	238.60	200.00	-0.01	-0.35	-0.51	0.11	0.62	236.08
300.00	0.78	252.44	299.99	0.19	-0.69	-1.39	0.48	1.56	243.60
400.00	0.67	246.30	399.99	0.47	-1.13	-2.58	0.13	2.82	246.29
500.00	0.64	243.21	499.98	0.63	-1.62	-3.61	0.05	3.96	245.86
600.00	0.52	239.57	599.97	0.71	-2.10	-4.50	0.13	4.97	244.99
700.00	0.31	255.53	699.97	0.82	-2.40	-5.15	0.24	5.69	245.05
800.00	0.48	261.50	799.97	1.09	-2.53	-5.83	0.17	6.36	246.57
900.00	0.39	245.03	899.97	1.31	-2.73	-6.55	0.15	7.10	247.36
1000.00	0.32	265.93	999.96	1.50	-2.90	-7.14	0.15	7.71	247.92
1100.00	0.49	262.91	1099.96	1.82	-2.97	-7.84	0.17	8.39	249.27
1200.00	0.67	254.88	1199.96	2.19	-3.17	-8.83	0.20	9.39	250.23
1300.00	0.54	265.39	1299.95	2.60	-3.36	-9.87	0.17	10.42	251.17
1400.00	0.43	257.31	1399.95	2.96	-3.49	-10.70	0.13	11.26	251.96
1500.00	0.29	253.00	1499.95	3.16	-3.64	-11.31	0.14	11.88	252.15
1600.00	0.30	293.34	1599.94	3.45	-3.61	-11.79	0.20	12.33	252.97
1700.00	0.56	290.88	1699.94	4.07	-3.33	-12.49	0.26	12.93	255.06
1800.00	0.53	287.92	1799.94	4.82	-3.02	-13.39	0.04	13.72	257.30
1900.00	0.52	310.34	1899.93	5.62	-2.58	-14.17	0.20	14.41	259.68
2000.00	0.78	291.59	1999.93	6.61	-2.04	-15.15	0.33	15.29	262.34
2100.00	0.69	307.51	2099.92	7.74	-1.42	-16.26	0.22	16.32	265.01
2200.00	0.71	315.54	2199.91	8.91	-0.61	-17.17	0.10	17.18	267.96
2300.00	0.86	307.17	2299.90	10.23	0.28	-18.21	0.19	18.21	270.90
2400.00	0.75	300.61	2399.89	11.52	1.07	-19.37	0.14	19.40	273.17
2500.00	0.85	310.19	2499.88	12.82	1.88	-20.50	0.17	20.58	275.25
2600.00	0.81	315.57	2599.87	14.23	2.87	-21.56	0.09	21.75	277.57
2700.00	0.67	334.10	2699.86	15.50	3.90	-22.31	0.28	22.65	279.91
2800.00	0.76	346.33	2799.86	16.71	5.07	-22.72	0.18	23.28	282.57
2900.00	0.79	349.79	2899.85	17.97	6.39	-23.00	0.06	23.87	285.53
3000.00	0.79	332.32	2999.84	19.29	7.68	-23.44	0.24	24.67	288.14
3100.00	0.93	331.03	3099.83	20.78	9.00	-24.16	0.14	25.78	290.43
3200.00	1.02	334.02	3199.81	22.47	10.51	-24.94	0.10	27.06	292.85
3300.00	1.25	334.46	3299.79	24.44	12.29	-25.80	0.23	28.58	295.48
3400.00	1.51	338.99	3399.76	26.80	14.51	-26.74	0.28	30.42	298.48
3500.00	2.02	331.91	3499.71	29.85	17.29	-28.04	0.55	32.95	301.66
3600.00	2.24	337.58	3599.65	33.52	20.65	-29.62	0.30	36.11	304.89
3700.00	2.56	338.47	3699.56	37.63	24.54	-31.18	0.32	39.68	308.20
3800.00	2.95	338.67	3799.44	42.33	29.01	-32.94	0.39	43.89	311.37
3900.00	3.09	338.10	3899.30	47.49	33.91	-34.88	0.14	48.65	314.19
4000.00	3.41	338.60	3999.14	53.04	39.18	-36.97	0.32	53.87	316.66
4100.00	3.45	337.00	4098.96	58.91	44.72	-39.23	0.10	59.49	318.74
4200.00	3.34	340.59	4198.79	64.70	50.24	-41.38	0.24	65.08	320.52
4300.00	3.23	341.40	4298.62	70.26	55.65	-43.24	0.12	70.48	322.15
4400.00	2.89	338.53	4398.48	75.45	60.67	-45.06	0.37	75.57	323.40
4500.00	2.86	336.00	4498.36	80.38	65.30	-47.00	0.13	80.45	324.25
4600.00	3.03	330.28	4598.22	85.48	69.87	-49.33	0.34	85.53	324.78
4700.00	3.09	329.29	4698.08	90.81	74.48	-52.01	0.08	90.85	325.07
4800.00	3.18	329.65	4797.93	96.27	79.19	-54.79	0.09	96.30	325.32



Scientific
Drilling

Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS
Field: Vacuum Abo
Site: Lea County, NM
Well: Vacuum Abo #13-16
Wellpath: VH - Job #32K0908682

Date: 10/05/2008 Time: 13:06:15 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,326.71Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

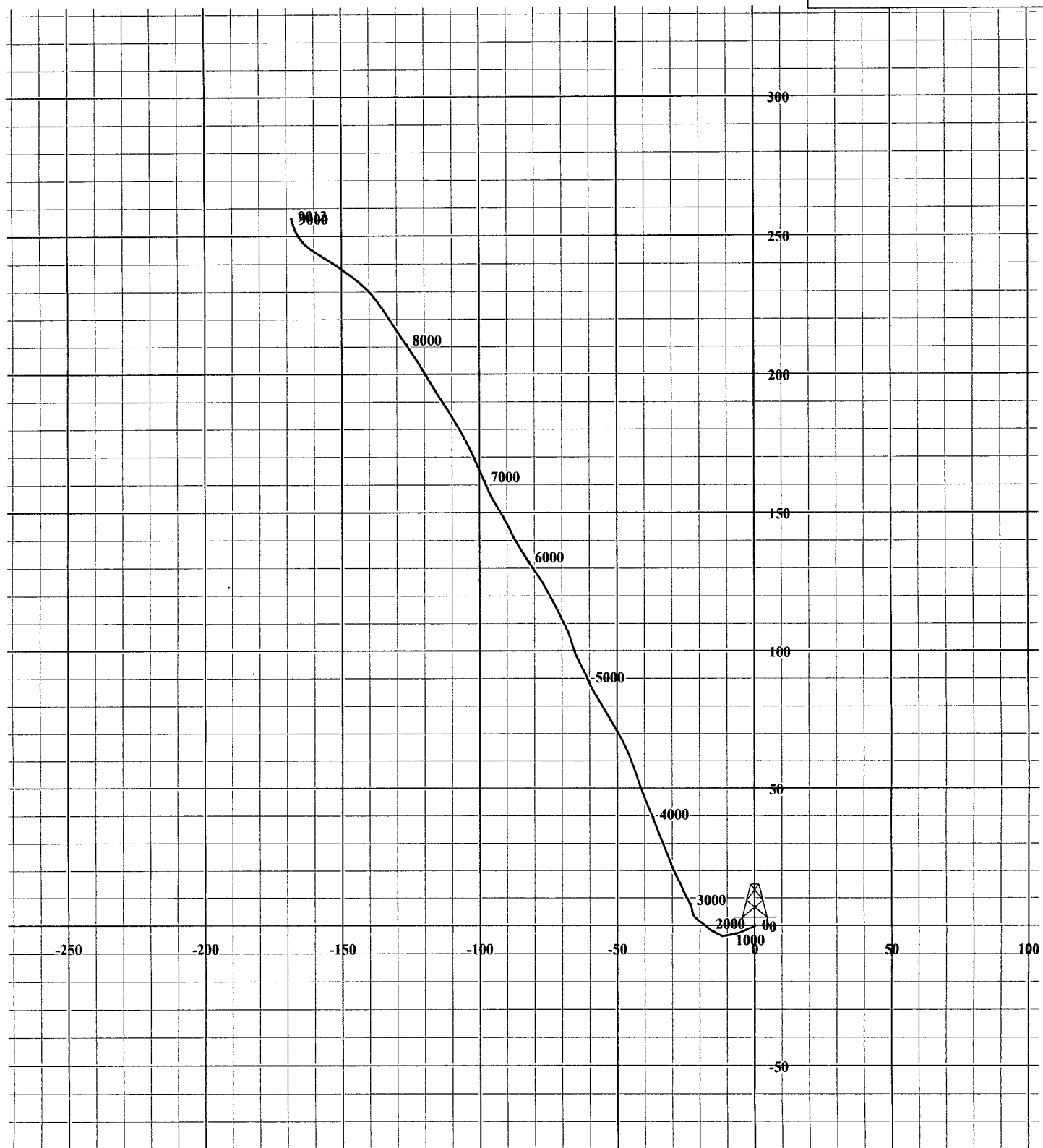
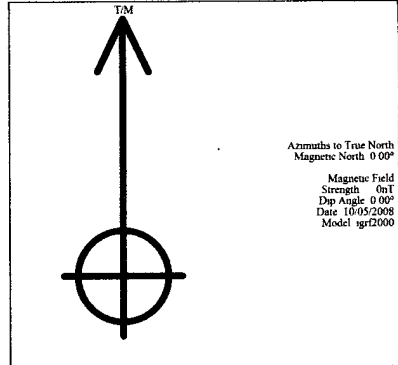
Survey

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	3.27	327.76	4897.77	101.89	84.00	-57.71	0.14	101.91	325.51
5000.00	3.08	337.84	4997.62	107.38	88.90	-60.25	0.59	107.39	325.87
5100.00	3.12	331.03	5097.47	112.73	93.77	-62.58	0.37	112.73	326.28
5200.00	3.11	337.34	5197.33	118.11	98.65	-64.94	0.34	118.11	326.64
5300.00	3.15	344.33	5297.18	123.39	103.80	-66.73	0.38	123.40	327.26
5400.00	3.11	334.10	5397.03	128.70	108.89	-68.66	0.56	128.72	327.77
5500.00	2.90	333.15	5496.89	133.91	113.58	-70.98	0.22	133.94	328.00
5600.00	2.70	332.31	5596.77	138.76	117.93	-73.22	0.20	138.81	328.16
5700.00	2.68	330.41	5696.66	143.44	122.04	-75.47	0.09	143.49	328.27
5800.00	2.42	327.74	5796.56	147.89	125.86	-77.75	0.29	147.94	328.29
5900.00	2.11	323.61	5896.48	151.83	129.13	-79.97	0.35	151.89	328.23
6000.00	1.95	327.21	5996.42	155.37	132.04	-81.98	0.20	155.42	328.16
6100.00	1.94	327.40	6096.36	158.77	134.90	-83.82	0.01	158.82	328.15
6200.00	1.68	328.57	6196.31	161.93	137.58	-85.49	0.26	161.98	328.14
6300.00	1.81	331.44	6296.27	164.96	140.21	-87.01	0.16	165.02	328.18
6400.00	2.03	333.44	6396.21	168.30	143.18	-88.56	0.23	168.36	328.26
6500.00	1.78	331.93	6496.16	171.60	146.14	-90.08	0.25	171.67	328.35
6600.00	1.81	330.34	6596.11	174.73	148.88	-91.60	0.06	174.80	328.40
6700.00	1.81	328.88	6696.06	177.88	151.61	-93.19	0.05	177.96	328.42
6800.00	1.90	328.89	6796.01	181.11	154.38	-94.87	0.09	181.20	328.43
6900.00	2.23	335.21	6895.94	184.70	157.56	-96.54	0.40	184.79	328.50
7000.00	2.45	335.60	6995.86	188.73	161.28	-98.24	0.22	188.84	328.65
7100.00	2.65	336.88	7095.76	193.12	165.35	-100.03	0.21	193.25	328.83
7200.00	2.61	335.79	7195.65	197.64	169.55	-101.87	0.06	197.80	329.00
7300.00	2.74	333.09	7295.54	202.27	173.76	-103.88	0.18	202.45	329.13
7400.00	3.17	330.55	7395.41	207.40	178.30	-106.33	0.45	207.59	329.19
7500.00	3.31	329.89	7495.25	213.04	183.20	-109.13	0.14	213.25	329.22
7600.00	3.50	326.36	7595.07	218.98	188.24	-112.27	0.28	219.18	329.19
7700.00	3.82	328.22	7694.87	225.36	193.62	-115.72	0.34	225.56	329.13
7800.00	3.92	329.06	7794.64	232.10	199.38	-119.23	0.11	232.31	329.12
7900.00	3.69	327.05	7894.42	238.74	205.01	-122.74	0.27	238.94	329.09
8000.00	3.68	325.83	7994.21	245.16	210.37	-126.29	0.08	245.36	329.02
8100.00	3.61	326.39	8094.01	251.52	215.64	-129.83	0.08	251.71	328.95
8200.00	3.78	327.33	8193.80	257.96	221.04	-133.36	0.18	258.15	328.90
8300.00	3.47	324.12	8293.60	264.28	226.27	-136.91	0.37	264.46	328.82
8400.00	3.13	315.45	8393.44	269.98	230.66	-140.60	0.60	270.14	328.64
8500.00	3.30	308.32	8493.28	275.39	234.39	-144.77	0.43	275.50	328.30
8600.00	3.70	304.84	8593.10	281.12	238.02	-149.68	0.45	281.17	327.84
8700.00	3.26	301.60	8692.91	286.69	241.36	-154.75	0.48	286.71	327.33
8800.00	3.52	301.63	8792.74	292.04	244.46	-159.78	0.26	292.04	326.83
8900.00	3.52	318.66	8892.55	297.86	248.37	-164.43	1.04	297.87	326.49
9000.00	4.65	342.42	8992.30	304.81	254.54	-167.68	2.01	304.81	326.63
9021.00	4.75	342.12	9013.23	306.46	256.18	-168.20	0.49	306.46	326.71



Scientific
Drilling

Field: Vacuum Abo
Site: Lea County, NM
Well: Vacuum Abo #13-16
Wellpath: VH - Job #32K0908682
Survey: 09/04/08



West(-)/East(+) [50ft/in]

South(-)/North(+) [50ft/in]