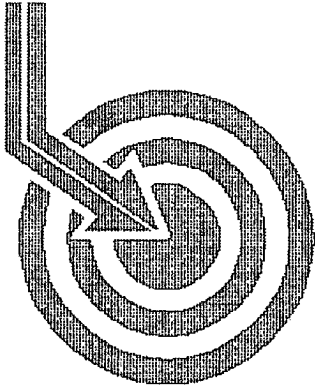




Scientific Drilling

SUR: A-31-17s-35e, 660/N & 660/E
BHL: C-31-17s-35e, 539/N & 2857/E
API # 30-025-08532

CHEVRON

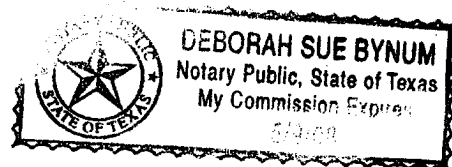
Field: Central Vacuum
Site: Lea County, NM
Well: CVU #47H
Wellpath: DH - Job #32D1105816
Survey: 11/09/05-11/19/05

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

Deborah Sue Bynum.....Company Representative

Notorized this date 19 of September, 2005.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: CHEVRON	Date: 12/19/2005	Time: 00:02:31	Page: 1
Field: Central Vacuum	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: CVU #47H	Section (VS) Reference:	Well (0.00N,0.00E,101.39Azi)	
Wellpath: VH - Job #32K1005725	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 10/03/05	Start Date: 10/3/2005
Company: Scientific Drilling Internatio	Engineer: Guebara 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	359.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.39	332.37	100.00	-0.21	0.30	-0.16	0.39	0.34	332.37
200.00	0.32	315.68	200.00	-0.66	0.80	-0.51	0.12	0.95	327.54
300.00	0.34	314.90	300.00	-1.14	1.21	-0.92	0.02	1.52	322.92
400.00	0.28	316.11	399.99	-1.59	1.60	-1.30	0.06	2.06	320.96
500.00	0.07	49.63	499.99	-1.75	1.81	-1.42	0.29	2.30	321.96
600.00	0.38	71.22	599.99	-1.42	1.96	-1.06	0.32	2.23	331.64
700.00	0.24	119.63	699.99	-0.94	1.96	-0.56	0.28	2.04	344.02
800.00	0.69	145.33	799.99	-0.31	1.36	-0.04	0.49	1.36	358.43
900.00	1.37	142.15	899.97	1.03	-0.08	1.04	0.68	1.04	94.14
1000.00	1.73	150.74	999.93	2.92	-2.34	2.51	0.43	3.43	132.94
1100.00	1.73	152.18	1099.89	4.86	-4.99	3.95	0.04	6.36	141.61
1200.00	1.95	151.66	1199.84	6.90	-7.82	5.46	0.22	9.54	145.06
1300.00	1.19	133.92	1299.80	8.86	-10.04	7.02	0.89	12.25	145.03
1400.00	0.82	142.14	1399.78	10.28	-11.32	8.21	0.40	13.98	144.07
1500.00	0.48	106.70	1499.78	11.24	-12.01	9.05	0.51	15.04	143.01
1600.00	0.25	146.10	1599.78	11.81	-12.31	9.57	0.33	15.59	142.14
1700.00	1.05	114.17	1699.77	12.86	-12.87	10.53	0.85	16.62	140.71
1800.00	0.99	17.06	1799.76	13.84	-12.42	11.62	1.53	17.00	136.90
1900.00	0.16	133.94	1899.75	14.04	-11.69	11.97	1.07	16.73	134.31
2000.00	0.19	131.49	1999.75	14.30	-11.89	12.20	0.03	17.04	134.28
2100.00	0.14	124.25	2099.75	14.56	-12.07	12.42	0.05	17.32	134.18
2200.00	0.16	115.75	2199.75	14.81	-12.20	12.65	0.03	17.57	133.97
2300.00	0.23	128.60	2299.75	15.12	-12.39	12.93	0.08	17.91	133.77
2400.00	0.26	109.47	2399.75	15.53	-12.59	13.30	0.09	18.31	133.42
2500.00	0.41	83.15	2499.75	16.09	-12.62	13.87	0.21	18.75	132.30
2600.00	0.86	83.02	2599.74	17.14	-12.49	14.97	0.45	19.49	129.83
2700.00	1.48	88.83	2699.72	19.11	-12.37	17.01	0.63	21.03	126.03
2800.00	0.99	92.93	2799.70	21.23	-12.39	19.16	0.50	22.82	122.88
2900.00	1.10	81.19	2899.68	22.99	-12.28	20.97	0.24	24.31	120.36
3000.00	1.12	74.55	2999.66	24.76	-11.88	22.86	0.13	25.76	117.45
3100.00	0.85	76.38	3099.65	26.30	-11.44	24.53	0.27	27.06	115.01
3200.00	0.97	65.02	3199.64	27.66	-10.91	26.01	0.22	28.21	112.75
3300.00	0.95	72.15	3299.62	29.06	-10.30	27.57	0.12	29.43	110.48
3400.00	0.68	65.22	3399.61	30.26	-9.80	28.90	0.29	30.51	108.73
3500.00	0.61	59.43	3499.61	31.14	-9.28	29.89	0.10	31.30	107.24
3600.00	0.38	66.74	3599.60	31.81	-8.87	30.66	0.24	31.92	106.14
3700.00	0.56	45.41	3699.60	32.35	-8.40	31.31	0.25	32.42	105.02
3800.00	0.39	70.28	3799.60	32.92	-7.94	31.98	0.26	32.95	103.95
3900.00	0.48	42.18	3899.59	33.42	-7.52	32.58	0.23	33.44	102.99
4000.00	0.42	57.96	3999.59	33.90	-7.01	33.17	0.14	33.91	101.94
4100.00	0.22	113.67	4099.59	34.36	-6.90	33.66	0.35	34.36	101.58
4200.00	0.18	24.07	4199.59	34.58	-6.83	33.90	0.28	34.58	101.39



Scientific Drilling International Survey Report

Company: CHEVRON	Date: 12/18/2005	Time: 23:58:44	Page: 1
Field: Central Vacuum	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: CVU #47H	Section (VS) Reference:	Well (0.00N,0.00E,273.15Azi)	
Wellpath: DH - Job #32D1105816	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 11/09/05-11/19/05	Start Date: 11/9/2005
MWD 4037'-6736'	
Company: Scientific Drilling Internatio	Engineer: Lamb/Melendez/Hernandez
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
4000.00	0.42	57.96	3999.59	-33.51	-7.01	33.17	0.00	33.91	101.94
4037.00	0.32	70.18	4036.59	-33.71	-6.91	33.38	0.34	34.09	101.69
4079.00	6.33	275.24	4078.51	-31.51	-6.65	31.19	15.76	31.89	102.04
4110.00	6.16	276.90	4109.32	-28.14	-6.30	27.83	0.80	28.54	102.75
4141.00	5.91	274.94	4140.15	-24.88	-5.96	24.59	1.04	25.30	103.62
4173.00	5.79	273.41	4171.98	-21.62	-5.72	21.34	0.61	22.09	105.01
4205.00	6.40	270.71	4203.80	-18.23	-5.60	17.95	2.11	18.80	107.35
4233.00	6.45	274.31	4231.63	-15.09	-5.47	14.82	1.45	15.79	110.25
4265.00	7.63	274.64	4263.39	-11.17	-5.16	10.91	3.69	12.07	115.32
4296.00	7.75	273.55	4294.11	-7.03	-4.86	6.77	0.61	8.34	125.70
4327.00	7.71	274.14	4324.83	-2.86	-4.58	2.61	0.29	5.28	150.36
4358.00	7.66	274.84	4355.55	1.29	-4.26	-1.52	0.34	4.52	199.68
4389.00	7.50	275.39	4386.28	5.37	-3.90	-5.60	0.57	6.82	235.16
4421.00	7.43	276.21	4418.00	9.53	-3.48	-9.73	0.40	10.33	250.34
4452.00	7.42	274.25	4448.75	13.53	-3.11	-13.72	0.82	14.07	257.23
4483.00	13.97	269.11	4479.19	19.27	-3.02	-19.47	21.33	19.70	261.18
4515.00	24.07	271.98	4509.41	29.67	-2.85	-29.88	31.69	30.01	264.54
4545.00	34.07	271.80	4535.59	44.23	-2.38	-44.43	33.33	44.49	266.94
4576.00	43.46	273.29	4559.74	63.61	-1.49	-63.79	30.44	63.81	268.66
4608.00	51.84	274.28	4581.28	87.24	0.08	-87.37	26.29	87.37	270.05
4639.00	60.32	274.77	4598.56	112.93	2.11	-112.99	27.39	113.01	271.07
4670.00	68.52	274.85	4611.93	140.86	4.46	-140.83	26.45	140.90	271.81
4702.00	77.24	274.85	4621.34	171.40	7.04	-171.27	27.25	171.42	272.35
4733.00	82.21	276.18	4626.87	201.87	9.97	-201.62	16.58	201.87	272.83
4764.00	82.18	276.35	4631.08	232.53	13.33	-232.15	0.55	232.53	273.29
4796.00	86.64	274.69	4634.20	264.34	16.39	-263.84	14.86	264.35	273.55
4827.00	86.81	275.37	4635.97	295.28	19.10	-294.67	2.26	295.29	273.71
4858.00	86.10	275.22	4637.89	326.20	21.96	-325.48	2.34	326.22	273.86
4889.00	86.13	271.73	4639.99	357.12	23.83	-356.35	11.23	357.14	273.83
4921.00	86.57	270.64	4642.02	389.04	24.49	-388.28	3.67	389.05	273.61
4952.00	87.24	269.70	4643.70	419.95	24.58	-419.23	3.72	419.95	273.36
4983.00	87.78	269.33	4645.04	450.86	24.32	-450.20	2.11	450.86	273.09
5015.00	86.77	272.35	4646.57	482.79	24.79	-482.16	9.94	482.79	272.94
5046.00	86.71	271.58	4648.33	513.73	25.85	-513.09	2.49	513.74	272.88
5077.00	87.51	272.44	4649.89	544.69	26.94	-544.03	3.79	544.69	272.83
5108.00	86.30	275.08	4651.57	575.64	28.96	-574.91	9.36	575.64	272.88
5140.00	87.04	274.69	4653.42	607.57	31.69	-606.74	2.61	607.57	272.99
5171.00	87.95	274.75	4654.78	638.53	34.23	-637.61	2.94	638.53	273.07
5202.00	87.71	273.14	4655.95	669.50	36.36	-668.51	5.25	669.50	273.11
5234.00	88.12	272.54	4657.12	701.48	37.95	-700.45	2.27	701.48	273.10
5265.00	89.39	272.33	4657.79	732.47	39.27	-731.41	4.15	732.47	273.07
5297.00	89.09	273.27	4658.22	764.46	40.83	-763.37	3.08	764.46	273.06
5327.00	85.86	272.59	4659.54	794.43	42.36	-793.30	11.00	794.43	273.06
5358.00	86.26	272.26	4661.67	825.35	43.67	-824.20	1.67	825.36	273.03
5389.00	87.43	272.40	4663.37	856.30	44.93	-855.13	3.80	856.31	273.01
5420.00	86.70	273.92	4664.96	887.26	46.63	-886.04	5.43	887.26	273.01
5451.00	86.03	274.42	4666.93	918.19	48.88	-916.89	2.69	918.20	273.05
5482.00	84.88	273.70	4669.38	949.09	51.07	-947.72	4.37	949.09	273.08
5513.00	84.45	273.69	4672.26	979.96	53.06	-978.52	1.39	979.96	273.10



Scientific Drilling International

Survey Report

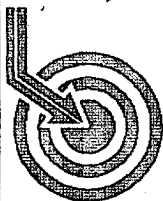
Company: CHEVRON
 Field: Central Vacuum
 Site: Lea County, NM
 Well: CVU #47H
 Wellpath: DH - Job #32D1105816

Date: 12/18/2005 Time: 23:58:44 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,273.15Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

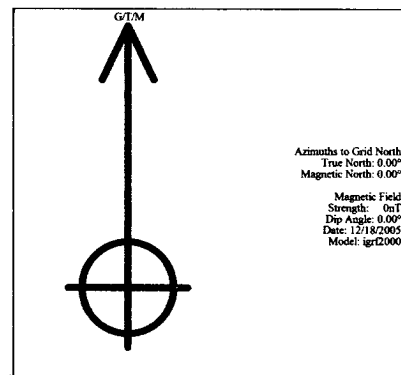
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5545.00	85.01	273.81	4675.20	1011.82	55.15	-1010.32	1.79	1011.82	273.12
5576.00	85.86	273.94	4677.67	1042.72	57.23	-1041.15	2.77	1042.72	273.15
5608.00	85.29	273.40	4680.14	1074.62	59.28	-1072.98	2.45	1074.62	273.16
5639.00	85.43	273.36	4682.65	1105.52	61.10	-1103.83	0.47	1105.52	273.17
5670.00	86.94	273.55	4684.71	1136.45	62.96	-1134.70	4.91	1136.45	273.18
5702.00	86.81	273.58	4686.46	1168.40	64.95	-1166.59	0.42	1168.40	273.19
5733.00	87.00	273.74	4688.13	1199.35	66.92	-1197.49	0.80	1199.35	273.20
5764.00	87.01	273.34	4689.75	1230.31	68.84	-1228.38	1.29	1230.31	273.21
5796.00	87.31	273.36	4691.33	1262.27	70.70	-1260.29	0.94	1262.27	273.21
5827.00	87.37	273.37	4692.77	1293.24	72.52	-1291.20	0.20	1293.24	273.21
5859.00	87.14	273.36	4694.31	1325.20	74.40	-1323.11	0.72	1325.20	273.22
5889.00	86.97	273.97	4695.85	1355.16	76.31	-1353.01	2.11	1355.16	273.23
5921.00	86.84	273.77	4697.57	1387.11	78.47	-1384.89	0.74	1387.11	273.24
5952.00	86.23	273.49	4699.45	1418.05	80.43	-1415.77	2.16	1418.05	273.25
5984.00	82.65	272.38	4702.55	1449.90	82.06	-1447.57	11.71	1449.90	273.24
6015.00	82.58	271.19	4706.53	1480.63	83.02	-1478.30	3.81	1480.63	273.21
6047.00	85.08	271.01	4709.97	1512.42	83.63	-1510.11	7.83	1512.42	273.17
6078.00	85.38	271.07	4712.55	1543.29	84.19	-1541.00	0.99	1543.29	273.13
6110.00	85.59	270.77	4715.07	1575.17	84.70	-1572.89	1.14	1575.17	273.08
6141.00	85.52	269.88	4717.47	1606.04	84.88	-1603.80	2.87	1606.04	273.03
6172.00	85.59	273.52	4719.87	1636.93	85.79	-1634.69	11.71	1636.94	273.00
6203.00	85.22	273.19	4722.36	1667.83	87.60	-1665.53	1.60	1667.84	273.01
6235.00	86.77	273.95	4724.59	1699.75	89.59	-1697.39	5.39	1699.75	273.02
6266.00	86.13	273.85	4726.51	1730.69	91.69	-1728.26	2.09	1730.69	273.04
6297.00	85.90	273.71	4728.67	1761.61	93.73	-1759.12	0.87	1761.61	273.05
6329.00	89.43	273.63	4729.97	1793.58	95.78	-1791.02	11.03	1793.58	273.06
6360.00	89.29	273.45	4730.32	1824.58	97.69	-1821.96	0.74	1824.58	273.07
6391.00	87.95	273.46	4731.06	1855.57	99.56	-1852.89	4.32	1855.57	273.08
6423.00	88.29	273.93	4732.11	1887.55	101.62	-1884.81	1.81	1887.55	273.09
6454.00	88.32	273.38	4733.03	1918.53	103.60	-1915.73	1.78	1918.53	273.10
6486.00	86.90	272.59	4734.36	1950.50	105.26	-1947.66	5.08	1950.50	273.09
6517.00	85.90	273.09	4736.31	1981.44	106.79	-1978.56	3.61	1981.44	273.09
6548.00	85.93	273.55	4738.52	2012.36	108.59	-2009.43	1.48	2012.36	273.09
6579.00	85.52	272.33	4740.83	2043.27	110.17	-2040.30	4.14	2043.28	273.09
6611.00	85.76	272.26	4743.26	2075.18	111.45	-2072.18	0.78	2075.18	273.08
6642.00	86.74	274.27	4745.29	2106.11	113.21	-2103.07	7.20	2106.11	273.08
6673.00	87.78	274.11	4746.77	2137.07	115.47	-2133.95	3.39	2137.07	273.10
6696.00	88.52	274.74	4747.52	2160.05	117.25	-2156.87	4.22	2160.05	273.11
6736.00	88.52	274.74	4748.55	2200.02	120.55	-2196.72	0.00	2200.02	273.14

539' N 2423' W

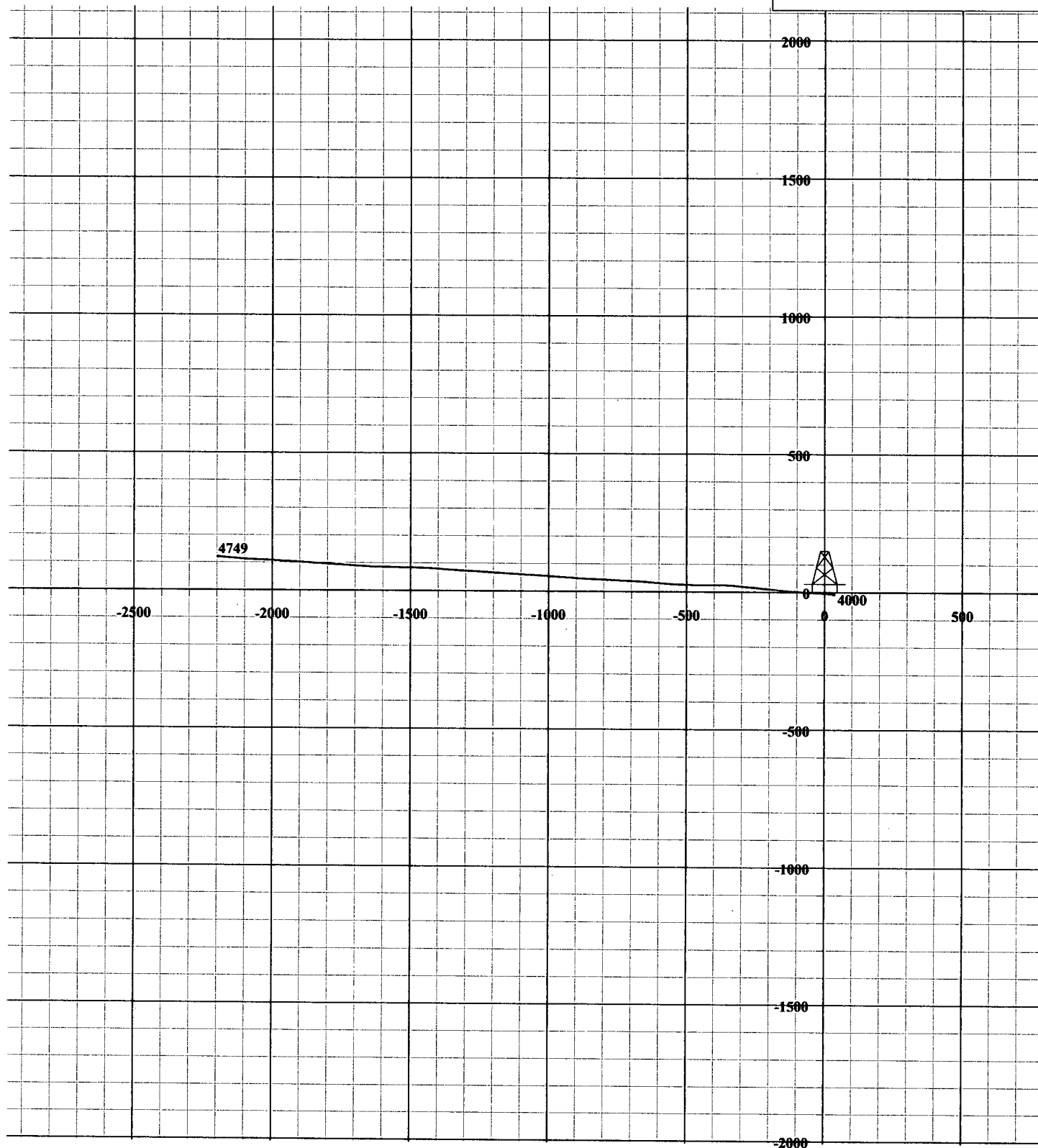


Scientific
Drilling

Field: Central Vacuum
Site: Lea County, NM
Well: CVU #47H
Wellpath: DH - Job #32D1105816
Survey: 11/09/05-11/19/05



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



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