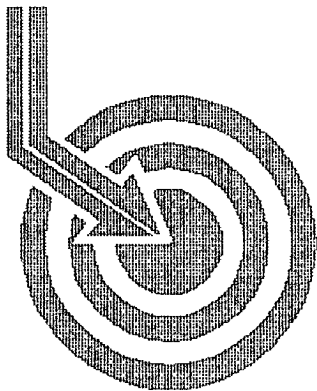




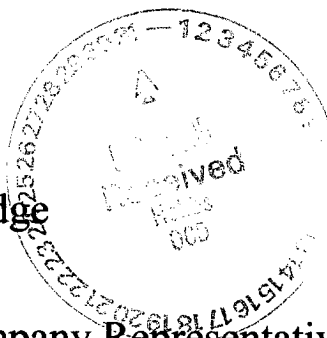
Scientific Drilling

SUR: H-16-21s-37e 2310/N & 330/E
BHL: A-16-21s-37e, 450/N & 344/E
API #30-025-06624

CHEVRONTXACO

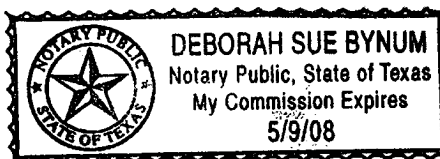
Field: Harry Leonard
Site: Lea County, NM
Well: Harry Leonard #5H
Wellpath: DH - Job #32D0705500
Survey: 07/11/05-07/16/05

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


.....*Harry Leonard*..... Company Representative

Notorized this date 29th of August, 2005.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CHEVRONTEXACO	Date: 8/23/2005	Time: 19:34:29	Page: 1
Field: Harry Leonard	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Harry Leonard #5H	Section (VS) Reference:	Well (0.00N,0.00E,359.58Azi)	
Wellpath: VH - Job #32K0705504	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 07/11/05 KSRG 0'-3680'	Start Date: 7/11/2005
Company: Scientific Drilling Internatio	Engineer: Gonzales w/P&M
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	359.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.37	323.48	100.00	0.26	0.26	-0.19	0.37	0.32	323.48
200.00	0.78	308.26	199.99	0.95	0.94	-0.92	0.43	1.31	315.67
300.00	0.65	302.40	299.99	1.68	1.67	-1.93	0.15	2.55	310.77
400.00	0.60	322.73	399.98	2.41	2.39	-2.73	0.23	3.62	311.18
500.00	0.76	315.98	499.97	3.31	3.28	-3.51	0.18	4.80	313.09
600.00	0.72	275.53	599.97	3.85	3.82	-4.59	0.51	5.97	309.74
700.00	0.70	286.35	699.96	4.09	4.05	-5.80	0.14	7.08	304.91
800.00	0.62	273.78	799.95	4.31	4.26	-6.93	0.16	8.13	301.57
900.00	0.54	243.96	899.95	4.14	4.09	-7.89	0.31	8.89	297.37
1000.00	0.66	233.10	999.94	3.60	3.53	-8.78	0.16	9.46	291.93
1100.00	0.57	237.20	1099.94	2.99	2.92	-9.66	0.10	10.09	286.82
1200.00	0.75	241.03	1199.93	2.41	2.33	-10.65	0.19	10.90	282.36
1300.00	0.50	207.36	1299.92	1.71	1.63	-11.42	0.43	11.53	278.11
1400.00	0.42	212.66	1399.92	1.02	0.93	-11.82	0.09	11.85	274.51
1500.00	0.39	317.50	1499.92	0.96	0.87	-12.25	0.64	12.28	274.08
1600.00	0.73	135.85	1599.92	0.76	0.67	-12.03	1.12	12.05	273.18
1700.00	0.37	71.06	1699.91	0.40	0.32	-11.28	0.66	11.29	271.60
1800.00	0.64	204.95	1799.91	0.00	-0.09	-11.21	0.94	11.21	269.56
1900.00	0.72	118.11	1899.91	-0.81	-0.89	-10.89	0.94	10.93	265.34
2000.00	0.34	85.26	1999.90	-1.09	-1.16	-10.04	0.47	10.11	263.41
2100.00	1.01	107.49	2099.89	-1.34	-1.40	-8.91	0.71	9.02	261.07
2200.00	0.95	78.69	2199.88	-1.45	-1.50	-7.25	0.49	7.41	258.30
2300.00	1.12	52.65	2299.86	-0.71	-0.75	-5.66	0.49	5.71	262.48
2400.00	1.57	62.74	2399.84	0.50	0.47	-3.67	0.51	3.70	277.34
2500.00	1.29	53.18	2499.81	1.79	1.78	-1.55	0.37	2.36	318.85
2600.00	1.02	49.52	2599.78	3.03	3.03	0.03	0.28	3.03	0.51
2700.00	0.78	58.26	2699.77	3.95	3.96	1.28	0.28	4.17	17.93
2800.00	0.74	73.30	2799.76	4.49	4.51	2.48	0.20	5.14	28.82
2900.00	0.70	74.16	2899.76	4.83	4.86	3.69	0.04	6.10	37.18
3000.00	0.78	63.95	2999.75	5.29	5.33	4.89	0.15	7.23	42.54
3100.00	0.68	61.89	3099.74	5.86	5.90	6.02	0.10	8.43	45.56
3200.00	0.45	64.60	3199.73	6.30	6.35	6.90	0.23	9.38	47.36
3300.00	0.44	52.33	3299.73	6.70	6.75	7.56	0.10	10.14	48.21
3400.00	0.23	11.40	3399.73	7.13	7.19	7.90	0.31	10.68	47.71
3500.00	0.27	27.99	3499.73	7.53	7.59	8.05	0.08	11.07	46.69
3600.00	0.52	334.71	3599.73	8.15	8.21	7.97	0.42	11.44	44.15
3680.00	0.57	333.81	3679.72	8.84	8.89	7.64	0.06	11.72	40.65



Scientific Drilling International Survey Report

Company: CHEVRONTEXACO	Date: 8/23/2005	Time: 19:43:27	Page: 1
Field: Harry Leonard	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Harry Leonard #5H	Section (VS) Reference:	Well (0.00N,0.00E,359.58Azi)	
Wellpath: DH - Job #32D0705500	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 07/11/05-07/16/05	Start Date: 7/11/2005
MWD 3713'-5653'	
Company: Scientific Drilling Internatio	Engineer: Lamb/Melendez/Hernandez
Tool: MWD;MWD	Tied-to: User Defined

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
3713.00	0.38	349.24	3712.72	10.33	10.37	5.59	0.00	11.78	28.33
3789.00	29.02	8.63	3785.47	29.18	29.24	8.37	37.71	30.41	15.97
3820.00	41.15	10.08	3810.79	46.70	46.78	11.29	39.22	48.12	13.57
3852.00	52.70	7.79	3832.61	69.73	69.84	14.87	36.47	71.40	12.02
3879.00	63.12	4.15	3846.94	92.43	92.55	17.21	40.24	94.14	10.53
3911.00	71.45	3.63	3859.28	121.83	121.98	19.20	26.07	123.48	8.95
3943.00	77.21	3.34	3867.92	152.56	152.72	21.07	18.02	154.17	7.86
3974.00	80.71	3.48	3873.86	182.91	183.09	22.88	11.30	184.51	7.12
4005.00	85.82	1.71	3877.49	213.65	213.83	24.27	17.43	215.20	6.48
4037.00	89.97	0.01	3878.67	245.61	245.80	24.75	14.01	247.04	5.75
4068.00	88.86	358.10	3878.99	276.60	276.79	24.24	7.13	277.85	5.01
4100.00	89.53	0.01	3879.44	308.60	308.78	23.71	6.32	309.69	4.39
4131.00	89.50	359.80	3879.70	339.60	339.78	23.66	0.68	340.60	3.98
4162.00	89.66	356.45	3879.93	370.58	370.76	22.65	10.82	371.45	3.50
4194.00	89.50	356.57	3880.16	402.53	402.70	20.70	0.62	403.23	2.94
4225.00	89.80	357.25	3880.35	433.50	433.65	19.03	2.40	434.07	2.51
4257.00	89.83	357.14	3880.45	465.47	465.61	17.46	0.36	465.94	2.15
4288.00	89.40	357.22	3880.66	496.44	496.57	15.94	1.41	496.83	1.84
4319.00	89.09	357.51	3881.07	527.42	527.54	14.51	1.37	527.74	1.58
4351.00	88.52	357.05	3881.74	559.38	559.49	13.00	2.29	559.65	1.33
4383.00	88.35	357.53	3882.61	591.35	591.45	11.48	1.59	591.56	1.11
4414.00	89.13	357.49	3883.29	622.32	622.41	10.14	2.52	622.49	0.93
4445.00	90.87	0.66	3883.29	653.31	653.40	9.64	11.66	653.47	0.84
4476.00	91.41	0.77	3882.68	684.30	684.39	10.02	1.78	684.47	0.84
4508.00	89.56	357.31	3882.40	716.29	716.38	9.49	12.26	716.44	0.76
4539.00	88.99	356.71	3882.80	747.26	747.34	7.87	2.67	747.38	0.60
4571.00	88.66	355.54	3883.45	779.19	779.25	5.71	3.80	779.28	0.42
4603.00	88.86	355.09	3884.15	811.10	811.14	3.10	1.54	811.15	0.22
4634.00	89.90	357.28	3884.48	842.04	842.07	1.03	7.82	842.07	0.07
4665.00	89.73	356.92	3884.58	873.01	873.03	-0.54	1.28	873.03	359.96
4697.00	89.40	356.78	3884.82	904.97	904.98	-2.29	1.12	904.98	359.85
4728.00	89.93	356.26	3885.01	935.93	935.92	-4.18	2.40	935.93	359.74
4759.00	90.30	359.48	3884.94	966.91	966.89	-5.33	10.46	966.91	359.68
4790.00	91.68	0.37	3884.41	997.90	997.89	-5.37	5.30	997.90	359.69
4822.00	93.27	0.20	3883.03	1029.87	1029.86	-5.21	5.00	1029.87	359.71
4853.00	92.29	359.27	3881.52	1060.83	1060.82	-5.35	4.36	1060.83	359.71
4885.00	90.61	358.88	3880.71	1092.82	1092.80	-5.87	5.39	1092.82	359.69
4915.00	90.44	358.58	3880.44	1122.81	1122.80	-6.53	1.15	1122.82	359.67
4947.00	87.75	357.39	3880.94	1154.79	1154.77	-7.66	9.19	1154.79	359.62
4978.00	88.65	357.99	3881.92	1185.76	1185.73	-8.91	3.49	1185.76	359.57
5009.00	89.90	358.15	3882.31	1216.75	1216.71	-9.95	4.07	1216.75	359.53
5041.00	88.25	359.66	3882.83	1248.74	1248.70	-10.56	6.99	1248.74	359.52
5072.00	88.86	359.95	3883.61	1279.73	1279.68	-10.67	2.18	1279.73	359.52
5103.00	90.27	1.40	3883.84	1310.72	1310.68	-10.30	6.52	1310.72	359.55
5135.00	89.56	0.08	3883.89	1342.71	1342.68	-9.89	4.68	1342.71	359.58
5166.00	89.26	360.00	3884.21	1373.71	1373.67	-9.87	1.00	1373.71	359.59
5197.00	89.97	359.85	3884.42	1404.71	1404.67	-9.91	2.34	1404.71	359.60
5229.00	90.54	1.05	3884.28	1436.70	1436.67	-9.66	4.15	1436.70	359.61
5260.00	89.63	0.42	3884.23	1467.70	1467.67	-9.26	3.57	1467.70	359.64



Scientific Drilling International

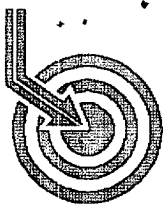
Survey Report

Company: CHEVRONTEXACO
Field: Harry Leonard
Site: Lea County, NM
Well: Harry Leonard #5H
Wellpath: DH - Job #32D0705500

Date: 8/23/2005 Time: 19:43:27 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: System: Mean Sea Level
Section (VS) Reference: Well (0.00N,0.00E,359.58Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

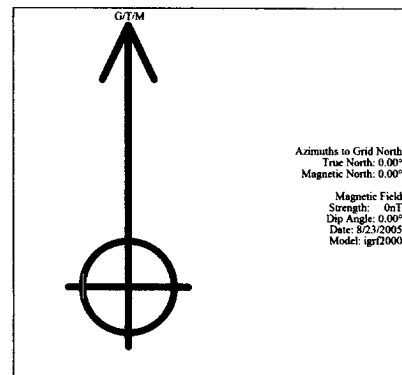
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
5292.00	88.86	359.41	3884.65	1499.69	1499.67	-9.31	3.97	1499.69	359.64
5323.00	86.47	358.26	3885.91	1530.66	1530.63	-9.94	8.55	1530.66	359.63
5355.00	86.44	358.57	3887.89	1562.59	1562.56	-10.82	0.97	1562.59	359.60
5386.00	89.70	359.31	3888.94	1593.57	1593.53	-11.39	10.78	1593.57	359.59
5418.00	89.80	357.57	3889.08	1625.56	1625.52	-12.26	5.45	1625.56	359.57
5450.00	90.13	355.64	3889.10	1657.52	1657.46	-14.16	6.12	1657.52	359.51
5481.00	89.83	356.01	3889.11	1688.45	1688.38	-16.42	1.54	1688.46	359.44
5513.00	90.00	358.57	3889.15	1720.42	1720.34	-17.93	8.02	1720.43	359.40
5544.00	91.65	358.32	3888.71	1751.41	1751.32	-18.77	5.38	1751.42	359.39
5576.00	89.83	2.81	3888.29	1783.40	1783.31	-18.45	15.14	1783.40	359.41
5607.00	88.02	3.01	3888.88	1814.34	1814.26	-16.88	5.87	1814.34	359.47
5653.00	88.02	3.01	3890.46	1860.23	1860.17	-14.47	0.00	1860.23	359.55

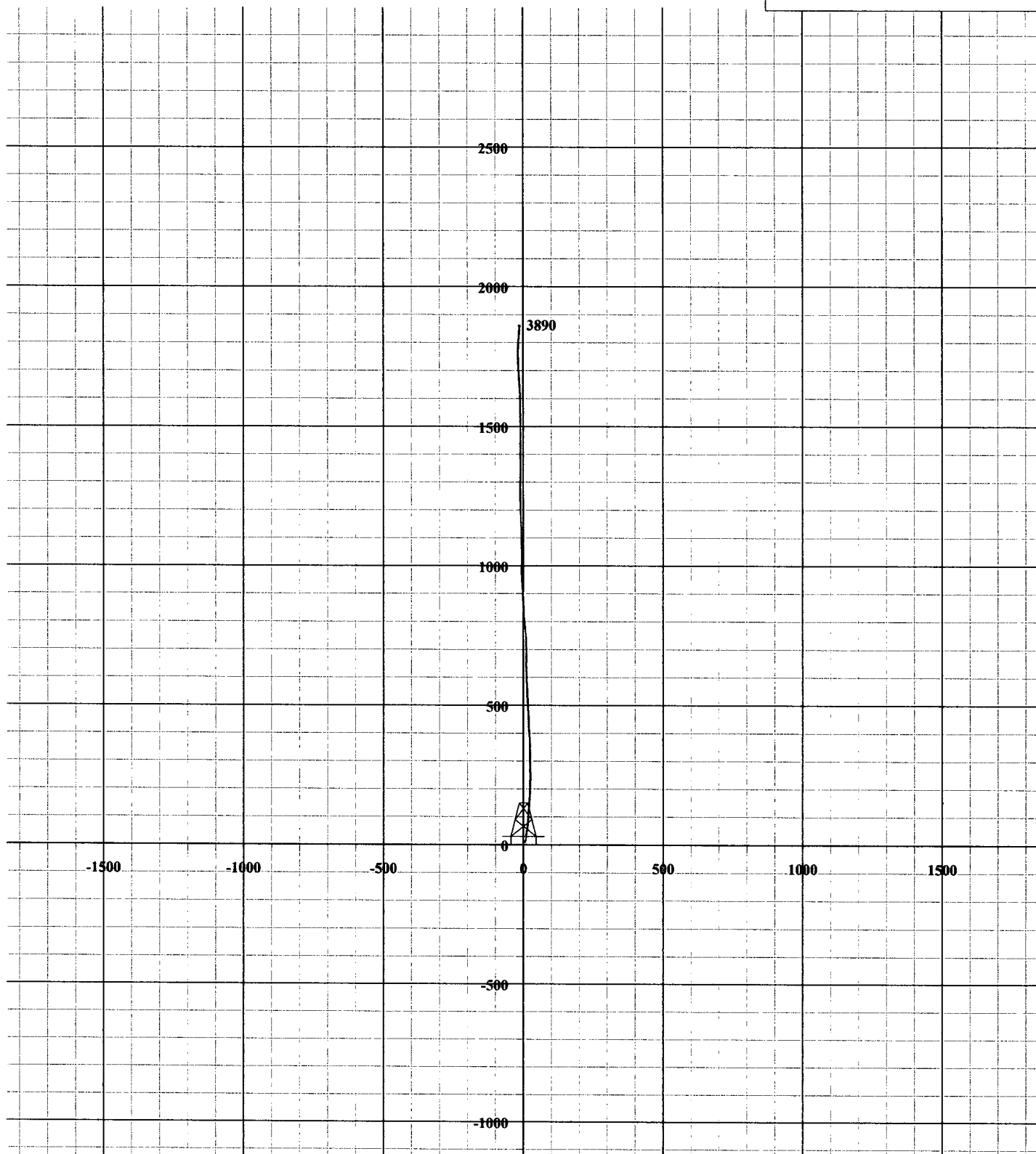


**Scientific
Drilling**

Field: Harry Leonard
Site: Lea County, NM
Well: Harry Leonard #5H
Wellpath: DH - Job #32D0705500
Survey: 07/11/05-07/16/05



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



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