

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCD-ARTESIA

JUN 28 2007

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		5 Lease Serial No LC-028480A
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr, Other _____		6 If Indian, Allottee or Tribe Name ---
2 Name of Operator COG Operating LLC		7 Unit or CA Agreement Name and No ---
3 Address 550 W. Texas, Suite 1300, Midland, TX 79701		8 Lease Name and Well No Western Federal #8
3a Phone No (include area code) 432-685-4340		9 AFI Well No 30-015-34815
4 Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 2040' FNL & 330' FEL, Unit H At top prod interval reported below At total depth 1673' FNL & 350' FEL, Unit H		10 Field and Pool, or Exploratory Empire Yeso 96210
14 Date Spudded 01/09/2007		11 Sec, T, R, M, on Block and Survey or Area Sec 30, T17S, R29E
15 Date TD Reached 01/20/2007		12 County or Parish Eddy
16 Date Completed 12/22/2006 ☐ D & A ☒ Ready to Prod		13 State NM
17 Elevations (DF, RKB, RT GL)* 3621' GL		
18 Total Depth MD 5775' TVD	19 Plug Back TD MD 4900' TVD	20 Depth Bridge Plug Set MD 5310' & 4900' TVD
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) CN / HNGS, Micro CFL / HNGS		22 Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey? ☒ No ☐ Yes (Submit copy)

23 Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8	48		379		448 sx Cl C		Surface	
12-1/4	8-5/8	24		910		650 sx Cl C		Surface	
7-7/8	5-1/2	17		5768		1355 sx Cl C		Surface	

24 Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8	4109							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status
A) Yeso			3933' - 4093'	1 SPF	28	Plugged Open
B) Yeso			4951' - 5228'	2 SPF	60	Plugged
C) Yeso			5368' - 5736'	2 SPF	34	Plugged
D) Yeso			5331' - 5572'	2 SPF	60	Open Plugged

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
3933' - 4093'	Acidize w/ 2500 gals acid. Frac w/ 93,500 gals gel, 8000# LiteProp, & 90,140# 16/30 sand.
4951' - 5228'	Acidize w/ 2500 gals acid.
5368' - 5736'	Acidize w/ 2000 gals acid
5331' - 5572'	Acidize w/ 2500 gals acid.

28 Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
04/01/2007	04/07/2007	24	→	50	82	176	38.8		Pumping
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						Producing

28a Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

JUN 23 2007

WESLEY W. INGRAM
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg SI	Csg. Press.	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg SI	Csg. Press.	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (*Sold, used for fuel, vented, etc*)**SOLD**

30 Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
Yates	778				
7 Rivers	1041				
Queen	1643				
Grayburg	2041				
San Andres	2352				
Glorieta	3825				
Yeso	3921				

32 Additional remarks (include plugging procedure):

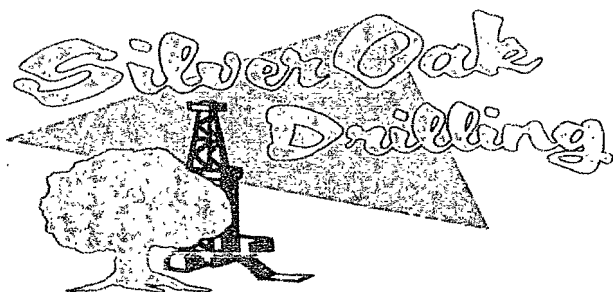
33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
☒ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Phyllis A. EdwardsTitle Regulatory AnalystSignature Phyllis A. EdwardsDate 04/16/2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212. make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

January 26, 2007

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Western Federal #8
2040' FNL & 330' FEL
Sec. 30, T17S, R29E
Eddy County, New Mexico

Dear Sir,

The following is the Deviation Survey for the above captioned well.

<u>DEPTH</u>	<u>DEVIATION</u>	<u>DEPTH</u>	<u>DEVIATION</u>
133'	1/2°	612'	1 3/4°
342'	3/4°	793'	1 1/4°

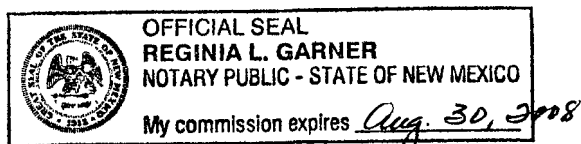
Remainder of well drilled directionally, deviations provided separately.

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

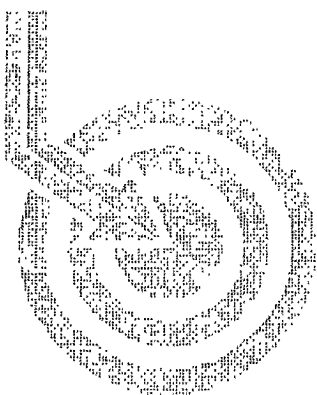
The foregoing was acknowledged before me this 26th day of January, 2007.

Notary Public

RECEIVED
2007 APR 18 PM 2:11
BUREAU OF LAND MGMT.
CAPITOL CITY OFFICE

RECEIVED

FEB 28 2007



Scientific Drilling

MACK ENERGY

Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: DH - Job #32D0107038
Survey: 01/12/07-01/20/07

RECEIVED

JAN APR 18 PM 2:13

BUREAU OF LAND MGMT
CAPESAN FIELD OFFICE

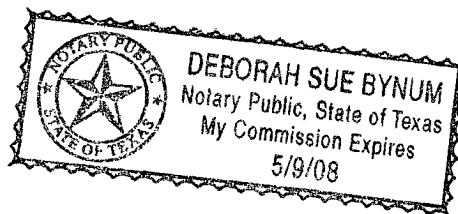
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....R. W. Hester..... Company Representative

Notorized this date 21st of February, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: VH - Job #32K0107046

Date: 02/19/2007 Time: 19:22:38 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,356.08Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/13/07 Start Date: 01/13/2007
KSRG 0'-883'
Company: Scientific Drilling Internatio Engineer: Rehders/Rando
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	359.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.02	274.11	100.00	0.00	0.00	-0.02	0.02	0.02	274.11
150.00	0.13	135.03	150.00	-0.04	-0.04	0.01	0.29	0.04	159.93
200.00	0.34	133.30	200.00	-0.19	-0.18	0.16	0.42	0.24	138.03
250.00	0.24	123.38	250.00	-0.36	-0.34	0.36	0.22	0.49	133.52
300.00	0.35	135.83	300.00	-0.54	-0.51	0.55	0.25	0.75	132.58
350.00	0.48	121.60	350.00	-0.78	-0.73	0.84	0.33	1.11	130.97
400.00	0.52	131.12	399.99	-1.06	-0.98	1.19	0.18	1.54	129.72
450.00	0.82	132.37	449.99	-1.48	-1.38	1.62	0.60	2.13	130.32
500.00	0.99	127.53	499.99	-2.03	-1.88	2.23	0.37	2.91	130.16
550.00	1.05	128.84	549.98	-2.62	-2.43	2.93	0.13	3.80	129.70
600.00	1.24	125.47	599.97	-3.28	-3.03	3.72	0.40	4.80	129.14
650.00	1.31	115.52	649.96	-3.90	-3.59	4.68	0.46	5.90	127.50
700.00	1.08	108.76	699.94	-4.37	-3.99	5.64	0.54	6.91	125.26
750.00	0.95	108.14	749.94	-4.70	-4.27	6.48	0.26	7.76	123.37
800.00	1.01	109.53	799.93	-5.03	-4.55	7.29	0.13	8.59	121.94
850.00	0.79	98.45	849.92	-5.28	-4.74	8.05	0.56	9.34	120.52
883.00	0.54	94.73	882.92	-5.36	-4.79	8.43	0.77	9.69	119.61



Scientific
Drilling

Scientific Drilling International Survey Report

Company: MACK ENERGY
Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: DH - Job #32D0107038

Date: 02/19/2007 Time: 19:27:33 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grnd North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,356.08Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/12/07-01/20/07
MWD 943'-5775'

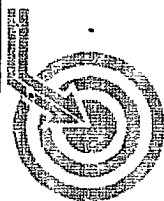
Start Date: 01/12/2007

Company: Scientific Drilling Internatio
Tool: MWD;MWD

Engineer: Calvert/Boyd
Tied-to: From: Definitive Path

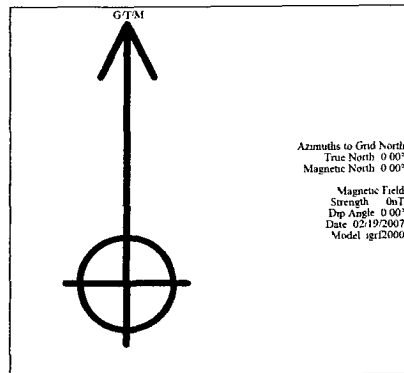
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
883.00	0.54	94.73	882.92	-5.36	-4.79	8.43	0.00	9.69	119.61
943.00	0.61	103.60	942.92	-5.49	-4.89	9.02	0.19	10.26	118.46
1067.00	2.53	17.58	1066.87	-3.15	-2.43	10.49	2.07	10.77	103.07
1159.00	3.51	8.76	1158.75	1.49	2.28	11.53	1.18	11.76	78.79
1254.00	4.78	358.60	1253.50	8.28	9.12	11.88	1.54	14.97	52.49
1348.00	5.20	2.02	1347.14	16.43	17.29	11.93	0.55	21.01	34.61
1439.00	5.09	354.40	1437.77	24.57	25.43	11.68	0.76	27.98	24.68
1533.00	3.77	349.20	1531.49	31.81	32.61	10.70	1.47	34.32	18.16
1627.00	4.87	348.94	1625.22	38.83	39.57	9.35	1.17	40.66	13.30
1720.00	4.72	352.82	1717.90	46.57	47.24	8.12	0.38	47.93	9.75
1813.00	4.94	353.40	1810.57	54.39	55.01	7.18	0.24	55.48	7.43
1904.00	5.00	352.43	1901.23	62.26	62.83	6.21	0.11	63.14	5.64
2031.00	4.43	352.53	2027.80	72.68	73.18	4.84	0.45	73.34	3.78
2125.00	4.42	352.05	2121.52	79.92	80.37	3.87	0.04	80.46	2.75
2219.00	4.58	352.90	2215.23	87.28	87.68	2.90	0.18	87.73	1.90
2313.00	4.33	356.76	2308.94	94.57	94.95	2.24	0.42	94.97	1.35
2408.00	4.42	357.54	2403.67	101.82	102.19	1.88	0.11	102.20	1.05
2502.00	5.03	356.07	2497.35	109.56	109.92	1.44	0.66	109.93	0.75
2597.00	4.36	352.90	2592.03	117.33	117.65	0.71	0.76	117.66	0.34
2659.00	4.79	352.93	2653.83	122.27	122.56	0.10	0.69	122.56	0.05
2753.00	4.65	354.79	2747.51	130.00	130.25	-0.73	0.22	130.25	359.68
2848.00	4.80	355.16	2842.19	137.82	138.05	-1.42	0.16	138.05	359.41
2941.00	4.95	359.74	2934.85	145.72	145.94	-1.76	0.45	145.95	359.31
3035.00	4.45	352.83	3028.54	153.40	153.61	-2.24	0.80	153.63	359.17
3129.00	4.63	350.96	3122.24	160.82	160.97	-3.29	0.25	161.01	358.83
3254.00	4.68	349.81	3246.83	170.92	170.98	-4.98	0.08	171.05	358.33
3413.00	4.82	354.40	3405.28	184.04	184.01	-6.78	0.25	184.13	357.89
3570.00	4.25	344.94	3561.79	196.34	196.19	-8.94	0.60	196.39	357.39
3664.00	3.55	358.51	3655.58	202.67	202.46	-9.92	1.23	202.71	357.20
3758.00	4.68	356.72	3749.33	209.41	209.20	-10.21	1.21	209.45	357.21
3851.00	4.71	354.41	3842.02	217.02	216.79	-10.80	0.21	217.06	357.15
4014.00	4.87	358.87	4004.45	230.62	230.37	-11.59	0.25	230.66	357.12
4158.00	4.33	357.69	4147.99	242.16	241.91	-11.93	0.38	242.20	357.18
4261.00	4.56	357.10	4250.68	250.14	249.88	-12.29	0.23	250.19	357.18
4405.00	4.55	0.83	4394.22	261.56	261.31	-12.50	0.21	261.61	357.26
4528.00	5.38	348.90	4516.76	272.14	271.85	-13.54	1.07	272.19	357.15
4685.00	4.39	347.50	4673.19	285.38	284.94	-16.26	0.64	285.40	356.73
4838.00	4.81	348.10	4825.70	297.53	296.93	-18.85	0.28	297.53	356.37
4933.00	4.40	354.00	4920.39	305.11	304.45	-20.05	0.66	305.11	356.23
5059.00	4.92	350.09	5045.98	315.32	314.58	-21.49	0.48	315.32	356.09
5214.00	4.72	8.99	5200.44	328.14	327.43	-21.63	1.03	328.15	356.22
5368.00	3.88	12.86	5354.00	339.31	338.77	-19.48	0.58	339.33	356.71
5464.00	4.58	359.50	5449.74	346.24	345.77	-18.79	1.25	346.28	356.89
5558.00	4.06	353.36	5543.48	353.32	352.83	-19.21	0.74	353.35	356.88
5724.00	3.56	357.20	5709.11	364.34	363.81	-20.14	0.34	364.37	356.83
5775.00	3.56	357.20	5760.01	367.50	366.98	-20.30	0.00	367.54	356.83

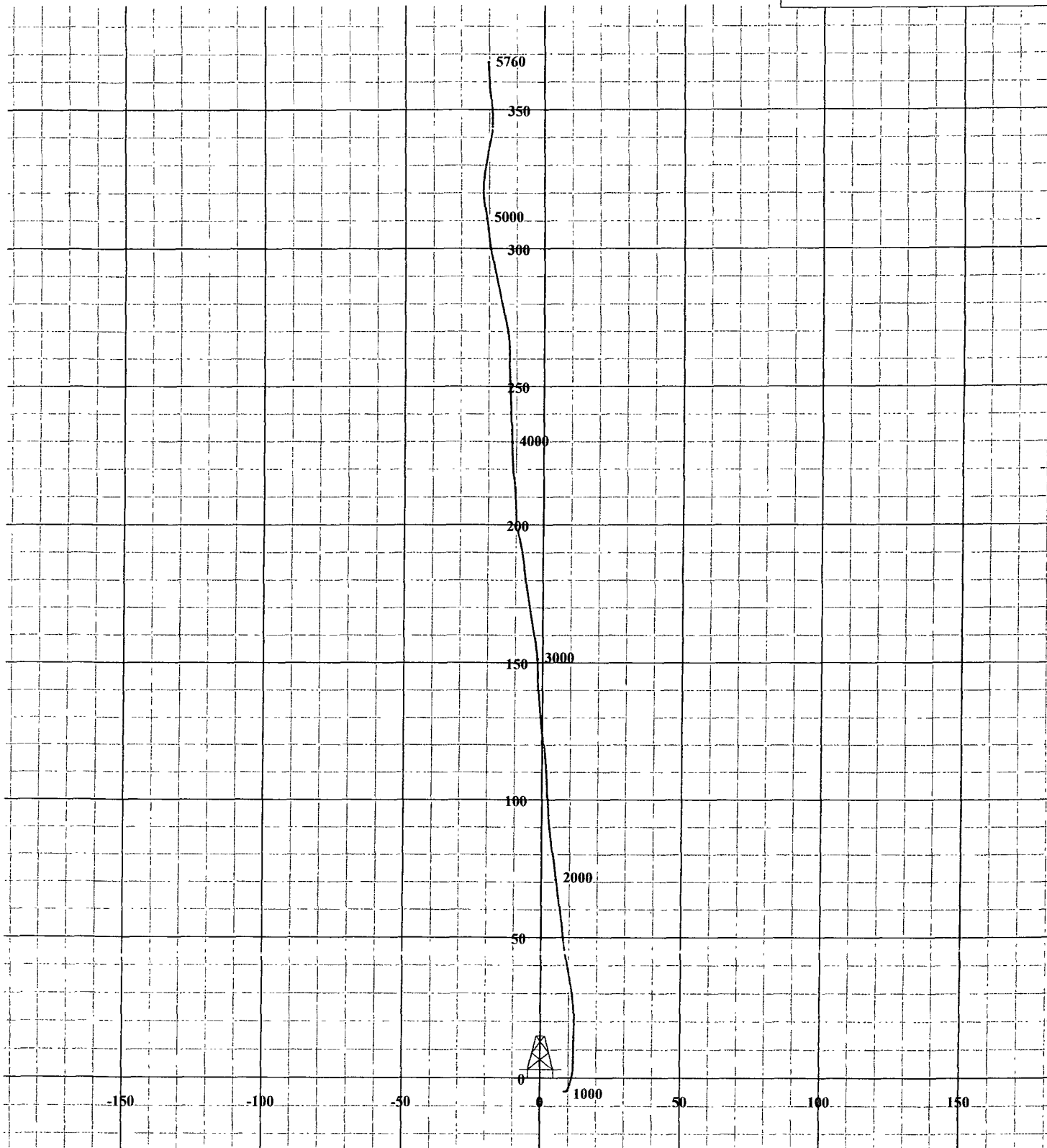


Scientific
Drilling

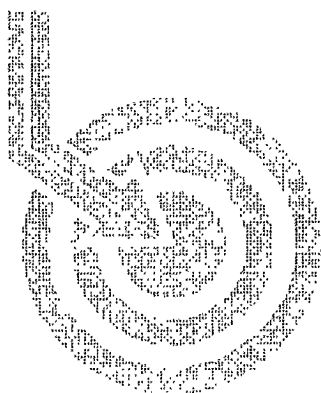
Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: DH - Job #32D0107038
Survey: 01/12/07-01/20/07



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



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



Scientific Drilling

MACK ENERGY

Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: DH - Job #32D0107038
Survey: 01/12/07-01/20/07

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2007 APR 18 PM 2:12

BUREAU OF LAND MANAGEMENT
CARSON CITY OFFICE

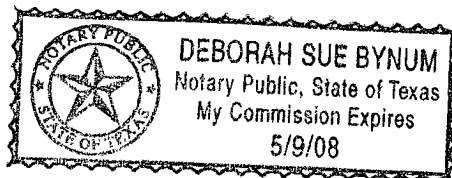
This survey is correct to the best of my knowledge
and is supported by actual field data.

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

Notorized this date 21st of February, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: MACK ENERGY Date: 02/19/2007 Time: 19:22:38 Page: 1
 Field: Empire Co-ordinate(NE) Reference: Site: Eddy County, NM; Grid North
 Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
 Well: Western Federal #8 Section (VS) Reference: Well (0.00N;0.00E;356.08Azi)
 Wellpath: VH - Job #32K0107046 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/13/07 Start Date: 01/13/2007
 KSRG 0'-883'
 Company: Scientific Drilling Internatio Engineer: Rehders/Rando
 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	359.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.02	274.11	100.00	0.00	0.00	-0.02	0.02	0.02	274.11
150.00	0.13	135.03	150.00	-0.04	-0.04	0.01	0.29	0.04	159.93
200.00	0.34	133.30	200.00	-0.19	-0.18	0.16	0.42	0.24	138.03
250.00	0.24	123.38	250.00	-0.36	-0.34	0.36	0.22	0.49	133.52
300.00	0.35	135.83	300.00	-0.54	-0.51	0.55	0.25	0.75	132.58
350.00	0.48	121.60	350.00	-0.78	-0.73	0.84	0.33	1.11	130.97
400.00	0.52	131.12	399.99	-1.06	-0.98	1.19	0.18	1.54	129.72
450.00	0.82	132.37	449.99	-1.48	-1.38	1.62	0.60	2.13	130.32
500.00	0.99	127.53	499.99	-2.03	-1.88	2.23	0.37	2.91	130.16
550.00	1.05	128.84	549.98	-2.62	-2.43	2.93	0.13	3.80	129.70
600.00	1.24	125.47	599.97	-3.28	-3.03	3.72	0.40	4.80	129.14
650.00	1.31	115.52	649.96	-3.90	-3.59	4.68	0.46	5.90	127.50
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800.00	1.01	109.53	799.93	-5.03	-4.55	7.29	0.13	8.59	121.94
850.00	0.79	98.45	849.92	-5.28	-4.74	8.05	0.56	9.34	120.52
883.00	0.54	94.73	882.92	-5.36	-4.79	8.43	0.77	9.69	119.61



Scientific
Drilling

Scientific Drilling International Survey Report

Company: MACK ENERGY	Date: 02/19/2007	Time: 19:27:33	Page: 1
Field: Empire	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Western Federal #8	Section (VS) Reference:	Well (0.00N,0.00E,356.08Azi)	
Wellpath: DH - Job #32D0107038	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 01/12/07-01/20/07	Start Date: 01/12/2007
MWD 943'-5775'	
Company: Scientific Drilling Internatio	Engineer: Calvert/Boyd
Tool: MWD;MWD	Tied-to: From: Definitive Path

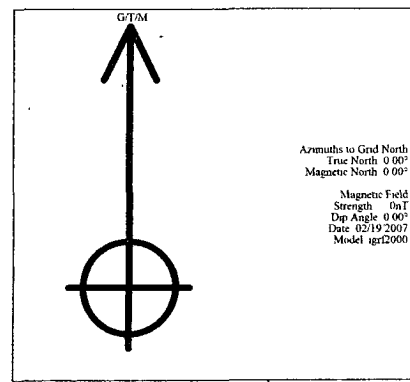
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
883.00	0.54	94.73	882.92	-5.36	-4.79	8.43	0.00	9.69	119.61
943.00	0.61	103.60	942.92	-5.49	-4.89	9.02	0.19	10.26	118.46
1067.00	2.53	17.58	1066.87	-3.15	-2.43	10.49	2.07	10.77	103.07
1159.00	3.51	8.76	1158.75	1.49	2.28	11.53	1.18	11.76	78.79
1254.00	4.78	358.60	1253.50	8.28	9.12	11.88	1.54	14.97	52.49
1348.00	5.20	2.02	1347.14	16.43	17.29	11.93	0.55	21.01	34.61
1439.00	5.09	354.40	1437.77	24.57	25.43	11.68	0.76	27.98	24.68
1533.00	3.77	349.20	1531.49	31.81	32.61	10.70	1.47	34.32	18.16
1627.00	4.87	348.94	1625.22	38.83	39.57	9.35	1.17	40.66	13.30
1720.00	4.72	352.82	1717.90	46.57	47.24	8.12	0.38	47.93	9.75
1813.00	4.94	353.40	1810.57	54.39	55.01	7.18	0.24	55.48	7.43
1904.00	5.00	352.43	1901.23	62.26	62.83	6.21	0.11	63.14	5.64
2031.00	4.43	352.53	2027.80	72.68	73.18	4.84	0.45	73.34	3.78
2125.00	4.42	352.05	2121.52	79.92	80.37	3.87	0.04	80.46	2.75
2219.00	4.58	352.90	2215.23	87.28	87.68	2.90	0.18	87.73	1.90
2313.00	4.33	356.76	2308.94	94.57	94.95	2.24	0.42	94.97	1.35
2408.00	4.42	357.54	2403.67	101.82	102.19	1.88	0.11	102.20	1.05
2502.00	5.03	356.07	2497.35	109.56	109.92	1.44	0.66	109.93	0.75
2597.00	4.36	352.90	2592.03	117.33	117.65	0.71	0.76	117.66	0.34
2659.00	4.79	352.93	2653.83	122.27	122.56	0.10	0.69	122.56	0.05
2753.00	4.65	354.79	2747.51	130.00	130.25	-0.73	0.22	130.25	359.68
2848.00	4.80	355.16	2842.19	137.82	138.05	-1.42	0.16	138.05	359.41
2941.00	4.95	359.74	2934.85	145.72	145.94	-1.76	0.45	145.95	359.31
3035.00	4.45	352.83	3028.54	153.40	153.61	-2.24	0.80	153.63	359.17
3129.00	4.63	350.96	3122.24	160.82	160.97	-3.29	0.25	161.01	358.83
3254.00	4.68	349.81	3246.83	170.92	170.98	-4.98	0.08	171.05	358.33
3413.00	4.82	354.40	3405.28	184.04	184.01	-6.78	0.25	184.13	357.89
3570.00	4.25	344.94	3561.79	196.34	196.19	-8.94	0.60	196.39	357.39
3664.00	3.55	358.51	3655.58	202.67	202.46	-9.92	1.23	202.71	357.20
3758.00	4.68	356.72	3749.33	209.41	209.20	-10.21	1.21	209.45	357.21
3851.00	4.71	354.41	3842.02	217.02	216.79	-10.80	0.21	217.06	357.15
4014.00	4.87	358.87	4004.45	230.62	230.37	-11.59	0.25	230.66	357.12
4158.00	4.33	357.69	4147.99	242.16	241.91	-11.93	0.38	242.20	357.18
4261.00	4.56	357.10	4250.68	250.14	249.88	-12.29	0.23	250.19	357.18
4405.00	4.55	0.83	4394.22	261.56	261.31	-12.50	0.21	261.61	357.26
4528.00	5.38	348.90	4516.76	272.14	271.85	-13.54	1.07	272.19	357.15
4685.00	4.39	347.50	4673.19	285.38	284.94	-16.26	0.64	285.40	356.73
4838.00	4.81	348.10	4825.70	297.53	296.93	-18.85	0.28	297.53	356.37
4933.00	4.40	354.00	4920.39	305.11	304.45	-20.05	0.66	305.11	356.23
5059.00	4.92	350.09	5045.98	315.32	314.58	-21.49	0.48	315.32	356.09
5214.00	4.72	8.99	5200.44	328.14	327.43	-21.63	1.03	328.15	356.22
5368.00	3.88	12.86	5354.00	339.31	338.77	-19.48	0.58	339.33	356.71
5464.00	4.58	359.50	5449.74	346.24	345.77	-18.79	1.25	346.28	356.89
5558.00	4.06	353.36	5543.48	353.32	352.83	-19.21	0.74	353.35	356.88
5724.00	3.56	357.20	5709.11	364.34	363.81	-20.14	0.34	364.37	356.83
5775.00	3.56	357.20	5760.01	367.50	366.98	-20.30	0.00	367.54	356.83

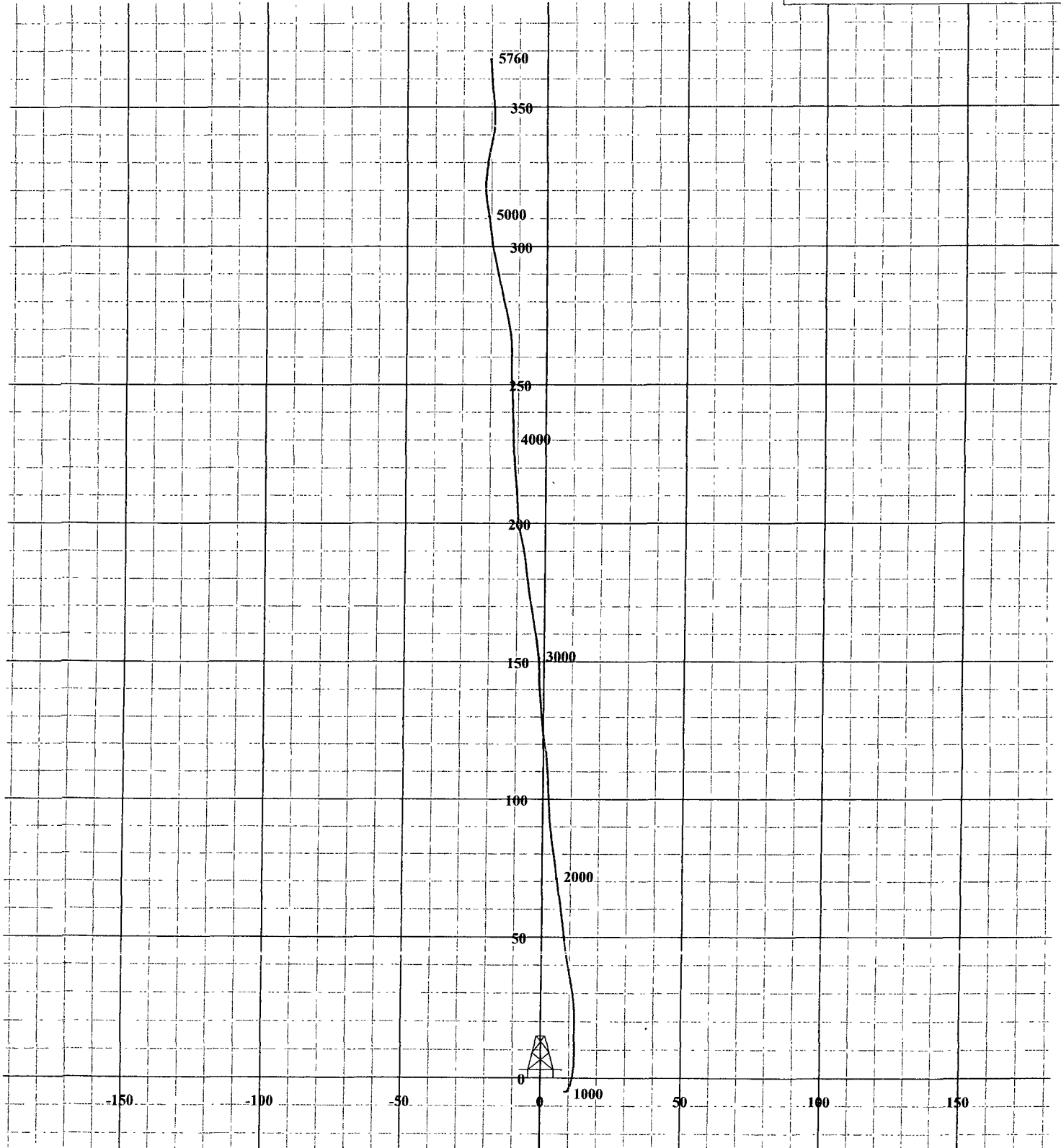


Scientific
Drilling

Field: Empire
Site: Eddy County, NM
Well: Western Federal #8
Wellpath: DH - Job #32D0107038
Survey: 01/12/07-01/20/07



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



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