Form 3160-4
(April 2004)

Month - Year
MAR 19 2007
OCD - ARTESIA, NM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCD-ARTESIA

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

5. Lease Serial No. **NM-0467930**

1a. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr,.
Other

6. If Indian, Allottee or Tribe Name ---

7. Unit or CA Agreement Name and No. ---

2. Name of Operator **COG Operating LLC**

8. Lease Name and Well No. **SINCLAIR PARKE #4**

3. Address **550 W. Texas, Suite 1300, Midland, TX 79701**

3a. Phone No. *(include area code)* **432-685-4340**

9. AFI Well No. **30-015-34904**

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface **2150' FNL & 1800' FWL, Unit F SURFACE**

At top prod. interval reported below

At total depth **1638' FNL & 1653' FWL, Unit F BHL**

10. Field and Pool, or Exploratory **Loco Hills Glorieta Yeso**

11. Sec., T., R., M., on Block and Survey or Area **Sec 22, T17S, R30E**

12. County or Parish **Eddy** 13. State **NM**

14. Date Spudded **12/18/2006**

15. Date T.D. Reached **01/04/2007**

16. Date Completed **01/31/2007** ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3663' GL**

18. Total Depth: MD **6305'** TVD

19. Plug Back T.D.: MD **6284'** TVD

20. Depth Bridge Plug Set: MD **None** 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		440		828 sx Cl C		Surface	
12-1/4	8-5/8	24		1435		700 sx Cl C		Surface	
7-7/8	5-1/2	17		6298		1410 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	6221							

25. Producing Intervals

Formation	Top	Bottom	26. Perforation Record: Perforated Interval	Size	No. Holes	Perf. Status
A) Yeso			5796.5' - 5956.5'	2 SPF	64	Open
B) Yeso			6054.5' - 6219'	2 SPF	58	Open
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5796.5' - 5956.5'	Acidize w/ 2500 gals acid. Frac w/ 91,115 gals gel, 8000# LiteProp, & 91,080# 16/30 sand.
6054.5' - 6219'	Acidize w/ 2500 gals acid. Frac w/ 101,062 gals gel, 8000# LiteProp, & 91,120# 16/30 sand.

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
01/31/2007	02/07/2007	24		59	83	305	36.8		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
MAR 13 2007
FREDERICK WRIGHT
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	**1361**				
7 Rivers	**1589**				
Queen	**2242**				
Grayburg	**2667**				
San Andres	**3014**				
Glorieta	**4471**				
Paddock	**4561**				

32. Additional remarks (include plugging procedure):

33. Indicate which itmes 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. Edwards** Title **Regulatory Analyst**

Signature Phyllis A. Edwards Date **03/07/2007**

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.

Scientific Drilling

MACK ENERGY

Field: Jackson Abo
Site: Eddy County, NM
Well: Sinclair Parke #4
Wellpath: DH - Job #32D12061045
Survey: 12/22/06-01/05/07

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

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:	MACK ENERGY	**Date:** 02/21/2007	**Time:** 10:21:14	**Page:**	1
Field:	Jackson Abo	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Sinclair Parke #4	**Section (VS) Reference:**	Well (0.00N,0.00E,344.05Azi)		
Wellpath:	VH - Job #32K12061048	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

Survey:	12/23/06 KSRG 0'-1413'	**Start Date:**	12/23/2006
Company:	Scientific Drilling Internatio	**Engineer:**	Pena/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	359.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.02	239.32	100.00	0.00	-0.01	-0.02	0.02	0.02	239.32
200.00	0.07	199.71	200.00	-0.06	-0.08	-0.05	0.06	0.09	213.91
300.00	0.11	168.95	300.00	-0.20	-0.23	-0.05	0.06	0.23	193.10
400.00	0.76	194.60	400.00	-0.87	-0.96	-0.20	0.66	0.98	191.82
500.00	0.64	195.34	499.99	-1.92	-2.14	-0.52	0.12	2.20	193.55
600.00	0.64	189.12	599.98	-2.90	-3.23	-0.75	0.07	3.32	193.11
700.00	0.36	153.81	699.98	-3.72	-4.07	-0.70	0.40	4.13	189.80
800.00	0.25	123.44	799.98	-4.19	-4.47	-0.38	0.19	4.49	184.89
900.00	0.32	107.02	899.98	-4.51	-4.67	0.07	0.11	4.67	179.18
1000.00	0.65	88.51	999.97	-4.80	-4.74	0.90	0.36	4.82	169.23
1100.00	1.05	91.53	1099.96	-5.22	-4.75	2.38	0.40	5.31	153.34
1200.00	1.18	85.23	1199.94	-5.69	-4.69	4.33	0.18	6.38	137.29
1300.00	1.09	78.40	1299.92	-5.97	-4.41	6.28	0.16	7.68	125.06
1400.00	1.14	64.58	1399.90	-5.88	-3.79	8.11	0.27	8.96	115.04
1413.00	1.19	62.16	1412.90	-5.83	-3.67	8.35	0.54	9.12	113.74

Scientific Drilling International
Survey Report

Company:	MACK ENERGY	**Date:** 02/21/2007	**Time:** 10:19:34	**Page:**	1
Field:	Jackson Abo	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Sinclair Parke #4	**Section (VS) Reference:**	Well (0.00N,0.00E,344.05Azi)		
Wellpath:	DH - Job #32D12061045	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

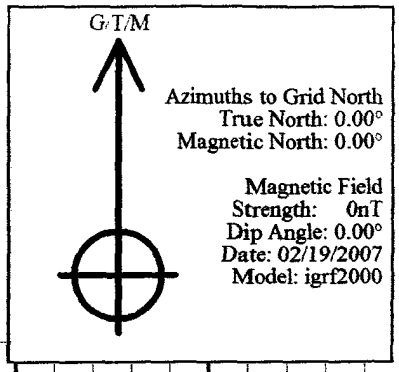
Survey:	12/22/06-01/05/07 MWD 1476'-6305'	**Start Date:**	12/22/2006
Company:	Scientific Drilling Internatio	**Engineer:**	Johns/Boyd
Tool:	MWD;MWD	**Tied-to:**	From: Definitive Path

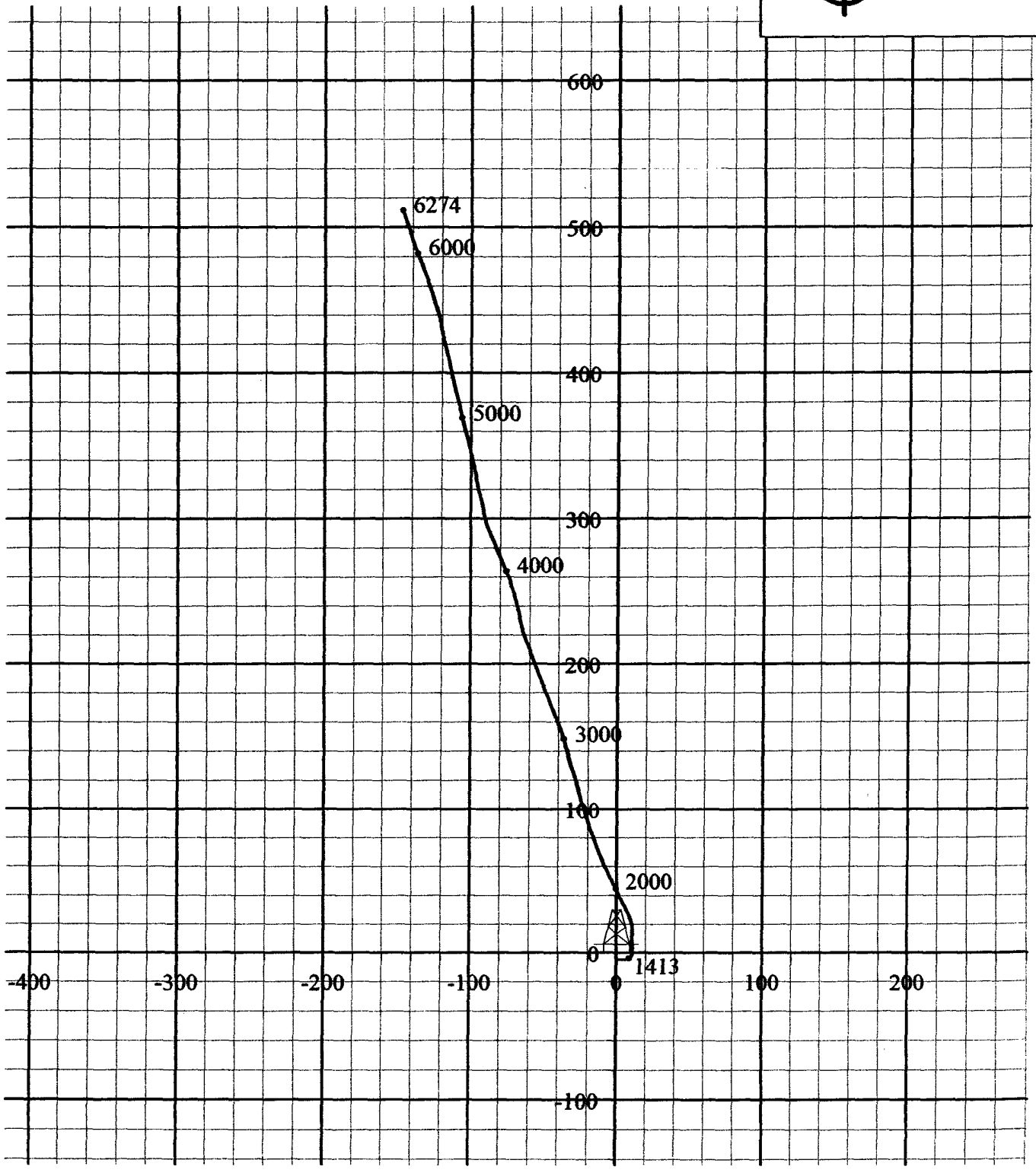
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1413.00	1.19	62.16	1412.90	-5.83	-3.67	8.35	0.00	9.12	113.74
1476.00	0.91	74.24	1475.89	-5.69	-3.23	9.41	0.56	9.95	108.95
1507.00	1.72	24.53	1506.88	-5.34	-2.74	9.84	4.28	10.22	105.57
1538.00	3.27	15.52	1537.85	-4.23	-1.47	10.27	5.14	10.37	98.12
1569.00	3.34	9.34	1568.80	-2.66	0.28	10.65	1.17	10.66	88.51
1600.00	4.05	3.52	1599.74	-0.81	2.26	10.87	2.59	11.10	78.25
1631.00	4.49	358.90	1630.65	1.39	4.57	10.91	1.80	11.83	67.29
1661.00	4.44	357.42	1660.56	3.66	6.90	10.84	0.42	12.85	57.51
1724.00	6.58	2.45	1723.27	9.46	12.94	10.88	3.48	16.91	40.05
1786.00	6.64	349.20	1784.86	16.40	20.01	10.36	2.46	22.54	27.37
1848.00	7.22	335.20	1846.41	23.82	27.07	8.05	2.87	28.25	16.57
1911.00	7.46	332.30	1908.89	31.73	34.29	4.49	0.70	34.58	7.47
2002.00	6.85	332.60	1999.18	42.84	44.34	-0.75	0.67	44.34	359.03
2127.00	6.09	334.40	2123.39	56.68	56.93	-7.05	0.63	57.37	352.94
2187.00	6.39	336.70	2183.03	63.13	62.87	-9.74	0.65	63.62	351.19
2281.00	6.53	340.30	2276.43	73.65	72.71	-13.61	0.46	73.97	349.40
2406.00	5.66	339.60	2400.73	86.89	85.18	-18.16	0.70	87.09	347.97
2531.00	6.73	343.00	2525.00	100.36	97.96	-22.45	0.90	100.50	347.09
2655.00	6.30	344.90	2648.19	114.42	111.48	-26.34	0.39	114.55	346.70
2780.00	6.09	343.10	2772.46	127.91	124.44	-30.06	0.23	128.02	346.42
2874.00	5.94	344.10	2865.95	137.76	133.89	-32.84	0.19	137.86	346.22
3000.00	6.75	347.30	2991.17	151.67	147.39	-36.25	0.70	151.78	346.18
3094.00	8.19	336.30	3084.38	163.82	158.91	-40.16	2.15	163.90	345.82
3188.00	8.01	339.00	3177.44	176.98	171.15	-45.20	0.45	177.02	345.21
3314.00	7.09	337.60	3302.35	193.45	186.54	-51.31	0.74	193.46	344.62
3438.00	6.76	340.50	3425.44	208.34	200.49	-56.66	0.39	208.34	344.22
3564.00	6.35	337.10	3550.62	222.66	213.90	-61.85	0.45	222.66	343.87
3690.00	6.77	348.80	3675.80	236.98	227.61	-66.00	1.11	236.98	343.83
3843.00	6.68	345.50	3827.75	254.86	245.07	-69.98	0.26	254.86	344.06
3999.00	6.47	338.50	3982.73	272.68	262.03	-75.47	0.53	272.68	343.93
4185.00	6.37	337.40	4167.56	293.36	281.31	-83.28	0.09	293.37	343.51
4246.00	6.36	336.00	4228.18	300.07	287.52	-85.96	0.25	300.09	343.36
4371.00	5.93	347.80	4352.47	313.37	300.15	-90.14	1.07	313.39	343.28
4565.00	5.58	346.20	4545.49	332.79	319.11	-94.50	0.20	332.81	343.50
4653.00	6.54	349.30	4633.00	342.06	328.19	-96.45	1.15	342.07	343.62
4776.00	6.16	347.10	4755.24	355.62	341.50	-99.23	0.37	355.63	343.80
4933.00	6.90	345.40	4911.22	373.46	358.84	-103.49	0.49	373.46	343.91
5056.00	7.03	346.50	5033.32	388.37	373.31	-107.11	0.15	388.37	343.99
5187.00	6.71	346.20	5163.38	404.03	388.54	-110.80	0.25	404.03	344.08
5304.00	6.70	347.70	5279.58	417.67	401.84	-113.89	0.15	417.67	344.18
5459.00	6.29	345.80	5433.58	435.18	418.91	-117.90	0.30	435.18	344.28
5614.00	6.19	350.00	5587.66	451.98	435.37	-121.43	0.30	451.99	344.42
5707.00	6.82	341.30	5680.07	462.48	445.54	-124.07	1.26	462.49	344.44
5828.00	6.75	343.40	5800.22	476.77	459.16	-128.41	0.21	476.78	344.38
5954.00	7.19	337.90	5925.29	492.01	473.56	-133.49	0.63	492.02	344.26
6109.00	6.56	340.90	6079.17	510.50	490.91	-140.04	0.47	510.50	344.08
6258.00	6.26	342.40	6227.24	527.12	506.70	-145.28	0.23	527.12	344.00
6305.00	6.26	342.40	6273.96	532.24	511.59	-146.83	0.00	532.24	343.99

Scientific Drilling

Field: Jackson Abo
Site: Eddy County, NM
Well: Sinclair Parke #4
Wellpath: DH - Job #32D12061045
Survey: 12/22/06-01/05/07





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

January 17, 2007

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

RE: Sinclair Parke #4
2150' FNL & 1800' FWL
Sec. 22, T17S, R30E
Eddy County, New Mexico

Dear Sir,

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

DEPTH	DEVIATION	DEPTH	DEVIATION
288'	3/4°	984'	1/2°
585'	3/4°	1435'	1 1/4°

Thereafter drilled directionally and supplied by another company.

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 17th day of January, 2007.

Notary Public

OFFICIAL SEAL
REGINIA L. GARNER
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires Aug. 30, 2008