

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Month - Year
MAR - 8 2007
OCD - ARTESIA, NM

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

OCD COPY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other

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

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2150' FNL & 1800' FWL, SEC. 22, T17S, R30E, Unit F SURFACE
1638' FNL & 1653' FWL, SEC. 22, T17S, R30E, Unit F BHL

5. Lease Serial No.

NM-0467930

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

SINCLAIR PARKE #4

9. API Well No.

30-015-34904

10. Field and Pool, or Exploratory Area

Loco Hills; Glorieta Yeso

11. County or Parish, State

EDDY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Completion
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

1/24/2007 Perf Yeso w/ 2 SPF @ 6054.5' - 6219'. 58 holes.

1/25/2007 Acidize w/ 2500 gals acid.

1/26/2007 Frac w/ 101,062 gals gel, 8000# LiteProp, and 91,120# 16/30 sand.

1/29/2007 Perf Yeso w/ 2 SPF @ 5796.5' - 5956.5'. 64 holes. Acidize w/ 2500 gals acid.

1/30/2007 Frac w/ 91,115 gals gel, 8000# LiteProp, & 91,080# 16/30 sand.

1/31/2007 RIH w/ 194 joints 2-7/8" J55 tbg, SN @ 6221'. RIH w/ 2-1/2" x 2" x 20' pump. Turn to production.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Phyllis Edwards

Title **Regulatory Analyst**

Signature

Phyllis Edwards

Date

03/07/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

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.

(Instructions on page 2)



Scientific
Drilling

S



MACK ENERGY

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

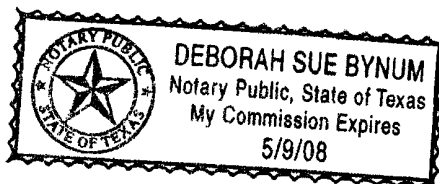
This survey is correct to the best of my knowledge
and is supported by actual field data.

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

Notorized this date 21st of February, 2007.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





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	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

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

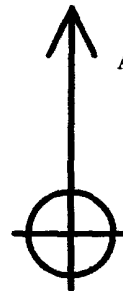
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
1413.00	1.19	62.16	1412.90	-5.83	-3.67	8.35	0.00	9.12	113.74
1476.00	0.91	74.24	1475.89	-5.69	-3.23	9.41	0.56	9.95	108.95
1507.00	1.72	24.53	1506.88	-5.34	-2.74	9.84	4.28	10.22	105.57
1538.00	3.27	15.52	1537.85	-4.23	-1.47	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

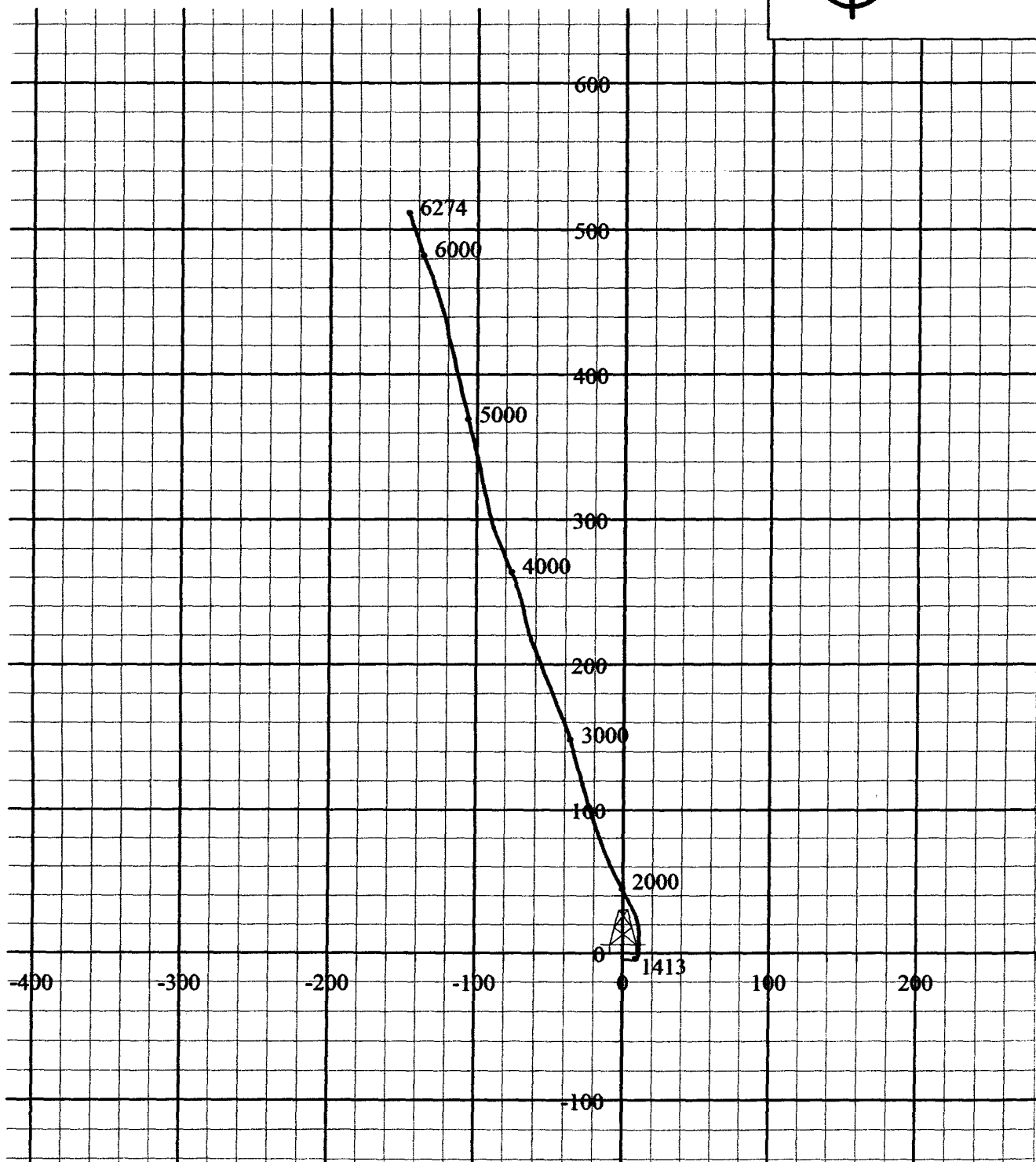
G/T/M



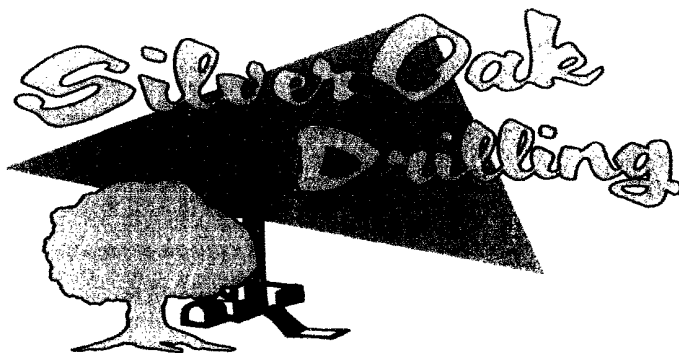
Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 02/19/2007
Model: igrf2000

South(-)/North(+) [100ft/in]



West(-)/East(+) [100ft/in]



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

S

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.

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

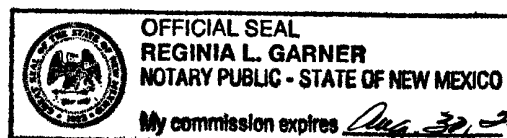
Thereafter drilled directionally and supplied by another company.

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

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505Month-Year Submit to
MAR - 8 2007
OCD - ARTESIA, NM

Form C-102

Revised October 12, 2005

Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34904	Pool Code 96718	Pool Name LOCO S. MORIETA YESO
Property Code 302563	Property Name SINCLAIR PARKE FEDERAL	Well Number 4
OGRID No. 229137	Operator Name COG Operating LLC	Elevation 3663'

Surface Location

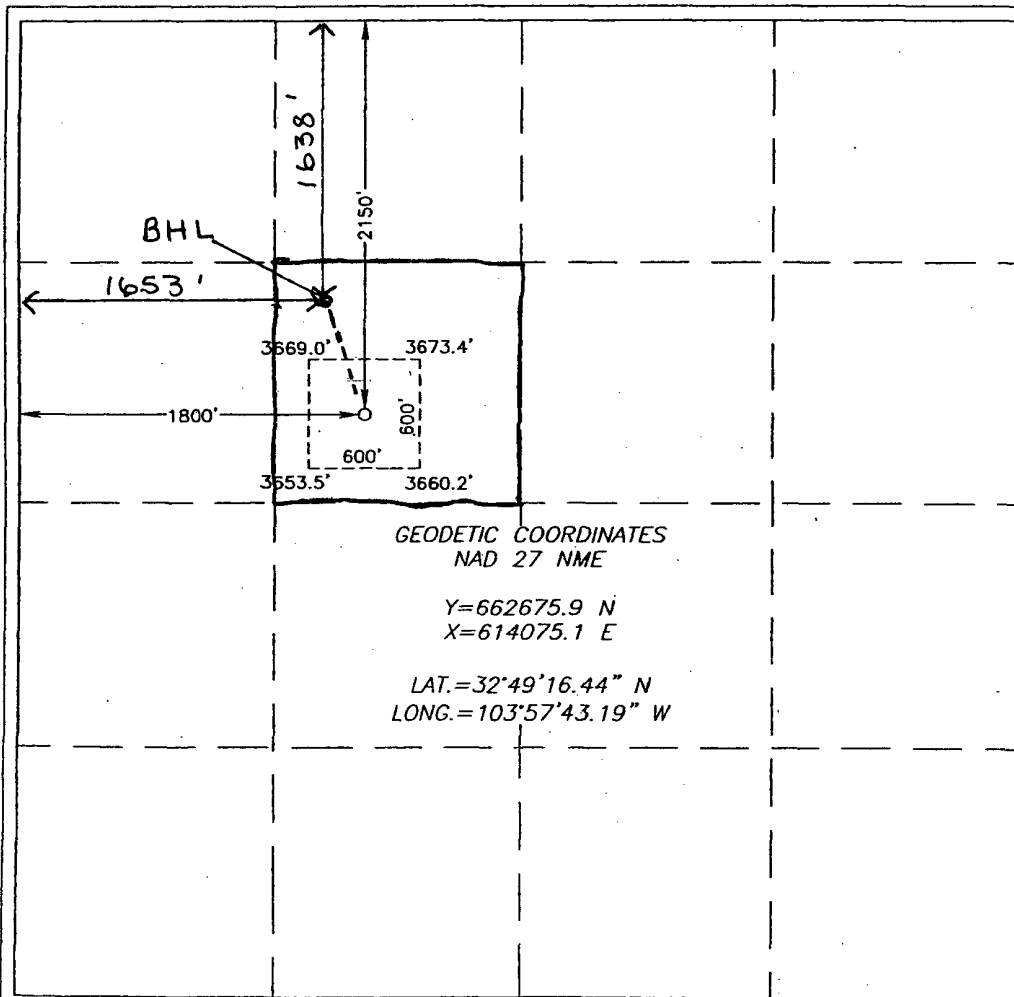
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	22	17-S	30-E		2150	NORTH	1800	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	22	17-S	30-E		1638	North	1653	West	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Phyllis A. Edwards Date: 3/7/07
Printed Name: Phyllis A. Edwards-Regulatory Analyst

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 10, 2006

Date Surveyed: MR
Signature & Seal of Professional Surveyor: GARY EIDSON
Certificate No.: 06.11.0486 12841

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised June 10, 2003

Month - Year
MAR - 2007
OCD - ARTESIA, NM

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 550 W. Texas Avenue, Suite 1300 Midland, TX 79701		² OGRID Number 229137
⁴ API Number 30 - 015 - 34904		³ Reason for Filing Code/ Effective Date NW effc 1/31/2007
⁵ Pool Name Loco Hills Glorieta Yeso		⁶ Pool Code 96718
⁷ Property Code 302563	⁸ Property Name Sinclair Parke Federal	⁹ Well Number 004

II. ¹⁰ Surface Location

Ul or lot no. F	Section 22	Township 17S	Range 30E	Lot.Idn	Feet from the 2150	North/South Line North	Feet from the 1800	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. F	Section 22	Township 17S	Range 30E	Lot Idn	Feet from the 1638	North/South line North	Feet from the 1653	East/West line West	County Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 1 / 31 / 07	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
15694	Navajo Refining Co. Pipeline Division P O Box 159 Artesia, NM 88211-0159	2826250	O	Unit J, Section 22, T17S, R30E
009171	Duke Energy Field Serv LP 4001 Penbrook Odessa, TX 79762	2826251	G	Unit J, Section 22, T22S, R30E

IV. Produced Water

²³ POD 2826252	²⁴ POD ULSTR Location and Description Unit J, Section 22, T22S, R30E
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V. Well Completion Data

²⁵ Spud Date 12-18-2006	²⁶ Ready Date 1-31 -2007	²⁷ TD 6305	²⁸ PBTD 6284	²⁹ Perforations 5796.5' - 6219'	³⁰ DHC, MC
³¹ Hole Size 17 1/2	³² Casing & Tubing Size 13 3/8	³³ Depth Set 440	³⁴ Sacks Cement 820 sx		
12-1/4	8 5/8	1435	700 sx		
7 7/8	5 1/2	6298	1410 sx		
	2-7/8"	6221			

VI. Well Test Data

³⁵ Date New Oil 2 / 6 / 07	³⁶ Gas Delivery Date 2 / 6 / 07	³⁷ Test Date 2 / 7 / 2007	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil 59	⁴³ Water 305	⁴⁴ Gas 83	⁴⁵ AOF	⁴⁶ Test Method P

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Phyllis Edwards*

Printed name:
Phyllis Edwards

Title:
Regulatory Analyst

E-mail Address:
pedwards@conchoresources.com

Date:
3/07/2007

Phone:
432-685-4340

Approved by:

BRYAN G. ARANT

Title:

DISTRICT II GEOLOGIST

Approval Date:

MAR 09 2007