

DATE IN <u>6-11-11</u>	SUSPENSE	ENGINEER <u>DKB</u>	LOGGED IN <u>6.11.11</u>	TYPE <u>NSL</u>	APP NO <u>116244991</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



C06

2a3y J "27" Stk #11

ADMINISTRATIVE APPLICATION CHECKLIST

30-025-

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]

[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]

[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]

[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]

[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]

[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U S Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Kelly J. Holly
Print or Type Name

[Signature]
Signature

Permitting Tech
Title

6-9-11
Date

(432) 685-4384
Phone Number

kholly@conchoresources.com
E-mail Address

6413

Lea

27-135-335

RECEIVED OGD
2011 JUN 10 A 11:11

INTEREST ARE THE SAME

**Lazy J "27" State #1H
Lea County, NM**

COG is requesting to **horizontally** drill a SW/4 SW/4 to SE/4 SE/4 120 acre spacing
Wildcat; Abo oil well
Approximately: TVD 9000', MD 13416'

Non-standard Location:

SHL: 1310' FSL & 330' FWL	Sec 27, T13S, R33E, Unit M
BHL: 1310' FSL & 330' FEL	Sec 27, T13S, R33E, Unit P

This well had to be staked at a non-standard location due to prevent a collision with other existing well bores.

The plan for this well is to complete it in the Abo formation.

We won't know the exact perms until we drill & log it, but it will be very similar to the Reindeer 21 Federal #2 which was recently drilled in June 2008 and is located at:

SHL: 330' FNL & 330' FEL	Section 21, T16S, R28E, Unit A.
BHL: 330' FNL & 330' FWL	Section 21, T16S, R28E, Unit D

Reindeer 21 Federal #2 has perms from: 6946' – 8331' overall, but broken up into 4 separate intervals, with 4 separate fracs:

1st Perf: 6946',
acidized w/ 9300 gals,
frac'd w/ 91,000 gals gel, 60,500# 30/50 sand.

2nd Perf: 7479',
acidized w/ 9300 gals,
frac'd w/ 91,000 gals gel, 60,500# 30/50 sand.

3rd Perf: 7884',
acidized w/ 9300 gals,
frac'd w/ 91,000 gals gel, 60,500# 30/50 sand.

4th Perf: 8331',
acidized w/ 9300 gals,
frac'd w/ 91,000 gals gel, 60,500# 30/50 sand.

Attachment 1

Plat & Map

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC owns the 100% of Section 27. The acreage we are encroaching on is the NW/4 SW/4 of Section 26 and NE/4 SE/4 of Section 28.

Offset acreage is owned by Chevron, Three Rivers Acquisition and Samson Resources.
(copies of notices to Chevron and Samson Resources are attached)

All interests are the same.

COG Operating LLC respectfully requests permission to have this NSL approved.

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 Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025	² Pool Code	³ Pool Name Wildcat; ABO
⁴ Property Code	⁵ Property Name LAZY J "27" STATE	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC.	
		⁶ Well Number 1H
		⁹ Elevation 4235.7

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	27	13 S	33 E		1310	SOUTH	330	WEST	LEA

¹¹ 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
P	27	13 S	33 E		1310	SOUTH	330	EAST	LEA

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

NW CORNER SEC. 27 LAT. = 33°10'11.78"N LONG. = 103°36'38.94"W NMSP EAST (FT) N = 790128.63 E = 762421.12 NE CORNER SEC. 27 LAT. = 33°10'11.74"N LONG. = 103°35'36.87"W NMSP EAST (FT) N = 790161.19 E = 767696.44 LAZY J "27" STATE #1H ELEV. = 4235.7 LAT. = 33°09'32.417"N (NAD83) LONG. = 103°36'35.290"W NMSP EAST (FT) N = 786152.04 E = 762758.67 BOTTOM OF HOLE LAT. = 33°09'32.480"N LONG. = 103°35'40.93"W NMSP EAST (FT) N = 786190.57 E = 767379.69 SW CORNER SEC. 27 LAT. = 33°09'19.45"N LONG. = 103°36'39.27"W NMSP EAST (FT) N = 784839.11 E = 762429.27 SE CORNER SEC. 27 LAT. = 33°09'19.52"N LONG. = 103°35'37.11"W NMSP EAST (FT) N = 784883.27 E = 767713.71 Project Area Producing Area SURFACE LOCATION BOTTOM OF HOLE	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: Date: 4-18-11 Printed Name: Kelly J. Holly ¹⁸ 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. Date of Survey: MARCH 18, 2011 Signature and Seal of Professional Surveyor: Certificate Number: 20110001, JARVIS, PLS 12797 SURVEY NO. 397C
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SECTION 27, TOWNSHIP 13 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

COG OPERATING, LLC
LAZY J "27" STATE #1H
LOCATED 1310 FT. FROM THE SOUTH LINE
AND 330 FT. FROM THE WEST LINE OF
SECTION 27, TOWNSHIP 13 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

MARCH 18, 2011

SURVEY NO. 397C

MADRON SURVEYING, INC. 401 SOUTH CANAL CARLSBAD, NEW MEXICO
5/5/11 887-NR10



COG Operating LLC

Lea County(NAD83)

Lazy J "27" State

#1H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

13 April, 2011

PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County(NAD83)	TVD Reference:	WELL @ 4254.20usft (Original Well Elev)
Site:	Lazy J "27" State	MD Reference:	WELL @ 4254.20usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Design #1	Database:	EDM 5000.1 Single User Db

Project	Lea County(NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lazy J "27" State		
Site Position:		Northing:	786,162.040 usft
From:	Map	Easting:	762,758.670 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 9' 32.517 N
		Longitude:	103° 36' 35.289 W
		Grid Convergence:	0.40 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	786,162.040 usft	Latitude:	33° 9' 32.517 N
	+E/-W	0.00 usft	Easting:	762,758.670 usft	Longitude:	103° 36' 35.289 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,235.70 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	03/28/11	7.69	61.07	49,224

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.52

Survey Tool Program	Date 04/13/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	13,416.24	Design #1 (OH)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 4254.20usft (Original Well Elev)
MD Reference: WELL @ 4254.20usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	4,254.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
100.00	0.00	0.00	100.00	4,154.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
200.00	0.00	0.00	200.00	4,054.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
300.00	0.00	0.00	300.00	3,954.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
400.00	0.00	0.00	400.00	3,854.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
500.00	0.00	0.00	500.00	3,754.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
600.00	0.00	0.00	600.00	3,654.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
700.00	0.00	0.00	700.00	3,554.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
800.00	0.00	0.00	800.00	3,454.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
900.00	0.00	0.00	900.00	3,354.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,000.00	0.00	0.00	1,000.00	3,254.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,100.00	0.00	0.00	1,100.00	3,154.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,200.00	0.00	0.00	1,200.00	3,054.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,300.00	0.00	0.00	1,300.00	2,954.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,400.00	0.00	0.00	1,400.00	2,854.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,500.00	0.00	0.00	1,500.00	2,754.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,600.00	0.00	0.00	1,600.00	2,654.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,700.00	0.00	0.00	1,700.00	2,554.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,800.00	0.00	0.00	1,800.00	2,454.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,900.00	0.00	0.00	1,900.00	2,354.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,000.00	0.00	0.00	2,000.00	2,254.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,100.00	0.00	0.00	2,100.00	2,154.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,200.00	0.00	0.00	2,200.00	2,054.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,300.00	0.00	0.00	2,300.00	1,954.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,400.00	0.00	0.00	2,400.00	1,854.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,500.00	0.00	0.00	2,500.00	1,754.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,600.00	0.00	0.00	2,600.00	1,654.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67



Pathfinder
Pathfinder X & Y Planning Report

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A Schlumberger Company

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2,700.00	0.00	0.00	2,700.00	1,554.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,800.00	0.00	0.00	2,800.00	1,454.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,900.00	0.00	0.00	2,900.00	1,354.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,000.00	0.00	0.00	3,000.00	1,254.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,100.00	0.00	0.00	3,100.00	1,154.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,200.00	0.00	0.00	3,200.00	1,054.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,300.00	0.00	0.00	3,300.00	954.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,400.00	0.00	0.00	3,400.00	854.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,500.00	0.00	0.00	3,500.00	754.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,600.00	0.00	0.00	3,600.00	654.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,700.00	0.00	0.00	3,700.00	554.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,800.00	0.00	0.00	3,800.00	454.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
3,900.00	0.00	0.00	3,900.00	354.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,000.00	0.00	0.00	4,000.00	254.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,100.00	0.00	0.00	4,100.00	154.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,200.00	0.00	0.00	4,200.00	54.20	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,300.00	0.00	0.00	4,300.00	-45.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,400.00	0.00	0.00	4,400.00	-145.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,500.00	0.00	0.00	4,500.00	-245.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,600.00	0.00	0.00	4,600.00	-345.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,700.00	0.00	0.00	4,700.00	-445.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,800.00	0.00	0.00	4,800.00	-545.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
4,900.00	0.00	0.00	4,900.00	-645.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,000.00	0.00	0.00	5,000.00	-745.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,100.00	0.00	0.00	5,100.00	-845.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,200.00	0.00	0.00	5,200.00	-945.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,300.00	0.00	0.00	5,300.00	-1,045.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
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Wellbore: OH
Design: Design #1

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MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
5,400.00	0.00	0.00	5,400.00	-1,145.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,500.00	0.00	0.00	5,500.00	-1,245.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,600.00	0.00	0.00	5,600.00	-1,345.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,700.00	0.00	0.00	5,700.00	-1,445.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,800.00	0.00	0.00	5,800.00	-1,545.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,900.00	0.00	0.00	5,900.00	-1,645.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,000.00	0.00	0.00	6,000.00	-1,745.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,100.00	0.00	0.00	6,100.00	-1,845.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,200.00	0.00	0.00	6,200.00	-1,945.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,300.00	0.00	0.00	6,300.00	-2,045.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,400.00	0.00	0.00	6,400.00	-2,145.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,500.00	0.00	0.00	6,500.00	-2,245.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,600.00	0.00	0.00	6,600.00	-2,345.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,700.00	0.00	0.00	6,700.00	-2,445.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,800.00	0.00	0.00	6,800.00	-2,545.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,900.00	0.00	0.00	6,900.00	-2,645.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,000.00	0.00	0.00	7,000.00	-2,745.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,100.00	0.00	0.00	7,100.00	-2,845.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,200.00	0.00	0.00	7,200.00	-2,945.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,300.00	0.00	0.00	7,300.00	-3,045.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,400.00	0.00	0.00	7,400.00	-3,145.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,500.00	0.00	0.00	7,500.00	-3,245.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,600.00	0.00	0.00	7,600.00	-3,345.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,700.00	0.00	0.00	7,700.00	-3,445.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,800.00	0.00	0.00	7,800.00	-3,545.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,900.00	0.00	0.00	7,900.00	-3,645.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,000.00	0.00	0.00	8,000.00	-3,745.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 4254.20usft (Original Well Elev)
MD Reference: WELL @ 4254.20usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.00	0.00	0.00	8,100.00	-3,845.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,200.00	0.00	0.00	8,200.00	-3,945.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,300.00	0.00	0.00	8,300.00	-4,045.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,400.00	0.00	0.00	8,400.00	-4,145.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,500.00	0.00	0.00	8,500.00	-4,245.80	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,522.50	0.00	0.00	8,522.50	-4,268.30	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,525.00	0.30	89.52	8,525.00	-4,270.80	0.00	0.01	0.01	12.00	786,162.04	762,758.68
8,550.00	3.30	89.52	8,549.98	-4,295.78	0.01	0.79	0.79	12.00	786,162.05	762,759.46
8,575.00	6.30	89.52	8,574.89	-4,320.69	0.02	2.88	2.88	12.00	786,162.06	762,761.55
8,600.00	9.30	89.52	8,599.66	-4,345.46	0.05	6.28	6.28	12.00	786,162.09	762,764.95
8,625.00	12.30	89.52	8,624.21	-4,370.01	0.09	10.96	10.96	12.00	786,162.13	762,769.63
8,650.00	15.30	89.52	8,648.49	-4,394.29	0.14	16.92	16.92	12.00	786,162.18	762,775.59
8,675.00	18.30	89.52	8,672.42	-4,418.22	0.20	24.14	24.15	12.00	786,162.24	762,782.81
8,700.00	21.30	89.52	8,695.94	-4,441.74	0.27	32.61	32.61	12.00	786,162.31	762,791.28
8,725.00	24.30	89.52	8,718.98	-4,464.78	0.35	42.30	42.30	12.00	786,162.39	762,800.97
8,750.00	27.30	89.52	8,741.49	-4,487.29	0.45	53.18	53.18	12.00	786,162.49	762,811.85
8,775.00	30.30	89.52	8,763.40	-4,509.20	0.55	65.22	65.22	12.00	786,162.59	762,823.89
8,800.00	33.30	89.52	8,784.64	-4,530.44	0.66	78.39	78.39	12.00	786,162.70	762,837.06
8,825.00	36.30	89.52	8,805.17	-4,550.97	0.78	92.65	92.66	12.00	786,162.82	762,851.32
8,850.00	39.30	89.52	8,824.92	-4,570.72	0.90	107.97	107.98	12.00	786,162.94	762,866.64
8,875.00	42.30	89.52	8,843.84	-4,589.64	1.04	124.30	124.31	12.00	786,163.08	762,882.97
8,900.00	45.30	89.52	8,861.89	-4,607.69	1.19	141.60	141.61	12.00	786,163.23	762,900.27
8,925.00	48.30	89.52	8,879.00	-4,624.80	1.34	159.82	159.83	12.00	786,163.38	762,918.49
8,950.00	51.30	89.52	8,895.14	-4,640.94	1.50	178.92	178.92	12.00	786,163.54	762,937.59
8,975.00	54.30	89.52	8,910.25	-4,656.05	1.67	198.83	198.83	12.00	786,163.71	762,957.50
9,000.00	57.30	89.52	8,924.30	-4,670.10	1.84	219.50	219.51	12.00	786,163.88	762,978.17
9,025.00	60.30	89.52	8,937.25	-4,683.05	2.02	240.88	240.89	12.00	786,164.06	762,999.55



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,050.00	63.30	89.52	8,949.07	-4,694.87	2.20	262.91	262.92	12.00	786,164.24	763,021.58
9,075.00	66.30	89.52	8,959.71	-4,705.51	2.39	285.52	285.53	12.00	786,164.43	763,044.19
9,100.00	69.29	89.52	8,969.16	-4,714.96	2.59	308.67	308.68	12.00	786,164.63	763,067.34
9,125.00	72.29	89.52	8,977.38	-4,723.18	2.78	332.27	332.28	12.00	786,164.82	763,090.94
9,150.00	75.29	89.52	8,984.36	-4,730.16	2.98	356.27	356.29	12.00	786,165.02	763,114.94
9,175.00	78.29	89.52	8,990.07	-4,735.87	3.19	380.61	380.62	12.00	786,165.23	763,139.28
9,200.00	81.29	89.52	8,994.50	-4,740.30	3.39	405.21	405.22	12.00	786,165.43	763,163.88
9,225.00	84.29	89.52	8,997.63	-4,743.43	3.60	430.01	430.02	12.00	786,165.64	763,188.68
9,250.00	87.29	89.52	8,999.47	-4,745.27	3.81	454.94	454.95	12.00	786,165.85	763,213.61
9,272.56	90.00	89.52	9,000.00	-4,745.80	4.00	477.48	477.50	12.00	786,166.04	763,236.15
9,300.00	90.00	89.52	9,000.00	-4,745.80	4.23	504.93	504.94	0.00	786,166.27	763,263.60
9,400.00	90.00	89.52	9,000.00	-4,745.80	5.07	604.92	604.94	0.00	786,167.11	763,363.59
9,500.00	90.00	89.52	9,000.00	-4,745.80	5.91	704.92	704.94	0.00	786,167.95	763,463.59
9,600.00	90.00	89.52	9,000.00	-4,745.80	6.74	804.92	804.94	0.00	786,168.78	763,563.59
9,700.00	90.00	89.52	9,000.00	-4,745.80	7.58	904.91	904.94	0.00	786,169.62	763,663.58
9,800.00	90.00	89.52	9,000.00	-4,745.80	8.42	1,004.91	1,004.94	0.00	786,170.46	763,763.58
9,900.00	90.00	89.52	9,000.00	-4,745.80	9.26	1,104.91	1,104.94	0.00	786,171.30	763,863.58
10,000.00	90.00	89.52	9,000.00	-4,745.80	10.09	1,204.90	1,204.94	0.00	786,172.13	763,963.57
10,100.00	90.00	89.52	9,000.00	-4,745.80	10.93	1,304.90	1,304.94	0.00	786,172.97	764,063.57
10,200.00	90.00	89.52	9,000.00	-4,745.80	11.77	1,404.90	1,404.94	0.00	786,173.81	764,163.57
10,300.00	90.00	89.52	9,000.00	-4,745.80	12.61	1,504.89	1,504.94	0.00	786,174.65	764,263.56
10,400.00	90.00	89.52	9,000.00	-4,745.80	13.45	1,604.89	1,604.94	0.00	786,175.49	764,363.56
10,500.00	90.00	89.52	9,000.00	-4,745.80	14.28	1,704.88	1,704.94	0.00	786,176.32	764,463.55
10,600.00	90.00	89.52	9,000.00	-4,745.80	15.12	1,804.88	1,804.94	0.00	786,177.16	764,563.55
10,700.00	90.00	89.52	9,000.00	-4,745.80	15.96	1,904.88	1,904.94	0.00	786,178.00	764,663.55
10,800.00	90.00	89.52	9,000.00	-4,745.80	16.80	2,004.87	2,004.94	0.00	786,178.84	764,763.54
10,900.00	90.00	89.52	9,000.00	-4,745.80	17.63	2,104.87	2,104.94	0.00	786,179.67	764,863.54



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
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MD Reference: WELL @ 4254.20usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,000.00	90.00	89.52	9,000.00	-4,745.80	18.47	2,204.87	2,204.94	0.00	786,180.51	764,963.54
11,100.00	90.00	89.52	9,000.00	-4,745.80	19.31	2,304.86	2,304.94	0.00	786,181.35	765,063.53
11,200.00	90.00	89.52	9,000.00	-4,745.80	20.15	2,404.86	2,404.94	0.00	786,182.19	765,163.53
11,300.00	90.00	89.52	9,000.00	-4,745.80	20.99	2,504.86	2,504.94	0.00	786,183.03	765,263.53
11,400.00	90.00	89.52	9,000.00	-4,745.80	21.82	2,604.85	2,604.94	0.00	786,183.86	765,363.52
11,500.00	90.00	89.52	9,000.00	-4,745.80	22.66	2,704.85	2,704.94	0.00	786,184.70	765,463.52
11,600.00	90.00	89.52	9,000.00	-4,745.80	23.50	2,804.85	2,804.94	0.00	786,185.54	765,563.52
11,700.00	90.00	89.52	9,000.00	-4,745.80	24.34	2,904.84	2,904.94	0.00	786,186.38	765,663.51
11,800.00	90.00	89.52	9,000.00	-4,745.80	25.17	3,004.84	3,004.94	0.00	786,187.21	765,763.51
11,900.00	90.00	89.52	9,000.00	-4,745.80	26.01	3,104.84	3,104.94	0.00	786,188.05	765,863.51
12,000.00	90.00	89.52	9,000.00	-4,745.80	26.85	3,204.83	3,204.94	0.00	786,188.89	765,963.50
12,100.00	90.00	89.52	9,000.00	-4,745.80	27.69	3,304.83	3,304.94	0.00	786,189.73	766,063.50
12,200.00	90.00	89.52	9,000.00	-4,745.80	28.52	3,404.83	3,404.94	0.00	786,190.56	766,163.50
12,300.00	90.00	89.52	9,000.00	-4,745.80	29.36	3,504.82	3,504.94	0.00	786,191.40	766,263.49
12,400.00	90.00	89.52	9,000.00	-4,745.80	30.20	3,604.82	3,604.94	0.00	786,192.24	766,363.49
12,500.00	90.00	89.52	9,000.00	-4,745.80	31.04	3,704.81	3,704.94	0.00	786,193.08	766,463.48
12,600.00	90.00	89.52	9,000.00	-4,745.80	31.88	3,804.81	3,804.94	0.00	786,193.92	766,563.48
12,700.00	90.00	89.52	9,000.00	-4,745.80	32.71	3,904.81	3,904.94	0.00	786,194.75	766,663.48
12,800.00	90.00	89.52	9,000.00	-4,745.80	33.55	4,004.80	4,004.94	0.00	786,195.59	766,763.47
12,900.00	90.00	89.52	9,000.00	-4,745.80	34.39	4,104.80	4,104.94	0.00	786,196.43	766,863.47
13,000.00	90.00	89.52	9,000.00	-4,745.80	35.23	4,204.80	4,204.94	0.00	786,197.27	766,963.47
13,100.00	90.00	89.52	9,000.00	-4,745.80	36.06	4,304.79	4,304.94	0.00	786,198.10	767,063.46
13,200.00	90.00	89.52	9,000.00	-4,745.80	36.90	4,404.79	4,404.94	0.00	786,198.94	767,163.46
13,300.00	90.00	89.52	9,000.00	-4,745.80	37.74	4,504.79	4,504.94	0.00	786,199.78	767,263.46
13,400.00	90.00	89.52	9,000.00	-4,745.80	38.58	4,604.78	4,604.94	0.00	786,200.62	767,363.45
13,416.24	90.00	89.52	9,000.00	-4,745.80	38.71	4,621.02	4,621.18	0.00	786,200.75	767,379.69

PBHL(Lazy#1H)



Pathfinder
Pathfinder X & Y Planning Report



Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #1H
WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____



Azimuths to Grid North
True North: -0.40°
Magnetic North: 7.29°

Magnetic Field
Strength: 49224.1snT
Dip Angle: 61.07°
Date: 03/28/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Plan: Design #1 (#1H/OH)

WELL DETAILS: #1H

Ground Elevation: 4235.70
RKB Elevation: WELL @ 4254.20usft (Original Well Elev)
Rig Name: Original Well Elev

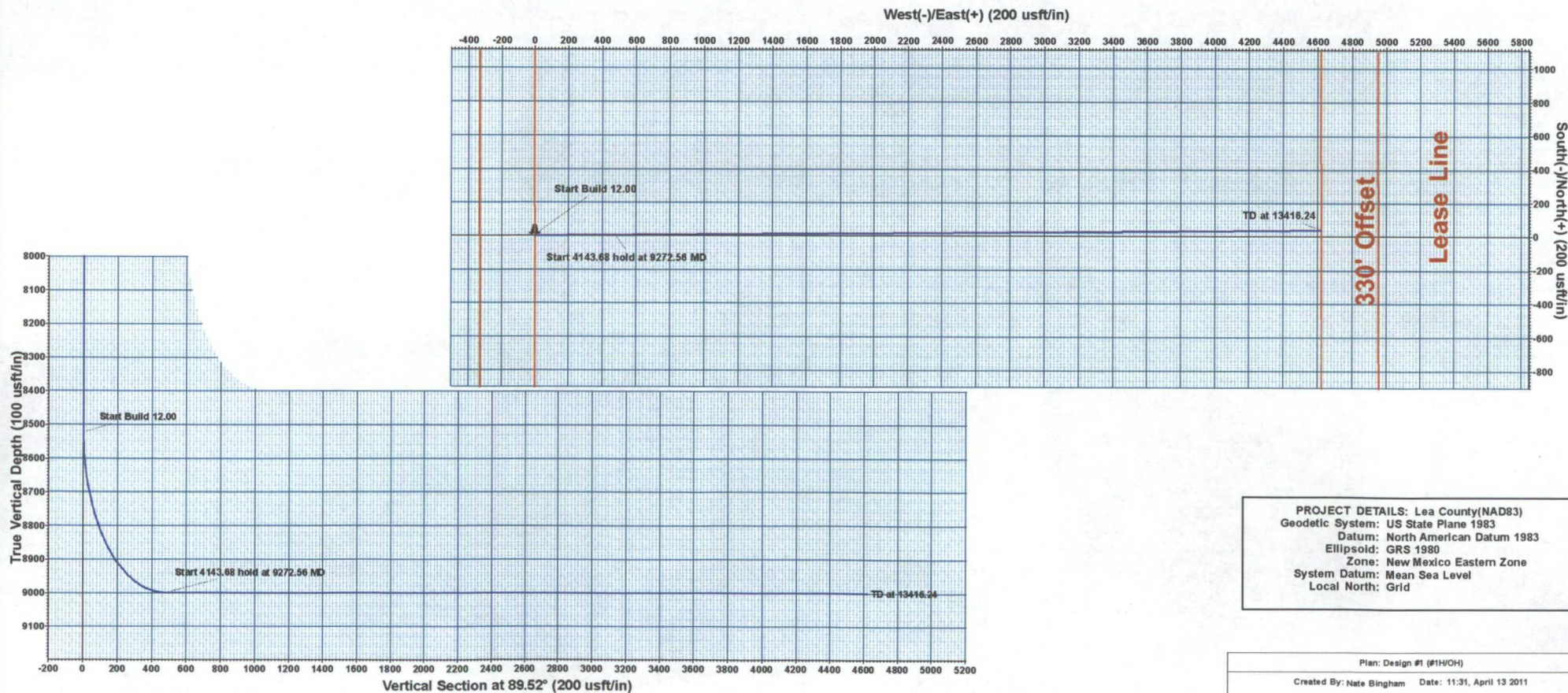
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	786162.040	762758.670	33° 9' 32.517 N	103° 36' 35.289 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(Lazy#1H)500.00		38.53	4621.02	786200.570	767379.690	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8522.50	0.00	0.00	8522.50	0.00	0.00	0.00	0.00	0.00	
9272.56	90.00	89.52	9000.00	4.00	477.48	12.00	89.52	477.50	
13416.24	90.00	89.52	9000.00	38.71	4621.02	0.00	0.00	4621.18	PBHL(Lazy#1H)



PROJECT DETAILS: Lea County(NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

Plan: Design #1 (#1H/OH)

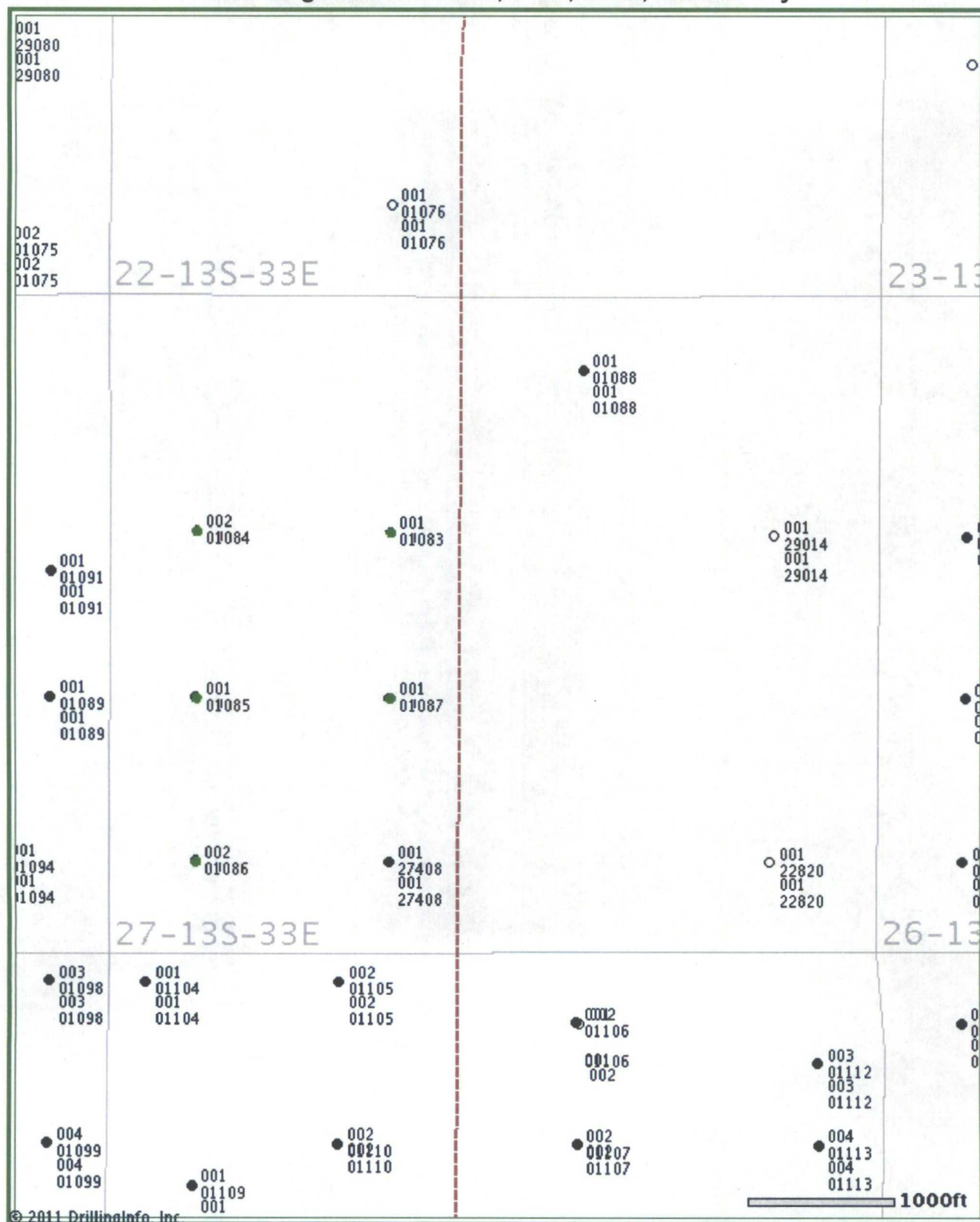
Created By: Nate Bingham Date: 11:31, April 13 2011

Checked: _____ Date: _____

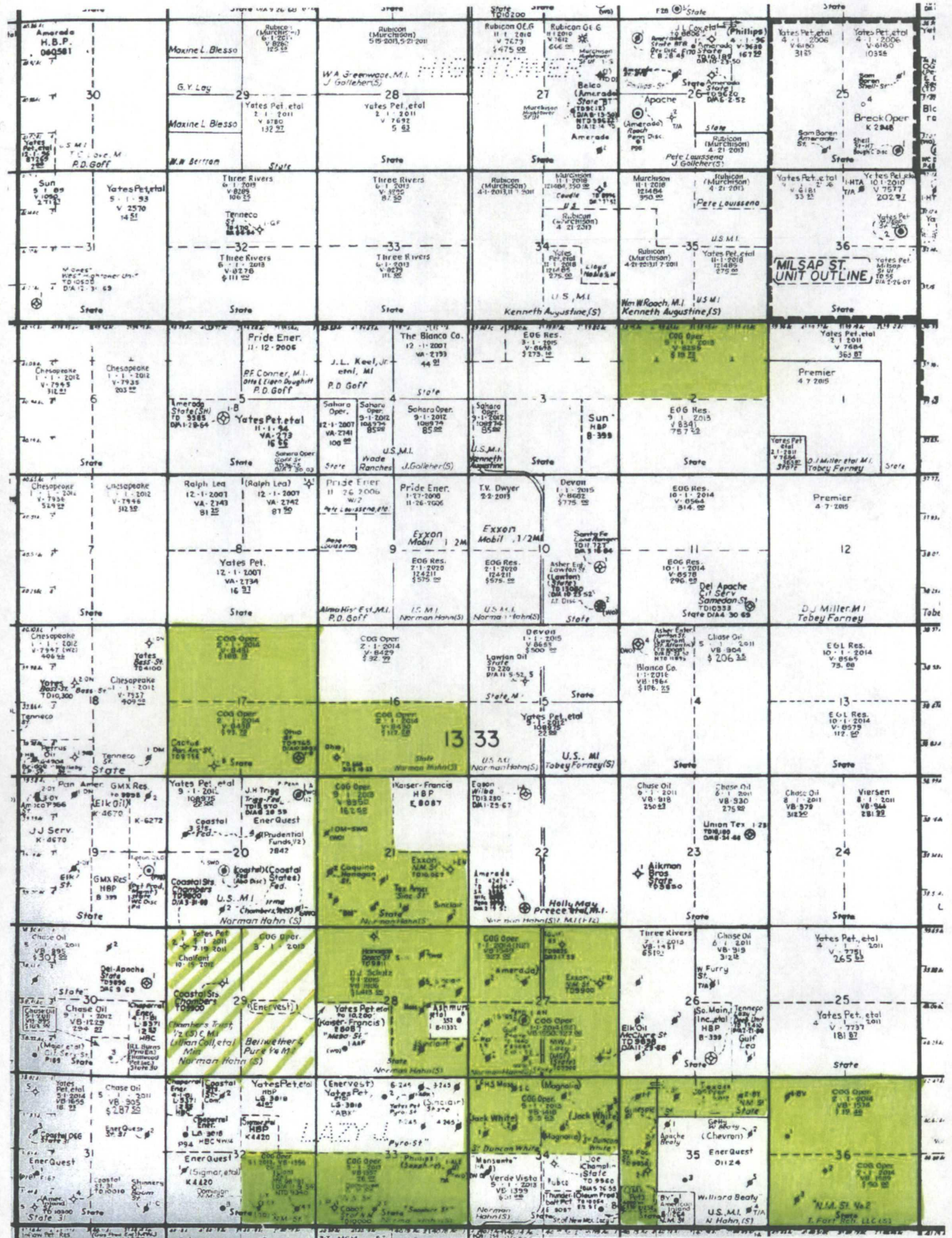
Producing Wells in Sec 27, T13S, R33E, LEA County

API#	Operator	Lease	Well#	County	Legal	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Avg. (BO/D)
30-025-01087	GULF OIL CORPORATION	LEA STATE AN	001	LEA	S:27, T:13S, R:33E	13,440	O	Active	Jan 1953	Jan 1957	0.03
30-025-01083	AMERADA PETROLEUM CORP	STATE SH A	001	LEA	S:27, T:13S, R:33E		O	Active	Dec 1952	Oct 1956	1.13
30-025-01085	GREAT WESTERN PRODUCERS, INC.	STATE	001	LEA	S:27, T:13S, R:33E	9,703	O	Active	Jul 1954	May 1955	1.65
30-025-01086	GREAT WESTERN PRODUCERS, INC	STATE	002	LEA	S:27, T:13S, R:33E	9,725	O	Active	Oct 1954	May 1955	2.45
30-025-01084	AMERADA PETR. CORP.	STATE SH A	002	LEA	S:27, T:13S, R:33E	9,760	O	Active	Apr 1953	Mar 1961	2.58

Producing Wells in Sec 27, T13S, R33E, LEA County



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MILSAP ST. UNIT OUTLINE

13 33

LAZY

**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

April 18, 2011

Samson Resources
2 West 2nd Street
Tulsa, OK 74103

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Wildcat; Abo oil well.

Lazy J "27" State #1H

LEA County, NM

SHL: 1310' FSL & 330' FWL Sec 27, T13S, R33E, Unit M
BHL: 1310' FSL & 330' FEL Sec 27, T13S, R33E, Unit P

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC

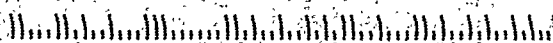


Kelly Holly
Permitting Tech

432-685-4384

kholly@conchoresources.com

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature <i>Jim Pfeiffer</i> ☒ Agent ☐ Addressee	
1. Article Addressed to: Samson Resources 2 West 2nd Street Tulsa, OK 74103		B. Received by (Printed Name): 	C. Date of Delivery APR 25 2011
		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
2. Article Number (Transfer from service label)		3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
		4. Restricted Delivery? (Extra Fee) ☐ Yes	
		91 7199 9991 7030 0517 3983	
PS Form 3811, February 2004		Domestic Return Receipt 102595-02-M-1540	

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COG Operating LLC 550 W Texas Suite 1300 Midland, TX 79701		
		

**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

April 18, 2011

Samson Resources
PO Drawer 10944
Midland, TX 79702

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Wildcat; Abo oil well.

Lazy J "27" State #1H

LEA County, NM

SHL: 1310' FSL & 330' FWL Sec 27, T13S, R33E, Unit M
BHL: 1310' FSL & 330' FEL Sec 27, T13S, R33E, Unit P

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may allow COG to produce from the unorthodox location after the well is drilled, if no objection has been made within the 20 days after the application has been received.

Sincerely,

COG Operating LLC



Kelly Holly
Permitting Tech

432-685-4384

kholly@conchoresources.com

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X <i>Thomas Land</i> ☐ Agent ☐ Addressee	
1. Article Addressed to: Samson Resources PO Drawer 10944 Midland, TX 79702		B. Received by (Printed Name) <i>Thomas Land</i>	C. Date of Delivery <i>04-25-11</i>
		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
		3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	
		91 7199 9991 7030 0517 3990	
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COG Operating LLC
550 W Texas, Suite 1300
Midland TX 79701

210



**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

June 1, 2011

Chevron
15 Smith Road
Midland, TX 79705

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Wildcat; Abo oil well.

Lazy J "27" State #1H

LEA County, NM

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Sincerely,

COG Operating LLC

Kelly Holly
Permitting Tech

432-685-4384

kholly@conchoresources.com

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■ Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A: Signature X <u>E. Sanchez</u> ☐ Agent ☐ Addressee	
1. Article Addressed to: Chevron 15 Smith Road Midland, TX 79705		B. Received by (Printed Name) _____ C. Date of Delivery <u>6-2-11</u>	
		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
		3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	
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COG Operating LLC
ATTN: KELLY HOLLY
550 W Texas Suite 1300
Midland, TX 79701

**COG OPERATING LLC
550 W. TEXAS, SUITE 1300
MIDLAND, TX 79701**

June 1, 2011

Three Rivers Acquisition LLC
1122 South Capital of Texas Hwy
Austin, TX 78746

Re: Request for Unorthodox Well Location

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for an unorthodox Wildcat; Abo oil well.

Lazy J "27" State #1H

LEA County, NM

SHL: 1310' FSL & 330' FWL Sec 27, T13S, R33E, Unit M
BHL: 1310' FSL & 330' FEL Sec 27, T13S, R33E, Unit P

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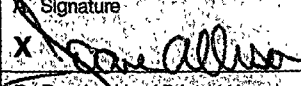
Sincerely,

COG Operating LLC

Kelly Holly
Permitting Tech

432-685-4384

kholly@conchoresources.com

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■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature  B. Received by (Printed Name) SEANNE ARKISOB C. Date of Delivery 6/6/11 D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: Three Rivers Acquisition LLC 1122 South Capital of Texas Hwy Austin, TX 78746		3. Service Type ☐ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	
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550 W Texas Suite 1300
Midland, TX 79701