

OPER. OGRID NO. 229137
PROPERTY NO. 34418
POOL CODE 97210
EFF. DATE 11/19/04
APINO. 30-025-369565. LEASE DESIGNATION AND SERIAL NO.
NM-96236-60777
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

APPLICANT

1A. TYPE OF WORK

DRILL ☒

B. TYPE OF WELL

OIL WELL ☒GAS WELL ☐OTHER ☐SINGLE ZONE ☒MULTIPLE ZONE ☐

2. NAME OF OPERATOR

COG OPERATING, LLC. (ERICK NELSON 432-685-4342)

3. ADDRESS AND TELEPHONE NO.

550 WEST TEXAS AVE. SUITE 1300 MIDLAND, TEXAS 79701 (432-685-4342)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2310' FNL & 330' FWL SECTIN 1 T21S-R32E LEA CO. NM

At proposed prod. zone SAME

Lot 5 R-111-P-POTASH

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

Approximately 45 miles Southwest of Hobbs New Mexico

13. DISTANCE FROM PROPOSED

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drg. unit line, if any)

330'

13. DISTANCE FROM PROPOSED LOCATION

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2000'

16. NO. OF ACRES IN LEASE

200

19. PROPOSED DEPTH

8500'

17. NO. OF ACRES ASSIGNED

TO THIS WELL

5000H

20. ROTARY OR CABLE TOOL

ROTARY

21. ELEVATIONS (Show whether DE, RT, GR, etc.)

CARLSBAD

3722' GR.

23. CONTROLLED WATER BASIN

PROPOSED CASING AND CEMENTING PROGRAM

See attachment to 600 Dpt. 1/4

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" H-40	48#	1550'	Circulate Cement To Surface WITH
12-1/4"	9-5/8" J-55	36 & 40#	3200'	500 Sx. circulate to surface WITH
8-3/4"	5" J-55	19 & 23#	5350'	500 Sx. Tie Back 200' into 9-5/8"
6-1/8"	5" N-80	17#	8500'	500 Sx. Est top of cement 5000'

1. Drill 25" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17 1/2" hole to 1550'. Run and set 1550' of 13 3/8" 48# H-40 ST&C casing. Cement with 800 Sx. of Class "C" cement + 2% CaCl₂, 1 1/2% Floccide/5x. circulate cement to surface.
3. Drill 12 1/4" hole to 3200'. Run and set 3200' of 9-5/8" 36 & 40# J-55 ST&C casing. Cement with 800 Sx. of Class "C" 50/50 POZ Light cement + additives, tie in with 200 Sx. of Class "C" cement + additives, circulate cement to surface.
5. Drill 8-3/4" hole to 5350'. Run and set 5350' of 7" 19 & 23# J-55 FJT casing. Cement with 600 Sx. of Class "H" Premium Plus cement + additives, estimate top of cement 5000' from surface or 500' above the upper most pay interval.
4. Drill 8-3/4" hole to 5350'. Run and set 5350' of 7" 19 & 23# J-55 FJT casing. Tie Back At Least 200' Into 9-5/8" casing.

Engineering OK: 09/21/2004: R.R.L.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Joe T. Gancia

TITLE Agent

DATE 09/12/04

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval 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.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

/s/ Linda S. C. Rundell

TITLE

STATE DIRECTOR

DATE

10 NOV 2004

APPROVAL FOR 1 YEAR

DISTRICT I
1025 N. FRANK DR., BOHNS, NM 88240

DISTRICT II
1304 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 and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36956	Pool Code 30214 97210	Pool Name HAT MESA-DELAWARE Southeast
Property Code 34418	Property Name MINIS "1" FEDERAL	Well Number 4
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3722'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	1	21-S	32-E		2310	NORTH	330	WEST	LEA

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

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

SCALE-1"=1000'

3713.4' 3720.5'
3718.1' 3725.4'

GEODETIC COORDINATES
NAD 27 NME
Y=621814.3 N
X=655163.7 E
LAT.=32°42'30.42" N
LONG.=103°49'43.98" W

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Joe T. Janica
Signature
Joe T. Janica
Printed Name
Agent
Title
09/12/04
Date

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.

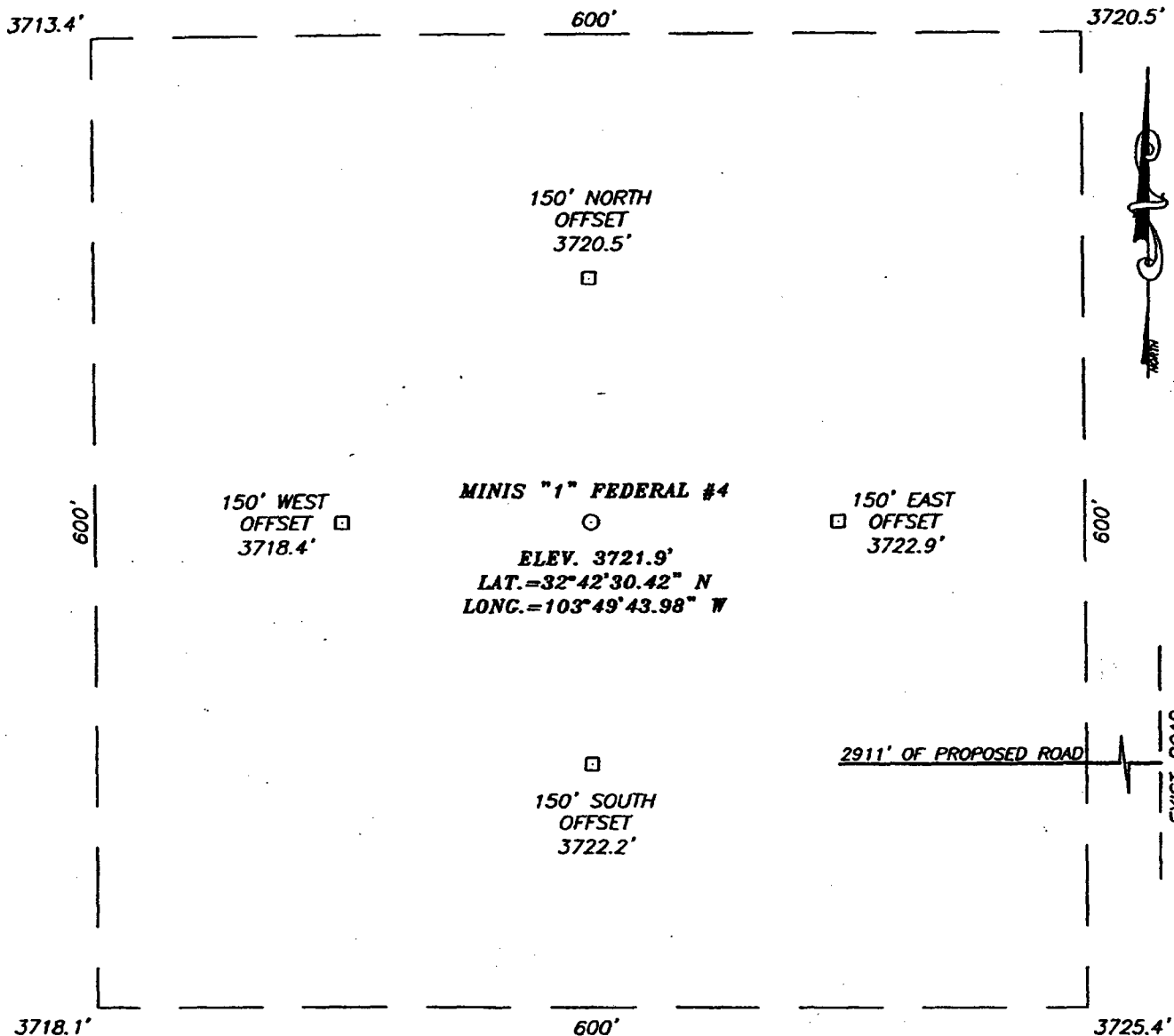
AUGUST 18, 2004

Date Surveyed
Signature & Seal of
Professional Surveyor
GARY EIDSON
8/27/04
04.11.1063

Certificate No. GARY EIDSON 12641

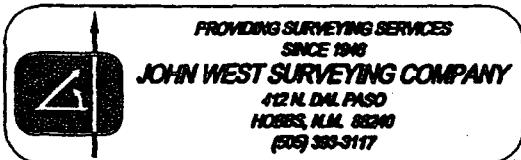
EXHIBIT "A"

SECTION 1, TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION U.S. HWY. 62-180 AND ST. HWY. #176, GO SOUTHEAST TO EAST ON ST. HWY. #176 APPROX. 6.3 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (SOUTH) AND GO APPROX. 0.4 MILES TO A PROPOSED ROAD SURVEY. FOLLOW PROPOSED ROAD SURVEY APPROX. 0.6 MILES TO PROPOSED LOCATION.



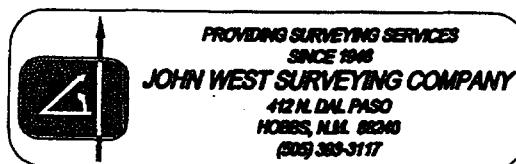
COG OPERATING, LLC

MINIS "1" FEDERAL #4 WELL
 LOCATED 2310 FEET FROM THE NORTH LINE
 AND 330 FEET FROM THE WEST LINE OF SECTION 1,
 TOWNSHIP 21 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

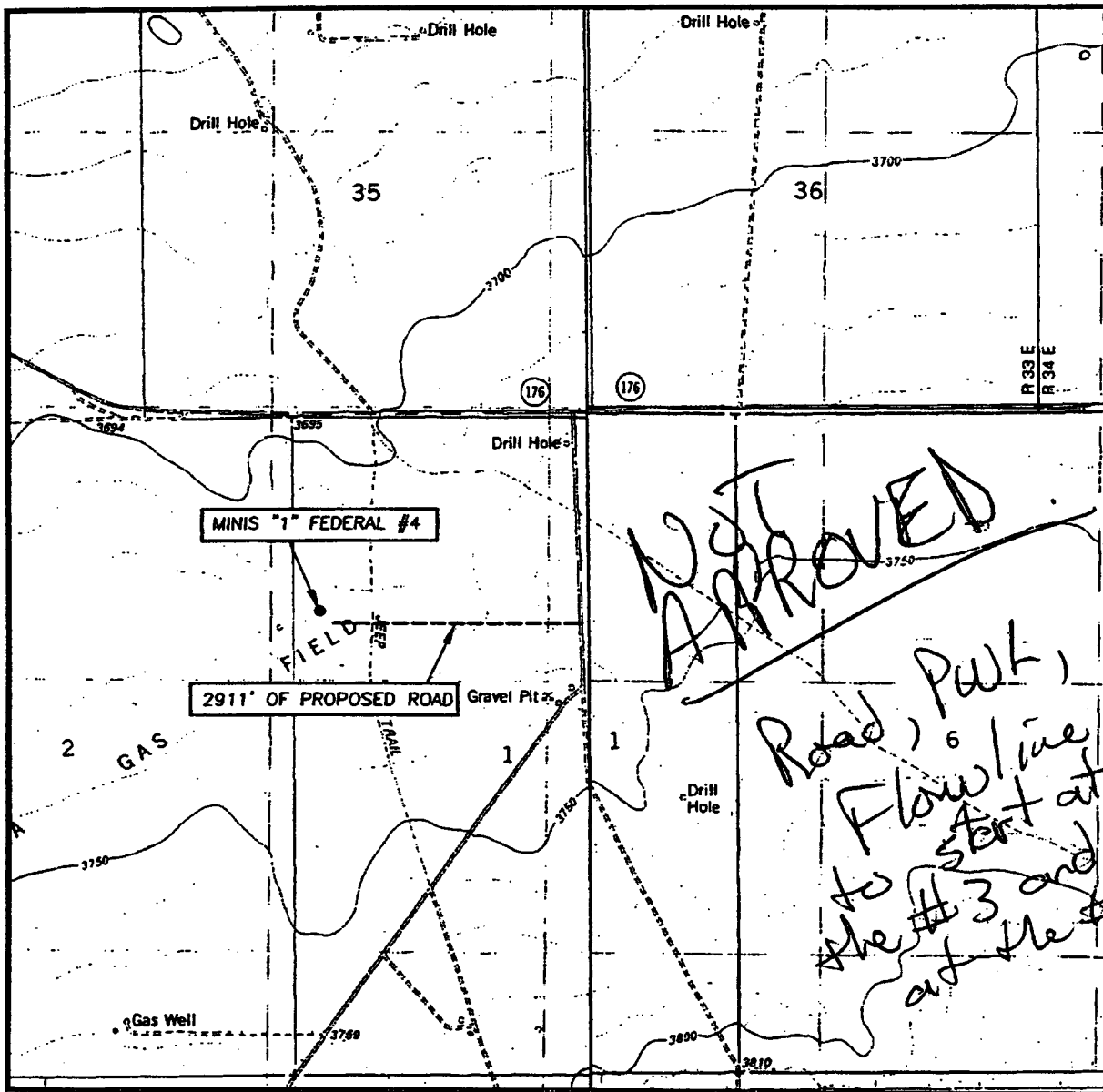
Survey Date: 08/18/04	Sheet 1 of 1 Sheets
W.O. Number: 04.11.1063	Dr By: J.R.
Date: 08/24/04	Disk: CD#10
04111063	Scale: 1"=100'

The map displays a grid of sections for the Minis "1" Federal #4 area. The top section shows a grid of sections 14 through 35, with a diagonal road labeled "ST. 176" and a road labeled "U.S. 62-180". The bottom section shows a grid of sections 1 through 35, with a road labeled "ST. 176" and a road labeled "ST. 176". The map also shows the locations of "LAGUNA GATUNA", "LAGUNA GOATHEAD", "CAMPBELL", and "BERRY RANCH". A box labeled "MINIS \"1\" FEDERAL #4" is located in the center of the map.

SEC. 1 TWP. 21-S RGE. 32-E
SURVEY _____ N.M.P.M. _____
COUNTY _____ LEA _____
DESCRIPTION 2310' FNL & 330' FWL
ELEVATION _____ 3722'
COG
OPERATOR _____ OPERATING, LLC
LEASE _____ MINIS "1" FEDERAL



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LAGUNA GATUNA, N.M. - 10'

SEC. 1 TWP. 21-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA

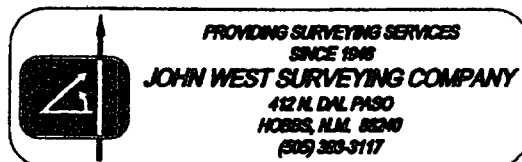
DESCRIPTION 2310' FNL & 330' FWL

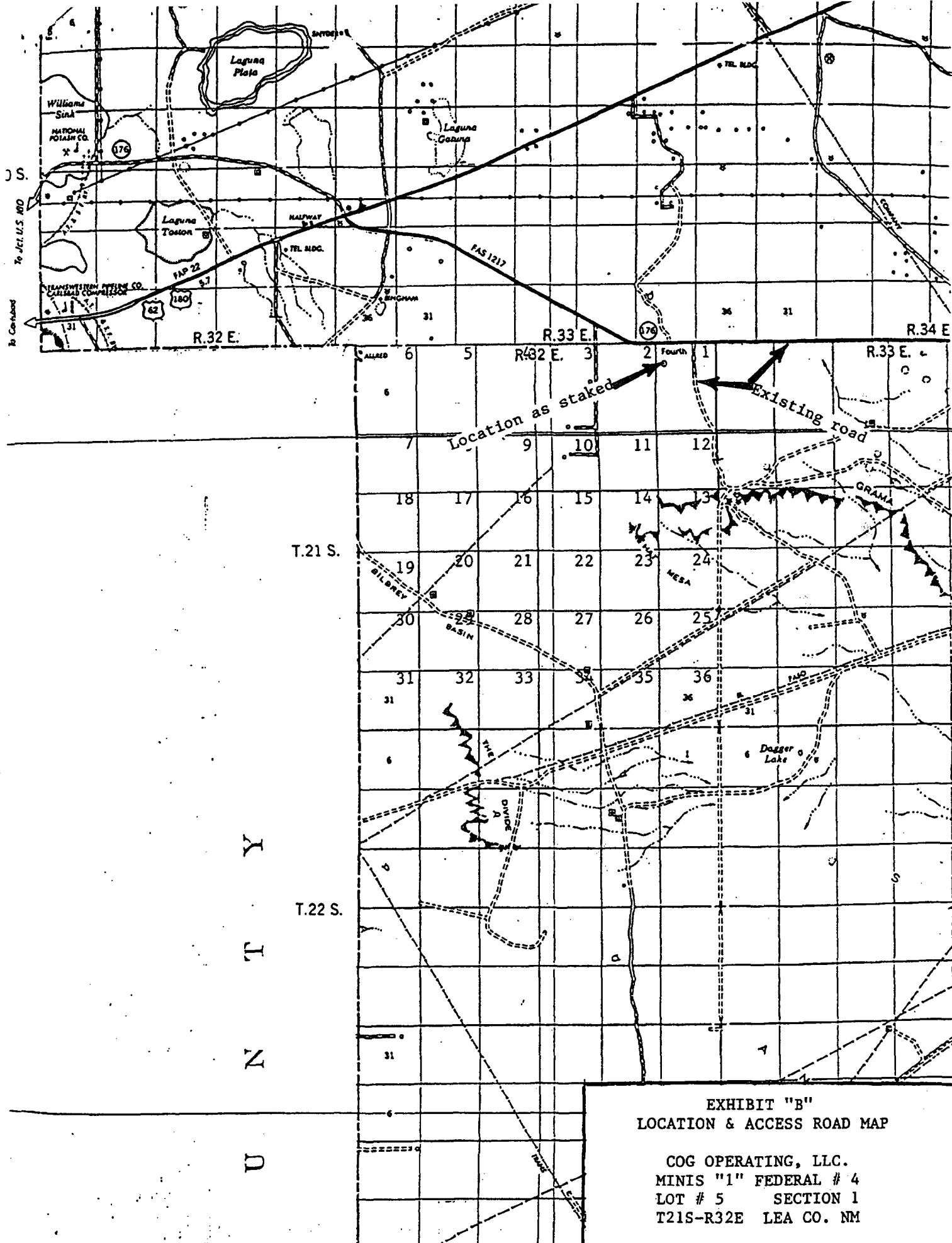
ELEVATION 3722'

OPERATOR COG OPERATING, LLC

LEASE MINIS "1" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
LAGUNA GATUNA, N.M.





New Mexico Oil Conservation Division, District I

1625 N. French Drive

Hobbs, NM 88240

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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		5. Lease Serial No. NM-60777
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 550 W. TEXAS AVENUE SUITE 1300 MIDLAND, TX 79701	3b. Phone No. (include area code) 432-683-7443	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2310' FNL & 330' FWL, Section 1, T-21S, R-32E		8. Well Name and No. MINIS "1" FEDERAL #4
		9. API Well No. 30-025-36956
		10. Field and Pool, or Exploratory Area HAT MESA DELAWARE
		11. County or Parish, State LEA COUNTY, 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 spud and set surface casing
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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.)

12-21-04 Spud 18-1/2" hole @ 1:30 AM 12/21/04

12-24-04 Drill to 1567'. Ran 37 joints of 16" 84# K-55 / N-80 casing set @ 1563'.
Cemented with: Lead 1100 sx 35 / 65 / 6 + 2% CaCl₂ + V4# sx CF + 3# sx
LCM-1. 12.4#, yield 2.02. Tail: 200 sx CI C + 2% CaCl₂. 14.8#, yield 1.34
561 sx to surface. Plug down @ 6:32 AM 12/24/04.

ACCEPTED FOR RECORD

JAN 4 2005

GARETH BURLEY
PETROLEUM ENGINEER

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

PHYLLIS A. EDWARDS

Title Regulatory Analyst

Signature

Phyllis A. Edwards

Date

12-27-04

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)

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

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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 AVENUE

3b. Phone No. (include area code)

SUITE 1300 MIDLAND, TX 79701

432-683-7443

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2310' FNL & 330' FWL, Section 1, T-21S, R-32E

5. Lease Serial No.

NM-60777

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

MINIS "1" FEDERAL #4

9. API Well No.

30-025-36956

10. Field and Pool, or Exploratory Area

HAT MESA DELAWARE

11. County or Parish, State

LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION				
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☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	SET
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		CASING
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

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12/30/04

Drilled 14-3/4" hole to 3218'. Ran 75 jts of 11.875" 71.8# HCP-110 casing set @ 3218'. Cemented with: Lead 820 sx 50 / 50 Poz C + 1-% Bentonite + 5% salt + 5# Gilsonite + .25# CF. 11.8#, 2.45 Yield. Tail 200 sx CI C + 2% CaCl2. 14.8#, 1.34 Yield. Circulated 155 sx to pit. Plug down @ 12:12 PM 12/30/04.

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

PHYLLIS A. EDWARDS

Title

Regulatory Analyst

Signature

Date

1-7-05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

GRIG, SGD) DAVID R. GLASS

Title

Date

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.

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 statement or representations as to any matter within its jurisdiction.

(Instructions on page 2) PETROLEUM ENGINEER

K25

New Mexico Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Form 3160-5
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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		5. Lease Serial No. NM-60777
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 550 W. TEXAS AVENUE SUITE 1300 MIDLAND TX 79701	3b. Phone No. (include area code) 432-683-7443	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2310' FNL & 330' FWL, Section 1, T-21S, R-32E		8. Well Name and No. MINIS "1" FEDERAL #4
		9. API Well No. 30-025-36956
		10. Field and Pool, or Exploratory Area HAT MESA DELAWARE
		11. County or Parish, State LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
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☐ 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	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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01/05/05 Drilled 10-5/8" hole to 5378'.

01/06/05 Ran 121 jts of 8-5/8" 32# J-55 casing set @ 5378'. Cemented with: 1st Lead: 200 sx H + 10% A-10 + 1/4# CF, 10# LCM1. 14.2#, Yield 1.61. 2nd Lead: 560 sx 50 / 50 C + 10% GE, 5% salt, 1/4# CF, 5# LCM1. 1.8#, Yield 2.45. Tail: 200 sx CI C, 1% CaCl2. Plug down @ 3:43 PM MST 1/6/05. WOC 12 hours. Ran temperature survey and found TOC at 2887'.

01/07/05 NU BOP's and test all BOP equipment.

JAN 2005
RECEIVED
Hobbs
OCD

JAN 24 2005

GARY GOURLEY
PETROLEUM ENGINEER

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

PHYLLIS A. EDWARDS

Title **Regulatory Analyst**

Signature

Phyllis A. Edwards

Date

1-20-05

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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Title

Date

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(Instructions on page 2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
1625 N. French Dr.
Hobbs, NM 88240

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

SUNDRY NOTICES AND REPORTS ON WELLS

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SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM-60777
2. Name of Operator COG OPERATING LLC		6. If Indian, Allottee or Tribe Name
3a. Address 580 W. TEXAS AVENUE SUITE 1300 MIDLAND, TX 79701	3b. Phone No. (include area code) 432-683-7443	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2310' FNL & 330' FWL, Section 1, T-21S, R-32E		8. Well Name and No. MINIS "1" FEDERAL #4
		9. API Well No. 30-025-36956
		10. Field and Pool, or Exploratory Area HAT MESA DELAWARE
		11. County or Parish, State LEA COUNTY, NM

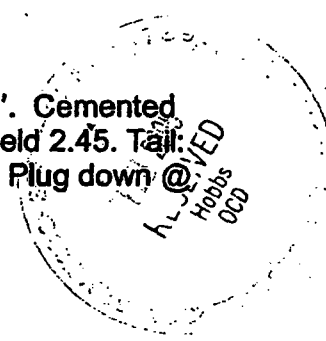
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☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other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

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 recomplete 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 recompletion 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.)

1-18-05 Drilled 7-7/8" hole to 8810' TD.

1-20-05 Ran 187 jts 5-1/2" 17# J-55 and N-80 csg set @ 8803'. Cemented with: Lead: 250 sx 50/50 Poz H + additives. 11.8#, Yield 2.45. Tail: 450 sx 50/50 Poz H Gel + additives. 14.2#, Yield 1.3. Plug down @ 12:20 PM 1/20/05. Rig Released @ 6 PM 1/20/05.



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) PHYLLIS A. EDWARDS		Title Regulatory Analyst
Signature <i>Phyllis A. Edwards</i>		Date 1-25-05
ACCEPTED FOR FEDERAL OR STATE OFFICE USE		
(ORIG. SGD.) DAVID R. GLASS		
Approved by	Title	Date
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.	Office	
Title 18 U.S.C. Section 1001 and Title 18 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)

GWW

DISTRICT I
1625 N. FRENCH DR., BOBBS, 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 and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-36956	Pool Code 97210	Pool Name HAT MESA-DELAWARE-6E
Property Code 34418	Property Name MINIS "1" FEDERAL	Well Number 4
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3722'

Surface Location

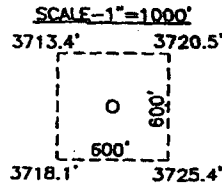
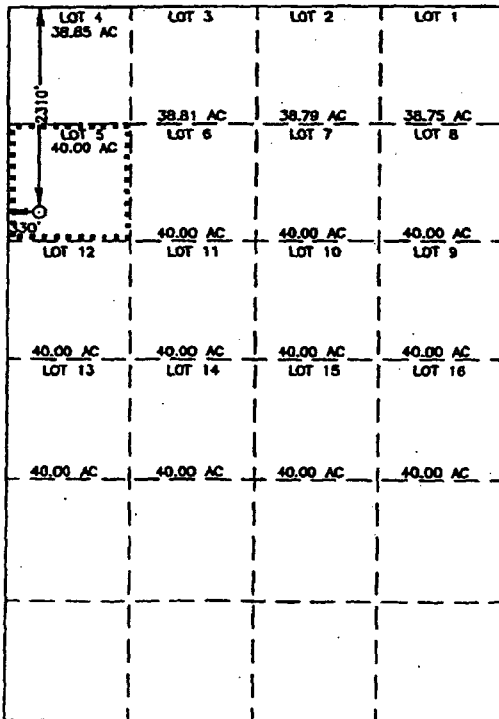
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
5	1	21-S	32-E		2310	NORTH	330	WEST	LEA

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

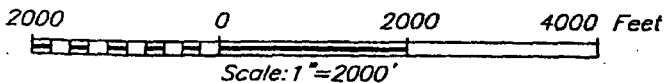
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



GEODETIC COORDINATES
NAD 27 NME

Y=621814.3 N
X=655163.7 E

LAT.=32°42'30.42" N
LONG.=103°49'43.98" W



OPERATOR CERTIFICATION

I hereby certify the the information
contained herein is true and complete to the
best of my knowledge and belief.

Signature

Joe T. Janica

Printed Name

Agent

Title

09/12/04

Date

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.

AUGUST 18, 2004

Date Surveyed

JR

Signature & Seal of
Professional Surveyor

GARY EIDSON

04.11.1063

04.11.1063

Certificate No. GARY EIDSON

12841

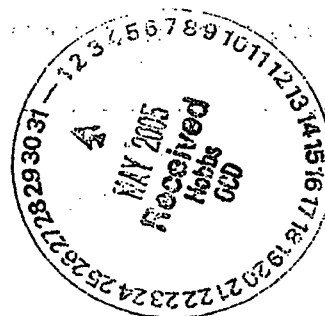
EXHIBIT "A"

OPERATOR COG OPERATING
WELL/LEASE MINIS FED #1
COUNTY LEA, NM

503-0256

STATE OF NEW MEXICO
DEVIATION REPORT

199	1/2	5,535	1/4
407	1/2	5,819	1/4
618	1/2	6,126	1/2
858	3/4	6,441	1/4
1,064	1/2	6,751	1/2
1,250	1 1/4	7,038	1
1,345	1/2	7,328	1
1,522	2 1/4	7,610	1 1/4
1,730	1	7,762	1/2
1,950	3/4	8,049	1
2,169	1/2	8,334	1
2,359	3/4	8,780	1
2,549	1		
2,769	2		
2,928	3 1/4		
3,027	3		
3,098	2 1/4		
3,188	3		
3,243	2 1/2		
3,364	3		
3,441	2 1/2		
3,491	1 3/4		
3,554	1 3/4		
3,618	1 1/4		
3,774	1		
4,089	3/4		
4,372	3/4		
4,688	3/4		
4,970	1/2		
5,159	1/2		
5,359	3/4		

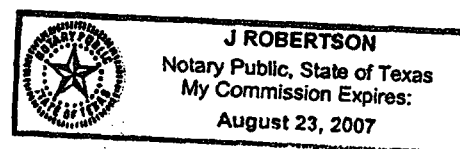


STATE OF TEXAS
COUNTY OF MIDLAND

BY: [Signature]

The foregoing instrument was acknowledged before me on January 31, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.

[Signature]
Notary Public for Midland County, Texas
My Commission Expires: 8/23/07



New Mexico Oil Conservation Division, District I

1625 N. French Drive

Hobbs, NM 88240

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

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 AVENUE

3b. Phone No. (include area code)

SUITE 1300 MIDLAND, TX 79701

432-683-7443

4. Location of Well (Postage, Sec., T., R., M., or Survey Description)

2310' PNL & 330' PNL
Lot 5, Section 1, T11S, R32E

5. Lease Serial No.

NM-60777

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

MINIS "1" FEDERAL #4

9. API Well No.

30-025-36956

10. Field and Pool, or Exploratory Area

HAT MESA DELAWARE SE

11. County or Parish, State

LEA COUNTY, 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 Completion
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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.)

- 02-01-05 Perf Bone Spring 8602' - 8612' w/ 2 JSPF. 10' - 21 total holes. RIH w/ tbg & pkr. Set pkr @ 8485'. Swab well.
- 02-03-05 Acidized perms 8602' - 8612' w/ 1200 gal 7-1/2% Petrol 10 acid carrying 30 BS. Good ball action & balled out.
- 02-04-05 Release pkr & POH w/ tbg & pkr.
- 02-05-05 Set CIBP @ 8560' 2/ 35' cmt on top. Perf Delaware 6652' - 6678' w/ 2 JSPF. 26' - 53 total holes. RIH w/ tbg & pkr. Pkr set @ 6658'. Swab well.
- 02-11-05 Frac Delaware perms 6652' - 6678' w/ 14,700 gal Clearfrac J533-40 fluid carrying 19,000# 20 / 40 Ottawa sand. Swab well.
- 02-15-05 Release pkr & POH w/ tbg & pkr.
- 02-16-05 RIH w/ pump & rods. WO pumping unit.
- 02-28-05 Set pumping unit. Turn to production.

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

Diane Kuykendall

Title

Regulatory Analyst

Signature

Date

5/26/05

ACCEPTED THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

DAVID E. CLARK

Title

Date

Conditions of approval, if any, 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.

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)

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other

b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____

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

3. Address: **550 W. Texas, Suite 1300**

3a. Phone No. (include area code): **432-685-4372**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface: **2310 FNL & 330 FWL**
At top prod. interval reported below: **2310 FNL & 330 FWL**
At total depth: **2310 FNL & 330 FWL**

5. Lease Serial No.: **NM-60777**

6. If Indian, Allottee or Tribe Name: _____

7. Unit or CA Agreement Name and No.: _____

8. Lease Name and Well No.: **Minis 1 Federal #4**

9. AFI Well No.: **30-025-36956**

10. Field and Pool, or Exploratory: **Hat Mesa; Delaware, SE**

11. Sec., T., R., M., on Block and Survey or Area: **See 1, T21S, R32E**

12. County or Parish: **Lea** 13. State: **NM**

14. Date Spudded: **12/31/2004** 15. Date T.D. Reached: **01/18/2005** 16. Date Completed: **02/28/2005**
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: **3722 (GL)**

18. Total Depth: MD **TVD 8780** 19. Plug Back T.D.: MD **TVD 8525** 20. Depth Bridge Plug Set: MD **TVD 8560**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each): **Gamma Ray, Micro-CFL / GR**

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 Filled
18-1/2	16	84	Surface	1563		1300 C		Surface	Circ 561x to pit
14-3/4	11-7/8	71.8	Surface	3218		1000 C		Surface	Circ 155x to pit
10-5/8	8-5/8	32	2887	5378		960 C		2887	0 Temp survey
7-7/8	5-1/2	17	2770	8803		700 C		2720	0 CBL

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	6635	none						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Bone Spring	8525		8602-8612	.41	21	Plugged
B) Delaware	5530		6652-6678	.41	53	Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
8602 - 8612	Acidize with 1200 gallons 7-1/2% Petrol 10 acid w/ 30 BS.
6652 - 6678	Frac with 14,700 gallons Clearfrac J533 - 40 fluid carrying 19,000# 20 / 40 Ottawa 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
02/28/2005	03/07/2005	24	→	105	74	69	37.3	37.3	PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64	SI 100	50	→				705		

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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

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

KB

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	Tvg. Press. Fwgs. 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	Tvg. Press. Fwgs. 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
T / RUSTLER	1525				
T / YATES	3230				
T / DELAWARE	5530				
T / BONE SPRING	8525				

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) Diane Kuykendall

Title Regulatory Analyst

Signature

Date 05/26/2005

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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
201 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

Form C-104
Revised June 10, 2003

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

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 - 025-36956		³ Reason for Filing Code/ Effective Date NW, effec 2/28/05
⁵ Pool Name Hat Mesa; Delaware, SE	⁶ Pool Code 97210	⁷ Well Number 004
⁸ Property Code 34418	⁹ Property Name Minis 1 Federal	

II. 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
5	1	21S	32E		2310	North	330	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 3-1-05	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
034053	Plains Marketing 10 Desta Dr., Ste 200E Midland, TX 79705		O	
36785	Duke Energy Field Services		G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
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V. Well Completion Data

²⁵ Spud Date 12/21/04	²⁶ Ready Date 2-28-05	²⁷ TD 8780	²⁸ PBDT 8525	²⁹ Perforations 6652-6678	³⁰ DHC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
18 1/2	16	1563	1300 sx		
14 1/4	11 7/8	3218	1000 sx		
10 5/8	8 5/8	5378	960 sx		
7 7/8	5 1/2	8803	700 sx		
	2 7/8 tbg	6635			

VI. Well Test Data

³⁵ Date New Oil 2-28-05	³⁶ Gas Delivery Date 3-1-05	³⁷ Test Date 3-7-05	³⁸ Test Length 24	³⁹ Tbg. Pressure 100	⁴⁰ Csg. Pressure 50
⁴¹ Choke Size 64/64	⁴² Oil 105	⁴³ Water 69	⁴⁴ Gas 74	⁴⁵ AOF	⁴⁶ Test Method Pumping

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: *Diane Kuykendall*

Printed name:
Diane Kuykendall

Title:
Regulatory Analyst

E-mail Address:
dkuykendall@conchoresources.com

Date: 5/26/05
Phone: 432-685-4372

OIL CONSERVATION DIVISION
Approved by: *[Signature]*
Title:
Approval Date: JUN 01 2005
PETROLEUM ENGINEER