

DISTRICT I

1220 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 and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37087	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 302483	Property Name ELECTRA FEDERAL	Well Number 41
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3695'

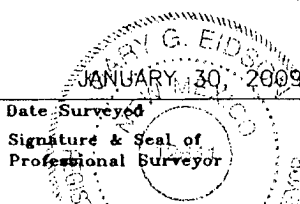
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	17-S	30-E		675	SOUTH	1175	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
M	10	17-S	30-E		383	SOUTH	984	WEST	EDDY
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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 SURFACE LOCATION Y=670778.2 N X=613422.8 E LAT.=32.843509° N LONG.=103.964027° W	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.  10/04/10 Signature Date Kanicia Carrillo Printed Name	
	GRID. AZ.=208°02'08" HORZ. DIST.=391.1'	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 Surveyed Signature & Seal of Professional Surveyor Gary Eidsen 2/5/09 08.11.1997	Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239
	BOTTOM HOLE LOCATION Y=670433.1 N X=613239.1 E		



30-015-37087

COG Operating LLC

Eddy County, NM (NAN27 NME)

Electra Federal #41

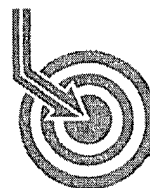
Electra Federal #41

OH

Design: Actual

Standard Survey Report

21 April, 2010



Scientific Drilling
Directional Drilling Operations



Scientific Drilling Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Site Electra Federal #41
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Site:	Electra Federal #41	MD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Well:	Electra Federal #41	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Project:	Eddy County, NM (NAN27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Electra Federal #41			
Site Position:		Northing:	670,778.18 ft	Latitude:	32° 50' 36.634 N
From:	Map	Easting:	613,422.80 ft	Longitude:	103° 57' 50.499 W
Position Uncertainty:	0.00 ft	Slot Radius:	0 "	Grid Convergence:	0.20 °

Well	Electra Federal #41					
Well Position	+N/-S	0.00 ft	Northing:	670,778.18 ft	Latitude:	32° 50' 36.634 N
	+E/-W	0.00 ft	Easting:	613,422.80 ft	Longitude:	103° 57' 50.499 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,695.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2010/04/16	7.94	60.74	49,092

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)	
	0.00	0.00	0.00	213.28	

Survey Program	Date:	2010/04/21		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	1,327.00	Gyro Survey (OH)	Keeper	Standard Wireline Keeper ver 1.0.2
1,401.00	4,481.00	MWD Survey (OH)	MWD	MWD - Standard

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.31	45.57	100.00	0.19	0.19	-0.26	0.31	0.31	0.00
200.00	0.19	31.38	200.00	0.52	0.47	-0.69	0.13	-0.12	-14.19
300.00	0.73	235.20	300.00	0.30	0.04	-0.27	0.91	0.54	-156.18
400.00	1.48	243.20	399.98	-0.65	-1.64	1.44	0.76	0.75	8.00
500.00	2.12	223.82	499.93	-2.56	-4.07	4.38	0.87	0.64	-19.38
600.00	2.05	223.91	599.86	-5.19	-6.59	7.96	0.07	-0.07	0.09
700.00	1.80	227.62	699.81	-7.53	-8.99	11.23	0.28	-0.25	3.71
800.00	1.21	225.12	799.77	-9.34	-10.90	13.79	0.59	-0.59	-2.50
900.00	0.58	203.72	899.76	-10.55	-11.86	15.32	0.70	-0.63	-21.40



Scientific Drilling

Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Site Electra Federal #41
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Site:	Electra Federal #41	MD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Well:	Electra Federal #41	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,000.00	0.66	118.29	999.75	-11.28	-11.55	15.77	0.84	0.08	-85.43
1,100.00	1.14	109.22	1,099.74	-11.88	-10.10	15.48	0.50	0.48	-9.07
1,200.00	1.23	109.87	1,199.72	-12.58	-8.16	14.99	0.09	0.09	0.65
1,300.00	1.16	115.22	1,299.70	-13.37	-6.23	14.60	0.13	-0.07	5.35
1,327.00	1.09	109.86	1,326.69	-13.58	-5.74	14.50	0.47	-0.26	-19.85
Gyro Tie-in									
1,401.00	1.14	115.91	1,400.68	-14.14	-4.42	14.24	0.17	0.07	8.18
1,465.00	1.05	153.44	1,464.67	-14.94	-3.58	14.46	1.11	-0.14	58.64
1,529.00	1.05	182.21	1,528.66	-16.05	-3.34	15.25	0.82	0.00	44.95
1,592.00	1.83	206.17	1,591.64	-17.53	-3.81	16.74	1.54	1.24	38.03
1,656.00	2.76	214.94	1,655.59	-19.71	-5.14	19.30	1.55	1.45	13.70
1,720.00	3.45	215.07	1,719.49	-22.55	-7.13	22.76	1.08	1.08	0.20
1,815.00	4.61	212.89	1,814.26	-28.09	-10.85	29.44	1.23	1.22	-2.29
1,847.00	5.50	214.30	1,846.13	-30.44	-12.41	32.26	2.81	2.78	4.41
1,943.00	6.81	216.65	1,941.58	-38.81	-18.40	42.54	1.39	1.36	2.45
2,006.00	7.16	215.22	2,004.11	-45.01	-22.89	50.19	0.62	0.56	-2.27
2,102.00	7.81	214.41	2,099.29	-55.28	-30.03	62.69	0.69	0.68	-0.84
2,166.00	8.50	213.60	2,162.64	-62.81	-35.11	71.77	1.09	1.08	-1.27
2,293.00	7.43	212.73	2,288.41	-77.53	-44.74	89.37	0.85	-0.84	-0.69
2,357.00	7.82	213.18	2,351.85	-84.66	-49.36	97.86	0.62	0.61	0.70
2,420.00	8.41	211.70	2,414.22	-92.17	-54.13	106.75	0.99	0.94	-2.35
2,484.00	8.20	212.47	2,477.55	-100.00	-59.04	115.99	0.37	-0.33	1.20
2,548.00	7.82	214.27	2,540.92	-107.45	-63.94	124.91	0.71	-0.59	2.81
2,611.00	7.42	212.55	2,603.37	-114.42	-68.54	133.26	0.73	-0.63	-2.73
2,707.00	8.27	211.28	2,698.47	-125.54	-75.46	146.36	0.90	0.89	-1.32
2,802.00	9.11	213.34	2,792.38	-137.67	-83.14	160.71	0.94	0.88	2.17
2,866.00	8.85	213.42	2,855.59	-146.01	-88.64	170.70	0.41	-0.41	0.13
2,930.00	8.68	214.60	2,918.84	-154.09	-94.09	180.45	0.39	-0.27	1.84
3,001.00	8.34	212.18	2,989.06	-162.86	-99.88	190.96	0.70	-0.48	-3.41
3,097.00	8.37	214.22	3,084.04	-174.53	-107.51	204.90	0.31	0.03	2.13
3,160.00	8.11	214.48	3,146.39	-181.99	-112.61	213.93	0.42	-0.41	0.41
3,320.00	7.54	220.91	3,304.91	-199.22	-125.87	235.62	0.65	-0.36	4.02
3,384.00	7.64	222.94	3,368.34	-205.51	-131.52	243.98	0.45	0.16	3.17
3,479.00	7.31	216.93	3,462.54	-214.97	-139.45	256.23	0.89	-0.35	-6.33
3,574.00	7.10	212.54	3,556.79	-224.75	-146.24	268.14	0.62	-0.22	-4.62
3,670.00	6.57	214.61	3,652.11	-234.27	-152.55	279.56	0.61	-0.55	2.16
3,734.00	6.61	213.60	3,715.68	-240.35	-156.67	286.90	0.19	0.06	-1.58
3,829.00	8.07	216.28	3,809.90	-250.28	-163.64	299.03	1.58	1.54	2.82
3,925.00	7.41	216.70	3,905.03	-260.68	-171.33	311.94	0.69	-0.69	0.44
3,989.00	7.50	215.57	3,968.49	-267.38	-176.23	320.23	0.27	0.14	-1.77
4,052.00	6.12	210.98	4,031.04	-273.61	-180.35	327.70	2.35	-2.19	-7.29
4,116.00	5.13	213.70	4,094.73	-278.91	-183.69	333.97	1.60	-1.55	4.25
4,180.00	4.08	212.90	4,158.53	-283.20	-186.52	339.10	1.64	-1.64	-1.25



Scientific Drilling
Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Site Electra Federal #41
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Site:	Electra Federal #41	MD Reference:	GL Elev. @ 3695.00ft (Silver Oak #5)
Well:	Electra Federal #41	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,244.00	3.10	212.26	4,222.40	-286.58	-188.68	343.11	1.53	-1.53	-1.00	
4,308.00	2.65	209.81	4,286.32	-289.33	-190.33	346.32	0.73	-0.70	-3.83	
4,371.00	1.61	198.07	4,349.27	-291.43	-191.33	348.63	1.78	-1.65	-18.63	
4,424.00	0.27	219.72	4,402.27	-292.24	-191.64	349.47	2.57	-2.53	40.85	
4,435.00	0.24	73.77	4,413.27	-292.25	-191.64	349.48	4.43	-0.27	-1,326.82	
MWD Survey										
4,481.00	0.24	73.77	4,459.27	-292.19	-191.45	349.33	0.00	0.00	0.00	
Projection to Bit										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,327.00	1,326.69	-13.58	-5.74	Gyro Tie-in	
4,435.00	4,413.27	-292.25	-191.64	MWD Survey	
4,481.00	4,459.27	-292.19	-191.45	Projection to Bit	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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.*5. Lease Serial No.
NMNM074935

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
ELECTRA FEDERAL 412. Name of Operator
COG OPERATING LLCContact: KANICIA CARRILLO
E-Mail: kcarrillo@conchoresources.com9. API Well No.
30-015-370873a. Address
550 WEST TEXAS AVE STE 1300
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-433210. Field and Pool, or Exploratory
LOCO HILLS; GLORIETA YESO *RS*

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

Sec 10 T17S R30E 675FNL 1175FWL
32.84351 N Lat, 103.96403 W Lon

11. County or Parish, and 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
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ 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 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.)

5/12/10 Test csg to 3,500psi for 30min, ok. Perf Lower Blinebry @ 5600 - 5800 w/ 1 SPF, 26 holes.
5/13/10 Acidize w/3,500 gals acid. Frac w/75,681 gals gel, 75,681# 16/30 White sand, 41,014# 16/30 Siberprop sand. Set comp plug @ 5545. Perf Middle Blinebry @ 5320 - 5520 w/1 SPF, 26 holes. Acidize w/3,500 gals acid. Frac w/ 136,808 gals gel, 183,867# 16/30 White sand, 33,762# 16/30 Siberprop sand. Set comp plug @ 5250. Perf Upper Blinebry @ 5020 - 5220 w/ 1 SPF, 26 holes. Acidize w/3,500 gals acid. Frac w/ 136,203 gals gel, 182,867# 16/30 White sand, 32,778# 16/30 Siberprop sand. Set comp plug @ 4845. Perf Paddock @ 4480 - 4790 w/1 SPF, 26 holes. Acidize w/2,500 gals acid. Frac w/ 125,876 gals gel, 155,138# 16/30 White sand, 23,250# 16/30 Siberprop sand.
5/15/10 Drill out plugs. Clean out to PBTD 5965.
5/16/10 RIH w/ 176jts 2-7/8" 6.5# J55 tbg, EOT @ 5759.
5/17/10 RIH w/ 2-1/2"x2-1/4"x24x28" pump. Hang on well.

RECEIVED

OCT 07 2010

NMOCD ARTESIA

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #93871 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad**

Name (Printed/Typed) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 10/04/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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 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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED *****14*

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. NMNM074935		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator COG OPERATING LLC			7. Unit or CA Agreement Name and No.		
Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com			8. Lease Name and Well No. ELECTRA FEDERAL 41		
3. Address 550 WEST TEXAS AVE STE 1300 MIDLAND, TX 79701			9. API Well No. 30-015-37084		
3a. Phone No. (include area code) Ph: 432-685-4332			10. Field and Pool, or Exploratory LOCO HILLS; GLORIETA, YESO <i>K2</i>		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot M 675FSL 1175FWL 32.84351 N Lat, 103.96403 W Lon At top prod interval reported below Lot M 675FSL 1175FWL 32.84351 N Lat, 103.96403 W Lon At total depth Lot M 383FSL 984FWL <i>984</i>			11. Sec., T., R., M., or Block and Survey or Arca Sec 10 T17S R30E Mer		
14. Date Spudded 04/13/2010			12. County or Parish EDDY		
15. Date T.D. Reached 04/23/2010			13. State NM		
16. Date Completed ☐ D & A ☒ Ready to Prod. 05/17/2010			17. Elevations (DF, KB, RT, GL)* 3695 GL		
18. Total Depth: MD 6028 TVD 6006			20. Depth Bridge Plug Set: MD TVD		
19. Plug Back T.D.: MD 6965 TVD 6943			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☐ No ☒ Yes (Submit analysis)		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUTRON					

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0	0	479		1200		0	0
11.000	8.625 J55	24.0	0	1355		500		0	0
7.875	5.500 J55	17.0	0	6028		950		0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5759							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4480	4790	4480 TO 4790	0.410	26	OPEN
B) BLINEBRY	5020	5220	5020 TO 5220	0.410	26	OPEN
C) BLINEBRY	5320	5520	5320 TO 5520	0.410	26	OPEN
D) BLINEBRY	5600	5800	5600 TO 5800	0.410	26	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze; Etc.

Depth Interval	Amount and Type of Material
4480 TO 4790	ACIDIZE W/2,500 GALS 15% ACID.
4480 TO 4790	FRAC W/125,876 GALS GEL, 155,138# 16/30 WHITE SAND, 23,250# 16/30 SIBERPROP SAND.
5020 TO 5220	ACIDIZE W/3,500 GALS 15% ACID.
5020 TO 5220	FRAC W/ 136,203 GALS GEL, 182,867# 16/30 WHITE SAND, 32,778# 16/30 SIBERPROP 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
05/29/2010	05/31/2010	24		187.0	319.0	372.0	38.9	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	70	70.0						POW	

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	
	SI								

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #93872 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

K20

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	1264		DOLOMITE & SAND	DOLOMITE & SAND	1264
QUEEN	2712		SAND	SAND	2172
SAN ANDRES	2895		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	2895
GLORIETA	4371		SAND & DOLOMITE	SAND & DOLOMITE	4371
YESO	4453		DOLOMITE & ANHYDRITE	DOLOMITE & ANHYDRITE	4453
TUBB	5901				

32. Additional remarks (include plugging procedure):

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

5320 - 5520 ACIDIZE W/3,500 GALS 15% ACID.

5320 - 5520 Frac w/ 136,808 gals gel, 183,867# 16/30 White sand, 33,762# 16/30 Siberprop sand.

5600 - 5800 ACIDIZE W/3,500 GALS 15% ACID.

5600 - 5800 FRAC W/75,681 gals gel, 75,681# 16/30 White sand, 41,014# 16/30 Siberprop

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

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

**Electronic Submission #93872 Verified by the BLM Well Information System.
 For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 10/04/2010

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****