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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 August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-31891	² Pool Code 96718	³ Pool Name Loco Hills;Glorieta-Yeso
⁴ Property Code 302504	⁵ Property Name Holder CB Federal	
⁷ OGRID No. 229137	⁸ Operator Name COG Operating LLC	⁶ Well Number 6
⁹ Elevation 3654		

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
E	17	17S	30E		2310	North	990	West	Eddy

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

¹² Dedicated Acres 40	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.

¹⁶ 				<p>¹⁷ OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>K C</i> 5/29/13 Signature Date</p> <p>Kanicia Castillo Printed Name</p> <p>kcastillo@concho.com E-mail Address</p>
				<p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyor:</p> <p>Certificate Number</p>

Holder CB Federal #6 Deepening Program

1. Estimated Tops of Important Geologic Markers

Yeso Group +/- 4275'

2. Estimated Depths of Anticipated Fresh Water, Oil, and Gas

Yeso Group +/- 4275'

This deepening originates in the Yeso and will finish at the base of the Yeso. The entire Yeso group is an oil and gas bearing interval.

3. Casing Program

Hole Size	Interval	OD Casing	Weight	Grade**	Jt./Condition	Burst/collapse/tension
4-3/4"	4837' - 5900'	4"	11.3#	L-80 or P-110	ULT-FJ/New	3.98/4.09/3.21 (L80) 5.47/5.23/4.25 (P110)

** Due to casing shortages, either L-80 or P-110 will be run. The exact grade is unknown at time of requesting permit.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 0.422" STAND OFF RULE BETWEEN CASING AND WELLBORE.

4. Cement Program

4" Liner: Class C, 125 sxs, yield 1.37. 100' minimum tie back to production casing.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE LINER TOP FLUID ENTRY OR PRESSURE TEST BECAUSE THE DEEPENED WELL WILL BE COMPLETED IN THE SAME ZONE AS THE CURRENT PERFS AND THE ENTIRE INTERVAL IS RECOGNIZED BY THE OCD AS ONE INTERVAL (YESO). AS PER ONSHORE ORDER NO. 2 SECT III: REQUIREMENTS, PART B. CASING AND CEMENTING REQUIREMENTS, SUBPART b. "NO TEST SHALL BE REQUIRED FOR LINERS THAT DO NOT INCORPORATE OR NEED A SEAL MECHANISM." COG BELIEVES WE MEET THE CRITERIA TO NOT BE REQUIRED TESTING THE LINER TOP BECAUSE THERE IS NO NEED FOR A SEAL MECHANISM.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 200' MINIMUM TIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 4635'. THE 100' WILL ALLOW US TO NOT COVER EXISTING PERFORATIONS.

5. Minimum Specifications for Pressure Control

The BOP equipment will be a 3000 psi double ram type manually operated preventer. This equipment will be nipple up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. There is no choke or kill manifold. The BOP is tested to 500 psi prior to drilling new formation. Access to the annulus will be through the valves on the 5-1/2" casing head.

6. Types and Characteristics of the Proposed Mud System

This well will drilled from end of the existing 5-1/2" casing to TD with 2% KCl.

7. Auxillary Well Control and Monitoring Equipment

- A. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

8. Logging, Testing, and Coring Program

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 5-1/2" production casing shoe.
- B. No drill stem tests.
- C. No conventional coring anticipated.
- D. Further testing procedures will be determined after the 4" liner has been cemented at TD, based on drill shows and log evaluation.

9. Abnormal Conditions, Pressure, Temperatures, and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottomhole temperature at TD is 110 degrees and the estimated maximum bottomhole pressure is 2300 psig. The drilling starts in the Yeso and ends in the Yeso. The section of Yeso being drilled has very low permeability (less than 1 md).

10. Anticipated Starting Date and Duration of Operations

There will be no road or location work required as this is an existing well location. Once commenced, drilling operations should be finished in approximately 14 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made.

11. Centralizer Program

Fixed blade stabilizer subs will be utilized in the casing string to insure adequate isolation and seal throughout the wellbore. These stabilizer subs are positive fixed blade type. These subs will actually be screwed into the casing string. A diagram of the fixed blade stabilizer sub is located at the end of this program.

The standard location of the stabilizers will be the following:

Shoe Location

Guide shoe, 1 jt casing, float collar, stabilizer sub.

Perf Interval Location – between perf intervals

Above the first set of perforations, the Lower Blinebry, we will set 1 stabilizer sub.

Top of Liner Location

We will set on stabilizer sub 1 jt under the DV-tool.

12. Summary Drilling and Completion Program

Deepening Procedure

1. MIRU rig.
2. LD production equipment
3. Sqz Paddock w/ +/- 600sx of Class C neat.
4. Sqz San Andres with +/- 1200 sx of Class C cmt.
5. Drill out squeeze. Test squeeze to 500 psi for 20 minutes using chart recorder.
6. PU 4-3/4" bit and drill 4-3/4" from 4837' to 5900'.
7. POOH w/ bit and drillstring.
8. RIH w/ logs and log from TD to 4500'.
9. RIH w/ 4", 11.3# casing. See next attachment for general centralizer program.
10. Cement casing from TD to 4738' w/ 125 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
11. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
12. RDMO rig.

Completion Procedure

1. MIRU rig.
2. RIH w/ perforating guns and perforate Yeso from 5420'-5620' with 26 holes @ 1 spf.
3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5370'.
4. RIH w/ perforating guns and perforate Yeso from 5120' - 5320'.
5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5070'.
6. RIH w/ perforating guns and perforate Yeso from 4820 - 5020'.
7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand.
8. RIH and drill out plugs at 5070' and 5370'.
9. RIH and cut or back off 4" casing at 4738'. POOH w/ 4" casing. Leave 4" liner from 4738' to 5900' (TD).
10. RIH w/ tbg and locate end of tbg at 4700'.
11. RIH w/ rods and pump.
12. RDMO rig.

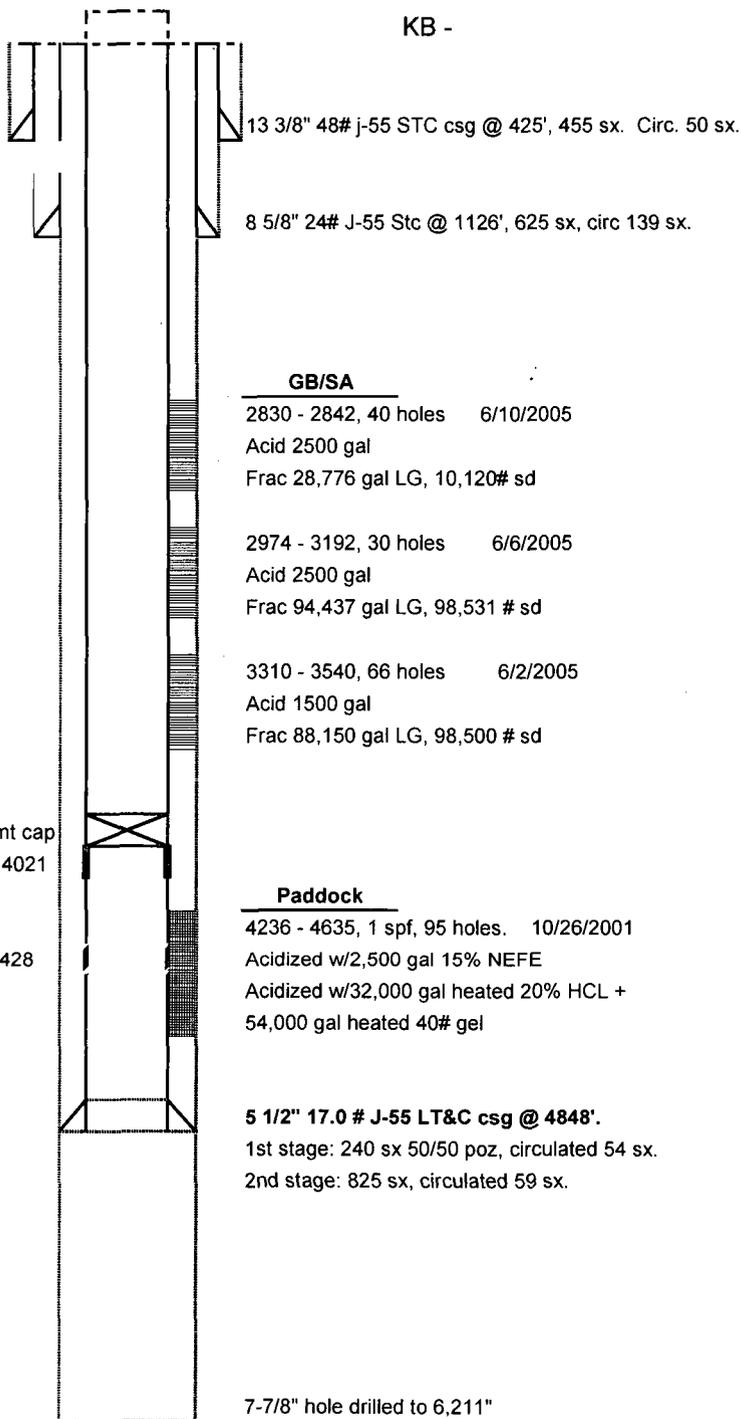
COG OPERATING, LLC

Lease & Well #

Holder CB Federal #6
 Eddy County, NM
 Sec 17 T17S R30E 2310 FNL & 990 FWL

Spud - 9/7/2001
 Elevation - 3654

KB -



CIBP @ 3950 w/35' cmt cap
 DV tool - 4021

Marker jt @ 4428

PBTD - 4837'

GB/SA

2830 - 2842, 40 holes 6/10/2005
 Acid 2500 gal
 Frac 28,776 gal LG, 10,120# sd

2974 - 3192, 30 holes 6/6/2005
 Acid 2500 gal
 Frac 94,437 gal LG, 98,531 # sd

3310 - 3540, 66 holes 6/2/2005
 Acid 1500 gal
 Frac 88,150 gal LG, 98,500 # sd

Paddock

4236 - 4635, 1 spf, 95 holes. 10/26/2001
 Acidized w/2,500 gal 15% NEFE
 Acidized w/32,000 gal heated 20% HCL +
 54,000 gal heated 40# gel

5 1/2" 17.0 # J-55 LT&C csg @ 4848'.

1st stage: 240 sx 50/50 poz, circulated 54 sx.
 2nd stage: 825 sx, circulated 59 sx.

7-7/8" hole drilled to 6,211"