DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-33472	96718	Loco Hills;Glorieta-Yeso

Property Code	Property Name	Well Number
302510	JENKINS B FEDERAL	15H

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3639'

Surface Location

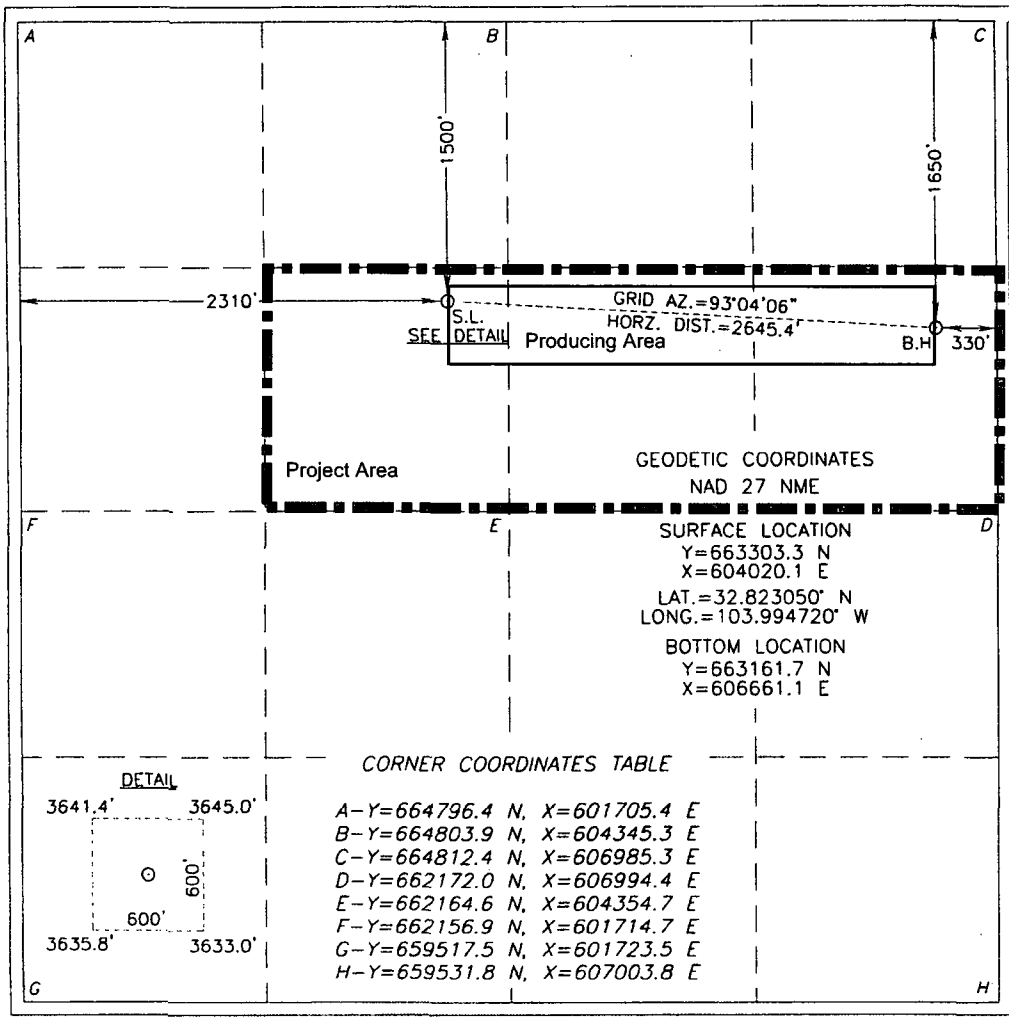
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	20	17-S	30-E		1500	NORTH	2310	WEST	EDDY

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
H	20	17-S	30-E		1650	NORTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
140			

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



OPERATOR CERTIFICATION

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

5/31/13
Signature Date

Kanicia Castillo
Printed Name

kcastillo@concho.com
E-mail Address

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.

SEPTEMBER 16, 2002
Date of Survey

Signature & Seal of Professional Surveyor:

RONALD J. EIDSON
NEW MEXICO
3239
REGISTERED PROFESSIONAL SURVEYOR

Ronald J. Eidson 05/20/2013

Certificate Number: Gary L. Eidson 12641
Ronald J. Eidson 3239

DSR Rel. W.O.#02[illegible] WSC W.O.: 13.13.0548

JENKINS B FEDERAL COM #15H LATERAL PROGRAM

1. Estimated Tops of Important Geologic Markers

Glorieta - 4200'
Paddock - 4250'
Blinebry - 4800'

2. Estimated Depths of Anticipated Fresh Water, 130'.

This deepening originates in the Yeso and will finish in 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"	4919'–7767'	4"	11.6#	L-80	ULTFJ/New	3.98/4.09/3.21 (L80)

4. Cement Program

4" Liner: 50 Sacks Solucem H, 15.oppg, 2.6 yield, 15% excess.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE LINER TOP FLUID ENTRY OR PRESSURE TEST BECAUSE THE NEW LATERAL 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 BOTTOM LATERAL IS PRODUCTIVE FROM THE YESO BELOW THIS PROPOSED LATERAL, COG DESIRES TO NOT COVER THAT OR MAKE IT INACCESSIBLE WITH A LINER OVERLAP.

5. Minimum Specifications for Pressure Control

The BOP equipment will be a 2000 psi double ram type hydraulically operated preventer. This equipment will be nippled up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. The BOP is tested to 2000 psi prior to drilling new formation. Access to the annulus will be through the valves on the 7-1/16" casing head.

6. Types and Characteristics of the Proposed Mud System

This well will drilled below the 5-1/2" casing to TD with FW/CBW drilling mud.

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 MWD GR, which will be run from TD to 5-1/2" production casing TD.
B. No drill stem tests.

C. No conventional coring anticipated.
D. Further testing procedures will be determined after the 4" casing has been run to 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 98 degrees and the estimated maximum bottomhole pressure is 1800 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 20 days. If the well is productive, an additional 30-90 days will be required for completion and testing before a decision is made to remove the whipstock and RBP separating the laterals, to commingle the production from the two laterals.

11. Centralizer Program

Centralizers will not be run or required due to the lack of cement and the centralizing nature of the external casing packers.

12. Summary Drilling and Completion Program

Prep Work

1) Test anchors, replace as required. One-call and set anchors for Horizontal rig. MIRU WSU.
2) Release pkr and TOOH w/ pkr and tbg (tally). LD
3) Move/tally 2 7/8" 6.55# L80 workstring.
4) PU 4 3/4" bit, casing scraper and WS
5) TIH to PBTD
6) TOOH standing back WS. LD bit and casing scraper
7) PU CICR and RIH to +/- 4,210'
8) Pump through retainer
9) Set retainer and sting out of
10) Ensure well will circulate
11) Sting back into retainer, load back side and pressure to 500 psi; monitor during squeeze.
12) Pump 300 sxs Class C w/ 3% CaCL2 + 5# gilsonite followed by 300 sx Class C neat
13) After squeeze is obtained, sting out of retainer and reverse out tubing
14) Sting out of retainer TOOH
15) WOC at least 12 hrs
16) PU 4 3/4" roller cone and (6) 3 1/2" DC
17) DO squeeze cement. Drill out floats and cement to 4914' (5' from end of casing at 4919'). C&C clean.
18) TOOH. LD bit and DC.
19) Run CCL/Gamma Ray/Gyro
20) RDMO

At this time, pumping unit, POC, chemical tanks, flowline/inj line (flushed to battery) will need to be moved out of the way. Any caliche work needed will also be done at this time.

Drilling

1) MIRU Key #115 workover rig & horizontal package. NU hydraulic 6" 5M double BOP w/2-7/8" pipe rams on top & blind rams on bottom. Wellhead has 6" 600 series Larkin connection, needs R45/R46 combination ring gasket and adaptor flange. Move in and rig up pumps, power swivel, frac tanks, generators, pipe racks, and other equipment. Use outside tester to test BOP; use rig pump to test casing to 500 psi for 30 minutes, close blind rams in BOP and test BOP above rams to 1000/200 psi for 30 minutes and document on report.
2) PBTD is @ 4,914'. PU & TIH w/4-3/4" bit on rental 2-7/8" 10.4# E or S135 drill pipe (2-7/8" AOH) tag PBTD. TOH. (Note: Strap drill pipe carefully and check measurements with wireline setting depth, ADJUST DRILL PIPE MEASUREMENT TO MATCH PBTD DEPTH, REPORT TD AS PBTD DEPTH.) Verify that the fisherman, directional driller, driller, Pason, geolograph, Gyro operator, production engineer and wellsite drilling supervisor are all using the same depth reference corrected to PBTD and wireline tag depth.

3) PU 4-3/4" tri-cone bit, downhole motor, muleshoe (UBHO sub), (2) monel drill collars (Install MWD probe inside NMDC and obtain offset), XO flow sub, & muleshoe sub f/gyro on workstring. Surface test motor and MWD. TIH to btm filling pipe as necessary.

4) PU swivel and establish circulation (130 gpm). RU Gyro. Time drill away from casing using continuous readout gyro for checking well path and tool face. Magnetic interference may occur, particularly while motor is in the casing. If necessary, use gyro single shots for drilling away from casing. Once MWD readouts can function without magnetic influence from casing, RD Gyro & drill remaining curve at 164 GPM to EOC (±5,443' MD 5,260' TVD) using MWD.
5) Build curve at 17.85°/100' BUR to planned inclination of 90.0° and azimuth (after gyro correction) of 93.07°. Survey as needed to ensure curve is built according to plan. Sweep hole with high viscosity polymer pills (if needed) for good hole cleaning. Sweep hole at least once per day.

6) At EOC, TOH. PU & TIH w/4-3/4" **PDC** bit, downhole motor, muleshoe (UBHO sub), (2) monel drill collars (Install MWD probe inside NMDC and obtain offset) & XO flow sub on workstring. TIH very carefully with bit through the casing to prevent bit damage. Ream curve as necessary to remove any severe "kinks" or doglegs.

7) Drill the lateral section with the angle hold motor in the oriented and rotary mode as necessary. At TD, circ hole clean. TOH, LD DP and tools.

8) Rack/Tally 7,800' 4" 11.6# L-80 ULTFJ

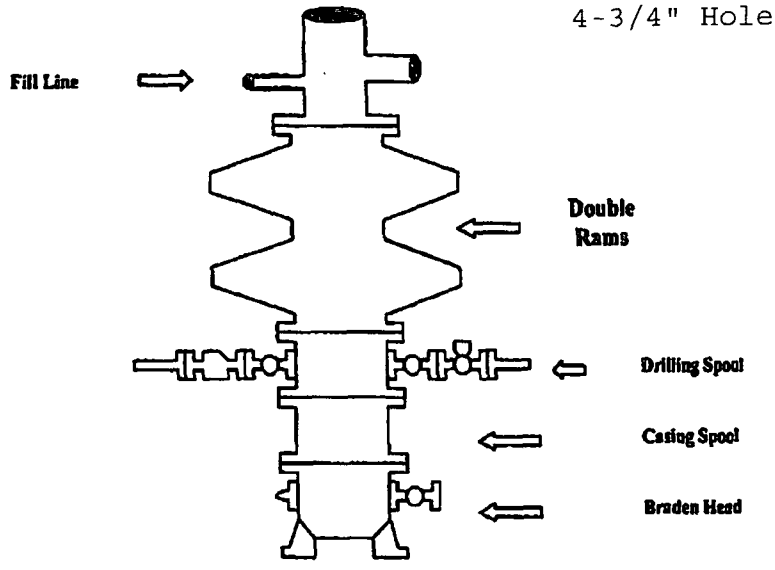
9) RIH w/ 4" casing and float equipment
10) Pump gel sweeps & circulate 2x casing capacity
11) DV tool setting depth +/- 4819'
12) Cement w/ 20 bbls FW spacer, Lead: (50 sxs) Solucem H 15.0 ppg / 2.6 yld
13) Displace w/ 89 bbls FW
14) After landing plug, check floats, drop DV bomb, wait 20 min, open DV tool, circulate cement off DV tool with fresh water, shut down/check for flow up annulus, drop closing plug, displace to DV tool and close DV tool, shut in annulus.
15) RD drilling rig
16) MIRU WSU
17) Unload and tally 7,850' of 2 3/8" PH6 WS
18) RIH to DO DV tool
19) DO DV tool w/ 3.25" tri-cone bit w/ gauge protection and (6) DC
20) Work through DV tool multiple times
21) TOOH and LD bit and DC
22) PU 3.25" stringmill and RIH to dress DV tool. Work through at least 12 times
23) TOOH. LD stringmill
24) PU 3.25" junk bit and RIH to PBTD to ensure casing is clear
25) Spot 500 gal 15% HCL at toe
26) TOOH, LD 3.25" junk bit
27) PU slimhole guns
28) TIH to perf first stage per design, pressure casing to 4000#
29) Perf 1st stage, Open toe w/ 3000 gal 15% HCL
30) TOOH LD WS and guns
31) ND BOPE, NU WH frac valve
32) RDMO WSU

Completion

1) RU frac valve. Frac as per Completion Engineer's design. Treat via plug and perf.
2) Rig down frac company.
3) After frac, rig up PU for cleanout
4) RDMO
5) Flow well back until fluid recovery reduces to 10 barrel/hour
6) Rig up Pulling unit.
7) NU BOPE.
8) Free point 4" and back off at DV tool
9) Run production equipment & place on pump
10) Report test results.

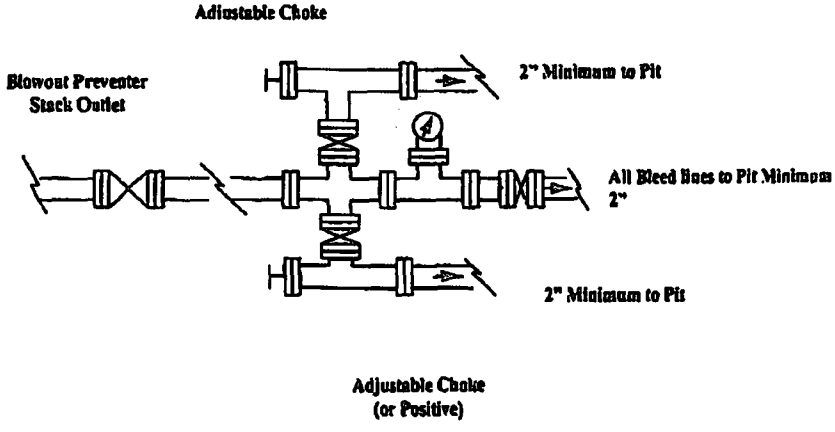
COG Operating LLC

BOPE and Choke Schematic



Minimum 3" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP)
No Annular Required



NOTES REGARDING THE BLOWOUT PREVENTERS
Master Drilling Plan
Eddy County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening. with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

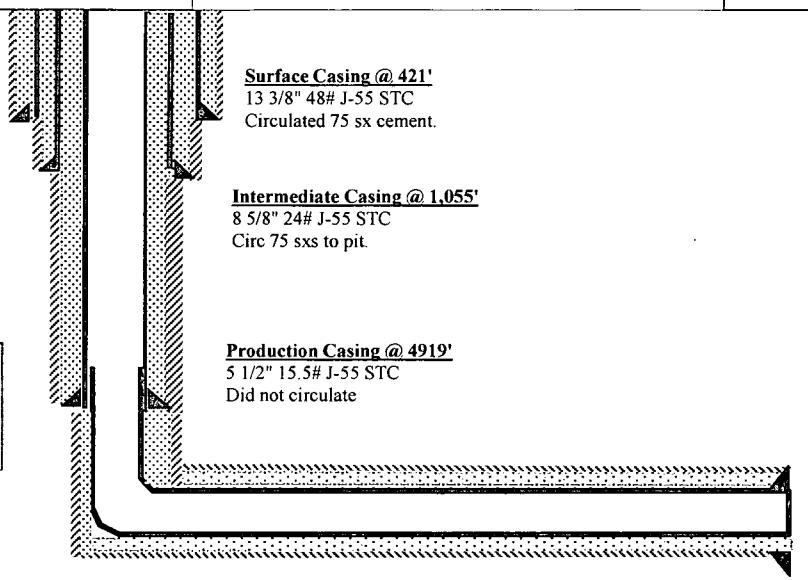
PROPOSED WELL SKETCH

API: 30-015-37288
SPUD: 5/05/2005
RR:
RIG:

Jenkins B #15
Eddy County, NM

Sec 20, T-17S, R-30E
SHL: 1500' FNL & 2310' FWL
BHL: 1650' FNL & 330' FEL
GL: 3,639'
KB: 3655'

HOLE SIZE	MW (ppg)	BHST (°F)			EVALUATION



Surface Casing @ 421'
13 3/8" 48# J-55 STC
Circulated 75 sx cement.

Intermediate Casing @ 1,055'
8 5/8" 24# J-55 STC
Circ 75 sxs to pit.

Production Casing @ 4919'
5 1/2" 15.5# J-55 STC
Did not circulate

GB/SA: 3046 - 3270.5, 72 holes Acid 2500 gal 15%, frac 100,580 gal lg, 98,380# sd Squeezed perfs w/ 1,634 sxs

3379 - 3573.5 62 holes Acid 2000 gal 15%, frac 91,202 gal lg, 99,000 # sd ****Squeezed** off above perfs with 500 sx.

3958- 3968, 10 holes Acid 1500 gal 15%, frac 53,676 gal lg, 35,250 # sd ****Squeezed** off with 200 sx

Paddock
4272 - 4685.5, 100 holes Acidized w/2,500 gal 15% HCL Trt w/32,000 gal 20% HCL, 54,000 gal LG, 5,000 gal 15% HCL Acidized w/2,500 gal 15% HCL when converted to injector. ****Reacidized** w/2,500 gal 15% HCL
--Will squeeze w/ 300 sxs lead and 300 sxs tail

DV tool set atleast at +/- 4799'

Production Liner @ 7,740'
4" 11.6# L80 ULTFJ Liner
Cement to DV tool

Updated by	S.Brumley
Date:	5/7/2013

CONCHO

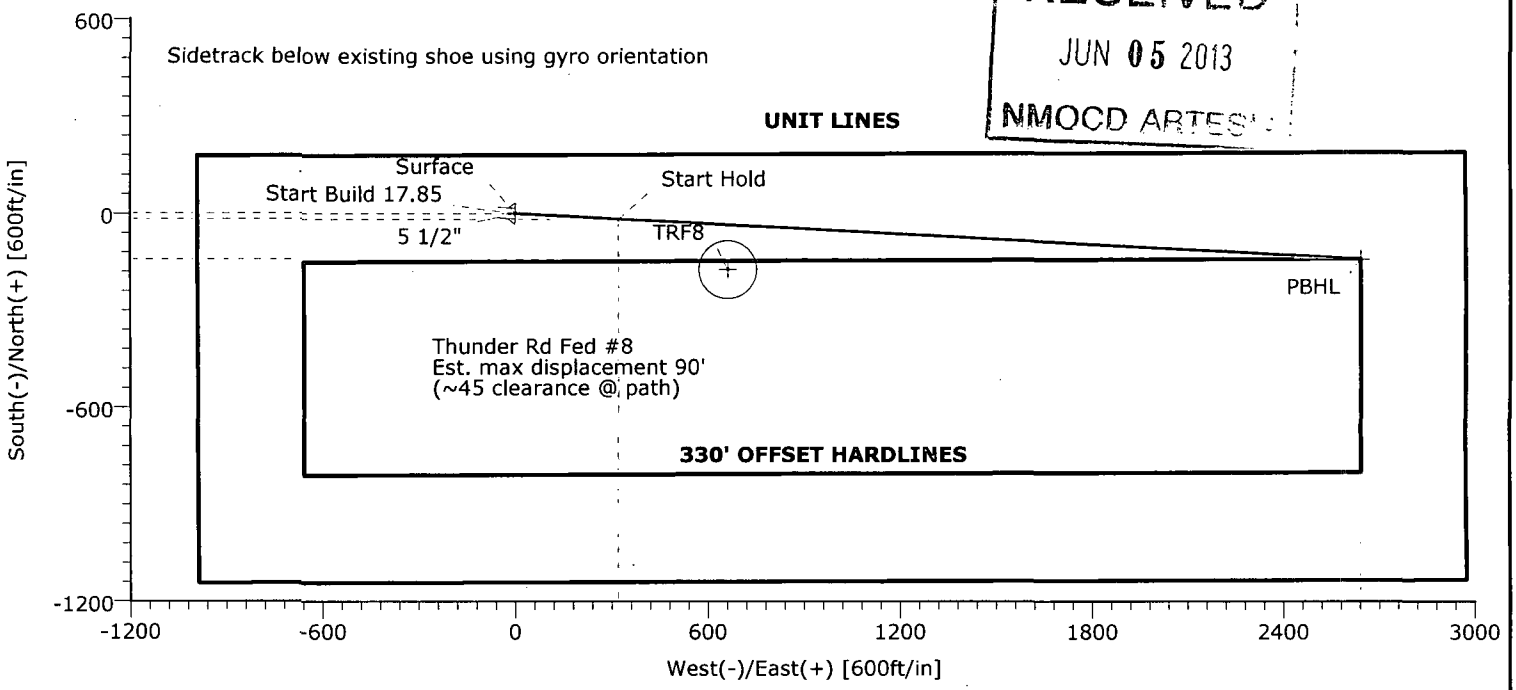
COG OPERATING LLC

Field: Permian NME'27
Site: Jenkins B Federal 15H
Well: #15H
Wellpath: Horizontal
Plan: Plan #5

Precision Directional Services

CASING DETAILS

No.	TVD	MD	Name	Size
1	4919.00	4919.00	5 1/2"	5.500

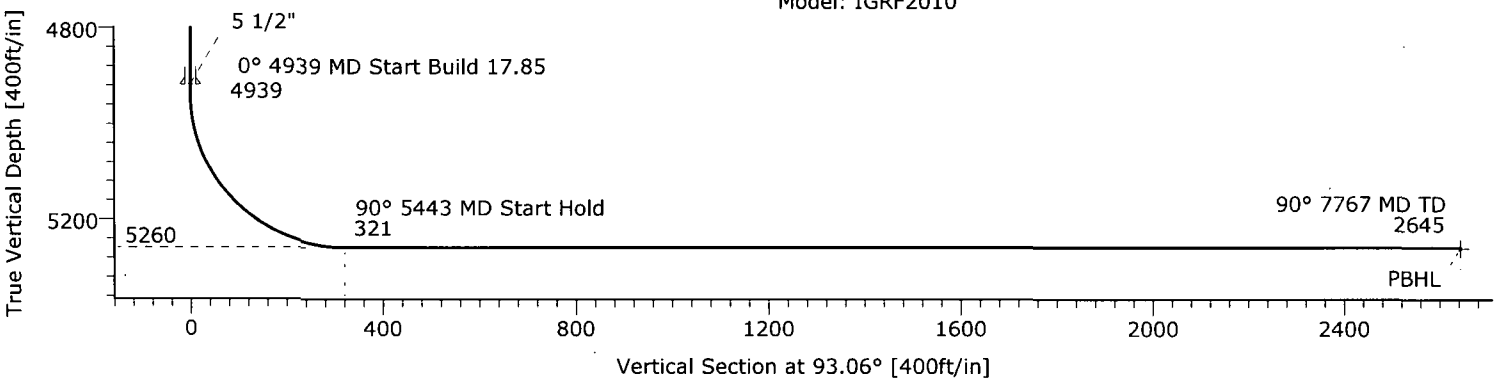


Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.41°

Magnetic Field
Strength: 48767nT
Dip Angle: 60.62°
Date: 06/10/2013
Model: IGRF2010

Eddy County
Section 20 T17S-R30E
Surface
1500' FNL, 2310' FWL

PBHL
1650' FNL, 330' FEL



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	663303.30	604020.10	32°49'22.980N	103°59'40.993W	Point
TRF8	0.00	-173.00	661.50	663130.30	604681.60	32°49'21.247N	103°59'33.247W	Circle (Radius: 90)
PBHL	5260.00	-141.60	2641.00	663161.70	606661.10	32°49'21.494N	103°59'10.049W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	93.07	0.00	0.00	0.00	0.00	0.00	0.00	
2	4939.00	0.00	93.07	4939.00	0.00	0.00	0.00	0.00	0.00	
3	5443.23	90.00	93.07	5260.00	-17.19	320.54	17.85	93.07	321.00	
4	7767.02	90.00	93.07	5260.00	-141.60	2641.00	0.00	0.00	2644.79	PBHL

Precision Directional Services, Inc
Planning Report

Company:	COG OPERATING LLC	**Date:** 05/29/2013	**Time:** 15:54:55	**Page:**	1
Field:	Permian NME'27	**Co-ordinate(NE) Reference:**	Well: #15H, Grid North		
Site:	Jenkins B Federal 15H	**Vertical (TVD) Reference:**	3639'GL+est.12'KB 3651.0		
Well:	#15H	**Section (VS) Reference:**	Well (0.00N,0.00E,93.06Azi)		
Wellpath:	Horizontal	**Plan:**	Plan #5		

Field: Permian NME'27

Map System:	US State Plane Coordinate System 1927	**Map Zone:**	New Mexico, Eastern Zone
Geo Datum:	NAD27 (Clarke 1866)	**Coordinate System:**	Well Centre
Sys Datum:	Mean Sea Level	**Geomagnetic Model:**	IGRF2010

Site: Jenkins B Federal 15H
Section 20; T17S-R30E; Unit F
Eddy County

Site Position:		**Northing:**	663303.30 ft	**Latitude:**	32 49 22.980 N		
From:	Map	**Easting:**	604020.10 ft	**Longitude:**	103 59 40.993 W		
Position Uncertainty:	0.00 ft			**North Reference:**	Grid		
Ground Level:	3639.00 ft			**Grid Convergence:**	0.18 deg		

Well: #15H **Slot Name:**

Well Position:	**+N/-S**	0.00 ft	**Northing:**	663303.30 ft	**Latitude:**	32 49 22.980 N	
	+E/-W	0.00 ft	**Easting :**	604020.10 ft	**Longitude:**	103 59 40.993 W	
Position Uncertainty:		0.00 ft					

Wellpath: Horizontal

			Drilled From:	Surface	
			Tie-on Depth:	0.00 ft	
Current Datum:	3639'GL+est.12'KB	**Height** 3651.00 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	06/10/2013		**Declination:**	7.60 deg	
Field Strength:	48767 nT		**Mag Dip Angle:**	60.62 deg	

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	0.00	0.00	0.00	93.06

Plan: Plan #5 **Date Composed:** 05/29/2013
Version: 1
Principal: No **Tied-to:** From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	93.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4939.00	0.00	93.07	4939.00	0.00	0.00	0.00	0.00	0.00	0.00	
5443.23	90.00	93.07	5260.00	-17.19	320.54	17.85	17.85	0.00	93.07	
7767.02	90.00	93.07	5260.00	-141.60	2641.00	0.00	0.00	0.00	0.00	PBHL

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4919.00	0.00	93.07	4919.00	0.00	0.00	0.00	0.00	0.00	0.00	5 1/2"
4939.00	0.00	93.07	4939.00	0.00	0.00	0.00	0.00	0.00	0.00	
4950.00	1.96	93.07	4950.00	-0.01	0.19	0.19	17.85	17.85	0.00	
4975.00	6.43	93.07	4974.92	-0.11	2.01	2.02	17.85	17.85	0.00	
5000.00	10.89	93.07	4999.63	-0.31	5.77	5.78	17.85	17.85	0.00	
5025.00	15.35	93.07	5023.97	-0.61	11.44	11.45	17.85	17.85	0.00	
5050.00	19.81	93.07	5047.80	-1.02	18.97	19.00	17.85	17.85	0.00	
5075.00	24.27	93.07	5070.97	-1.52	28.34	28.38	17.85	17.85	0.00	
5100.00	28.74	93.07	5093.33	-2.12	39.48	39.54	17.85	17.85	0.00	
5125.00	33.20	93.07	5114.77	-2.81	52.32	52.40	17.85	17.85	0.00	
5150.00	37.66	93.07	5135.13	-3.58	66.79	66.89	17.85	17.85	0.00	
5175.00	42.12	93.07	5154.31	-4.44	82.80	82.92	17.85	17.85	0.00	
5200.00	46.59	93.07	5172.18	-5.37	100.25	100.39	17.85	17.85	0.00	
5225.00	51.05	93.07	5188.64	-6.38	119.03	119.20	17.85	17.85	0.00	
5250.00	55.51	93.07	5203.58	-7.45	139.03	139.23	17.85	17.85	0.00	
5275.00	59.97	93.07	5216.92	-8.59	160.14	160.37	17.85	17.85	0.00	
5300.00	64.44	93.07	5228.57	-9.77	182.22	182.48	17.85	17.85	0.00	

Precision Directional Services, Inc
Planning Report

Company:	COG OPERATING LLC	**Date:** 05/29/2013	**Time:** 15:54:55	**Page:**	2
Field:	Permian NME'27	**Co-ordinate(NE) Reference:**	Well: #15H, Grid North		
Site:	Jenkins B Federal 15H	**Vertical (TVD) Reference:**	3639'GL+est.12'KB 3651.0		
Well:	#15H	**Section (VS) Reference:**	Well (0.00N,0.00E,93.06Azi)		
Wellpath:	Horizontal	**Plan:**	Plan #5		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5325.00	68.90	93.07	5238.47	-11.00	205.13	205.43	17.85	17.85	0.00	
5350.00	73.36	93.07	5246.56	-12.26	228.75	229.08	17.85	17.85	0.00	
5375.00	77.82	93.07	5252.78	-13.56	252.92	253.29	17.85	17.85	0.00	
5400.00	82.28	93.07	5257.09	-14.88	277.51	277.90	17.85	17.85	0.00	
5425.00	86.75	93.07	5259.48	-16.21	302.35	302.78	17.85	17.85	0.00	
5443.23	90.00	93.07	5260.00	-17.19	320.54	321.00	17.85	17.85	0.00	
5500.00	90.00	93.07	5260.00	-20.23	377.23	377.77	0.00	0.00	0.00	
5600.00	90.00	93.07	5260.00	-25.58	477.09	477.77	0.00	0.00	0.00	
5700.00	90.00	93.07	5260.00	-30.93	576.95	577.77	0.00	0.00	0.00	
5800.00	90.00	93.07	5260.00	-36.29	676.80	677.77	0.00	0.00	0.00	
5900.00	90.00	93.07	5260.00	-41.64	776.66	777.77	0.00	0.00	0.00	
6000.00	90.00	93.07	5260.00	-47.00	876.52	877.77	0.00	0.00	0.00	
6100.00	90.00	93.07	5260.00	-52.35	976.37	977.77	0.00	0.00	0.00	
6200.00	90.00	93.07	5260.00	-57.70	1076.23	1077.77	0.00	0.00	0.00	
6300.00	90.00	93.07	5260.00	-63.06	1176.09	1177.77	0.00	0.00	0.00	
6400.00	90.00	93.07	5260.00	-68.41	1275.94	1277.77	0.00	0.00	0.00	
6500.00	90.00	93.07	5260.00	-73.76	1375.80	1377.77	0.00	0.00	0.00	
6600.00	90.00	93.07	5260.00	-79.12	1475.65	1477.77	0.00	0.00	0.00	
6700.00	90.00	93.07	5260.00	-84.47	1575.51	1577.77	0.00	0.00	0.00	
6800.00	90.00	93.07	5260.00	-89.83	1675.37	1677.77	0.00	0.00	0.00	
6900.00	90.00	93.07	5260.00	-95.18	1775.22	1777.77	0.00	0.00	0.00	
7000.00	90.00	93.07	5260.00	-100.53	1875.08	1877.77	0.00	0.00	0.00	
7100.00	90.00	93.07	5260.00	-105.89	1974.94	1977.77	0.00	0.00	0.00	
7200.00	90.00	93.07	5260.00	-111.24	2074.79	2077.77	0.00	0.00	0.00	
7300.00	90.00	93.07	5260.00	-116.60	2174.65	2177.77	0.00	0.00	0.00	
7400.00	90.00	93.07	5260.00	-121.95	2274.51	2277.77	0.00	0.00	0.00	
7500.00	90.00	93.07	5260.00	-127.30	2374.36	2377.77	0.00	0.00	0.00	
7600.00	90.00	93.07	5260.00	-132.66	2474.22	2477.77	0.00	0.00	0.00	
7700.00	90.00	93.07	5260.00	-138.01	2574.08	2577.77	0.00	0.00	0.00	
7767.02	90.00	93.07	5260.00	-141.60	2641.00	2644.79	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ----> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Surface			0.00	0.00	0.00	663303.30	604020.10	32 49 22.980 N	103 59 40.993 W
TRF8 -Circle (Radius: 90)			0.00	-173.00	661.50	663130.30	604681.60	32 49 21.247 N	103 59 33.247 W
PBHL			5260.00	-141.60	2641.00	663161.70	606661.10	32 49 21.494 N	103 59 10.049 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
4919.00	4919.00	5.500	7.875	5 1/2"