

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

WELL API NO. 30-015-39973
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Pinto 36 State Com
8. Well Number 7H
9. OGRID Number 229137
10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 50270

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator COG Operating LLC	
3. Address of Operator One Concho Center - 600 W Illinois Ave Midland, TX 79701	
4. Well Location Unit Letter O : 150 feet from the SOUTH line and 1700 feet from the EAST line Section 36 Township 18S Range 25E NMPM County EDDY	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3473'	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: **Change Casing Program** ☒

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

COG proposes to drill an 11" hole to 1200' w/fresh water, run 8-5/8" 32# J-55 and cement to surface. Drill a 7-7/8" hole to 2183' MD and kick off and drill curve to 2704' TVD 3012' MD. Drill a 7-7/8" lateral to new BHL @ 2614' TVD 7293' MD. Run a 5 1/2" 17# L-80 casing to TD cement to surface with 800 sacks.

A revised directional plan is attached.

Spud Date:

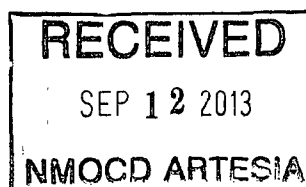
Rig Release Date:

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

SIGNATURE  TITLE **Permitting Tech** DATE **9/12/2013**

Type or print name **Kelly J. Holly** E-mail address: **kholly@concho.com** PHONE: **432-685-4384**
For State Use Only

APPROVED BY:  TITLE **"Geologist"** DATE **9/12/2013**
Conditions of Approval (if any):





COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Pinto 36 State

#7H

WB1

Plan: Plan #1 09-05-13

Surface: 150' FSL, 1700' FEL, Sec 36, T18S, R25E, Unit O

PP: 330' FSL, 1700' FEL, Sec 36, T18S, R25E, Unit O

BHL: 330' FNL, 1700' FEL, Sec 36, T18S, R25E, Unit B

Standard Planning Report

05 September, 2013



Geologist



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, New Mexico (NAD 27 NME)
Site: Pinto 36 State
Well: #7H
Wellbore: WB1
Design: Plan #1 09-05-13

Local Co-ordinate Reference: Well #7H
TVD Reference: GL @ 3474.00usft
MD Reference: GL @ 3474.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Eddy County, New Mexico (NAD 27 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: Pinto 36 State
Site Position: Northing: 617,373.90 usft Latitude: 32° 41' 49.99854 N
From: Map Easting: 470,225.00 usft Longitude: 104° 25' 48.44242 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: -0.05 °

Well: #7H
Well Position: +N/-S 29.90 usft Northing: 617,403.80 usft Latitude: 32° 41' 50.28177 N
+E/-W -1,369.60 usft Easting: 468,855.40 usft Longitude: 104° 26' 4.47050 W
Position Uncertainty: 0.00 usft Wellhead Elevation: Ground Level: 3,474.00 usft

Wellbore: WB1
Magnetics Model Name Sample Date Declination Dip Angle Field Strength
(°) (°) (nT)
IGRF2010_14 09/05/13 7.75 60.42 48,582

Design: Plan #1 09-05-13
Audit Notes:
Version: Phase: PLAN Tie On Depth: 0.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
(usft) (usft) (usft) (°)
0.00 0.00 0.00 0.16

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,183.11	0.00	0.00	2,183.11	0.00	0.00	0.00	0.00	0.00	0.00	
3,012.20	91.20	0.16	2,703.86	531.78	1.46	11.00	11.00	0.00	0.16	
7,293.07	91.20	0.16	2,614.21	4,811.70	13.20	0.00	0.00	0.00	0.00	PBHL-Pinto 36 State :



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, New Mexico (NAD 27 NME)
Site: Pinto 36 State
Well: #7H
Wellbore: WB1
Design: Plan #1 09-05-13

Local Co-ordinate Reference: Well #7H
TVD Reference: GL @ 3474.00usft
MD Reference: GL @ 3474.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,183.11	0.00	0.00	2,183.11	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 11.00									
2,200.00	1.86	0.16	2,200.00	0.27	0.00	0.27	11.00	11.00	0.00
2,300.00	12.86	0.16	2,299.02	13.06	0.04	13.06	11.00	11.00	0.00
2,400.00	23.86	0.16	2,393.79	44.51	0.12	44.51	11.00	11.00	0.00
2,500.00	34.86	0.16	2,480.81	93.46	0.26	93.46	11.00	11.00	0.00
2,600.00	45.86	0.16	2,556.89	158.12	0.43	158.12	11.00	11.00	0.00
2,629.66	49.12	0.16	2,576.93	179.98	0.49	179.98	11.00	11.00	0.00
PP-Pinto 36 State #7H									
2,700.00	56.86	0.16	2,619.24	236.10	0.65	236.11	11.00	11.00	0.00
2,800.00	67.86	0.16	2,665.56	324.55	0.89	324.56	11.00	11.00	0.00
2,900.00	78.86	0.16	2,694.16	420.22	1.15	420.22	11.00	11.00	0.00
3,000.00	89.86	0.16	2,703.97	519.58	1.43	519.58	11.00	11.00	0.00
3,011.11	91.08	0.16	2,703.88	530.69	1.46	530.70	11.00	11.00	0.00
TL, 2715' TVD @ 0 VZ, 91.2° Inc									
3,012.20	91.20	0.16	2,703.86	531.78	1.46	531.78	11.00	11.00	0.00
LP Start 4280.88 hold at 3012.20 MD									
3,100.00	91.20	0.16	2,702.02	619.56	1.70	619.56	0.00	0.00	0.00
3,200.00	91.20	0.16	2,699.93	719.54	1.97	719.54	0.00	0.00	0.00
3,300.00	91.20	0.16	2,697.83	819.52	2.25	819.52	0.00	0.00	0.00
3,400.00	91.20	0.16	2,695.74	919.49	2.52	919.50	0.00	0.00	0.00
3,500.00	91.20	0.16	2,693.65	1,019.47	2.80	1,019.48	0.00	0.00	0.00
3,600.00	91.20	0.16	2,691.55	1,119.45	3.07	1,119.45	0.00	0.00	0.00
3,700.00	91.20	0.16	2,689.46	1,219.43	3.35	1,219.43	0.00	0.00	0.00
3,800.00	91.20	0.16	2,687.36	1,319.40	3.62	1,319.41	0.00	0.00	0.00
3,900.00	91.20	0.16	2,685.27	1,419.38	3.89	1,419.39	0.00	0.00	0.00
4,000.00	91.20	0.16	2,683.18	1,519.36	4.17	1,519.37	0.00	0.00	0.00
4,100.00	91.20	0.16	2,681.08	1,619.34	4.44	1,619.34	0.00	0.00	0.00
4,200.00	91.20	0.16	2,678.99	1,719.32	4.72	1,719.32	0.00	0.00	0.00
4,300.00	91.20	0.16	2,676.89	1,819.29	4.99	1,819.30	0.00	0.00	0.00
4,400.00	91.20	0.16	2,674.80	1,919.27	5.27	1,919.28	0.00	0.00	0.00
4,500.00	91.20	0.16	2,672.70	2,019.25	5.54	2,019.26	0.00	0.00	0.00
4,600.00	91.20	0.16	2,670.61	2,119.23	5.81	2,119.23	0.00	0.00	0.00
4,700.00	91.20	0.16	2,668.52	2,219.20	6.09	2,219.21	0.00	0.00	0.00
4,800.00	91.20	0.16	2,666.42	2,319.18	6.36	2,319.19	0.00	0.00	0.00
4,900.00	91.20	0.16	2,664.33	2,419.16	6.64	2,419.17	0.00	0.00	0.00
5,000.00	91.20	0.16	2,662.23	2,519.14	6.91	2,519.15	0.00	0.00	0.00
5,100.00	91.20	0.16	2,660.14	2,619.11	7.19	2,619.12	0.00	0.00	0.00
5,200.00	91.20	0.16	2,658.04	2,719.09	7.46	2,719.10	0.00	0.00	0.00
5,300.00	91.20	0.16	2,655.95	2,819.07	7.73	2,819.08	0.00	0.00	0.00
5,400.00	91.20	0.16	2,653.86	2,919.05	8.01	2,919.06	0.00	0.00	0.00
5,500.00	91.20	0.16	2,651.76	3,019.03	8.28	3,019.04	0.00	0.00	0.00
5,600.00	91.20	0.16	2,649.67	3,119.00	8.56	3,119.02	0.00	0.00	0.00
5,700.00	91.20	0.16	2,647.57	3,218.98	8.83	3,218.99	0.00	0.00	0.00
5,800.00	91.20	0.16	2,645.48	3,318.96	9.10	3,318.97	0.00	0.00	0.00
5,900.00	91.20	0.16	2,643.38	3,418.94	9.38	3,418.95	0.00	0.00	0.00
6,000.00	91.20	0.16	2,641.29	3,518.91	9.65	3,518.93	0.00	0.00	0.00
6,100.00	91.20	0.16	2,639.20	3,618.89	9.93	3,618.91	0.00	0.00	0.00
6,200.00	91.20	0.16	2,637.10	3,718.87	10.20	3,718.88	0.00	0.00	0.00
6,300.00	91.20	0.16	2,635.01	3,818.85	10.48	3,818.86	0.00	0.00	0.00
6,400.00	91.20	0.16	2,632.91	3,918.82	10.75	3,918.84	0.00	0.00	0.00
6,500.00	91.20	0.16	2,630.82	4,018.80	11.02	4,018.82	0.00	0.00	0.00
6,600.00	91.20	0.16	2,628.72	4,118.78	11.30	4,118.80	0.00	0.00	0.00



Phoenix Technology Services
Planning Report



Database: GCR DB
Company: COG Operating LLC
Project: Eddy County, New Mexico (NAD 27 NME)
Site: Pinto 36 State
Well: #7H
Wellbore: WB1
Design: Plan #1 09-05-13

Local Co-ordinate Reference: Well #7H
TVD Reference: GL @ 3474.00usft
MD Reference: GL @ 3474.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,700.00	91.20	0.16	2,626.63	4,218.76	11.57	4,218.77	0.00	0.00	0.00
6,800.00	91.20	0.16	2,624.54	4,318.74	11.85	4,318.75	0.00	0.00	0.00
6,900.00	91.20	0.16	2,622.44	4,418.71	12.12	4,418.73	0.00	0.00	0.00
7,000.00	91.20	0.16	2,620.35	4,518.69	12.40	4,518.71	0.00	0.00	0.00
7,100.00	91.20	0.16	2,618.25	4,618.67	12.67	4,618.69	0.00	0.00	0.00
7,200.00	91.20	0.16	2,616.16	4,718.65	12.94	4,718.66	0.00	0.00	0.00
7,293.07	91.20	0.16	2,614.21	4,811.70	13.20	4,811.72	0.00	0.00	0.00
TD at 7293.07 - PBHL-Pinto 36 State #7H									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
Shape									
PP-Pinto 36 State #7H - plan hits target center - Point	0.00	0.00	2,576.95	180.00	0.49	617,583.80	468,855.89	32° 41' 52.06298 N	104° 26' 4.46673 W
PBHL-Pinto 36 State #7H - plan hits target center - Point	0.00	360.00	2,614.21	4,811.70	13.20	622,215.50	468,868.60	32° 42' 37.89657 N	104° 26' 4.36977 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,011.11	2,703.88	TL, 2715' TVD @ 0 VZ, 91.2° Inc		-1.20	0.16

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,183.11	2,183.11	0.00	0.00	KOP Start Build 11.00
3,012.20	2,703.86	531.78	1.46	LP Start 4280.88 hold at 3012.20 MD
7,293.07	2,614.21	4,811.70	13.20	TD at 7293.07



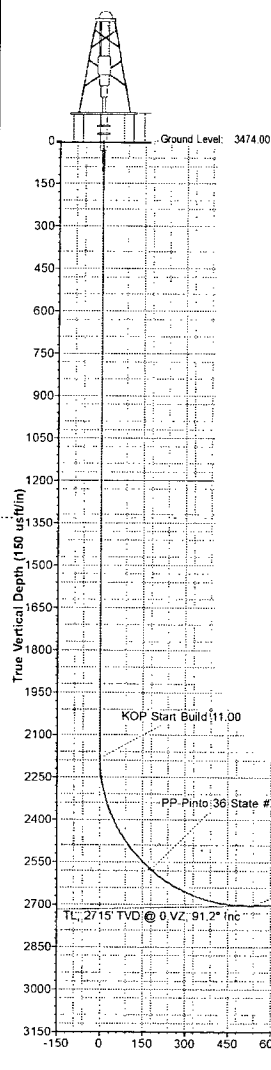
Project: Eddy County, New Mexico (NAD 27 NME)
Site: Pinto 36 State
Well: #7H
Wellbore: WB1
Design: Plan #1 09-05-13



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: 0.05°
Magnetic North: 7.80°
Magnetic Field
Strength: 48582.3 nT
Dip Angle: 60.42°
Date: 09/05/2013
Model: IGRF2010_14



WELL DETAILS									
+N-S	+E-W	Northing	Ground Level	Easting	Latitude	Longitude			
0.00	0.00	617403.80	3474.00	468855.40	32° 41' 50.28176 N	104° 26' 4.47050 W			

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	V Sect Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2193.11	0.00	0.00	2193.11	0.00	0.00	0.00	0.00	0.00
3	3012.20	91.20	0.16	2703.86	531.78	1.46	11.00	0.16	531.78
4	7293.07	91.20	0.16	2614.21	4811.70	13.20	0.00	0.00	4811.72

Annotation: KOP Start Build 11.00, LP Start 4280.88 hold at 3012.20 MD, TD at 7293.07

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
PP-Pinto 36 State #7H	2575.95	180.00	0.49	617583.80	468855.89	32° 41' 52.06298 N	104° 26' 4.46673 W	Point	
PBHL-Pinto 36 State #7H	2614.21	4811.70							

plan hits target center
plan hits target center

PROJECT DETAILS: Eddy County, New Mexico (NAD 27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Pinto 36 State
Site Centre Northing: 617373.90
Easting: 470225.00
Positional Uncertainty: 0.00
Convergence: -0.05
Local North: Grid

LEGEND
Plan #1 09-05-13

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #7H, Grid North
Latitude: 32° 41' 50.28176 N
Longitude: 104° 26' 4.47050 W
Grid East: 468855.40
Grid North: 617403.80
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 05-Sep-13
Magnetic Declination: 7.75°
Dip Angle from Horizontal: 60.42°
Magnetic Field Strength: 48582
To convert a Magnetic Direction to a Grid Direction, Add 7.80°
To convert a Magnetic Direction to a True Direction, Add 7.75° East
To convert a True Direction to a Grid Direction, Add 0.05°

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
2703.88	3011.11	TL 2715' TVD @ 0 VZ, 91.2° Inc	-1.20	0.16

