

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

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

Form C-103
Revised August 1, 2011

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 ☐	7. Lease Name or Unit Agreement Name Pinto 36 State Com
2. Name of Operator COG Operating LLC	8. Well Number 5H
3. Address of Operator 550 W Texas Suite 100 Midland, TX 79701	9. OGRID Number 229137
4. Well Location Unit Letter M ; 150 feet from the SOUTH line and 1040 feet from the WEST line Section 36 Township 18S Range 25E NMPM County EDDY	10. Pool name or Wildcat Penasco Draw; SA-Yeso (Assoc) 38979
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3494'	

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 Cement BHL** ☒

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 Operating submitted APD for this well at this location:

SHL: 150 FSL 1040 FWL, Unit M

BHL: 330 FNL 1040 FWL, Unit D

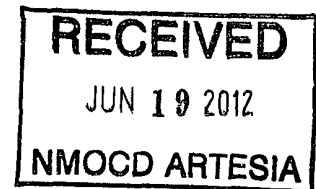
COG Operating respectfully requests permission to change the BHL of this well to:

SHL: 150 FSL 1040 FWL, Unit M

BHL: 330 FNL 990 FWL, Unit D

Reason for change of location is to avoid a Non-Standard Location.

A Revised C-102 and Directional plan is attached for your review.



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 [Signature] TITLE Permitting Tech DATE 6/19/2012

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

For State Use Only

APPROVED BY: T. C. Shepard TITLE Geologist DATE 6/12/2012

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Phone: (505) 748-1283 Fax: (505) 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

RECEIVED
JUN 19 2012
AMENDED REPORT
NMOCD ARTESIA

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-39970	Pool Code 50270	Pool Name Penasco Draw; SA-Yeso (assoc)
Property Code 38979	Property Name PINTO 36 STATE COM	Well Number 5H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3494'

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	36	18-S	25-E		150	SOUTH	1040	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
D	36	18-S	25-E		330	NORTH	990'	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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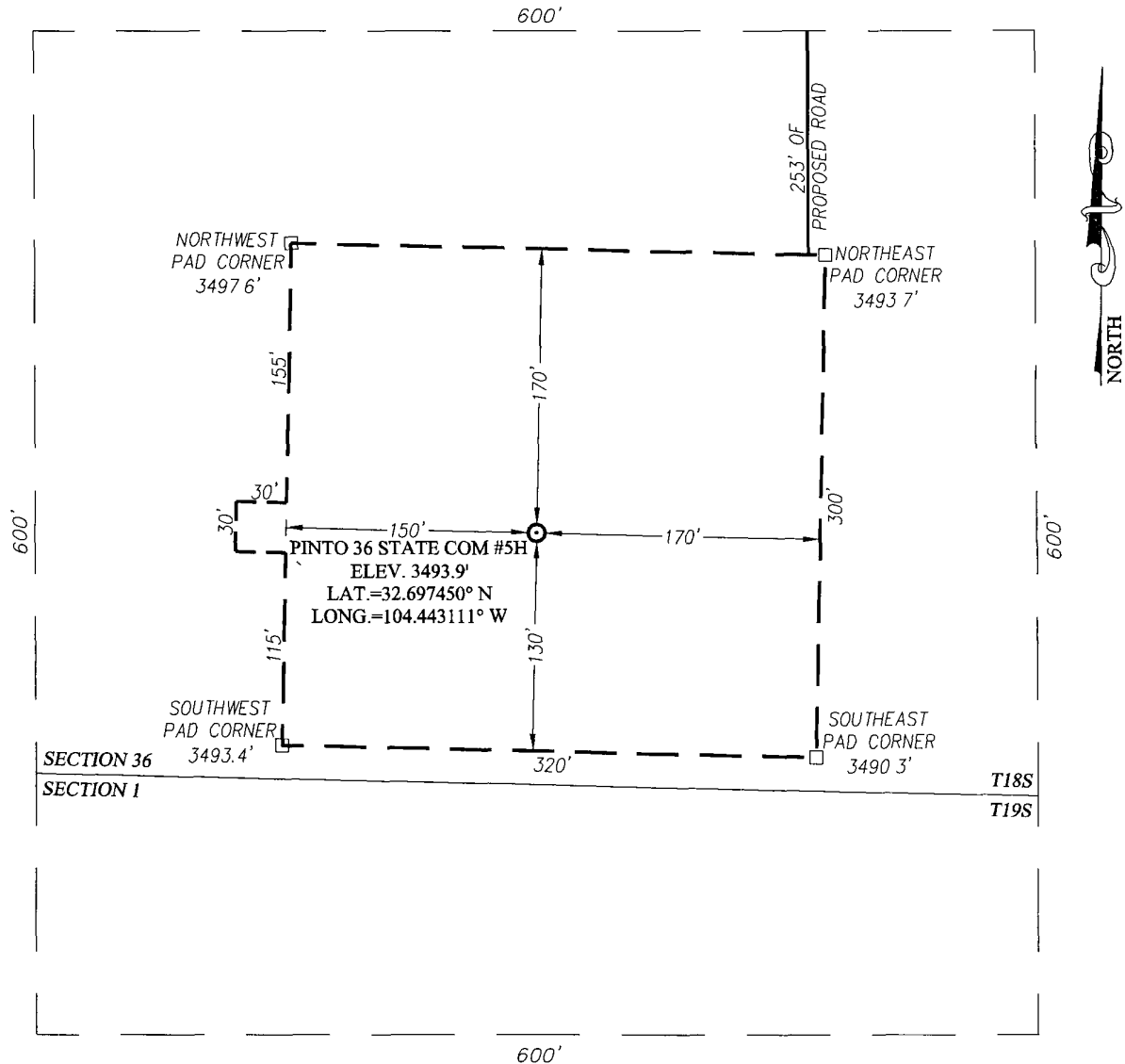
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Project Area Producing Area B.H. 990' 330' CBID-AZ=00°28'42" HORIZ. DIST.=4778.5'	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=617460.8 N X=466229.7 E LAT.=32.697450° N LONG.=104.443111° W BOTTOM HOLE LOCATION Y=622237.8 N X=466269.7 E	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. Signature 6-19-12 Date Kelly J. Holly Printed Name kholly@concho.com E-mail Address
	CORNER COORDINATES TABLE A) Y=622576.2 N, X=465286.1 E B) Y=622564.9 N, X=466606.9 E C) Y=617333.4 N, X=465187.4 E D) Y=617304.4 N, X=466527.1 E	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 January 17, 2012 Date of Survey Signature of Professional Surveyor RONALD J. EIDSON NEW MEXICO 3239 REGISTERED SURVEYOR Certificate No. 12641 Ronald J. Eidson 3239 AF/DSR Rel. WO#11.11.2567 JWSC W.O.: 12.13.1101
	Estimated Completed Interval: 330 FSL + 990 FWL	

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.

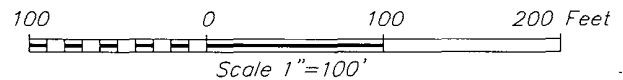
EDDY COUNTY

NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY #285 (SEVEN RIVERS) AND CO RD #38 (KINCAID RANCH), GO WEST APPROX 2.8 MILES. TURN LEFT AND GO SOUTH APPROX. 0.9 MILES. TURN LEFT AND GO EAST APPROX 0.1 MILES TO ROAD SURVEY FOLLOW ROAD SURVEY SOUTH APPROX 425 FEET TO THE LOCATION STAKE



COG OPERATING, LLC

PINTO 36 STATE COM #5H WELL
LOCATED 150 FEET FROM THE SOUTH LINE
AND 1040 FEET FROM THE WEST LINE OF SECTION 36,
TOWNSHIP 18 SOUTH, RANGE 25 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO

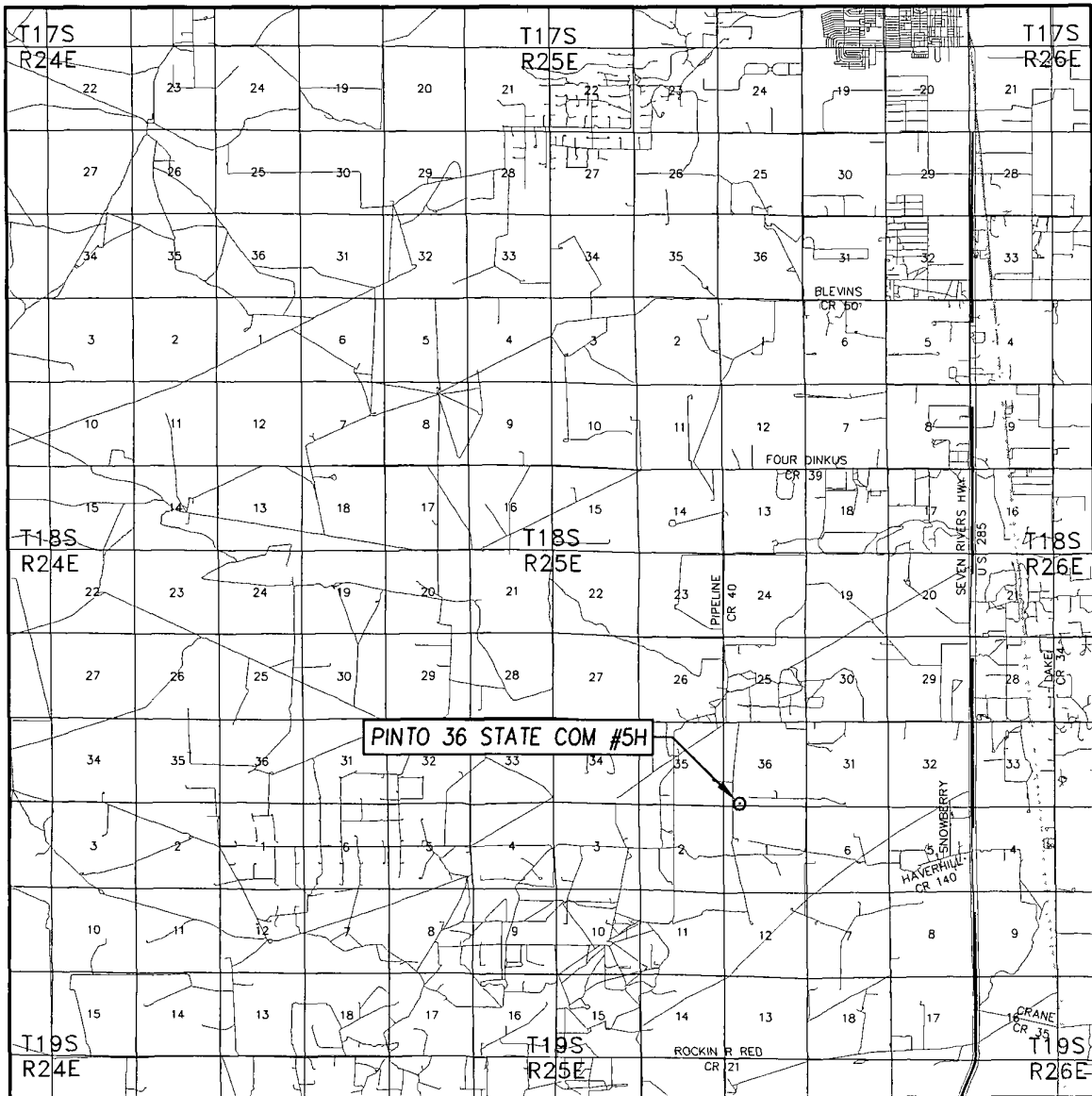
Survey Date. 1/17/12	Sheet 1 of 1 Sheets
W.O. Number: 11.11.2567	Dr. By. AF Rev 1.
Date: 2/2/12	Rel W.O. 11112567 Scale 1"=100'

PROVIDING SURVEYING SERVICES
SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N DAL PASO
HOBBS, N M 88240
(575) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

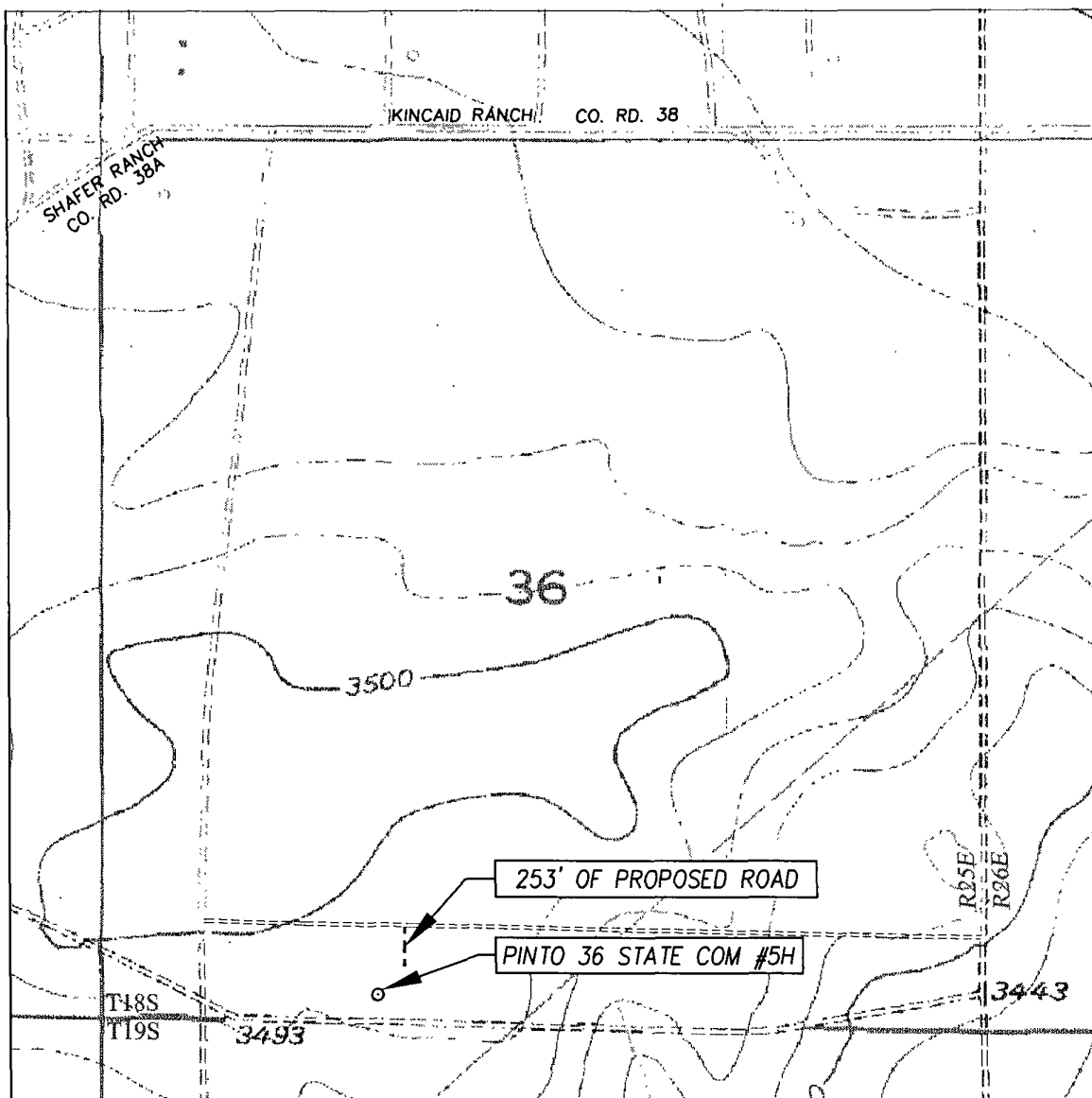
SEC 36 TWP. 18-S RGE 25-E
 SURVEY N.M.P.M.
 COUNTY EDDY STATE NEW MEXICO
 DESCRIPTION 150' FSL & 1040' FWL
 ELEVATION 3494'
 OPERATOR COG OPERATING, LLC
 LEASE PINTO 36 STATE COM



PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N DAL PASO
 HOBBS, N M 88240
 (575) 393-3117

LOCATION VERIFICATION MAP

KINCAID RANCH CO. RD. 38



SCALE: 1" = 1000'

CONTOUR INTERVAL:
DAYTON, N.M. - 10'

SEC. 36 TWP. 18-S RGE 25-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

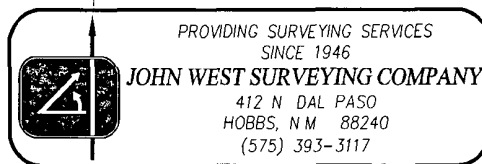
DESCRIPTION 150' FSL & 1040' FWL

ELEVATION 3494'

OPERATOR COG OPERATING, LLC

LEASE PINTO 36 STATE COM

U.S.G.S. TOPOGRAPHIC MAP
DAYTON, N.M.



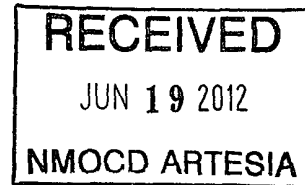
COG Operating LLC

Eddy County, NM

Pinto 36 State Com 5H

Pinto 36 State Com 5H

Wellbore #1



Plan: Plan #1

Surface. 150' FSL, 1040' FWL, Sec 36, T18S, R25E, Unit M

BHL: 330' FNL, 990' FWL, Sec 36, T19S, R25E, Unit D

PP: 330' FSL, 990' FWL, Sec 36, T18S, R25E, Unit M

Standard Planning Report

15 June, 2012

Planning Report

Database: Houston R5000 Database
Company: COG Operating LLC
Project: Eddy County, NM
Site: Pinto 36 State Com 5H
Well: Pinto 36 State Com 5H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Pinto 36 State Com 5H
TVD Reference: WELL @ 3512 00ft (Original Well Elev)
MD Reference: WELL @ 3512 00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM		
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 Com 5H		
Site Position:		Northing:	617,460.80 ft
From:	Map	Easting:	466,229.70 ft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32.69744659
		Longitude:	-104.44311372
		Grid Convergence:	-0.06 °

Well	Pinto 36 State Com 5H		
Well Position	+N-S	0.00 ft	Northing: 617,460.80 ft
	+E-W	0.00 ft	Easting: 466,229.70 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	Latitude: 32.69744659
			Longitude: -104.44311372
			Ground Level: 3,494.00 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	6/15/2012	7.90
			Dip Angle (°) 60.45
			Field Strength (nT) 48,703

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S (ft)	+E-W (ft)
	0.00	0.00	0.00
			Direction (°) 0.48

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00	
3,022.54	90.00	347.91	2,750.00	466.87	-100.00	12.00	12.00	0.00	347.91	
3,386.59	90.00	2.47	2,750.00	828.66	-130.44	4.00	0.00	4.00	90.00	
7,338.60	90.00	2.47	2,750.00	4,777.00	40.00	0.00	0.00	0.00	0.00	PBHL (Pinto 36 State

Planning Report

Database: Houston R5000 Database
Company: COG Operating LLC
Project: Eddy County, NM
Site: Pinto 36 State Com 5H
Well: Pinto 36 State Com 5H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Pinto 36 State Com 5H
TVD Reference: WELL @ 3512 00ft (Original Well Elev)
MD Reference: WELL @ 3512 00ft (Original Well Elev)
North Reference: Gnd
Survey Calculation Method: Minimum Curvature

Planned 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)
2,272.54	0.00	0.00	2,272.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Start Build @ 12.00°/100'									
2,300.00	3.30	347.91	2,299.98	0.77	-0.17	0.77	12.00	12.00	0.00
2,400.00	15.30	347.91	2,398.49	16.54	-3.54	16.51	12.00	12.00	0.00
2,500.00	27.30	347.91	2,491.49	51.98	-11.13	51.89	12.00	12.00	0.00
2,600.00	39.30	347.91	2,574.93	105.56	-22.61	105.37	12.00	12.00	0.00
2,700.00	51.30	347.91	2,645.14	174.93	-37.47	174.61	12.00	12.00	0.00
2,706.60	52.09	347.91	2,649.23	180.00	-38.56	179.67	12.00	12.00	0.00
PP @ 2706.60 MD, 2649.23 TVD, 52.09 INC, 347.91 AZ, 179.67 VS									
2,800.00	63.30	347.91	2,699.08	257.06	-55.06	256.59	12.00	12.00	0.00
2,900.00	75.30	347.91	2,734.37	348.36	-74.62	347.73	12.00	12.00	0.00
3,000.00	87.30	347.91	2,749.47	444.84	-95.28	444.03	12.00	12.00	0.00
3,022.54	90.00	347.91	2,750.00	466.87	-100.00	466.02	12.00	12.00	0.00
Landing Point - Start Turn @ 4.00°/100'									
3,100.00	90.00	351.01	2,750.00	543.02	-114.17	542.04	4.00	0.00	4.00
3,200.00	90.00	355.01	2,750.00	642.25	-126.34	641.17	4.00	0.00	4.00
3,300.00	90.00	359.01	2,750.00	742.10	-131.56	740.97	4.00	0.00	4.00
3,386.59	90.00	2.47	2,750.00	828.66	-130.44	827.54	4.00	0.00	4.00
EOT - Hold @ 2.47° AZ									
3,400.00	90.00	2.47	2,750.00	842.06	-129.86	840.95	0.00	0.00	0.00
3,500.00	90.00	2.47	2,750.00	941.97	-125.55	940.89	0.00	0.00	0.00
3,600.00	90.00	2.47	2,750.00	1,041.88	-121.24	1,040.83	0.00	0.00	0.00
3,700.00	90.00	2.47	2,750.00	1,141.79	-116.93	1,140.77	0.00	0.00	0.00
3,800.00	90.00	2.47	2,750.00	1,241.69	-112.61	1,240.71	0.00	0.00	0.00
3,900.00	90.00	2.47	2,750.00	1,341.60	-108.30	1,340.65	0.00	0.00	0.00
4,000.00	90.00	2.47	2,750.00	1,441.51	-103.99	1,440.59	0.00	0.00	0.00
4,100.00	90.00	2.47	2,750.00	1,541.41	-99.67	1,540.53	0.00	0.00	0.00
4,200.00	90.00	2.47	2,750.00	1,641.32	-95.36	1,640.46	0.00	0.00	0.00
4,300.00	90.00	2.47	2,750.00	1,741.23	-91.05	1,740.40	0.00	0.00	0.00
4,400.00	90.00	2.47	2,750.00	1,841.13	-86.74	1,840.34	0.00	0.00	0.00
4,500.00	90.00	2.47	2,750.00	1,941.04	-82.42	1,940.28	0.00	0.00	0.00
4,600.00	90.00	2.47	2,750.00	2,040.95	-78.11	2,040.22	0.00	0.00	0.00
4,700.00	90.00	2.47	2,750.00	2,140.86	-73.80	2,140.16	0.00	0.00	0.00
4,800.00	90.00	2.47	2,750.00	2,240.76	-69.48	2,240.10	0.00	0.00	0.00
4,900.00	90.00	2.47	2,750.00	2,340.67	-65.17	2,340.04	0.00	0.00	0.00
5,000.00	90.00	2.47	2,750.00	2,440.58	-60.86	2,439.98	0.00	0.00	0.00
5,100.00	90.00	2.47	2,750.00	2,540.48	-56.55	2,539.92	0.00	0.00	0.00
5,200.00	90.00	2.47	2,750.00	2,640.39	-52.23	2,639.86	0.00	0.00	0.00
5,300.00	90.00	2.47	2,750.00	2,740.30	-47.92	2,739.80	0.00	0.00	0.00
5,400.00	90.00	2.47	2,750.00	2,840.20	-43.61	2,839.74	0.00	0.00	0.00
5,500.00	90.00	2.47	2,750.00	2,940.11	-39.29	2,939.68	0.00	0.00	0.00
5,600.00	90.00	2.47	2,750.00	3,040.02	-34.98	3,039.62	0.00	0.00	0.00
5,700.00	90.00	2.47	2,750.00	3,139.93	-30.67	3,139.56	0.00	0.00	0.00
5,800.00	90.00	2.47	2,750.00	3,239.83	-26.36	3,239.50	0.00	0.00	0.00
5,900.00	90.00	2.47	2,750.00	3,339.74	-22.04	3,339.44	0.00	0.00	0.00
6,000.00	90.00	2.47	2,750.00	3,439.65	-17.73	3,439.38	0.00	0.00	0.00
6,100.00	90.00	2.47	2,750.00	3,539.55	-13.42	3,539.32	0.00	0.00	0.00
6,200.00	90.00	2.47	2,750.00	3,639.46	-9.11	3,639.26	0.00	0.00	0.00
6,300.00	90.00	2.47	2,750.00	3,739.37	-4.79	3,739.20	0.00	0.00	0.00
6,400.00	90.00	2.47	2,750.00	3,839.27	-0.48	3,839.14	0.00	0.00	0.00
6,500.00	90.00	2.47	2,750.00	3,939.18	3.83	3,939.07	0.00	0.00	0.00
6,600.00	90.00	2.47	2,750.00	4,039.09	8.15	4,039.01	0.00	0.00	0.00
6,700.00	90.00	2.47	2,750.00	4,138.99	12.46	4,138.95	0.00	0.00	0.00

Planning Report

Database: Houston R5000 Database
Company: COG Operating LLC
Project: Eddy County, NM
Site: Pinto 36 State Com 5H
Well: Pinto 36 State Com 5H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference: Site Pinto 36 State Com 5H
TVD Reference: WELL @ 3512 00ft (Original Well Elev)
MD Reference: WELL @ 3512 00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned 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)
6,800.00	90.00	2.47	2,750.00	4,238.90	16.77	4,238.89	0.00	0.00	0.00
6,900.00	90.00	2.47	2,750.00	4,338.81	21.08	4,338.83	0.00	0.00	0.00
7,000.00	90.00	2.47	2,750.00	4,438.72	25.40	4,438.77	0.00	0.00	0.00
7,100.00	90.00	2.47	2,750.00	4,538.62	29.71	4,538.71	0.00	0.00	0.00
7,200.00	90.00	2.47	2,750.00	4,638.53	34.02	4,638.65	0.00	0.00	0.00
7,300.00	90.00	2.47	2,750.00	4,738.44	38.34	4,738.59	0.00	0.00	0.00
7,338.60	90.00	2.47	2,750.00	4,777.00	40.00	4,777.17	0.00	0.00	0.00

TD @ 7338.60' MD, 2750.00' TVD - PBHL (Pinto 36 State Com 5H Plan 1)

Design Targets

Target Name

- hit/miss target
- Shape

Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
0.00	360.00	2,750.00	4,777.00	40.00	622,237.80	466,269.70	32.71057759	-104.44299975

PBHL (Pinto 36 State Co
 - plan hits target center
 - Point

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N-S (ft)	+E-W (ft)	
2,272.54	2,272.54	0.00	0.00	KOP - Start Build @ 12 00°/100'
2,706.60	2,649.23	180.00	-38.56	PP @ 2706.60 MD, 2649.23 TVD, 52.09 INC, 347.91 AZ, 179.67 VS
3,022.54	2,750.00	466.87	-100.00	Landing Point - Start Turn @ 4 00°/100'
3,386.59	2,750.00	828.66	-130.44	EOT - Hold @ 2.47° AZ
7,338.60	2,750.00	4,777.00	40.00	TD @ 7338.60' MD, 2750.00' TVD



COG Operating LLC
Pinto 36 State Com 5H
Eddy County, NM
Plan #1



Surface Location		Ground Elev: 3494.00 WELL @ 3512.00ft (Original Well Elev)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	617460.80	466229.70	32.69744659	-104.44311371

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
PBHL (Pinto 36 State Com 5H Plan 1)	2750.00	4777.00	40.00	622237.80	466269.70	32.71057759

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VFace	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP - Start Build @ 12.00°/100'
2	2272.54	0.00	0.00	2272.54	0.00	0.00	0.00	0.00	0.00	Landing Point - Start Turn @ 4.00°/100'
3	3022.54	90.00	347.91	2750.00	466.87	-100.00	12.00	347.91	466.02	EOT - Hold @ 2.47° AZ
4	3386.59	90.00	2.47	2750.00	828.86	-130.44	4.00	90.00	827.54	TD @ 7338.60' MD, 2750.00' TVD
5	7338.60	90.00	2.47	2750.00	4777.00	40.00	0.00	0.00	4777.17	



Azimuths to Grid North
True North: 0.06°
Magnetic North: 7.96°

Magnetic Field
Strength: 48702.6snT
Dip Angle: 60.45°
Date: 6/15/2012
Model: IGRF2010

