

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

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

WELL API NO. 30-015-39640
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Patton 5 Fee
8. Well Number 7H
9. OGRID Number 229137
10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250

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 **M** : **1040** feet from the **SOUTH** line and **330** feet from the **WEST** line
Section **5** Township **19S** Range **26E** NMPM County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3363'

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 SHL & 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 LLC submitted APD for this well at this location:

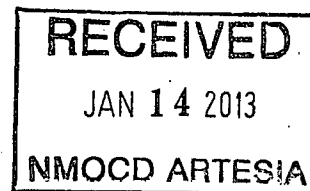
SHL: 1040 FSL 330 FWL, Unit M

BHL: 1040 FSL 330 FEL, Unit P

COG Operating LLC respectfully requests permission to change the BHL to:

SHL: 982 FSL 330 FWL, Unit M

BHL: 935 FSL 330 FEL, Unit P



Revision is due to skewed section and avoiding a non-standard location.

A revised Directional Plan and C102 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.

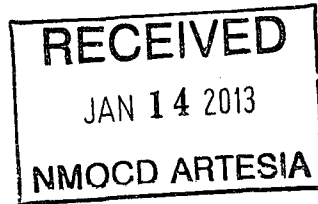
SIGNATURE TITLE **Permitting Tech** DATE **01/10/2013**

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 **1/14/2013**

Conditions of Approval (if any):



Concho

**Eddy County, New Mexico (Nad27)
Patton 5 Fee #7H**

Wellbore #1

Plan: Plan 1 01-07-13

Surface: 982' FSL, 330' FWL, Sec 5, T19S, R26E, Unit M

BHL: 935' FSL, 330' FEL, Sec 5, T19S, R26E, Unit P

Standard Planning Report

09 January, 2013



Phoenix
Planning Report

Database:	GCR-DB	Local Co-ordinate Reference:	Well: Patton 5 Fee #7H
Company:	Concho	TVD Reference:	WELL @ 3377.00usft (Original Well Elev)
Project:	Eddy County New Mexico (Nad27)	MD Reference:	WELL @ 3377.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1:01-07-13		

Project:	Eddy County New Mexico (Nad27)		
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:	Patton 5 Fee		
Site Position:		Northing:	613,610.70 usft
From:	Map	Easting:	475,920.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 12.8058° N
		Longitude:	104° 24' 41.7618 W
		Grid Convergence:	-0.04 °

Well:	Patton 5 Fee #7H		
Well Position	+N/-S	-658.90 usft	Northing:
	+E/-W	137.60 usft	Easting:
Position Uncertainty		0.00 usft	Wellhead Elevation:
			Ground Level:
			3,363.00 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	01/07/13	7.81
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,644

Design:	Plan 1:01-07-13		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			89.91

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(%/100usft)	(%/100usft)	(%/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,409.57	0.00	0.00	2,409.57	0.00	0.00	0.00	0.00	0.00	0.00	
3,232.29	90.50	89.91	2,930.42	0.84	525.42	11.00	11.00	0.00	89.91	
7,313.64	90.50	89.91	2,894.80	7.40	4,606.60	0.00	0.00	0.00	0.00	BHL Patton 5 Fee #7H



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well-Patton 5 Fee #7H
Company:	Concho	TVD Reference:	WELL @ 3377.00usft (Original Well Elev)
Project:	Eddy County - New Mexico (Nad27)	MD Reference:	WELL @ 3377.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1-01-07-13		

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
2,409.57	0.00	0.00	2,409.57	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 11:00									
2,500.00	9.95	89.91	2,499.55	0.01	7.83	7.83	11.00	11.00	0.00
2,600.00	20.95	89.91	2,595.79	0.06	34.43	34.43	11.00	11.00	0.00
2,700.00	31.95	89.91	2,685.18	0.13	78.90	78.90	11.00	11.00	0.00
2,800.00	42.95	89.91	2,764.45	0.22	139.61	139.61	11.00	11.00	0.00
2,900.00	53.95	89.91	2,830.68	0.34	214.33	214.33	11.00	11.00	0.00
3,000.00	64.95	89.91	2,881.43	0.48	300.31	300.31	11.00	11.00	0.00
3,100.00	75.95	89.91	2,914.85	0.63	394.40	394.40	11.00	11.00	0.00
3,200.00	86.95	89.91	2,929.70	0.79	493.14	493.14	11.00	11.00	0.00
3,232.29	90.50	89.91	2,930.42	0.84	525.42	525.42	11.00	11.00	0.00
LP: Start 4081.35 hold at 3232.29 MD									
3,300.00	90.50	89.91	2,929.83	0.95	593.12	593.12	0.00	0.00	0.00
3,400.00	90.50	89.91	2,928.95	1.11	693.12	693.12	0.00	0.00	0.00
3,500.00	90.50	89.91	2,928.08	1.27	793.11	793.11	0.00	0.00	0.00
3,600.00	90.50	89.91	2,927.21	1.43	893.11	893.11	0.00	0.00	0.00
3,700.00	90.50	89.91	2,926.33	1.60	993.10	993.11	0.00	0.00	0.00
3,800.00	90.50	89.91	2,925.46	1.76	1,093.10	1,093.10	0.00	0.00	0.00
3,900.00	90.50	89.91	2,924.59	1.92	1,193.10	1,193.10	0.00	0.00	0.00
4,000.00	90.50	89.91	2,923.72	2.08	1,293.09	1,293.09	0.00	0.00	0.00
4,100.00	90.50	89.91	2,922.84	2.24	1,393.09	1,393.09	0.00	0.00	0.00
4,200.00	90.50	89.91	2,921.97	2.40	1,493.08	1,493.09	0.00	0.00	0.00
4,300.00	90.50	89.91	2,921.10	2.56	1,593.08	1,593.08	0.00	0.00	0.00
4,400.00	90.50	89.91	2,920.23	2.72	1,693.08	1,693.08	0.00	0.00	0.00
4,500.00	90.50	89.91	2,919.35	2.88	1,793.07	1,793.08	0.00	0.00	0.00
4,600.00	90.50	89.91	2,918.48	3.04	1,893.07	1,893.07	0.00	0.00	0.00
4,700.00	90.50	89.91	2,917.61	3.20	1,993.07	1,993.07	0.00	0.00	0.00
4,800.00	90.50	89.91	2,916.74	3.36	2,093.06	2,093.06	0.00	0.00	0.00
4,900.00	90.50	89.91	2,915.86	3.52	2,193.06	2,193.06	0.00	0.00	0.00
5,000.00	90.50	89.91	2,914.99	3.68	2,293.05	2,293.06	0.00	0.00	0.00
5,100.00	90.50	89.91	2,914.12	3.84	2,393.05	2,393.05	0.00	0.00	0.00
5,200.00	90.50	89.91	2,913.24	4.00	2,493.05	2,493.05	0.00	0.00	0.00
5,300.00	90.50	89.91	2,912.37	4.17	2,593.04	2,593.05	0.00	0.00	0.00
5,400.00	90.50	89.91	2,911.50	4.33	2,693.04	2,693.04	0.00	0.00	0.00
5,500.00	90.50	89.91	2,910.63	4.49	2,793.03	2,793.04	0.00	0.00	0.00
5,600.00	90.50	89.91	2,909.75	4.65	2,893.03	2,893.03	0.00	0.00	0.00
5,700.00	90.50	89.91	2,908.88	4.81	2,993.03	2,993.03	0.00	0.00	0.00
5,800.00	90.50	89.91	2,908.01	4.97	3,093.02	3,093.03	0.00	0.00	0.00
5,900.00	90.50	89.91	2,907.14	5.13	3,193.02	3,193.02	0.00	0.00	0.00
6,000.00	90.50	89.91	2,906.26	5.29	3,293.01	3,293.02	0.00	0.00	0.00
6,100.00	90.50	89.91	2,905.39	5.45	3,393.01	3,393.01	0.00	0.00	0.00
6,200.00	90.50	89.91	2,904.52	5.61	3,493.01	3,493.01	0.00	0.00	0.00
6,300.00	90.50	89.91	2,903.65	5.77	3,593.00	3,593.01	0.00	0.00	0.00
6,400.00	90.50	89.91	2,902.77	5.93	3,693.00	3,693.00	0.00	0.00	0.00
6,500.00	90.50	89.91	2,901.90	6.09	3,792.99	3,793.00	0.00	0.00	0.00
6,600.00	90.50	89.91	2,901.03	6.25	3,892.99	3,893.00	0.00	0.00	0.00
6,700.00	90.50	89.91	2,900.15	6.41	3,992.99	3,992.99	0.00	0.00	0.00
6,800.00	90.50	89.91	2,899.28	6.57	4,092.98	4,092.99	0.00	0.00	0.00
6,900.00	90.50	89.91	2,898.41	6.74	4,192.98	4,192.98	0.00	0.00	0.00
7,000.00	90.50	89.91	2,897.54	6.90	4,292.97	4,292.98	0.00	0.00	0.00
7,100.00	90.50	89.91	2,896.66	7.06	4,392.97	4,392.98	0.00	0.00	0.00
7,200.00	90.50	89.91	2,895.79	7.22	4,492.97	4,492.97	0.00	0.00	0.00
7,300.00	90.50	89.91	2,894.92	7.38	4,592.96	4,592.97	0.00	0.00	0.00



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well Patton 5 Fee #7H
Company:	Concho	TVD Reference:	WELL @ 3377.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3377.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 110107-13		

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)
7,313.64	90.50	89.91	2,894.80	7.40	4,606.60	4,606.61	0.00	0.00	0.00
TD at 7313.64 - BHL Patton 5 Fee #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									
BHL Patton 5 Fee #7H	0.00	360.00	2,894.80	7.40	4,606.60	612,959.20	480,664.40	32° 41' 6.3900 N	104° 23' 46.2446 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,409.57	2,409.57	0.00	0.00	KOP, Start Build 11.00
3,232.29	2,930.42	0.84	525.42	LP, Start 4081.35 hold at 3232.29 MD
7,313.64	2,894.80	7.40	4,606.60	TD at 7313.64

Concho

Project: Eddy County, New Mexico (Nad27)
 Site: Patton 5 Fee
 Well: Patton 5 Fee #7H
 Wellbore: Wellbore #1
 Plan: Plan 1 01-07-13
 Rig: UDI 40



PROJECT DETAILS: Eddy County, New Mexico (Nad27)

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
 Location North: Grid

WELL DETAILS: Patton 5 Fee #7H

Ground Level: 3363.00
 Northing: 612951.80 Easting: 476057.90
 Latitude: 32° 41' 5.2866 N Longitude: 104° 24' 40.1461 W

FORMATION TOP DETAILS

No formation data is available

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2409.57	0.00	0.00	2409.57	0.00	0.00	0.00	0.00	0.00
3232.29	90.50	89.91	2930.42	0.84	-525.42	11.00	89.91	525.42
7313.64	90.50	89.91	2894.80	7.40	4606.60	0.00	0.00	4606.61

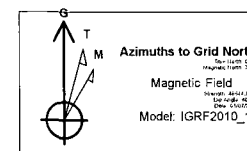
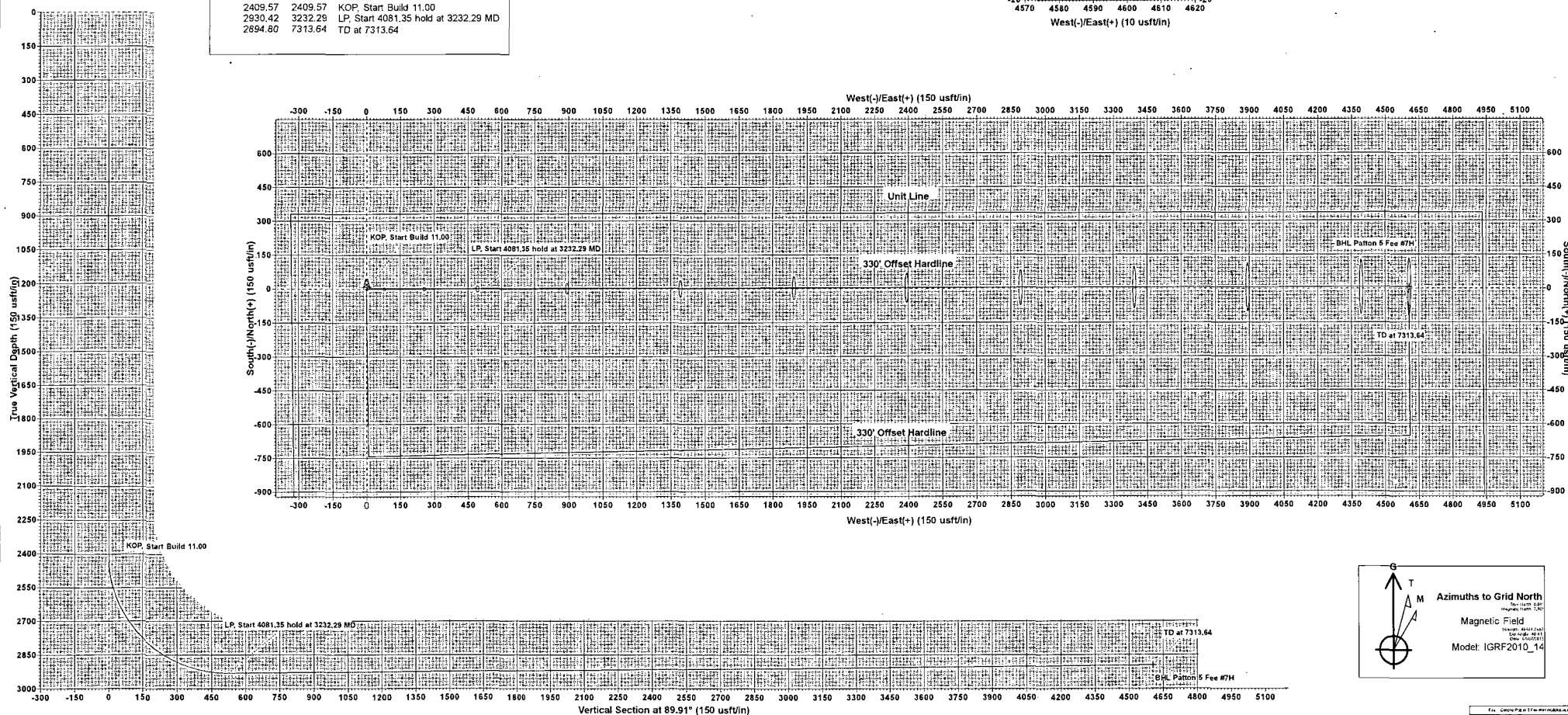
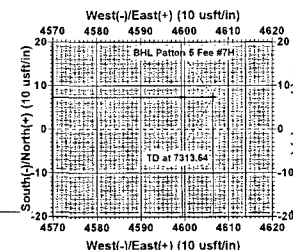
BHL Patton 5 Fee #7H

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL Patton 5 Fee #7H	2894.80	7.40	4606.60	612959.20	480564.40	Point

ANNOTATIONS

TVD	MD	Annotation
2409.57	2409.57	KOP, Start Build 11.00
2930.42	3232.29	LP, Start 4081.35 hold at 3232.29 MD
2894.80	7313.64	TD at 7313.64



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 30-015-39640	Pool Code 3250	Pool Name Atoka; Glorieta-YEsO
Property Code	Property Name PATTON 5 FEE	Well Number 7H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3363

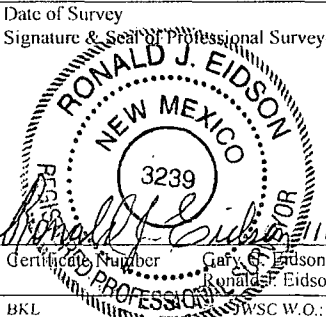
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	5	19-S	26-E		982	SOUTH	330	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
P	5	19-S	26-E		935	SOUTH	330	EAST	EDDY
Dedicated Acres 160	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=612951.8 N X=476057.8 E LAT.=32.685080° N LONG.=104.411152° W BOTTOM HOLE LOCATION Y=612959.2 N X=480664.4 E CORNER COORDINATES TABLE A - Y=613284.7 N, X=475724.0 E B - Y=613289.4 N, X=480992.7 E C - Y=611974.5 N, X=480999.1 E D - Y=611872.4 N, X=475739.2 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 unEDDYsed 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.  1-10-13 Signature Date Kelly J. Holly Printed Name kholly@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. OCTOBER 30, 2012 Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number 3239 Gary E. Eidson 12641 Ronald J. Eidson 3239 BKL WSC W.O.: 12.11.1741
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