

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

WELL API NO. 30-015-39814	
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 1H	
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 **D** : **380** feet from the **NORTH** 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.)
3381'

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 TVD**



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 respectfully requests permission to change TVD:

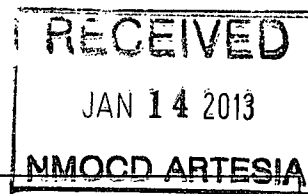
FROM: 2750'

TO: 3028'

A revised 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.

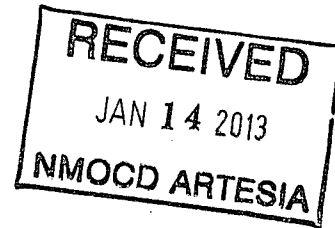
SIGNATURE TITLE **Permitting Tech** DATE **01/10/2013**

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

For State Use Only

APPROVED BY: TITLE **Permitting Tech** DATE **1/14/2013**

Conditions of Approval (if any):



Concho

**Eddy County, New Mexico (Nad27)
Patton 5 Fee #1H**

Wellbore #1

Plan: Plan 1 01-08-13

Surface: 380' FNL, 330' FWL, Sec 5, T19S, R26E, Unit D (Lot 4)

BHL: 380' FNL, 330' FEL, Sec 5, T19S, R26E, Unit A (Lot 1)

Standard Planning Report

09 January, 2013



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well: Patton 5 Fee #1H
Company:	Concho	TVD Reference:	WELL @ 3395.00usft (Original Well Elev)
Project:	Eddy County New Mexico (Nad27)	MD Reference:	WELL @ 3395.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 01-08-13		

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 #1H					
Well Position	+N/-S	3,211.50 usft	Northing:	616,822.20 usft	Latitude:	32° 41' 44.5864 N
	+E/-W	106.30 usft	Easting:	476,026.50 usft	Longitude:	104° 24' 40.5456 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level:		3,381.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/08/13	7.82	60.44	48,650

Design:	Plan 1 01-08-13			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	89.64

Plan Sections										
Measured			Vertical			Dogleg	Build	Turn		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
2,406.71	0.00	0.00	2,406.71	0.00	0.00	0.00	0.00	0.00	0.00	
3,212.16	88.60	89.64	2,927.42	3.17	508.13	11.00	11.00	0.00	89.64	
7,324.33	88.60	89.64	3,027.89	28.80	4,619.00	0.00	0.00	0.00	0.00	BHL Patton 5 Fee #1H



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well Patton 5 Fee #1H
Company:	Concho	TVD Reference:	WELL @ 3395.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3395.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 01-08-13		

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
2,406.71	0.00	0.00	2,406.71	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Start Build 11.00									
2,500.00	10.26	89.64	2,499.50	0.05	8.33	8.33	11.00	11.00	0.00
2,600.00	21.26	89.64	2,595.59	0.22	35.46	35.46	11.00	11.00	0.00
2,700.00	32.26	89.64	2,684.75	0.50	80.41	80.42	11.00	11.00	0.00
2,800.00	43.26	89.64	2,763.68	0.88	141.56	141.56	11.00	11.00	0.00
2,900.00	54.26	89.64	2,829.50	1.35	216.64	216.64	11.00	11.00	0.00
3,000.00	65.26	89.64	2,879.78	1.89	302.90	302.91	11.00	11.00	0.00
3,100.00	76.26	89.64	2,912.68	2.48	397.17	397.18	11.00	11.00	0.00
3,200.00	87.26	89.64	2,926.98	3.09	495.98	495.99	11.00	11.00	0.00
3,212.16	88.60	89.64	2,927.42	3.17	508.13	508.14	11.00	11.00	0.00
LP, Start 4112.17 hold at 3212.16 MD									
3,300.00	88.60	89.64	2,929.57	3.72	595.95	595.96	0.00	0.00	0.00
3,400.00	88.60	89.64	2,932.01	4.34	695.92	695.93	0.00	0.00	0.00
3,500.00	88.60	89.64	2,934.45	4.96	795.88	795.90	0.00	0.00	0.00
3,600.00	88.60	89.64	2,936.90	5.59	895.85	895.87	0.00	0.00	0.00
3,700.00	88.60	89.64	2,939.34	6.21	995.82	995.84	0.00	0.00	0.00
3,800.00	88.60	89.64	2,941.78	6.83	1,095.79	1,095.81	0.00	0.00	0.00
3,900.00	88.60	89.64	2,944.23	7.46	1,195.76	1,195.78	0.00	0.00	0.00
4,000.00	88.60	89.64	2,946.67	8.08	1,295.72	1,295.75	0.00	0.00	0.00
4,100.00	88.60	89.64	2,949.11	8.70	1,395.69	1,395.72	0.00	0.00	0.00
4,200.00	88.60	89.64	2,951.56	9.33	1,495.66	1,495.69	0.00	0.00	0.00
4,300.00	88.60	89.64	2,954.00	9.95	1,595.63	1,595.66	0.00	0.00	0.00
4,400.00	88.60	89.64	2,956.44	10.57	1,695.60	1,695.63	0.00	0.00	0.00
4,500.00	88.60	89.64	2,958.89	11.20	1,795.57	1,795.60	0.00	0.00	0.00
4,600.00	88.60	89.64	2,961.33	11.82	1,895.53	1,895.57	0.00	0.00	0.00
4,700.00	88.60	89.64	2,963.77	12.44	1,995.50	1,995.54	0.00	0.00	0.00
4,800.00	88.60	89.64	2,966.22	13.07	2,095.47	2,095.51	0.00	0.00	0.00
4,900.00	88.60	89.64	2,968.66	13.69	2,195.44	2,195.48	0.00	0.00	0.00
5,000.00	88.60	89.64	2,971.10	14.31	2,295.41	2,295.45	0.00	0.00	0.00
5,100.00	88.60	89.64	2,973.54	14.94	2,395.37	2,395.42	0.00	0.00	0.00
5,200.00	88.60	89.64	2,975.99	15.56	2,495.34	2,495.39	0.00	0.00	0.00
5,300.00	88.60	89.64	2,978.43	16.18	2,595.31	2,595.36	0.00	0.00	0.00
5,400.00	88.60	89.64	2,980.87	16.81	2,695.28	2,695.33	0.00	0.00	0.00
5,500.00	88.60	89.64	2,983.32	17.43	2,795.25	2,795.30	0.00	0.00	0.00
5,600.00	88.60	89.64	2,985.76	18.05	2,895.22	2,895.27	0.00	0.00	0.00
5,700.00	88.60	89.64	2,988.20	18.68	2,995.18	2,995.24	0.00	0.00	0.00
5,800.00	88.60	89.64	2,990.65	19.30	3,095.15	3,095.21	0.00	0.00	0.00
5,900.00	88.60	89.64	2,993.09	19.92	3,195.12	3,195.18	0.00	0.00	0.00
6,000.00	88.60	89.64	2,995.53	20.55	3,295.09	3,295.15	0.00	0.00	0.00
6,100.00	88.60	89.64	2,997.98	21.17	3,395.06	3,395.12	0.00	0.00	0.00
6,200.00	88.60	89.64	3,000.42	21.79	3,495.02	3,495.09	0.00	0.00	0.00
6,300.00	88.60	89.64	3,002.86	22.42	3,594.99	3,595.06	0.00	0.00	0.00
6,400.00	88.60	89.64	3,005.31	23.04	3,694.96	3,695.03	0.00	0.00	0.00
6,500.00	88.60	89.64	3,007.75	23.66	3,794.93	3,795.00	0.00	0.00	0.00
6,600.00	88.60	89.64	3,010.19	24.29	3,894.90	3,894.97	0.00	0.00	0.00
6,700.00	88.60	89.64	3,012.64	24.91	3,994.87	3,994.94	0.00	0.00	0.00
6,800.00	88.60	89.64	3,015.08	25.53	4,094.83	4,094.91	0.00	0.00	0.00
6,900.00	88.60	89.64	3,017.52	26.16	4,194.80	4,194.88	0.00	0.00	0.00
7,000.00	88.60	89.64	3,019.97	26.78	4,294.77	4,294.85	0.00	0.00	0.00
7,100.00	88.60	89.64	3,022.41	27.40	4,394.74	4,394.82	0.00	0.00	0.00
7,200.00	88.60	89.64	3,024.85	28.03	4,494.71	4,494.79	0.00	0.00	0.00
7,300.00	88.60	89.64	3,027.30	28.65	4,594.68	4,594.76	0.00	0.00	0.00



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well Patton 5 Fee #1H
Company:	Concho	TVD Reference:	WELL @ 3395.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3395.00usft (Original Well Elev)
Site:	Patton 5 Fee	North Reference:	Grid
Well:	Patton 5 Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan 1 01-08-13		

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)
7,324.33	88.60	89.64	3,027.89	28.80	4,619.00	4,619.09	0.00	0.00	0.00
TD at 7324.33 - BHL Patton 5 Fee #1H									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	
Shape									Latitude Longitude
BHL Patton 5 Fee #1H	- plan hits target center	0.00	360.00	3,027.89	28.80	4,619.00	616,851.00	480,645.50	32° 41' 44.9018 N 104° 23' 46.4928 W
	- Point								

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,406.71	2,406.71	0.00	0.00	KOP, Start Build 11.00
3,212.16	2,927.42	3.17	508.13	LP, Start 4112.17 hold at 3212.16 MD
7,324.33	3,027.89	28.80	4,619.00	TD at 7324.33

Concho

Project: Eddy County, New Mexico (Nad27)
 Site: Patton 5 Fee
 Well: Patton 5 Fee #1H
 Wellbore: Wellbore #1
 Plan: Plan 1 01-08-13
 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 #1H

Ground Level: 3381.00
 Northing 616822.20 Easting 476026.50 32° 41' 44.5864 N 104° 24' 40.5456 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
2406.71	0.00	0.00	2406.71	0.00	0.00	0.00	0.00	0.00
3212.16	88.60	89.64	2927.42	3.17	508.13	11.00	89.64	508.14
7324.33	88.60	89.64	3027.89	28.80	4619.00	0.00	0.00	4619.09

BHL Patton 5 Fee #1H

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
BHL Patton 5 Fee #1H	3027.89	28.80	4619.00	616851.00	480645.50	Point

ANNOTATIONS

TVD	MD	Annotation
2406.71	2406.71	KOP, Start Build 11.00
2927.42	3212.16	LP, Start 4112.17 hold at 3212.16 MD
3027.89	7324.33	TD at 7324.33

