

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

WELL API NO. 30-015-39812
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Bradley 8 Fee
8. Well Number 3H
9. OGRID Number 229137
10. Pool name or Wildcat Atoka; Glorieta-Yeso 3250
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3373'

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 **2260** feet from the **EAST** line
Section **8** Township **19S** Range **26E** NMPM County **EDDY**

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.

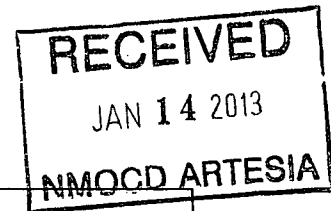
COG Operating LLC respectfully requests permission to change TVD:

FROM: 2750'
TO: 3124'

A revised directional plan is attached for your review.

Spud Date:

Rig Release Date:

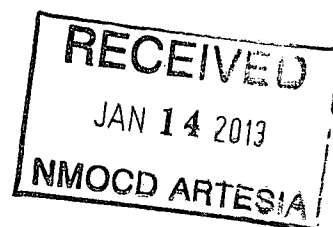


I hereby certify that the information above is true and complete to the best of my knowledge and belief.

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 **Geologist** DATE **1/14/2013**
Conditions of Approval (if any):



Concho

**Eddy County, New Mexico (Nad27)
Bradley 8 Fee 3H**

Wellbore #1

Plan: Plan 1 01-07-13

Surface: 150' FSL, 2260' FEL, Sec 8, T19S, R26E, Unit O

PP: 330' FSL, 2265' FEL, Sec 8, T19S, R26E, Unit O

BHL: 330' FNL, 2301' FEL, Sec 8, T19S, R26E, Unit B

Standard Planning Report

09 January, 2013



Phoenix
Planning Report

Database:	GCR-DB	Local Co-ordinate Reference:	Well Bradley 8 Fee 3H
Company:	Concho	TVD Reference:	WELL @ 3387.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3387.00usft (Original Well Elev)
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	Bradley 8 Fee 3H	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:	Bradley 8 Fee		
Site Position:		Northing:	606,797.50 usft
From:	Map	Easting:	478,847.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 40' 5.4048 N
		Longitude:	104° 24' 7.4539 W
		Grid Convergence:	-0.04°

Well:	Bradley 8 Fee 3H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,373.00 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	01/07/13	7.81
			Dip Angle
			60.42
			Field Strength
			48,635

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
			358.31

Plan Sections									
Measured									
Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO
(usft)	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)
			(usft)			(°/100usft)	(°/100usft)	(°/100usft)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,603.10	0.00	0.00	2,603.10	0.00	0.00	0.00	0.00	0.00	0.00
3,432.19	91.20	358.31	3,123.86	531.55	-15.65	11.00	11.00	0.00	358.31
7,749.71	91.20	358.31	3,033.44	4,846.25	-142.70	0.00	0.00	0.00	0.00 BHL Bradley 8 Fee 3H



Phoenix Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well Bradley 8 Fee 3H
Company:	Concho	TVD Reference:	WELL @ 3387.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3387.00usft (Original Well Elev)
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	Bradley 8 Fee 3H	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	
2,603.10	0.00	0.00	2,603.10	0.00	0.00	0.00	0.00	0.00	0.00	
KOP, Start Build 11.00										
2,700.00	10.66	358.31	2,699.44	8.98	-0.26	8.99	11.00	11.00	0.00	
2,800.00	21.66	358.31	2,795.34	36.76	-1.08	36.77	11.00	11.00	0.00	
2,900.00	32.66	358.31	2,884.18	82.31	-2.42	82.35	11.00	11.00	0.00	
3,000.00	43.66	358.31	2,962.69	143.98	-4.24	144.04	11.00	11.00	0.00	
3,049.79	49.14	358.31	2,997.01	180.00	-5.30	180.08	11.00	11.00	0.00	
PP Bradley 8 Fee 3H										
3,100.00	54.66	358.31	3,027.99	219.48	-6.46	219.58	11.00	11.00	0.00	
3,200.00	65.66	358.31	3,077.67	306.05	-9.01	306.18	11.00	11.00	0.00	
3,300.00	76.66	358.31	3,109.92	400.51	-11.79	400.68	11.00	11.00	0.00	
3,400.00	87.66	358.31	3,123.54	499.38	-14.70	499.59	11.00	11.00	0.00	
3,432.19	91.20	358.31	3,123.86	531.55	-15.65	531.78	11.00	11.00	0.00	
LP, Start 4317.52 hold at 3432.19 MD										
3,500.00	91.20	358.31	3,122.44	599.31	-17.65	599.57	0.00	0.00	0.00	
3,600.00	91.20	358.31	3,120.35	699.25	-20.59	699.55	0.00	0.00	0.00	
3,700.00	91.20	358.31	3,118.25	799.18	-23.53	799.53	0.00	0.00	0.00	
3,800.00	91.20	358.31	3,116.16	899.11	-26.47	899.50	0.00	0.00	0.00	
3,900.00	91.20	358.31	3,114.06	999.05	-29.42	999.48	0.00	0.00	0.00	
4,000.00	91.20	358.31	3,111.97	1,098.98	-32.36	1,099.46	0.00	0.00	0.00	
4,100.00	91.20	358.31	3,109.87	1,198.92	-35.30	1,199.44	0.00	0.00	0.00	
4,200.00	91.20	358.31	3,107.78	1,298.85	-38.25	1,299.42	0.00	0.00	0.00	
4,300.00	91.20	358.31	3,105.69	1,398.79	-41.19	1,399.40	0.00	0.00	0.00	
4,400.00	91.20	358.31	3,103.59	1,498.72	-44.13	1,499.37	0.00	0.00	0.00	
4,500.00	91.20	358.31	3,101.50	1,598.66	-47.07	1,599.35	0.00	0.00	0.00	
4,600.00	91.20	358.31	3,099.40	1,698.59	-50.02	1,699.33	0.00	0.00	0.00	
4,700.00	91.20	358.31	3,097.31	1,798.53	-52.96	1,799.31	0.00	0.00	0.00	
4,800.00	91.20	358.31	3,095.21	1,898.46	-55.90	1,899.29	0.00	0.00	0.00	
4,900.00	91.20	358.31	3,093.12	1,998.40	-58.84	1,999.26	0.00	0.00	0.00	
5,000.00	91.20	358.31	3,091.03	2,098.33	-61.79	2,099.24	0.00	0.00	0.00	
5,100.00	91.20	358.31	3,088.93	2,198.27	-64.73	2,199.22	0.00	0.00	0.00	
5,200.00	91.20	358.31	3,086.84	2,298.20	-67.67	2,299.20	0.00	0.00	0.00	
5,300.00	91.20	358.31	3,084.74	2,398.14	-70.61	2,399.18	0.00	0.00	0.00	
5,400.00	91.20	358.31	3,082.65	2,498.07	-73.56	2,499.15	0.00	0.00	0.00	
5,500.00	91.20	358.31	3,080.55	2,598.01	-76.50	2,599.13	0.00	0.00	0.00	
5,600.00	91.20	358.31	3,078.46	2,697.94	-79.44	2,699.11	0.00	0.00	0.00	
5,700.00	91.20	358.31	3,076.37	2,797.88	-82.38	2,799.09	0.00	0.00	0.00	
5,800.00	91.20	358.31	3,074.27	2,897.81	-85.33	2,899.07	0.00	0.00	0.00	
5,900.00	91.20	358.31	3,072.18	2,997.74	-88.27	2,999.04	0.00	0.00	0.00	
6,000.00	91.20	358.31	3,070.08	3,097.68	-91.21	3,099.02	0.00	0.00	0.00	
6,100.00	91.20	358.31	3,067.99	3,197.61	-94.16	3,199.00	0.00	0.00	0.00	
6,200.00	91.20	358.31	3,065.89	3,297.55	-97.10	3,298.98	0.00	0.00	0.00	
6,300.00	91.20	358.31	3,063.80	3,397.48	-100.04	3,398.96	0.00	0.00	0.00	
6,400.00	91.20	358.31	3,061.71	3,497.42	-102.98	3,498.93	0.00	0.00	0.00	
6,500.00	91.20	358.31	3,059.61	3,597.35	-105.93	3,598.91	0.00	0.00	0.00	
6,600.00	91.20	358.31	3,057.52	3,697.29	-108.87	3,698.89	0.00	0.00	0.00	
6,700.00	91.20	358.31	3,055.42	3,797.22	-111.81	3,798.87	0.00	0.00	0.00	
6,800.00	91.20	358.31	3,053.33	3,897.16	-114.75	3,898.85	0.00	0.00	0.00	
6,900.00	91.20	358.31	3,051.24	3,997.09	-117.70	3,998.82	0.00	0.00	0.00	
7,000.00	91.20	358.31	3,049.14	4,097.03	-120.64	4,098.80	0.00	0.00	0.00	
7,100.00	91.20	358.31	3,047.05	4,196.96	-123.58	4,198.78	0.00	0.00	0.00	
7,200.00	91.20	358.31	3,044.95	4,296.90	-126.52	4,298.76	0.00	0.00	0.00	



Phoenix
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well: Bradley 8 Fee 3H
Company:	Concho	TVD Reference:	WELL @ 3387.00usft (Original Well Elev)
Project:	Eddy County, New Mexico (Nad27)	MD Reference:	WELL @ 3387.00usft (Original Well Elev)
Site:	Bradley 8 Fee	North Reference:	Grid
Well:	Bradley 8 Fee 3H	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)
7,300.00	91.20	358.31	3,042.86	4,396.83	-129.47	4,398.74	0.00	0.00	0.00
7,400.00	91.20	358.31	3,040.76	4,496.77	-132.41	4,498.72	0.00	0.00	0.00
7,500.00	91.20	358.31	3,038.67	4,596.70	-135.35	4,598.69	0.00	0.00	0.00
7,600.00	91.20	358.31	3,036.58	4,696.64	-138.29	4,698.67	0.00	0.00	0.00
7,700.00	91.20	358.31	3,034.48	4,796.57	-141.24	4,798.65	0.00	0.00	0.00
7,749.71	91.20	358.31	3,033.44	4,846.25	-142.70	4,848.35	0.00	0.00	0.00
TD at 7749.71 - BHL Bradley 8 Fee 3H									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
PP Bradley 8 Fee 3H	- plan hits target center	0.00	360.00	2,997.01	180.00	-5.30	606,977.50	478,842.50	32° 40' 7.1860 N 104° 24' 7.5172 W
	- Point								
BHL Bradley 8 Fee 3H	- plan hits target center	0.00	360.00	3,033.44	4,846.25	-142.70	611,643.75	478,705.10	32° 40' 53.3607 N 104° 24' 9.1602 W
	- Point								

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
2,603.10	2,603.10	0.00	0.00	KOP, Start Build 11.00
3,432.19	3,123.86	531.55	-15.65	LP, Start 4317.52 hold at 3432.19 MD
7,749.71	3,033.44	4,846.25	-142.70	TD at 7749.71

Concho

Project: Eddy County, New Mexico (Nad27)
 Site: Bradley 8 Fee
 Well: Bradley 8 Fee 3H
 Wellbore: Wellbore #1
 Plan: Plan 1 01-07-13
 Rig: UDI 40



WELL DETAILS: Bradley 8 Fee 3H

Ground Level: 3373.00
 Northing 606797.50 Easting 478847.80 32° 40' 5.4048 N 104° 24' 7.4539 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
2603.10	0.00	0.00	2603.10	0.00	0.00	0.00	0.00	0.00
3432.19	91.20	358.31	3123.86	531.55	-15.65	11.00	358.31	531.78
7749.71	91.20	358.31	3033.44	4846.25	-142.70	0.00	0.00	4848.35

BHL Bradley 8 Fee 3H



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

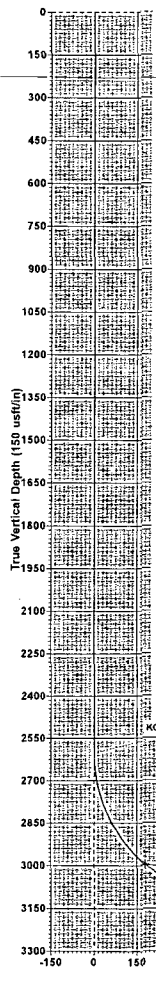
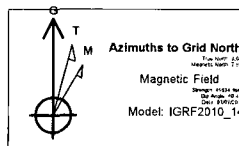
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
PP Bradley 8 Fee 3H	2603.10	180.00	-5.30	606777.50	478842.50	Point
BHL Bradley 8 Fee 3H	3033.44	4846.25	-142.70	611643.75	478705.10	Point

ANNOTATIONS

TVD	MD	Annotation
2603.10	2603.10	KOP, Start Build 11.00
3123.86	3432.19	LP, Start 4317.52 hold at 3432.19 MD
3033.44	7749.71	TD at 7749.71

PROJECT DETAILS: Eddy County, New Mexico (Nad27)

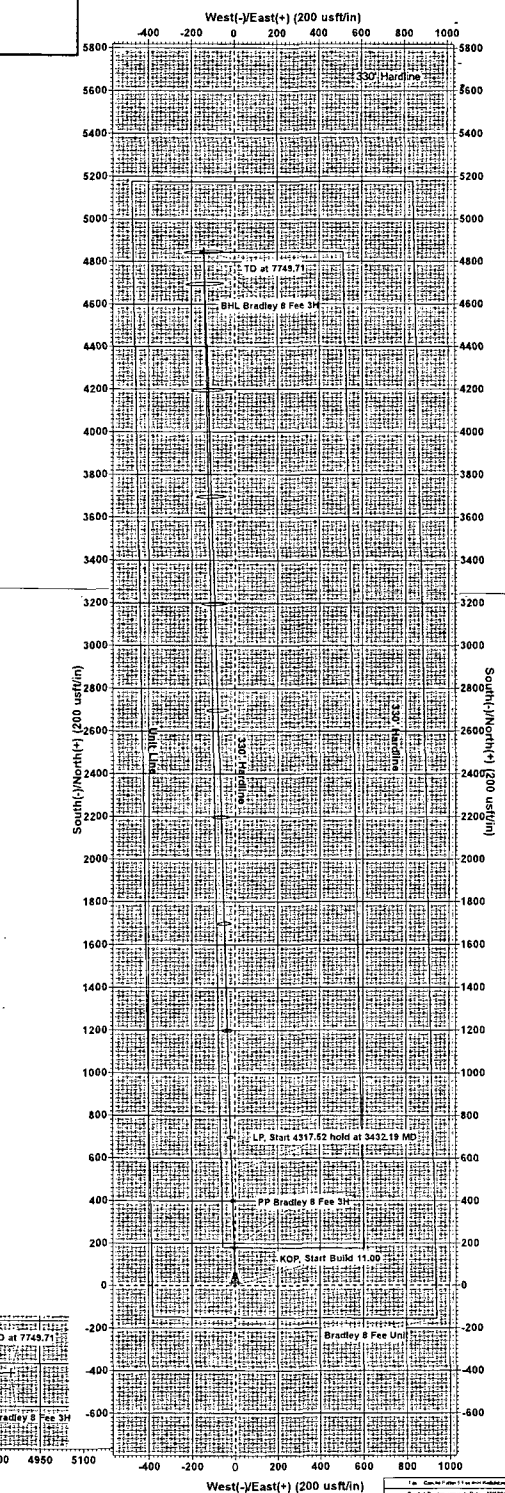
Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Location North: Grid



KOP, Start Build 11.00

PP Bradley 8 Fee 3H

LP, Start 4317.52 hold at 3432.19 MD



330' Hardline

TD at 7749.71

BHL Bradley 8 Fee 3H

306'

LP, Start 4317.52 hold at 3432.19 MD

PP Bradley 8 Fee 3H

KOP, Start Build 11.00

TD at 7749.71

BHL Bradley 8 Fee 3H