

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO 1004-0135
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

HOBBS OCD

1 Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		AUG 25 2011		5. Lease Serial No NMLC065710A
2 Name of Operator COG OPERATING LLC		Contact: DEBORA WILBOURN E-Mail: dwilbourn@concho.com		6 If Indian, Allottee or Tribe Name
3a Address 550 WEST TEXAS AVENUE SUITE 1300 MIDLAND, TX 79701-4287		3b Phone No. (include area code) Ph: 575-748-6958		7 If Unit or CA/Agreement, Name and/or No. NMNM70982X
4 Location of Well (Footage, Sec, T., R, M, or Survey Description) Sec 20 T19S R32E SWNW 1800FNL 330FWL				8 Well Name and No LUSK DEEP UNIT A 25H
				9 API Well No 30-025-40193-00-X1
				10. Field and Pool, or Exploratory W LUSK
				11. County or Parish, and State LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

COG OPERATING, LLC, RESPECTFULLY REQUESTS TO MAKE THE FOLLOWING CHGS TO THE ORIGINAL APD:

Will not drill a pilot hole. See attached directional plan.

Drill 7-7/8" lateral to approx 13,710' MD / 9350' TVD to approved BHL of 1800' FNL & 330' FEL. Run 5-1/2" 17# P110 LTC csg.

Cmt in 1 stg with:

Lead: 1050 sx 35:65:6 H + Salt + Gilsonite + CF + CFR-3 @ 12.7 ppg/1.89 yield

Tail: 1200 sx 50:50:2 H + Salt + GasStop + CFR-3 @ 14.4/1.25 yield

Tie back cmt to 2500'

14. Thereby certify that the foregoing is true and correct	
Electronic Submission #115557 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Hobbs Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/19/2011 (11DLM0706SE)	
Name (Printed/Typed) DEBORA WILBOURN	Title OPERATIONS ASSISTANT - NM
Signature (Electronic Submission)	Date 08/19/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 08/22/2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **



COG Operating LLC

Lea County, NM
Lusk Deep Unit A
No.25H
OH

Plan: Plan No.2

PathFinder X & Y

18 August, 2011

RECEIVED

AUG 25 2011

HOBBS OGD

PATHFINDER®

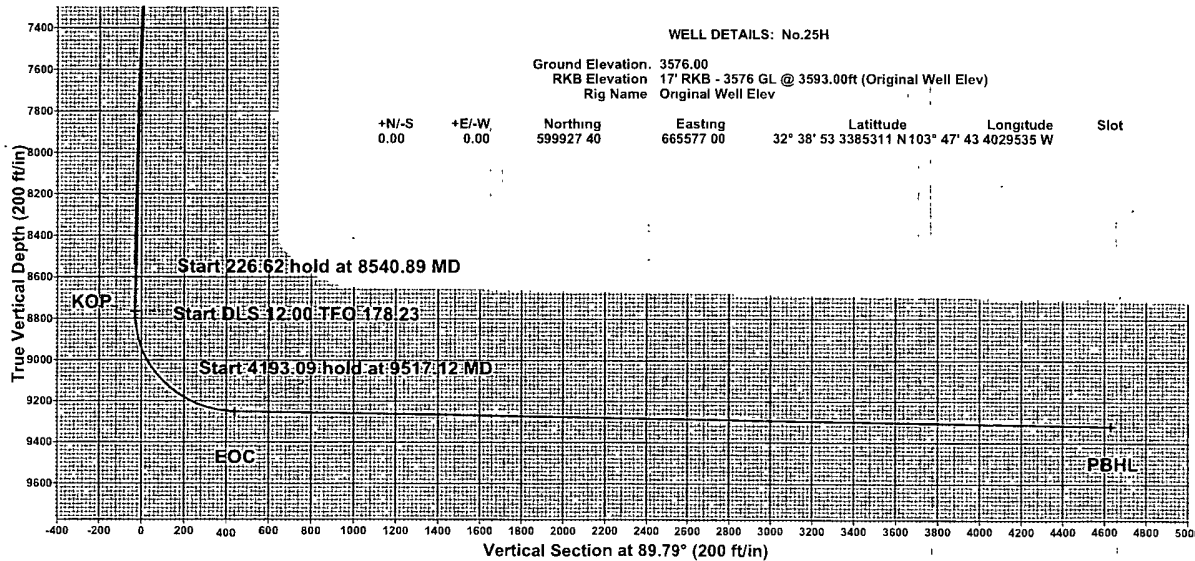
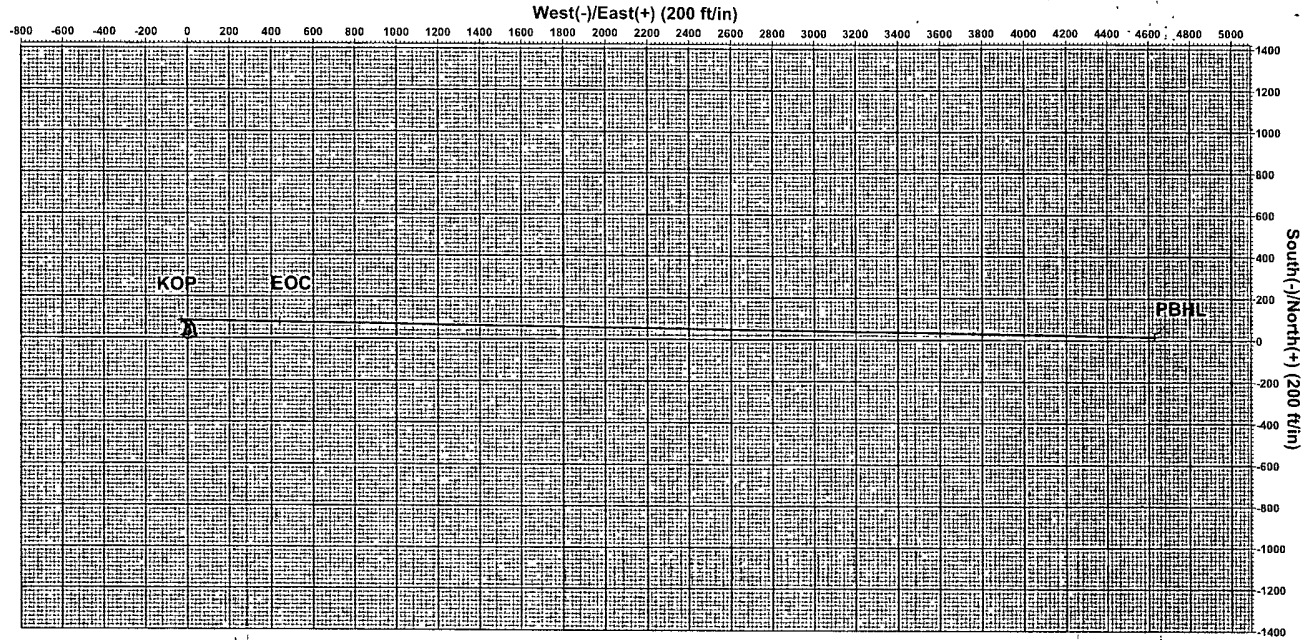
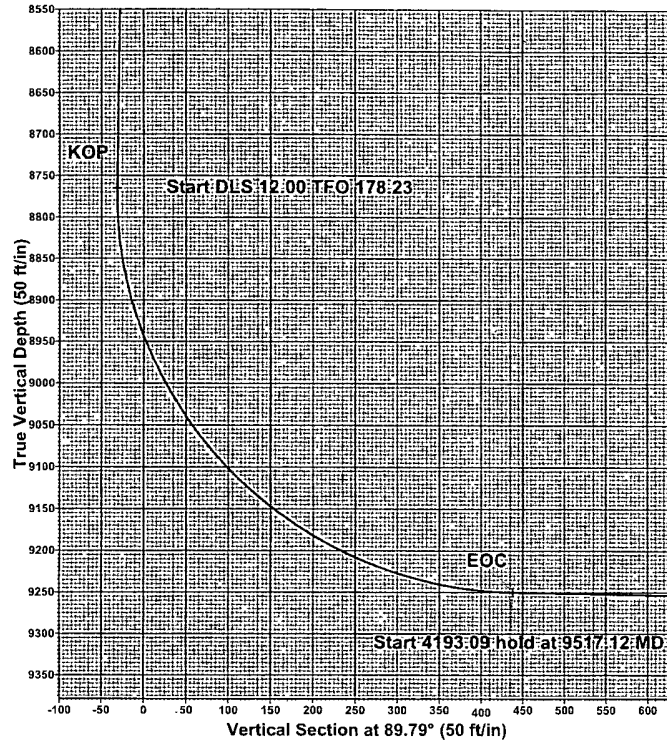
A Schlumberger Company



Project: Lea County, NM
Site: Lusk Deep Unit A
Well: No.25H
Wellbore: OH
Plan: Plan No.2 (No.25H/OH)



A Schlumberger Company



WELL DETAILS: No.25H

Ground Elevation: 3576.00
RKB Elevation: 17' RKB - 3576 GL @ 3593.00ft (Original Well Elev)
Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	599927.40	665577.00	32° 38' 53.3385311 N	103° 47' 43.4029535 W	

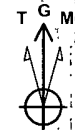
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8540.89	0.91	272.62	8538.43	85.61	-28.23	0.00	0.00	-27.92	
2	8767.51	0.91	272.62	8765.02	85.78	-31.83	0.00	0.00	-31.51	
3	9517.12	89.04	90.85	9250.00	79.07	437.56	12.00	178.23	437.85	
4	13710.20	89.04	90.85	9320.00	17.10	4629.60	0.00	0.00	4629.63	PBHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP	8765.02	85.78	-31.83	600013.18	665545.17	Point
EOC	9250.00	79.07	437.56	600006.47	666014.56	Point
PBHL	9320.00	17.10	4629.60	599944.50	670206.60	Point

PROJECT DETAILS: Lea County, NM
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
Local North: Grid



Azimuths to Grid North
True North: -0.29°
Magnetic North: 7.41°

Magnetic Field
Strength: 48828.0snT
Dip Angle: 60.53°
Date: 8/17/2011
Model: IGRF2010

Plan: Plan No 2 (No 25H/OH)

Created By: James Anderson Date: 13/27, August 18 2011



PathFinder A Schlumberger Company

PathFinder X & Y



A Schlumberger Company

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well No.25H
Project:	Lea County, NM	TVD Reference:	17' RKB - 3576 GL @ 3593.00ft (Original Well Ele
Site:	Lusk Deep Unit A	MD Reference:	17' RKB - 3576 GL @ 3593.00ft (Original Well Ele
Well:	No.25H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan No.2	Database:	1 Smith DB

Project:	Lea County, NM
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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:	Lusk Deep Unit A
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Site Position:		Northing:	599,927.40 ft	Latitude:	32° 38' 53.3385311 N
From:	Map	Easting:	665,577.00 ft	Longitude:	103° 47' 43.4029535 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	0.29°

Well:	No.25H
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Well Position	+N-S	0 00 ft	Northing:	599,927.40 ft	Latitude:	32° 38' 53.3385311 N
	+E-W	0 00 ft	Easting:	665,577.00 ft	Longitude:	103° 47' 43.4029535 W
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft	Ground Level:	3,576.00 ft	

Wellbore:	OH
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	8/17/2011	(°) 7.70	(°) 60.54	(nT) 48,828

Design:	Plan No.2
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Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 8,540.89

Vertical Section	Depth From (TVD)	+N-S	+E-W	Direction
	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°) 89.79



PathFinder A Schlumberger Company

PathFinder X & Y



A Schlumberger Company

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well No.25H
Project:	Lea County, NM	TVD Reference:	17 RKB - 3576 GL @ 3593.00ft (Original Well Ele
Site:	Lusk Deep Unit A	MD Reference:	17 RKB - 3576 GL @ 3593.00ft (Original Well Ele
Well:	No 25H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan No.2	Database:	1 Smith DB

Survey Tool Program		Date	8/18/2011											
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description										
100.00	8,540.89	Survey #1 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s										
8,540.89	13,710.08	Plan No.2 (OH)												

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)
8,540.89	0.91	272.62	8,538.43	4,945.43	85.61	-28.23	-27.92	0.00	600,013.01	665,548.77
8,600.00	0.91	272.62	8,597.53	5,004.53	85.65	-29.17	-28.85	0.00	600,013.05	665,547.83
8,700.00	0.91	272.62	8,697.52	5,104.52	85.73	-30.76	-30.44	0.00	600,013.13	665,546.24
8,767.51	0.91	272.62	8,765.02	5,172.02	85.78	-31.83	-31.51	0.00	600,013.18	665,545.17
KOP										
8,800.00	2.99	90.31	8,797.50	5,204.50	85.78	-31.24	-30.92	12.00	600,013.18	665,545.76
8,900.00	14.99	90.74	8,896.09	5,303.09	85.60	-15.64	-15.33	12.00	600,013.00	665,561.36
9,000.00	26.99	90.79	8,989.29	5,396.29	85.12	20.11	20.42	12.00	600,012.52	665,597.11
9,100.00	38.99	90.81	9,073.01	5,480.01	84.36	74.45	74.76	12.00	600,011.76	665,651.45
9,200.00	50.99	90.82	9,143.60	5,550.60	83.35	145.01	145.32	12.00	600,010.75	665,722.01
9,300.00	62.99	90.83	9,197.98	5,604.98	82.14	228.71	229.01	12.00	600,009.54	665,805.71
9,400.00	74.99	90.84	9,233.77	5,640.77	80.77	321.88	322.17	12.00	600,008.17	665,898.88
9,500.00	86.99	90.85	9,249.41	5,656.41	79.32	420.45	420.74	12.00	600,006.72	665,997.45
9,517.12	89.04	90.85	9,250.00	5,657.00	79.07	437.56	437.85	12.00	600,006.47	666,014.56
EOC										
9,600.00	89.04	90.85	9,251.38	5,658.38	77.85	520.42	520.70	0.00	600,005.25	666,097.42
9,700.00	89.04	90.85	9,253.05	5,660.05	76.37	620.39	620.67	0.00	600,003.77	666,197.39
9,800.00	89.04	90.85	9,254.72	5,661.72	74.89	720.37	720.64	0.00	600,002.29	666,297.37
9,900.00	89.04	90.85	9,256.39	5,663.39	73.41	820.34	820.61	0.00	600,000.81	666,397.34
10,000.00	89.04	90.85	9,258.06	5,665.06	71.94	920.32	920.58	0.00	599,999.34	666,497.32
10,100.00	89.04	90.85	9,259.73	5,666.73	70.46	1,020.29	1,020.55	0.00	599,997.86	666,597.29
10,200.00	89.04	90.85	9,261.40	5,668.40	68.98	1,120.27	1,120.52	0.00	599,996.38	666,697.27