

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNM OIL CONSERVATION
ARTESIA DISTRICTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS** **AUG 21 2015**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM125007
2. Name of Operator COG OPERATING LLC Contact: CHASITY JACKSON E-Mail: cjackson@concho.com		6. If Indian, Allottee or Tribe Name
3a. Address ONE CONCHO CENTER 600 W ILLINOIS AVENUE MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-686-3087	7. If Unit or CA/Agreement, Name and/or No. NMNM111789X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 11 T17S R29E SWNW 1115FWL 155FWL		8. Well Name and No. DODD FEDERAL UNIT 909H
		9. API Well No. 30-015-40345-00-S1
		10. Field and Pool, or Exploratory DODD - GLORIETA-UPPER YESO
		11. County or Parish, and State EDDY 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	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 correct the TVD
From:4737TVD
To:4123TVD per directional survey.
Survey attached.

820 9/2/15
Accepted for record
MAY 2015

14. I hereby certify that the foregoing is true and correct. Electronic Submission #291455 verified by the BLM Well Information System For COG OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by CATHY QUEEN on 06/10/2015 (15CQ0229SE)	
Name (Printed/Typed) CHASITY JACKSON	Title PREPARER
Signature (Electronic Submission)	Date 02/12/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	CHARLES NIMMER Title PETROLEUM ENGINEER	Date 08/17/2015
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 Carlsbad

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 ****

CRESCENT

DIRECTIONAL DRILLING

Minimum Curvature Calculation

Client: Concho Oil and Gas

M.W.D. OPERATORS: Stephen De Anda, Adrian Castro

Well: Dodd Fed Unit 909H

DIRECTIONAL DRILLERS: Don Hale, Leroy Salz

County: Eddy

Tool Azimuth to Grid North: 7.72

Rig: UDI #40

Job #: PB-12529

Vertical Section Angle: 90.08

API#: 30-015-40345

Sur #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N/-S	+E/-W	DLS
Tie In	3620.00	0.27	73.20	3619.70	0.00	-1.44	32.42	0.41
1	3656.00	0.20	45.30	3655.70	32.55	-1.37	32.55	0.37
2	3687.00	1.90	83.30	3686.69	33.10	-1.27	33.09	5.63
3	3719.00	5.60	85.20	3718.62	35.18	-1.08	35.18	11.57
4	3750.00	9.40	85.10	3749.35	39.21	-0.74	39.21	12.26
5	3782.00	13.10	87.90	3780.73	45.44	-0.38	45.44	11.68
6	3814.00	16.50	87.70	3811.66	53.61	-0.07	53.61	10.63
7	3845.00	20.00	86.60	3841.10	63.30	0.43	63.30	11.34
8	3877.00	23.70	87.20	3870.79	75.19	1.06	75.19	11.58
9	3909.00	27.50	88.60	3899.65	89.00	1.56	89.00	12.02
10	3940.00	31.10	90.00	3926.68	104.17	1.73	104.17	11.82
11	3971.00	34.70	90.70	3952.70	121.00	1.63	121.01	11.68
12	4005.00	38.30	91.40	3980.03	141.22	1.25	141.22	10.66
13	4036.00	41.80	91.00	4003.76	161.16	0.84	161.16	11.32
14	4067.00	45.30	90.20	4026.22	182.52	0.62	182.52	11.43
15	4098.00	49.10	89.60	4047.28	205.26	0.66	205.26	12.34
16	4130.00	53.00	89.60	4067.39	230.14	0.83	230.14	12.19
17	4163.00	56.80	90.70	4086.36	257.13	0.76	257.13	11.83
18	4194.00	60.30	90.70	4102.54	283.57	0.43	283.57	11.29
19	4226.00	64.20	90.30	4117.43	311.88	0.19	311.88	12.24
20	4258.00	68.20	90.20	4130.34	341.16	0.06	341.16	12.50
21	4290.00	72.20	89.80	4141.18	371.26	0.06	371.26	12.56
22	4321.00	74.90	89.60	4149.96	400.99	0.22	400.99	8.73
23	4353.00	76.90	89.60	4157.75	432.02	0.43	432.02	6.25
24	4385.00	77.90	89.80	4164.73	463.25	0.60	463.25	3.18
25	4417.00	80.20	90.70	4170.81	494.66	0.46	494.66	7.70
26	4449.00	82.30	90.90	4175.68	526.29	0.02	526.29	6.59
27	4480.00	84.80	91.70	4179.16	557.08	-0.68	557.08	8.46
28	4512.00	86.30	91.60	4181.64	588.97	-1.60	588.97	4.70
29	4544.00	86.90	91.40	4183.54	620.90	-2.44	620.90	1.98
30	4576.00	87.30	91.20	4185.16	652.86	-3.16	652.85	1.40
31	4607.00	87.80	90.50	4186.49	683.82	-3.62	683.82	2.77
32	4638.00	88.00	90.70	4187.62	714.80	-3.94	714.80	0.91
33	4702.00	88.80	90.20	4189.41	778.78	-4.45	778.77	1.47
34	4765.00	89.20	89.50	4190.51	841.76	-4.28	841.76	1.28
35	4828.00	89.40	88.80	4191.28	904.75	-3.35	904.75	1.16
36	4892.00	90.20	88.40	4191.50	968.73	-1.78	968.73	1.40
37	4955.00	91.20	88.60	4190.73	1031.70	-0.13	1031.70	1.62
38	5019.00	91.50	88.90	4189.22	1095.66	1.26	1095.67	0.66
39	5114.00	91.50	90.70	4186.74	1190.63	1.59	1190.63	1.89

measured Depth FT	incl Angle Deg	Drill Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.87	85.48	1899.76	-4.17	21.65	22.04	100.89	0.04
2000.00	0.89	87.22	1999.75	-4.07	23.18	23.54	99.95	0.03
2100.00	0.76	83.25	2099.74	-3.95	24.62	24.93	99.12	0.14
2200.00	0.64	74.69	2199.73	-3.73	25.82	26.08	98.21	0.16
2300.00	0.48	75.21	2299.73	-3.47	26.76	26.99	97.39	0.16
2400.00	0.42	83.17	2399.72	-3.32	27.53	27.73	96.88	0.09
2500.00	0.65	77.93	2499.72	-3.16	28.45	28.63	96.33	0.23
2600.00	0.41	60.11	2599.71	-2.86	29.32	29.46	95.57	0.28
2700.00	0.45	54.73	2699.71	-2.45	29.95	30.05	94.68	0.06
2800.00	0.31	16.79	2799.71	-1.97	30.35	30.42	93.71	0.28
2900.00	0.26	50.81	2899.71	-1.56	30.61	30.65	92.92	0.17
3000.00	0.13	301.47	2999.71	-1.36	30.69	30.72	92.55	0.32
3100.00	0.13	8.04	3099.71	-1.20	30.61	30.63	92.24	0.14
3200.00	0.09	80.83	3199.71	-1.07	30.70	30.72	92.00	0.13
3300.00	0.23	103.82	3299.71	-1.11	30.98	30.99	92.04	0.15
3400.00	0.28	105.65	3399.71	-1.22	31.41	31.43	92.22	0.06
3500.00	0.31	108.36	3499.70	-1.37	31.90	31.93	92.46	0.03
3600.00	0.21	88.25	3599.70	-1.45	32.34	32.37	92.57	0.13
3620.00	0.27	73.20	3619.70	-1.44	32.42	32.45	92.54	0.41

Company: COG OPERATING LLC (CONCHO)

Lease/Well: DODD FEDERAL UNIT/909H



Rig Name: UDI #40

State/County: NEW MEXICO/EDDY

Latitude: 32.85

GRID North is 0.15 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB=14 FT.

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: dodd fed #909h_ed.ut

Minimum Curvature Method

Report Date/Time: 8/22/2012 / 14:28

Vaughn Energy Services

Gardendale Texas

432-563-5444

Surveyor: Danny Spring

Dodd Federal Unit 909H / API 30-015-40345

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	***
100.00	0.09	199.50	100.00	-0.08	-0.03	0.08	199.50	0.09
200.00	0.39	199.50	200.00	-0.47	-0.17	0.50	199.50	0.30
300.00	0.53	224.56	300.00	-1.12	-0.60	1.28	208.25	0.24
400.00	0.62	210.92	399.99	-1.91	-1.20	2.26	212.15	0.16
500.00	0.53	215.99	499.99	-2.75	-1.75	3.27	212.50	0.10
600.00	0.44	128.70	599.98	-3.37	-1.73	3.79	207.11	0.68
700.00	0.88	100.19	699.98	-3.75	-0.67	3.81	190.13	0.53
800.00	1.36	81.69	799.96	-3.72	1.26	3.92	161.29	0.59
900.00	1.42	89.97	899.93	-3.54	3.67	5.10	133.98	0.21
1000.00	1.47	89.13	999.90	-3.52	6.19	7.12	119.64	0.05
1100.00	1.05	89.45	1099.87	-3.50	8.39	9.09	112.62	0.42
1200.00	1.13	96.81	1199.85	-3.60	10.28	10.89	109.31	0.16
1300.00	0.97	99.08	1299.84	-3.85	12.09	12.69	107.67	0.16
1400.00	0.95	98.27	1399.82	-4.11	13.76	14.36	106.62	0.02
1500.00	0.87	95.86	1499.81	-4.30	15.34	15.93	105.68	0.09
1600.00	0.93	89.98	1599.80	-4.38	16.91	17.46	104.53	0.11
1700.00	0.93	90.97	1699.79	-4.40	18.52	19.04	103.35	0.02
1800.00	0.90	83.29	1799.77	-4.32	20.11	20.57	102.12	0.13

WELL NAME AND NUMBER Dodd Federal Unit No. 909H
LOCATION Section 11, T17S, R29E, Lot D, 1115 FNL, 155 FWL, Eddy County
OPERATOR COG Operating LLC
DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.3° @ 145'		
.6° @ 422'		
1.5° @ 853'		
1.2° @ 1483'		
.9° @ 1648'		
.6° @ 2086'		
.6° @ 2531'		
.2° @ 2975'		
.3° @ 3419'		
77.9° @ 4385'		

Drilling Contractor- UNITED DRILLING, INC.

By: *Luisa Noriega*
(Luisa Noriega)

Title: Asst. Office Manager

Subscribed and sworn to before me this 4th day of September 2012.

Charles M. Miller
Notary Public
Charles Hawthorne
County State

My Commission Expires: 10/8/12

Minimum Curvature Calculation

M.W.D. OPERATORS: Stephen De Anda, Adrián Castro

DIRECTIONAL DRILLERS: Don Hale, Leroy Saiz

Tool Azimuth to Grid North: 7.72

Job #: PB-12529

API#: 30-015-40345

[illegible]