

HOBBS OCD

Operate OCD
HOBBS OCD

JAN 09 2020

JAN 09 2020

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL INFORMATION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other

b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

2. Name of Operator EOG RESOURCES, INC **Contact:** KAY MADDOX
E-Mail: KAY_MADDOX@EOGRESOURCES.COM

3. Address PO BOX 2267 MIDLAND, TX 79702 **3a. Phone No. (include area code)** Ph: 432-686-3658

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface Sec 9 T26S R34E Mer NMP SWSW 293FSL 347FWL 32.051501 N Lat, 103.482255 W Lon
At top prod interval reported below Sec 9 T26S R34E Mer NMP SWSW 572FSL 334FWL 32.052268 N Lat, 103.456252 W Lon
At total depth NWNW 108FNL 367FWL 32.079433 N Lat, 103.482216 W Lon

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. LOBO BLANCO 9 FEDERAL 701H

9. API Well No. 30-025-46079

10. Field and Pool, or Exploratory WC025 G09 S263416B;UP WC

11. Sec., T., R., M., or Block and Survey or Arca Sec 9 T26S R34E Mer NMP

12. County or Parish LEA **13. State** NM

14. Date Spudded 06/27/2019 **15. Date T.D. Reached** 08/07/2019 **16. Date Completed** ☐ D & A ☒ Ready to Prod. 11/11/2019

17. Elevations (DF, KB, RT, GL)* 3337 GL

18. Total Depth: MD 22866 TVD 12721 **19. Plug Back T.D.:** MD 22851 TVD 12721 **20. Depth Bridge Plug Set:** MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.500	9.625 J55	40.0		838		585		0	
8.750	7.625 HCP-110	29.7		12117		1530		0	
6.750	5.500 ICYP110	20.0		22851		995		7709	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12970	22851	12970 TO 22851	3.250	2100	OPEN
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
12970 TO 22851	25,312,876 LBS PROPPANT; 442,885 BBLs LOAD FLUID

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/11/2019	11/18/2019	24	→	2801.0	4800.0	14455.0	43.0		ACCEPTED FOR TESTING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64	SI	2515.0	→				1714	POW	DEC 11 2019
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						BUREAU OF LAND MANAGEMENT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						ROSWELL FIELD OFFICE

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #493107 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Reclamation due: 05/11/2020

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
RUSTLER	707		BARREN	RUSTLER	707
T/SALT	1042		BARREN	T/SALT	1042
B/SALT	3980		OIL & GAS	B/SALT	3980
BRUSHY CANYON	8105		OIL & GAS	BRUSHY CANYON	8105
1ST BONE SPRING SAND	10600		OIL & GAS	1ST BONE SPRING SAND	10600
2ND BONE SPRING SAND	11123		OIL & GAS	2ND BONE SPRING SAND	11123
3RD BONE SPRING SAND	12190		OIL & GAS	3RD BONE SPRING SAND	12190
WOLFCAMP	12624		OIL & GAS	WOLFCAMP	12624

32. Additional remarks (include plugging procedure):
PLEASE REFERENCE ATTACHMENTS

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #493107 Verified by the BLM Well Information System.
For EOG RESOURCES, INC, sent to the Hobbs
Committed to AFMSS for processing by JENNIFER SANCHEZ on 12/11/2019 ()

Name (please print) KAY MADDOX

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 11/20/2019

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.

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Lobo Blanco 9 Fed

#701H

OH

Design: OH

Final PVA Report

13 August, 2019



Final PVA Report

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 22' @ 3359.0usft
Site:	Lobo Blanco 8 Fed		MD Reference:	KB = 22' @ 3359.0usft
Well:	#701H		North Reference:	Grid
Wellbore:	OH		Survey Calculation Method:	Minimum Curvature
Design:	OH		Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lobo Blanco 8 Fed				
Site Position:	Northings:	383,514.00 usft	Latitude:	32° 3' 5.410 N	
From:	Map	Eastings:	805,018.00 usft	Longitude:	103° 28' 58.122 W
Position Uncertainty:	0.0 usft	Spot Radius:	13-3/16 "	Grid Convergence:	0.45 "

Well	#701H					
Well Position	+N-S	0.0 usft	Northings:	383,514.00 usft	Latitude:	32° 3' 5.410 N
	+E-W	0.0 usft	Eastings:	805,018.00 usft	Longitude:	103° 28' 58.122 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,337.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	12/17/2018	(°)	(°)	(nT)
			0.74	59.90	47,691.4182438

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	359.41	

Survey Program	Date	8/13/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
188.0	22,868.0	Lean MWD #1 (OH)	MWD	OWSG MWD - Standard



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3359.0usft
Site:	Lebo Blanco 9 Fed	MD Reference:	KB = 22' @ 3359.0usft
Well:	9701H	North Reference:	Gdd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	OLag (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
188.0	0.09	224.48	188.0	-0.1	-0.1	0.05	0.05	0.00	-0.1	0.0
325.0	0.09	201.80	325.0	-0.3	-0.2	0.03	0.00	-18.32	-0.3	-0.1
510.0	0.70	219.21	510.0	-1.3	-1.0	0.33	0.33	9.41	-1.6	0.1
695.0	0.53	160.55	695.0	-3.0	-1.8	0.19	-0.09	-15.49	-3.3	-1.3
789.0	0.68	184.40	789.0	-4.2	-2.0	0.38	0.37	-6.54	-4.3	-1.7
980.0	0.35	227.12	980.0	-6.0	-2.5	0.35	-0.28	22.37	-6.0	2.7
1,171.0	0.70	241.18	1,171.0	-7.0	-4.0	0.19	0.18	7.36	-6.8	4.2
1,362.0	0.26	328.02	1,362.0	-7.2	-5.2	0.38	-0.23	45.47	3.3	8.2
1,552.0	0.53	268.78	1,551.9	-8.8	-6.3	0.24	0.14	-31.18	-8.5	6.7
1,743.0	0.70	273.52	1,742.9	-8.8	-8.4	0.68	0.09	2.48	-8.0	7.3
1,934.0	0.70	254.71	1,933.8	-7.0	-10.7	0.12	0.00	-8.85	-12.1	3.9
2,124.0	0.62	227.12	2,123.9	-8.0	-12.6	0.17	-0.04	-14.52	-14.7	-2.7
2,315.0	0.68	182.08	2,314.9	-10.1	-12.9	0.44	0.14	-34.05	-5.7	-15.3
2,505.0	1.76	137.82	2,504.8	-13.7	-10.5	0.54	0.48	-12.77	-3.1	-18.9
2,696.0	2.20	130.79	2,695.7	-18.2	-5.7	0.26	0.23	-3.68	-7.6	-17.5
2,887.0	2.73	114.44	2,886.6	-22.5	1.2	0.46	0.28	-8.56	-10.4	-20.0
3,077.0	2.64	125.16	3,076.3	-26.9	8.8	0.27	-0.05	6.84	-22.8	-16.8
3,268.0	1.93	101.08	3,267.2	-30.1	15.7	0.62	-0.37	-12.61	-21.1	-26.5
3,459.0	2.29	168.93	3,458.1	-34.4	19.8	1.24	0.19	35.52	-37.5	12.6
3,649.0	2.81	181.77	3,647.9	-42.8	20.1	0.40	0.27	6.76	-42.1	21.5
3,840.0	3.08	168.05	3,838.7	-52.5	21.1	0.39	0.14	-7.18	-55.7	9.7
4,031.0	3.52	187.04	4,029.3	-63.3	21.4	0.81	0.23	8.94	-60.2	28.0
4,221.0	3.34	170.52	4,219.0	-74.6	21.6	0.53	-0.09	-8.69	-77.1	9.0
4,412.0	4.75	246.28	4,409.6	-83.3	13.3	2.86	0.74	39.66	-18.0	61.2
4,603.0	2.48	231.16	4,600.3	-89.0	4.8	1.29	-1.20	-7.92	-43.1	62.4
4,794.0	2.55	188.69	4,791.1	-85.8	1.1	0.99	0.05	-23.28	-64.9	10.9



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	K8 = 22' @ 3359.0usft
Site:	Lebo Blanco 9 Fed	MD Reference:	K8 = 22' @ 3359.0usft
Well:	#701H	North Reference:	Gdd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Asl (grid north usft)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Bull's ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
4,884.0	4.40	153.29	4,980.8	-106.5	3.9	1.40	0.97	-17.58	-56.8	-20.4
5,178.0	5.98	156.10	5,171.0	-122.2	11.3	0.84	0.83	1.47	-60.3	-8.5
5,368.0	3.98	202.51	5,361.3	-137.4	12.8	2.27	-1.06	24.30	-48.2	38.9
5,558.0	3.96	187.59	5,550.9	-149.7	8.3	0.18	0.00	-2.59	-46.3	30.4
5,747.0	3.78	188.18	5,741.4	-162.0	4.8	0.11	-0.09	-0.74	-43.8	25.8
5,938.0	3.23	210.95	5,932.1	-172.7	0.0	0.55	-0.28	7.73	-32.3	29.9
6,128.0	2.80	210.42	6,121.8	-181.5	-5.2	0.18	-0.18	-0.28	-27.9	22.2
6,319.0	2.37	209.36	6,312.6	-189.1	-9.6	0.28	-0.28	-0.55	-22.0	14.4
6,510.0	1.85	215.87	6,503.5	-195.0	-13.4	0.30	-0.27	3.41	-13.1	8.5
6,700.0	1.76	219.73	6,693.4	-199.7	-17.0	0.08	-0.05	2.03	-5.0	-0.1
6,891.0	1.58	218.33	6,884.3	-204.1	-20.5	0.10	-0.08	-0.73	1.5	-8.5
7,082.0	1.87	207.08	7,075.2	-208.6	-23.4	0.17	0.05	-5.89	1.0	-10.0
7,273.0	0.44	358.60	7,268.2	-210.3	-24.7	1.08	-0.64	79.33	-3.9	8.6
7,463.0	0.35	41.67	7,458.2	-209.2	-24.3	0.18	-0.05	22.67	2.8	10.2
7,654.0	0.18	23.56	7,647.2	-208.5	-23.8	0.10	-0.09	-9.48	-1.5	10.3
7,845.0	0.53	184.93	7,838.2	-209.1	-23.8	0.37	0.18	84.49	4.2	-9.2
8,036.0	0.88	214.28	8,029.2	-211.2	-24.7	0.28	0.18	15.37	-3.1	-8.6
8,226.0	0.68	210.42	8,219.1	-213.8	-28.2	0.03	0.00	-2.04	-5.4	-8.9
8,417.0	0.97	198.00	8,410.1	-218.4	-27.4	0.13	0.05	-7.55	-5.8	-11.3
8,607.0	1.58	187.23	8,600.1	-220.5	-28.7	0.32	0.32	0.65	-10.2	-11.1
8,797.0	1.41	180.36	8,790.0	-225.3	-29.4	0.25	-0.09	-8.88	-11.4	-14.4
8,988.0	1.78	180.36	8,980.9	-230.6	-29.5	0.18	0.18	0.00	-16.7	-14.4
9,179.0	1.14	209.91	9,171.9	-235.2	-30.4	0.48	-0.32	14.83	-28.0	-3.5
9,370.0	0.79	285.12	9,362.9	-238.6	-32.8	0.84	-0.18	40.21	-11.1	28.4
9,560.0	0.79	304.89	9,552.8	-235.5	-34.9	0.14	0.00	10.46	-4.0	28.0
9,751.0	0.97	350.69	9,743.8	-233.1	-38.3	0.37	0.09	23.93	15.4	24.1
9,941.0	1.49	28.31	9,933.8	-229.3	-33.3	0.49	0.27	19.80	23.2	10.6



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 0701H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 2' @ 3359.0usft
Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 2' @ 3359.0usft
Well:	0701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Azi (grid north azim)	TVD (usft)	N/S (usft)	E/W (usft)	OLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,132.0	1.87	3.00	10,124.7	-324.4	-34.0	0.37	0.09	-13.25	11.4	18.4
10,323.0	1.78	323.27	10,315.6	-219.3	-33.6	0.61	0.05	-20.80	-8.1	19.7
10,512.0	1.41	189.50	10,504.6	-219.2	-37.7	1.84	-0.19	-70.78	-8.9	-21.6
10,702.0	1.32	109.34	10,694.6	-222.2	-36.1	0.93	-0.05	-42.19	17.1	-14.8
10,893.0	1.08	137.29	10,885.5	-224.3	-32.8	0.33	-0.14	14.63	4.5	-20.0
11,084.0	0.53	158.21	11,078.5	-228.4	-31.3	0.31	-0.28	10.95	-5.5	-19.7
11,274.0	0.26	268.43	11,268.5	-227.2	-31.4	0.35	-0.14	58.01	-18.7	12.8
11,465.0	1.58	333.82	11,457.5	-224.8	-33.0	0.78	0.69	34.24	1.8	20.9
11,656.0	1.93	12.31	11,648.4	-219.4	-33.4	0.83	0.18	20.15	9.2	18.9
11,847.0	0.97	282.51	11,839.3	-215.8	-34.2	1.05	-0.50	-41.78	-17.2	8.9
12,038.0	0.35	158.09	12,030.3	-215.5	-33.5	0.65	-0.32	-69.85	5.9	-19.7
12,072.0	0.26	154.87	12,064.3	-215.7	-35.5	0.27	-0.28	-12.41	7.2	-19.2
12,256.0	2.37	13.37	12,248.3	-212.4	-34.4	1.40	1.15	-76.90	2.9	19.3
12,307.4	10.85	359.79	12,299.2	-208.5	-34.2	18.68	18.52	-28.44	-7.5	-19.2
KOP (LB 9 Fed 0701H)										
12,352.0	18.20	358.25	12,342.4	-193.3	-34.4	18.68	18.68	-3.45	-17.2	18.1
12,357.2	19.27	358.51	12,347.3	-193.6	-34.5	18.92	18.85	5.06	-18.2	18.2
HL Crossing, MD:12347.3, TVD:12347.3, N/S:-193.6, E/W:-34.5, INC:19.27										
12,447.0	38.23	0.89	12,428.5	-151.8	-34.4	18.92	18.89	2.85	-42.6	20.8
12,542.0	48.72	4.58	12,498.5	-88.0	-31.1	13.40	13.15	3.88	-73.5	21.8
12,638.2	53.84	8.59	12,555.6	-18.2	-22.0	6.68	5.22	5.32	-98.2	18.3
FTE (LB 9 Fed 0701H)										
12,638.0	53.73	9.68	12,556.6	-13.8	-21.7	6.68	5.33	4.96	-98.6	18.2
12,683.0	59.09	6.61	12,581.5	23.2	-18.5	13.28	11.91	-7.04	-107.6	8.1
12,733.0	69.79	4.75	12,608.9	68.1	-12.3	3.34	1.40	-3.52	-113.2	0.5
12,778.0	60.59	1.59	12,628.3	105.1	-10.1	6.35	1.78	-7.02	-112.7	-5.9
12,828.0	63.68	358.60	12,652.7	149.3	-10.1	8.10	6.14	-5.68	-107.3	-8.7



Final PVA Report

Company:	EDG Resources - Midland	Local Coordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3359.0ust
Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 22' @ 3359.0ust
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ust)	Inc (°)	Azi (grid north azim)	TVD (ust)	N/S (ust)	E/W (ust)	DLeg (°/100ust)	BuId (°/100ust)	Turn (°/100ust)	High to Plan (ust)	Right to Plan (ust)
12,673.0	63.31	358.43	12,672.8	189.5	-11.1	0.85	-0.78	-0.38	-98.0	-8.1
12,924.0	64.48	357.02	12,695.2	235.3	-12.9	3.35	2.25	-2.78	-81.8	-6.7
12,971.0	70.79	357.72	12,713.1	278.7	-14.9	13.54	13.47	1.49	-64.9	-4.6
13,019.0	70.26	357.37	12,729.1	323.9	-16.8	1.30	-1.10	-0.73	-48.5	-3.0
13,068.0	78.06	358.43	12,742.7	368.8	-18.5	12.53	12.34	2.26	-34.6	-1.6
13,114.0	80.11	359.30	12,752.6	415.7	-19.4	6.62	6.44	1.81	-24.3	-1.1
13,161.0	78.76	358.07	12,760.8	462.0	-20.5	2.68	-0.74	-2.62	-15.7	-0.4
13,210.0	87.14	357.02	12,766.4	510.6	-22.6	15.21	15.06	-2.14	-9.8	1.3
13,305.0	92.07	356.67	12,767.1	605.4	-27.8	5.20	5.19	-0.37	-8.4	6.7
13,401.0	91.98	0.54	12,763.7	701.3	-30.1	4.03	-0.09	4.03	-11.1	7.1
13,498.0	88.64	4.05	12,763.2	796.2	-26.3	5.10	-3.52	3.69	-10.9	2.5
13,591.0	88.09	5.11	12,767.5	890.8	-18.7	2.91	-2.68	1.12	-5.8	-5.9
13,687.0	89.25	1.94	12,771.4	986.5	-12.8	4.66	3.29	-3.30	-1.1	-12.6
13,782.0	88.79	0.18	12,774.7	1,081.4	-11.1	3.18	-2.59	-1.85	2.9	-15.2
13,878.0	84.77	358.43	12,781.9	1,177.2	-12.3	2.78	-2.10	-1.82	10.6	-14.9
13,973.0	88.29	358.07	12,787.5	1,271.6	-15.1	3.72	3.71	-0.38	17.1	-12.8
14,068.0	89.52	358.85	12,789.3	1,366.9	-17.6	1.59	1.28	0.93	19.7	-11.2
14,164.0	90.84	0.01	12,789.0	1,462.9	-18.5	1.78	1.37	1.10	20.1	-11.1
14,259.0	88.81	359.83	12,789.3	1,557.9	-18.6	2.15	-2.14	-0.19	21.1	-11.8
14,355.0	90.75	1.59	12,788.7	1,653.8	-17.4	2.73	2.02	1.83	22.2	-13.8
14,450.0	91.80	2.64	12,787.6	1,748.8	-13.9	1.56	1.11	1.11	20.9	-18.1
14,545.0	88.97	0.36	12,788.6	1,843.7	-11.4	5.62	-5.08	-2.40	22.6	-21.5
14,641.0	87.85	358.60	12,792.8	1,939.6	-12.3	2.05	0.92	-1.83	27.8	-21.5
14,736.0	90.13	357.90	12,794.6	2,034.6	-15.2	2.51	2.49	-0.74	30.0	-19.4
14,831.0	89.98	357.90	12,794.5	2,129.5	-18.7	0.18	-0.18	0.00	30.7	-16.7
14,927.0	89.43	357.72	12,795.0	2,225.4	-22.4	0.68	-0.55	-0.19	31.9	-13.9
15,022.0	93.83	357.37	12,792.3	2,320.2	-26.4	4.85	4.63	-0.37	39.0	-10.7



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3359.0usft
Site:	Lobo Blanco 8 Fed	MD Reference:	KB = 22' @ 3359.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 8000.14

MD (usft)	Inc (°)	Azi (grid north azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,117.0	93.47	359.13	12,788.3	2,415.0	-29.3	1.89	-0.38	1.85	24.8	-8.8
15,213.0	90.04	0.01	12,783.4	2,510.9	-30.0	3.69	-3.57	0.82	22.4	-8.7
15,308.0	90.22	0.01	12,783.1	2,605.8	-30.0	0.19	0.19	0.00	22.9	-8.5
15,404.0	91.18	0.54	12,782.0	2,701.9	-29.8	1.15	1.01	0.55	22.5	-10.8
15,499.0	88.37	2.12	12,782.3	2,796.8	-27.4	3.40	-2.97	1.68	23.6	-13.9
15,594.0	89.78	3.35	12,783.9	2,891.8	-22.8	1.87	1.48	1.29	25.9	-19.2
15,690.0	89.52	0.38	12,784.4	2,987.7	-19.7	3.13	-0.27	-3.11	27.2	-23.2
15,785.0	88.20	358.07	12,788.3	3,082.7	-21.0	2.78	-1.39	-2.41	29.8	-22.7
15,880.0	87.76	357.37	12,789.7	3,177.5	-24.8	0.87	-0.46	-0.74	33.8	-19.7
15,978.0	88.29	358.84	12,793.0	3,273.3	-29.8	0.78	0.55	-0.55	37.9	-15.7
16,071.0	91.63	0.71	12,793.1	3,368.3	-31.7	5.38	3.52	4.07	38.7	-14.5
16,166.0	88.72	0.54	12,792.8	3,463.3	-30.6	3.07	-3.06	-0.18	39.1	-16.4
16,251.7	89.19	359.81	12,794.3	3,548.9	-30.3	0.92	0.55	-0.74	41.3	-17.5
TOT 1 (LB 8 Fed #701H)										
16,282.0	89.25	359.83	12,794.6	3,559.3	-30.3	0.92	0.55	-0.74	41.5	-17.5
16,357.0	89.18	359.66	12,795.8	3,654.2	-30.8	0.20	-0.09	-0.18	43.7	-17.9
16,482.0	90.13	0.71	12,798.4	3,749.2	-30.4	1.50	1.02	1.11	45.1	-19.1
16,548.0	93.47	1.59	12,793.4	3,845.2	-28.8	3.60	3.48	0.92	43.0	-21.8
16,643.0	90.04	0.18	12,790.5	3,940.1	-27.1	3.80	-3.81	-1.48	40.9	-24.1
16,738.0	90.04	0.18	12,790.4	4,035.1	-28.8	0.00	0.00	0.00	41.7	-25.2
16,834.0	89.52	359.83	12,790.6	4,131.1	-26.7	0.63	-0.54	-0.38	42.9	-26.1
16,929.0	90.48	0.01	12,790.8	4,226.1	-28.9	1.03	1.01	0.19	43.7	-26.7
17,025.0	90.82	358.89	12,789.6	4,322.1	-27.8	1.20	0.48	-1.10	43.4	-26.7
17,120.0	90.31	357.37	12,788.6	4,417.0	-30.8	1.78	-0.84	-1.68	43.2	-24.8
17,215.0	91.45	358.07	12,787.1	4,511.9	-34.6	1.41	1.20	0.74	42.8	-31.5
17,311.0	89.34	355.98	12,786.4	4,607.8	-39.6	3.11	-2.20	-2.20	42.8	-17.3
17,408.0	91.01	357.20	12,786.2	4,702.6	-45.2	2.19	1.76	1.31	43.3	-12.5



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3359.0ush
Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 22' @ 3359.0ush
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Incl (°)	Azi (grid_north_uutm)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
17,501.0	92.33	357.02	12,783.4	4,797.4	-50.0	1.40	1.39	-0.19	41.4	-8.5
17,597.0	91.80	359.30	12,778.9	4,893.3	-33.1	2.44	-0.55	2.37	38.8	-6.3
17,692.0	91.54	359.66	12,777.2	4,889.3	-54.0	0.47	-0.27	0.38	38.8	-6.2
17,714.0	92.07	0.01	12,778.5	5,010.3	-54.0	2.89	2.41	1.59	36.3	-6.4
17,815.0	91.80	359.83	12,773.1	5,111.2	-54.2	0.32	-0.27	-0.18	33.6	-7.1
17,910.0	89.89	0.01	12,771.8	5,206.2	-54.3	2.23	-2.22	0.19	33.4	-7.8
18,006.0	89.89	359.83	12,772.3	5,302.2	-54.4	0.19	0.00	-0.19	34.8	-8.5
18,101.0	90.04	0.01	12,772.6	5,397.2	-54.6	0.41	0.37	0.19	35.8	-9.2
18,196.0	90.40	359.66	12,772.2	5,492.2	-54.9	0.53	0.38	-0.37	36.3	-9.7
18,292.0	90.66	359.48	12,771.3	5,588.2	-55.6	0.33	0.27	-0.19	36.3	-9.8
18,387.0	90.84	0.18	12,770.1	5,683.2	-55.9	0.76	0.19	0.74	35.9	-10.4
18,482.0	91.01	0.18	12,768.5	5,778.2	-55.6	0.18	0.18	0.00	35.2	-11.5
18,524.1	91.16	0.18	12,767.7	5,820.3	-55.4	0.36	0.36	0.00	34.7	-12.0
TOT 2 (L.B. 9 Fed #701H)										
18,578.0	91.36	0.18	12,766.5	5,874.1	-55.3	0.36	0.36	0.00	34.3	-12.6
18,673.0	91.88	0.18	12,763.8	5,969.1	-55.0	0.65	0.65	0.00	32.8	-13.7
18,768.0	92.15	359.48	12,760.4	6,064.0	-55.2	0.76	0.18	-0.74	30.7	-14.3
18,864.0	91.01	0.18	12,757.7	6,160.0	-55.5	1.39	-1.19	0.73	29.4	-14.8
18,959.0	89.52	359.83	12,757.3	6,255.0	-55.5	1.81	-1.57	-0.37	30.3	-15.7
19,055.0	89.69	359.48	12,757.9	6,351.0	-56.1	0.41	0.18	-0.36	32.3	-15.9
19,150.0	90.04	359.13	12,758.2	6,446.0	-57.2	0.52	0.37	-0.37	33.8	-15.8
19,245.0	90.84	358.78	12,757.4	6,541.0	-59.0	0.92	0.84	-0.37	34.4	-14.7
19,341.0	90.92	358.95	12,755.9	6,636.9	-60.9	0.20	0.08	0.18	34.3	-13.8
19,436.0	90.31	358.76	12,754.9	6,731.9	-62.8	0.87	-0.64	-0.18	34.6	-12.5
19,531.0	89.96	359.13	12,754.7	6,826.9	-64.5	0.52	-0.37	0.37	35.7	-11.6
19,627.0	90.40	359.13	12,754.4	6,922.9	-65.9	0.46	0.46	0.00	36.7	-11.0
19,722.0	90.40	358.95	12,753.7	7,017.9	-67.5	0.18	0.00	-0.18	37.4	-10.2



Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference:		Well #701H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference:		KB = 22' @ 3359.0ust	
Site: Lobo Blanco 9 Fed		MD Reference:		KB = 22' @ 3359.0ust	
Well: #701H		North Reference:		Grid	
Wellbore: OH		Survey Calculation Method:		Minimum Curvature	
Design: OH		Database:		EDM 5000.14	

MD (ust)	Inc (")	Azi (grid north azim)	TVD (ust)	NUS (ust)	EAW (ust)	DLeg ("/100ust)	Build ("/100ust)	Turn ("/100ust)	High to Plan (ust)	Right to Plan (ust)
19,817.0	90.84	358.60	12,762.7	7,112.8	-69.6	0.59	0.48	-0.37	37.7	-9.0
19,813.0	91.80	359.13	12,750.5	7,208.8	-71.5	1.14	1.00	0.55	36.8	-7.9
19,984.5	90.80	358.84	12,749.3	7,200.3	-72.4	2.02	-1.94	-0.66	36.3	-7.5
TOT 3 (LB 9 Fed #701H)										
20,008.0	89.96	358.60	12,749.0	7,303.8	-73.4	2.02	-1.94	-0.56	38.9	-6.8
20,104.0	90.75	358.43	12,748.4	7,399.7	-75.8	0.84	0.82	-0.18	38.7	-5.2
20,199.0	90.75	358.07	12,747.2	7,494.7	-78.7	0.38	0.00	-0.38	39.8	-3.2
20,294.0	90.75	357.55	12,746.0	7,589.6	-82.4	0.55	0.00	-0.55	40.9	-0.4
20,390.0	89.34	359.30	12,745.9	7,685.6	-85.0	2.34	-1.47	1.82	43.1	1.3
20,485.0	80.48	357.80	12,746.0	7,780.5	-87.3	1.80	1.20	-1.47	45.8	3.0
20,580.0	88.55	0.89	12,746.8	7,876.5	-89.3	3.75	-2.03	3.15	48.7	3.2
20,676.0	88.72	0.89	12,748.1	7,971.5	-88.8	0.18	0.18	0.00	53.3	0.9
20,771.0	90.48	1.59	12,749.8	8,066.4	-84.8	1.99	1.85	0.74	58.3	-2.9
20,780.8	81.02	1.59	12,749.5	8,088.2	-84.2	2.75	2.75	0.00	56.6	-2.7
TOT 4 (LB 9 Fed #701H)										
20,867.0	93.12	1.59	12,746.8	8,182.3	-82.1	2.75	2.75	0.00	54.8	-5.5
20,962.0	93.65	2.82	12,741.2	8,257.1	-78.5	1.41	0.58	1.29	50.2	-9.9
21,057.0	89.52	4.05	12,738.5	8,351.9	-72.8	4.84	-4.35	1.29	48.5	-16.4
21,152.0	90.75	2.47	12,738.3	8,448.7	-67.4	2.11	1.29	-1.66	49.2	-22.7
21,248.0	88.48	2.47	12,739.0	8,542.6	-63.3	2.39	-2.39	0.00	50.8	-27.7
21,351.0	87.49	1.59	12,742.6	8,645.5	-59.6	1.27	-0.94	-0.85	55.5	-32.2
21,448.0	87.58	0.01	12,748.7	8,740.4	-58.3	1.68	0.09	-1.66	60.8	-34.4
21,542.0	88.55	0.01	12,749.9	8,838.3	-58.3	1.01	1.01	0.00	64.7	-35.2
21,637.0	89.08	0.71	12,751.8	8,931.3	-57.7	0.92	0.58	0.74	67.6	-36.8
21,732.0	92.59	359.60	12,750.5	9,028.3	-58.2	4.31	3.69	-2.22	67.2	-38.9
21,769.3	82.68	358.60	12,748.8	9,083.5	-59.1	0.19	0.19	0.00	65.8	-38.3
TOT 5 (LB 9 Fed #701H)										



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3359.0ush
Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 22' @ 3359.0ush
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 6000.14

MD (ush)	Inc (")	Azi (grid_north_azim)	TVD (ush)	N/S (ush)	E/W (ush)	Dleg. (°/100ush)	Bulld (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
21,828.0	82.77	358.80	12,748.0	9,122.1	-60.8	0.19	0.19	0.00	63.8	-35.4
21,823.0	91.83	359.83	12,742.4	9,217.1	-61.9	1.78	-1.20	1.29	61.4	-34.9
22,019.0	92.42	359.68	12,739.0	9,313.0	-62.3	0.84	0.82	-0.18	59.2	-35.3
22,114.0	93.30	0.01	12,734.3	9,407.9	-62.8	1.00	0.93	0.37	55.7	-35.8
22,209.0	89.78	358.25	12,731.7	9,502.8	-64.0	4.14	-3.71	-1.85	54.3	-35.2
22,305.0	90.57	358.95	12,731.4	9,598.8	-66.4	1.10	0.82	0.73	55.3	-33.7
22,400.0	91.19	359.48	12,729.9	9,693.8	-67.7	0.88	0.65	0.56	65.0	-33.2
22,498.0	91.36	359.68	12,727.8	9,789.7	-68.4	0.26	0.18	0.19	54.1	-33.3
22,591.0	82.24	1.08	12,724.8	9,884.7	-67.8	1.74	0.93	1.47	52.3	-34.7
22,688.0	90.40	359.68	12,722.6	9,979.6	-67.2	2.43	-1.94	-1.47	51.3	-36.2
22,782.0	91.28	0.71	12,721.2	10,073.8	-68.9	1.43	0.92	1.09	51.2	-37.3
22,815.0	89.52	358.95	12,721.0	10,108.6	-67.0	7.54	-5.33	-5.33	51.3	-37.5
Final MWD Survey (MD=22815.0)										
22,865.8	89.52	358.95	12,721.4	10,159.2	-67.9	0.00	0.00	0.00	52.4	-37.0
PBHL (LB 9 Fed #701H)										
22,866.0	89.52	358.95	12,721.4	10,159.8	-67.9	0.00	0.00	0.00	52.4	-37.0
Final Projection to Bit (MD=22866.0)										

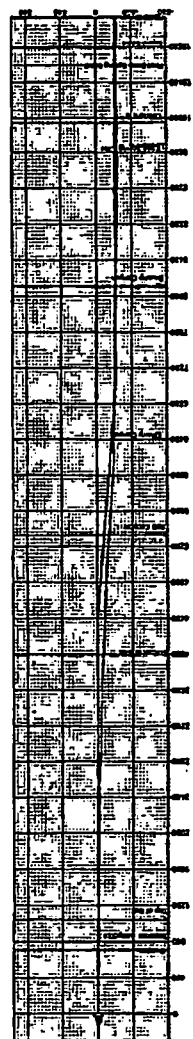
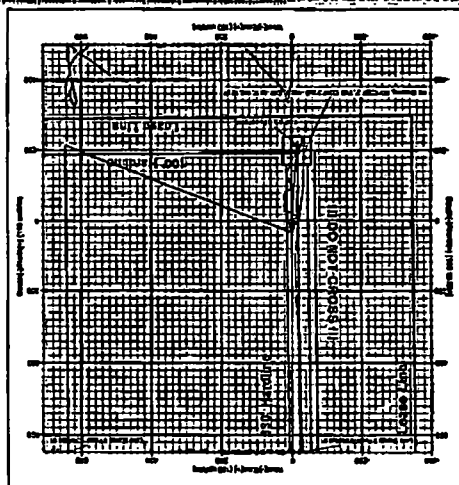
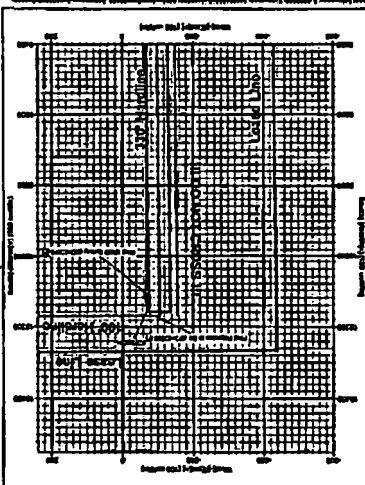
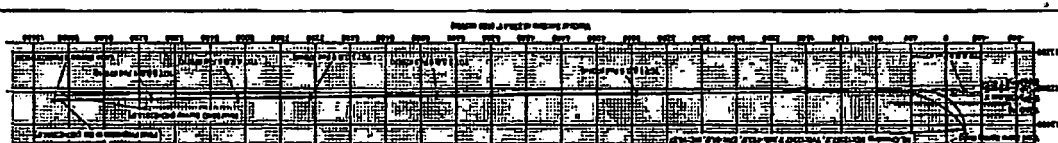
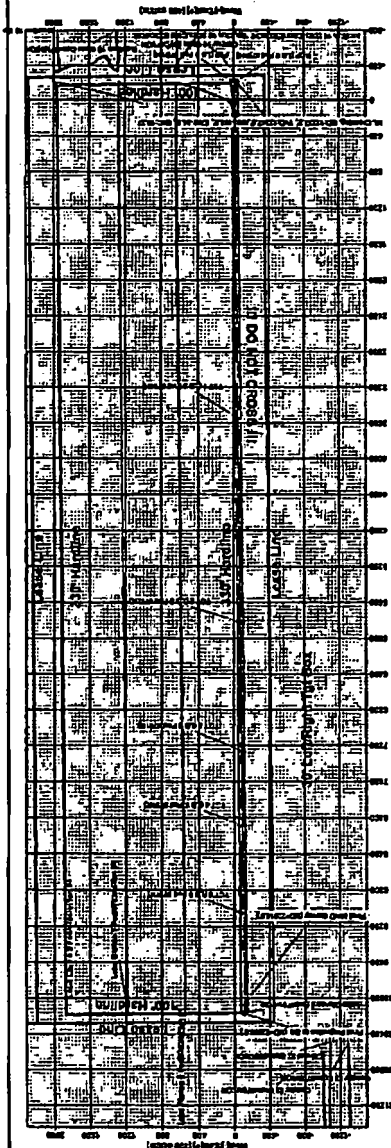
Design Annotations				
Measured Depth (ush)	Vertical Depth (ush)	Local Coordinates		Comment
		+N/S (ush)	+E/W (ush)	
12,357.2	12,347.3	-193.8	-34.5	HL Crossing, MD:12357.2, TVD:12347.3, N/S:-193.8, E/W:-34.5, INC:18.27
22,815.0	12,721.0	10,108.6	-67.0	Final MWD Survey (MD=22815.0)
22,866.0	12,721.4	10,159.8	-67.9	Final Projection to Bit (MD=22866.0)

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox
Signed

11/19/2019
Date

[illegible]

Sec	MD	INC	AD	TID	+HLS	+EHL	DIG	TFCG	WSTG	Target
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	4352.0	0.0	0.0	4325.0	0.0	0.0	0.0	0.0	0.0	
3	4575.2	5.0	104.0	6775.1	-1.0	-1.0	2.0	104.0	-10.0	
4	8733.8	0.0	104.0	6775.1	-20.1	-14.2	0.0	0.0	-20.2	
5	7034.1	0.0	0.0	7025.0	-214.0	-15.0	2.0	100.0	-31.8	
6	12509.7	0.0	0.0	12003.6	-214.0	-15.0	0.0	0.0	-21.8	
7	13083.3	90.4	315.0	12778.1	207.1	-1.2	12.0	335.0	207.1	
8	16340.1	0.0	0.0	16750.0	3334.7	47.8	0.0	0.0	3350.0	
9	10349.0	0.0	0.0	10350.0	3535.2	7.0	0.0	0.0	3535.4	
10	15930.0	0.0	158.0	15713.6	6543.4	97.5	2.0	0.0	3534.6	
11	16802.2	0.0	0.0	16750.0	6818.0	97.4	0.0	0.0	3534.6	
12	20088.6	90.0	350.0	12713.0	7236.0	-30.1	0.0	0.0	7266.0	
13	20088.6	90.0	350.0	12713.0	7236.0	-30.1	0.0	0.0	7266.0	
14	20881.1	90.0	350.0	12603.0	8304.5	-87.0	0.0	0.0	8065.0	
15	20923.1	91.5	350.0	12692.7	8126.0	-87.3	2.0	-10.0	8126.5	
16	21564.7	90.57	350.0	12687.0	9057.5	-93.6	2.0	0.0	9060.0	
17	21644.7	90.73	350.0	12682.9	9057.5	-93.6	2.0	0.0	9060.0	
18	22850.3	90.73	350.0	12689.0	10150.0	-106.9	0.0	0.0	10150.3	

SECTION DETAILS

07/1/78
K3-27 @ 11.50.00
Longbridge
22.55.14.00
007415100
004101800
22.5.6.1010
Longbridge
10.57.18.22.14
21.22.1.00.501

WIAAD 370430 TTBH

PROJECT DETAILS: Les Caouy, 104 POND RD (RD2)
Geocode System: US State Plane 1983
Datum: North American Datum 1983
CRS: GCS 1983
Zone: NAD83 Eastern Zone
System Datum: Mean Sea Level

Lea County, NM (NAD 83 NME)
Lobo Blanco 9 Fed #701H
Plan #1





United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

620 E. Greene St.

Carlsbad, NM 88220-6292



Notice of Change to Procedure – Please Read

To All Operators,

This is to notify you that the Bureau of Land Management (BLM) Carlsbad Field Office will no longer be supplying copies of sundries (3160-5), applications for permit to drill (APDs), or completion reports (3160-4) to the New Mexico Oil Conservation Division (NMOCD).

Effective immediately, to be in compliance with C-104 requirements, the NMOCD is requiring operators to submit a copy of any sundries, APDs, or completion reports processed by the BLM to the appropriate NMOCD office. This change will affect all BLM sundries, APDs, and completion reports in Eddy and Lea counties.

If a copy of a previously processed sundry, APD, or completion report is needed for submission to NMOCD, the Carlsbad Field Office will send a copy to the operator.

If you have any questions, please contact Jonathon Shepard (BLM) 575-234-2237.

Thank you

Note: This notice is being included in multiple communications from the BLM Carlsbad Field Office and you may receive multiple copies.