

HOBBS OCD
JAN 09 2020
HOBBS OCD
RECEIVEDUNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other			5. Lease Serial No. NMNM66927		
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator EOG RESOURCES, INC			7. Unit or CA Agreement Name and No.		
Contact: KAY MADDOX E-Mail: KAY_MADDOX@EOGRESOURCES.COM			8. Lease Name and Well No. LOBO BLANCO 9 FEDERAL 702H		
3. Address PO BOX 2267 MIDLAND, TX 79702			9. API Well No. 30-025-46080		
3a. Phone No. (include area code) Ph: 432-686-3658			10. Field and Pool, or Exploratory WC025 G09 S263416B;UP WC		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 9 T26S R34E Mer NMP At surface SWSW 326FSL 347FWL 32.051592 N Lat, 103.482255 W Lon Sec 9 T26S R34E Mer NMP At top prod interval reported below SWSW 412FSL 962FWL 32.051830 N Lat, 103.480272 W Lon Sec 4 T26S R34E Mer NMP At total depth NWNW 110FNL 999FWL 32.079431 N Lat, 103.480176 W Lon			11. Sec., T., R., M., or Block and Survey or Area Sec 9 T26S R34E Mer NMP		
14. Date Spudded 06/27/2019			12. County or Parish LEA		
15. Date T.D. Reached 08/26/2019			13. State NM		
16. Date Completed ☐ D & A ☒ Ready to Prod. 11/11/2019			17. Elevations (DF, KB, RT, GL)* 3336 GL		
18. Total Depth: MD 22983 TVD 12685			19. Plug Back T.D.: MD 22983 TVD 12685		
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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.500	9.625 J55	40.0		833		465		0	
8.750	7.625 HCP-110	29.7		12041		1530		0	
6.750	5.500 ICYP110	20.0		22968		995		8684	

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	12927	22983	12927 TO 22983	3.250	2160	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
12927 TO 22983	26,046,680 LBS PROPPANT; 479,319 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	11/17/2019	24	→	2445.0	4260.0	11961.0	43.0		FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64		2609.0	→				1743	POW	

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	
			→						

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

ELECTRONIC SUBMISSION #493113 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 05/11/2020

ACCEPTED FOR RECORD

DEC 11 2019

BUREAU OF LAND MANAGEMENT
ROSWEIL FIELD OFFICE

K2

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	1047		BARREN	T/SALT	1047
B/SALT	3985		OIL & GAS	B/SALT	3985
BRUSHY CANYON	8108		OIL & GAS	BRUSHY CANYON	8108
1ST BONE SPRING SAND	10603		OIL & GAS	1ST BONE SPRING SAND	10603
2ND BONE SPRING SAND	11126		OIL & GAS	2ND BONE SPRING SAND	11126
3RD BONE SPRING SAND	12195		OIL & GAS	3RD BONE SPRING SAND	12195
WOLFCAMP	12629		OIL & GAS	WOLFCAMP	12629

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 #493113 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

#702H

OH

Design: OH

Final PVA Report

30 August, 2019



Final PVA Report

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 22' @ 3358.0usft
Site:	Lobo Blanco 9 Fed		MD Reference:	KB = 22' @ 3358.0usft
Well:	#702H		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 9 Fed					
Site Position:	Northings:	383,514.00 usft	Latitude:	32° 3' 5.410 N	
From: Map	Easting:	805,018.00 usft	Longitude:	103° 28' 58.122 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 "

Well: #702H						
Well Position	+N-S	0.0 usft	Northings:	383,547.00 usft	Latitude:	32° 3' 5.737 N
	+E-W	0.0 usft	Easting:	805,018.00 usft	Longitude:	103° 28' 58.119 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,338.0 usft

Wellbore: OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/17/2018	6.74	89.90	47,691,48001082

Design: OH					
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	3.14	

Survey Program: Date: 8/30/2019					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
188.0	22,983.0	Learn MWD #1 (OH)	MWD	OWSG MWD - Standard	



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Site:	Lebo Blanco 9 Fed	MD Reference:	KB = 22' @ 3358.0usft
Well:	#702H	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)	D/Leg (°/100usft)	Build (°/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	1.06	187.53	188.0	-1.7	0.4	0.57	0.57	0.00	-1.7	0.0
325.0	1.41	152.59	325.0	-4.5	1.4	0.34	0.25	-10.75	-4.6	-0.8
510.0	1.23	181.24	509.9	-8.5	2.4	0.37	-0.10	15.49	-8.4	2.6
695.0	1.67	175.66	694.9	-13.1	2.6	0.25	0.24	-2.85	-13.3	1.7
784.0	1.76	176.84	783.8	-15.8	2.8	0.11	0.10	0.89	-15.9	1.9
973.0	2.55	69.97	972.7	-17.3	6.9	1.85	0.42	-58.54	-0.5	-18.8
1,183.0	2.55	71.20	1,182.6	-14.4	14.8	0.03	0.00	0.65	-8.4	-18.5
1,354.0	2.11	69.27	1,353.4	-11.8	22.1	0.23	-0.23	-1.01	-16.5	-18.8
1,545.0	2.02	68.45	1,544.3	-8.2	28.3	0.07	-0.05	-1.48	-22.5	-18.9
1,735.0	1.14	106.18	1,734.2	-8.4	33.4	0.71	-0.46	20.91	-34.4	1.2
1,926.0	1.41	131.32	1,925.1	-10.5	37.0	0.32	0.14	13.16	-34.7	16.5
2,117.0	1.85	126.22	2,116.1	-13.9	41.3	0.24	0.23	-2.67	-41.4	13.2
2,307.0	2.55	134.30	2,305.9	-18.6	46.7	0.40	0.37	4.25	-39.6	16.3
2,498.0	3.08	123.58	2,496.7	-24.4	64.1	0.39	0.28	-8.81	-31.8	3.5
2,688.0	3.78	115.50	2,686.4	-30.0	64.0	0.45	0.37	-4.25	-20.2	-3.6
2,879.0	5.63	106.71	2,876.7	-35.4	78.6	1.04	0.87	-4.66	-11.7	-5.9
3,070.0	7.30	102.14	3,068.6	-40.6	89.5	0.91	0.87	-2.39	-8.6	-4.0
3,261.0	10.11	98.62	3,259.3	-45.7	127.9	1.50	1.47	-1.84	-15.6	-0.4
3,451.0	8.97	91.41	3,442.8	-48.6	159.2	0.87	-0.60	-3.79	-25.0	3.3
3,642.0	8.53	97.39	3,631.4	-50.7	188.1	0.53	-0.23	3.13	-30.9	12.8
3,833.0	8.53	108.82	3,820.3	-57.1	215.6	0.89	0.00	5.98	-32.6	22.3
4,023.0	9.50	108.11	4,008.0	-66.6	243.8	0.51	0.51	-0.37	-39.5	22.9
4,214.0	10.46	107.94	4,196.1	-76.8	275.3	0.50	0.50	-0.09	-49.5	23.9
4,405.0	8.85	119.01	4,384.1	-80.1	306.1	1.07	-0.32	5.80	-64.5	32.9
4,596.0	11.81	114.44	4,571.8	-105.9	337.9	1.02	0.92	-2.39	-69.3	25.8
4,786.0	7.12	112.33	4,759.2	-118.3	368.2	2.37	-2.36	-1.11	-78.1	21.0



Final PVA Report

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Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 22' @ 3358.0ush
Well:	#702H	North Reference:	Gdd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (ush)	Inc (°)	Asd (grid_north_uash)	TVD (ush)	N/S (feet)	E/W (ush)	OLEg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
4,977.0	11.08	97.57	4,947.8	-125.2	395.4	2.39	2.07	-7.73	-88.3	3.8	
5,167.0	8.09	119.89	5,135.2	-134.3	425.1	2.48	-1.57	11.73	-87.8	40.1	
5,358.0	4.48	107.08	5,325.0	-143.2	443.9	2.02	-1.88	-8.72	-91.8	18.4	
5,549.0	4.22	101.96	5,515.4	-148.8	457.9	0.24	-0.14	-2.87	-84.5	13.1	
5,740.0	4.40	98.09	5,705.9	-149.3	472.0	0.18	0.09	-2.03	-76.8	12.1	
5,930.0	3.52	83.87	5,895.4	-150.8	485.0	0.48	-0.46	-2.22	-68.4	12.7	
6,121.0	3.10	100.73	6,086.1	-152.1	498.0	0.30	-0.22	3.59	-54.4	25.5	
6,312.0	4.48	104.60	6,276.7	-156.0	508.2	0.73	0.72	2.03	-42.0	32.0	
6,502.0	4.40	102.31	6,468.1	-158.4	522.5	0.10	-0.04	-1.21	-35.0	33.4	
6,693.0	4.13	126.04	6,656.8	-164.0	535.3	0.93	-0.14	12.42	-9.7	41.5	
6,884.0	3.87	124.89	6,847.2	-171.7	548.1	0.14	-0.14	-0.85	-1.1	35.5	
7,074.0	3.78	125.34	7,038.7	-178.0	558.5	0.05	-0.05	0.18	8.9	29.8	
7,265.0	3.17	130.08	7,227.4	-186.1	565.8	0.35	-0.32	2.49	21.8	21.8	
7,456.0	3.43	124.48	7,418.1	-192.7	574.4	0.22	0.14	-2.95	31.2	17.9	
7,647.0	3.34	133.07	7,608.7	-199.7	583.2	0.27	-0.05	4.51	43.9	5.1	
7,837.0	2.81	132.20	7,798.5	-208.8	590.7	0.28	-0.28	-0.46	84.5	-2.5	
8,028.0	2.46	134.83	7,889.3	-212.7	597.0	0.19	-0.18	1.38	58.4	-9.7	
8,218.0	1.76	140.48	8,180.1	-217.8	601.8	0.38	-0.37	2.95	49.2	-15.4	
8,409.0	1.58	160.87	8,370.0	-222.6	604.5	0.32	-0.09	10.84	35.5	-30.4	
8,600.0	1.58	148.02	8,561.0	-227.3	608.8	0.18	0.00	-8.82	38.1	-22.5	
8,791.0	1.49	159.82	8,751.9	-231.8	609.1	0.17	-0.05	6.07	25.8	-28.8	
8,981.0	1.78	173.88	8,941.8	-237.1	610.2	0.25	0.14	7.49	12.8	-33.8	
9,172.0	1.78	188.09	9,132.7	-242.9	610.1	0.23	0.00	7.45	-1.8	-35.0	
9,363.0	1.85	189.70	9,323.6	-248.7	608.7	0.20	0.05	6.08	-14.8	-33.3	
9,554.0	1.32	207.25	9,514.6	-253.5	608.8	0.30	-0.28	3.95	-24.3	-30.7	
9,744.0	0.44	67.88	9,704.6	-255.2	608.3	0.88	-0.48	-73.46	39.3	6.2	
9,934.0	0.82	40.44	9,894.8	-254.1	607.7	0.18	0.09	-14.34	30.4	23.1	



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Site: Lobo Blanco 9 Fed		MD Reference:		KB = 22' @ 3358.0usft	
Well: #702H		North Reference:		Gd	
Wellbore: OH		Survey Calculation Method:		Minimum Curvature	
Design: OH		Database:		EDM 5000.14	

MD (usft)	Inc (°)	Asl (grid north azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,125.0	0.62	214.99	10,085.5	-254.2	607.7	0.65	0.00	91.39	-28.1	-25.6
10,316.0	2.20	289.83	10,276.5	-255.1	603.5	1.00	0.83	28.71	-41.5	8.9
10,506.0	2.11	248.04	10,466.4	-256.4	598.8	0.43	-0.05	-11.47	-48.8	-8.5
10,697.0	1.41	257.00	10,657.3	-258.2	591.0	0.39	-0.37	4.69	-55.3	-0.2
10,888.0	2.29	270.18	10,848.2	-258.7	584.8	0.51	0.46	6.80	-60.0	12.9
11,078.0	2.81	285.09	11,038.0	-259.1	576.5	0.30	0.27	-2.89	-69.4	7.2
11,269.0	1.85	289.70	11,228.8	-258.5	568.9	0.72	-0.50	12.88	-67.4	37.4
11,460.0	1.23	282.10	11,418.8	-257.7	564.0	0.50	-0.32	-14.45	-61.9	0.5
11,651.0	1.49	288.95	11,610.7	-258.1	559.5	0.16	0.14	3.59	-85.7	10.5
11,842.0	1.41	225.36	11,801.6	-259.8	555.3	0.57	-0.04	-22.82	-73.6	-53.2
11,985.0	0.88	247.16	11,954.6	-261.5	552.9	0.44	-0.35	14.25	-90.9	-21.4
12,097.0	1.14	282.14	12,058.6	-261.6	551.2	0.84	0.25	34.29	-88.4	35.0
12,191.0	2.29	4.40	12,120.6	-260.2	550.7	3.78	1.60	128.53	21.4	93.0
12,256.0	6.33	24.87	12,215.3	-253.6	553.0	4.49	4.25	21.65	45.5	80.3
12,351.0	6.68	25.14	12,309.7	-244.3	557.3	0.37	-0.37	0.16	35.6	60.1
12,354.1	6.42	24.85	12,312.9	-244.0	557.5	14.12	14.68	-8.35	34.9	60.3
ROP (LB 9 Fed #702H)										
12,447.0	19.52	22.16	12,403.2	-224.8	565.5	14.12	14.10	-2.89	18.3	78.0
12,458.0	20.10	21.12	12,413.5	-221.4	566.9	8.19	5.30	-8.45	15.4	77.4
HL Crossing MD:12458.0, TVD:12413.5, N/S:-221.4, EW:566.9, Inc:20.10										
12,542.0	24.71	14.77	12,491.2	-180.9	578.8	6.10	5.49	-7.58	0.1	68.8
12,638.0	39.13	11.98	12,572.4	-141.6	588.1	15.10	15.02	-2.93	-9.5	58.4
12,733.0	52.56	7.57	12,638.5	-74.6	599.3	14.53	14.18	-4.62	-21.6	46.3
FTR (LB 9 Fed #702H)										
12,828.0	56.89	5.46	12,693.3	2.4	608.1	4.89	4.54	-2.22	-25.4	36.2
12,875.0	61.91	3.70	12,717.2	42.8	611.3	11.16	10.68	-3.74	-23.7	32.0
12,924.0	69.91	2.47	12,737.2	87.4	613.7	16.49	16.33	-2.51	-22.0	28.8



Final PVA Report

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Wellbore:	OH				Survey Calculation Method:				Minimum Curvature			
Design:	OH				Database:				EDM 5000.14			
Survey												
UD (usd)	Inc (°)	Adj (grid_north_adj.)	TVD (usd)	N/S (usd)	E/W (usd)	DLeg (°/100usd)	BuId (°/100usd)	Turn (°/100usd)	High to Plan (usd)	Right to Plan (usd)		
12,971.0	71.58	2.29	12,752.7	131.7	615.5	3.57	3.63	-0.38	-19.0	26.5		
13,019.0	74.30	1.41	12,766.8	177.6	617.0	5.93	5.67	-1.83	-12.9	24.5		
13,066.0	80.90	0.18	12,776.9	223.5	617.6	14.27	14.04	-2.82	-6.0	23.3		
13,115.0	85.03	358.95	12,782.8	272.1	617.2	8.79	8.43	-2.51	0.1	23.3		
13,211.0	88.72	359.13	12,788.1	367.8	615.6	3.65	3.84	0.19	6.2	24.1		
13,306.0	88.46	359.30	12,790.4	462.9	614.3	0.33	-0.27	0.18	9.3	24.5		
13,401.0	88.99	359.68	12,792.6	557.8	613.5	0.67	0.56	0.38	12.2	24.6		
13,497.0	89.66	359.30	12,793.4	653.8	612.6	1.08	1.01	-0.37	13.9	24.6		
13,592.0	91.10	0.01	12,792.6	748.8	612.0	1.41	1.20	0.75	13.8	24.4		
13,687.0	92.24	0.89	12,789.8	843.8	612.8	1.52	1.20	0.83	11.8	22.8		
13,783.0	90.22	0.89	12,787.7	939.7	614.3	2.10	-2.10	0.00	10.5	20.5		
13,878.0	89.69	2.29	12,787.8	1,034.7	616.9	1.58	-0.56	1.47	11.4	17.0		
13,974.0	90.75	1.94	12,787.4	1,130.6	620.4	1.18	1.10	-0.36	11.8	12.6		
14,069.0	89.78	1.41	12,787.0	1,225.6	623.2	1.16	-1.02	-0.56	12.2	9.0		
14,164.0	90.13	2.12	12,787.1	1,320.5	626.1	0.83	0.37	0.75	13.0	5.3		
14,260.0	90.46	2.47	12,786.8	1,416.5	630.0	0.52	0.36	0.38	13.3	0.6		
14,355.0	89.34	2.47	12,786.7	1,511.4	634.1	1.20	-1.20	0.00	14.2	-4.3		
14,411.1	89.29	2.67	12,787.4	1,567.4	636.6	0.38	-0.09	0.36	15.4	-7.3		
TOT 1 (LB 9 Fed #702H)												
14,451.0	89.25	2.82	12,787.9	1,607.3	638.5	0.38	-0.09	0.36	16.2	-9.8		
14,546.0	89.87	2.82	12,788.6	1,702.1	643.2	0.65	0.65	0.00	17.7	-15.0		
14,641.0	88.64	0.54	12,789.9	1,787.1	648.0	2.73	-1.28	-2.40	19.7	-18.7		
14,737.0	88.46	359.48	12,792.3	1,893.0	648.0	1.12	-0.19	-1.10	22.9	-19.5		
14,832.0	90.40	0.01	12,793.2	1,988.0	645.6	2.12	2.04	0.56	24.6	-19.9		
14,927.0	91.63	0.89	12,791.5	2,083.0	648.3	1.59	1.29	0.83	23.7	-21.5		
15,023.0	91.19	0.54	12,789.2	2,179.0	647.5	0.59	-0.46	-0.36	22.1	-23.5		
15,118.0	89.16	0.38	12,788.9	2,274.0	648.3	2.15	-2.14	-0.19	22.6	-25.1		



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3358.0usft
Site:	Lobo Blanco 8 Fed	MD Reference:	KB = 22' @ 3358.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Incl (°)	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)
15,214.0	80.22	0.54	12,789.4	2,370.0	649.0	1.12	1.10	0.19	23.9	-26.7
15,309.0	89.34	0.54	12,789.8	2,465.0	649.9	0.93	-0.93	0.00	25.0	-28.4
15,404.0	87.49	359.83	12,782.4	2,559.9	650.2	2.09	-1.95	-0.75	28.4	-29.8
15,489.0	88.20	357.02	12,786.0	2,654.8	647.6	3.05	0.76	-2.96	32.8	-27.7
15,565.0	88.72	357.20	12,798.6	2,750.6	642.8	0.57	0.54	0.19	36.1	-23.7
15,680.0	88.84	357.90	12,800.7	2,845.5	638.7	0.74	-0.08	0.74	39.0	-20.5
15,788.0	90.48	358.78	12,801.5	2,941.5	635.9	2.12	1.82	0.92	40.6	-18.5
15,881.0	91.63	0.01	12,789.7	3,038.5	634.9	1.77	1.21	1.29	39.6	-18.4
15,978.0	91.45	0.01	12,797.2	3,131.4	634.9	0.19	-0.19	0.00	37.8	-19.2
16,072.0	90.40	358.66	12,793.6	3,227.4	634.7	1.18	-1.09	-0.36	37.0	-19.7
16,167.0	90.22	358.83	12,785.1	3,322.4	634.2	0.26	-0.19	0.18	37.3	-20.1
16,282.0	90.82	358.83	12,794.2	3,417.4	634.0	0.74	0.74	0.00	37.1	-20.7
16,356.0	92.33	1.08	12,791.5	3,513.4	634.7	1.93	1.47	1.28	35.1	-22.2
16,453.0	93.83	1.41	12,788.3	3,608.2	636.7	1.62	1.58	0.37	30.8	-25.1
16,548.0	93.21	0.71	12,780.5	3,703.0	638.6	0.98	-0.65	-0.74	25.7	-27.7
16,644.0	91.01	359.68	12,777.0	3,798.8	638.8	2.84	-2.29	-1.09	23.0	-28.8
16,739.0	87.58	358.78	12,778.1	3,893.8	637.5	3.73	-3.61	-0.93	24.9	-28.4
16,834.0	88.72	358.85	12,781.2	3,988.8	635.6	1.21	1.20	0.18	28.7	-27.3
16,892.9	88.56	358.41	12,782.6	4,047.7	634.3	0.98	-0.27	-0.92	30.6	-26.5
TOT 2 (LB 8 Fed #702H)										
16,930.0	88.48	358.07	12,783.6	4,094.8	633.1	0.88	-0.27	-0.92	31.9	-25.7
17,025.0	88.29	357.55	12,786.3	4,179.7	629.5	0.58	-0.18	-0.55	35.6	-22.8
17,121.0	88.11	357.20	12,789.3	4,275.5	625.1	0.41	-0.19	-0.36	39.6	-19.3
17,216.0	88.37	357.55	12,792.2	4,370.4	620.8	0.46	0.27	0.37	43.5	-15.8
17,311.0	88.81	357.20	12,794.5	4,465.2	618.4	0.59	0.46	-0.37	46.8	-12.2
17,407.0	89.08	357.20	12,796.3	4,561.1	611.7	0.28	0.28	0.00	49.5	-8.4
17,502.0	90.31	356.84	12,796.8	4,656.0	606.8	1.35	1.29	-0.38	51.0	-4.3



Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #702H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 22' @ 3358.0ush	
Site: Lobo Blanco 9 Fed		MD Reference: KB = 22' @ 3358.0ush	
Well: #702H		North Reference: Grid	
Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		Database: EDM 5000.14	

Survey											
MD (ush)	Inc (°)	Azi (grid_north_azim)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Bu04 (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
17,597.0	91.89	358.84	12,793.0	4,750.8	601.8	1.88	1.66	0.00	50.2	0.1	
17,693.0	92.68	355.81	12,791.2	4,846.5	595.2	1.52	0.62	-1.28	47.3	5.6	
17,788.0	91.89	0.36	12,787.4	4,941.4	591.9	5.06	-0.83	5.00	44.5	8.2	
17,883.0	92.24	0.18	12,784.0	5,036.3	592.3	0.41	0.37	-0.19	42.0	6.9	
17,979.0	92.51	1.06	12,780.0	5,132.2	593.4	0.96	0.28	0.82	39.0	5.0	
18,074.0	90.66	0.71	12,777.3	5,227.2	594.9	1.98	-1.95	-0.37	37.4	2.7	
18,169.0	89.52	1.59	12,777.2	5,322.1	596.8	1.52	-1.20	0.83	38.2	0.0	
18,265.0	90.04	1.77	12,777.6	5,418.1	599.6	0.57	0.54	0.19	39.5	-3.6	
18,360.0	90.75	2.12	12,776.9	5,513.0	602.8	0.83	0.75	0.37	39.9	-7.7	
18,456.0	90.66	2.47	12,775.7	5,608.9	606.6	0.38	-0.09	0.36	39.7	-12.3	
18,551.0	89.60	1.94	12,775.5	5,703.9	610.3	1.25	-1.12	-0.56	40.4	-16.8	
18,646.0	89.98	1.94	12,775.8	5,798.8	613.5	0.38	0.38	0.00	41.8	-20.8	
18,742.0	91.45	0.71	12,774.7	5,894.8	615.7	2.01	1.55	-1.28	41.5	-23.9	
18,837.0	92.68	-0.54	12,771.3	5,989.7	618.8	1.31	1.29	-0.18	39.1	-25.8	
18,936.9	92.75	0.32	12,770.3	6,085.8	616.9	1.16	0.36	-1.10	38.3	-28.1	
TGY 3 (LB 9 Fed #702H)											
18,933.0	93.03	359.48	12,766.5	6,085.8	618.8	1.16	0.36	-1.10	35.5	-26.6	
19,028.0	93.03	358.43	12,761.5	6,180.4	615.1	1.10	0.00	-1.11	31.8	-25.8	
19,123.0	91.54	358.07	12,757.7	6,275.3	612.2	1.81	-1.57	-0.38	29.4	-23.7	
19,219.0	91.10	358.87	12,755.5	6,371.2	607.8	1.53	-0.46	-1.48	28.5	-20.1	
19,314.0	89.87	355.79	12,754.7	6,466.0	601.5	1.59	-1.29	-0.93	29.1	-14.6	
19,409.0	92.24	355.81	12,752.9	6,560.7	594.4	2.50	2.49	-0.19	28.6	-8.4	
19,505.0	92.77	356.14	12,748.7	6,656.3	587.5	0.78	0.55	0.55	25.8	-2.3	
19,600.0	92.33	366.67	12,744.5	6,751.1	581.5	0.72	-0.46	0.56	22.9	2.8	
19,695.0	92.68	355.79	12,740.3	6,845.8	575.3	1.00	0.37	-0.93	20.1	8.2	
19,791.0	92.15	358.07	12,738.3	6,941.5	570.2	2.44	-0.55	2.37	17.3	12.6	
19,886.0	90.22	359.83	12,734.3	7,036.5	568.4	2.75	-2.03	1.65	16.7	13.6	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3358.0usft
Site:	Lobo Blanco 9 Fed	MD Reference:	KB = 22' @ 3358.0usft
Well:	#702H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Asl (grid north, usft)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,982.0	90.57	0.18	12,733.7	7,132.5	568.4	0.52	0.38	0.38	17.4	12.7
20,077.0	89.08	359.48	12,734.0	7,227.5	568.1	1.73	-1.57	-0.74	19.0	12.1
20,172.0	88.84	358.83	12,735.9	7,322.5	568.8	0.73	-0.46	-0.56	22.2	12.8
20,268.0	89.08	358.13	12,737.8	7,418.4	565.2	0.50	0.46	0.19	25.5	13.4
20,288.4	89.08	358.05	12,738.1	7,438.8	564.9	0.37	0.00	-0.37	26.1	13.5
TOT 4 (LB 9 Fed #702H)										
20,363.0	89.08	358.78	12,739.3	7,513.4	563.5	0.37	0.00	-0.37	28.2	14.3
20,458.0	89.34	358.43	12,740.8	7,608.4	561.2	0.46	0.27	-0.37	30.6	15.8
20,554.0	90.04	358.07	12,741.1	7,704.3	558.3	0.82	0.73	-0.37	32.3	17.9
20,649.0	90.48	358.25	12,740.7	7,799.3	555.2	0.80	0.48	0.19	33.0	20.1
20,744.0	91.19	359.30	12,739.3	7,894.2	553.2	1.33	0.75	1.11	32.8	21.3
20,840.0	90.92	358.95	12,737.5	7,989.2	551.7	0.46	-0.28	-0.36	32.2	21.8
20,937.0	91.71	0.38	12,734.8	8,117.2	550.9	1.27	0.82	1.11	30.8	21.6
21,032.0	92.77	0.38	12,730.9	8,212.1	551.5	1.12	1.12	0.00	28.2	20.2
21,157.0	93.91	0.18	12,725.4	8,306.8	552.0	1.21	1.20	-0.19	23.8	18.8
21,253.0	90.66	358.83	12,721.5	8,402.8	552.0	3.40	-3.39	-0.36	21.2	18.1
21,348.0	91.19	0.01	12,720.0	8,497.8	551.9	0.59	0.58	0.19	20.8	17.4
21,444.0	91.45	359.30	12,717.8	8,593.8	551.3	0.78	0.27	-0.74	19.7	17.1
21,539.0	91.63	359.66	12,715.2	8,688.8	550.4	0.42	0.19	0.38	18.3	17.2
21,634.0	92.33	359.83	12,712.0	8,783.7	550.0	0.78	0.74	0.18	16.2	16.8
21,730.0	90.31	359.30	12,709.8	8,878.7	549.3	2.18	-2.10	-0.55	15.1	16.7
21,825.0	90.57	358.25	12,709.0	8,974.6	547.2	1.14	0.27	-1.11	15.5	17.8
21,920.0	91.01	358.78	12,707.7	9,069.6	544.8	0.73	0.46	0.58	15.4	18.5
21,949.1	91.20	358.78	12,707.1	9,098.7	544.2	0.65	0.85	0.00	15.2	19.9
TOT 8 (LB 9 Fed #702H)										
22,016.0	91.63	358.78	12,705.5	9,185.5	542.7	0.85	0.65	0.00	14.8	20.7
22,111.0	91.98	358.43	12,702.5	9,280.5	540.4	0.52	0.37	-0.37	14.0	22.2



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3358.0ush
Site:	Lobo Blanco 9 Fed.	MD Reference:	KB = 22' @ 3358.0ush
Well:	#702H	North Reference:	Gdd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Inc (°)	Azi (grid_north_azim)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
22,207.0	92.51	358.78	12,698.7	9,356.4	538.1	0.66	0.55	0.36	12.4	23.7
22,302.0	92.15	359.66	12,694.9	9,451.3	536.8	1.00	-0.38	0.93	10.6	24.2
22,397.0	91.10	359.30	12,692.2	9,546.2	535.9	1.17	-1.11	-0.38	10.1	24.2
22,493.0	90.31	358.25	12,691.0	9,642.2	533.9	1.37	-0.82	-1.09	11.0	25.5
22,588.0	90.84	3.00	12,690.1	9,737.2	534.9	5.03	0.56	5.00	12.2	23.6
22,684.0	91.28	2.47	12,688.3	9,833.0	539.5	0.72	0.48	-0.53	12.8	18.2
22,779.0	91.19	3.52	12,686.2	9,927.9	544.5	1.11	-0.09	1.11	12.7	12.4
22,874.0	91.10	6.88	12,684.3	10,022.5	563.1	3.52	-0.09	3.52	12.9	3.0
22,929.0	89.55	5.46	12,684.5	10,077.1	559.0	8.29	-4.64	-2.55	14.3	-3.3
Final MWD Survey (MD=22929.0)										
22,992.8	89.55	5.46	12,685.9	10,130.7	564.1	0.00	0.00	0.00	16.9	-8.9
PBH (LB 9 Fed #702H)										
22,993.0	89.55	5.46	12,685.9	10,130.9	564.1	0.00	0.00	0.00	16.9	-8.9
Final Projection to Bit (MD=22993.0)										

Design Annotations				
Measured Depth (ush)	Vertical Depth (ush)	Local Coordinates		Comment
		+N/S (ush)	+E/W (ush)	
12,458.0	12,413.5	-221.4	566.9	HL Crossing, MD:12458.0, TVD:12413.5, N/S:-221.4, E/W:566.9, INC:20.10
22,929.0	12,684.5	10,077.1	559.0	Final MWD Survey (MD=22929.0)
22,993.0	12,685.9	10,130.9	564.1	Final Projection to Bit (MD=22993.0)

Checked By: _____	Approved By: _____	Date: _____
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I certify this survey to be true and correct to the best of my belief and knowledge.

Signed Key Maddox Date 11/19/2019



Lea County, NM (NAD 83 NME)

Lobo Blanco 9 Fed #702H

Plan #1



Adjustment to Grid North
True North: 0.0°
Magnetic North: 0.2°
Magnetic Declination: 0.2°
Magnetic Field
Strength: 47291.5 nT
Dip Angle: 63.80°
Date: 10/17/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.2°
To convert a Grid Direction to a True Direction, Add 0.2° East
To convert a True Direction to a Grid Direction, Subtract 0.2°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Elevation: GDS 1988
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #702H

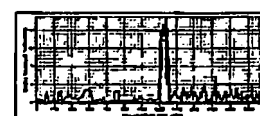
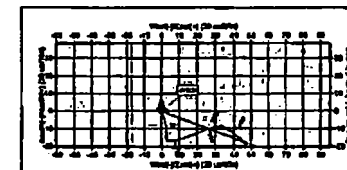
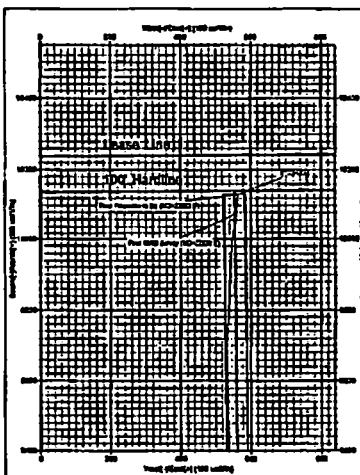
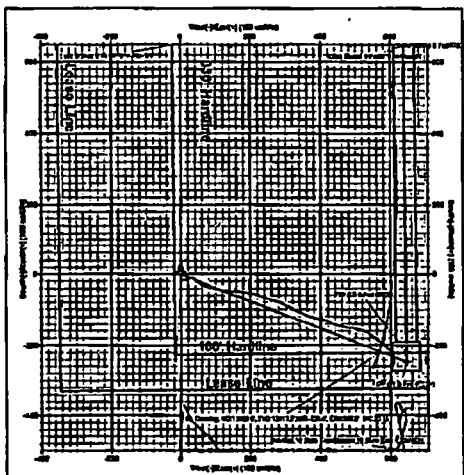
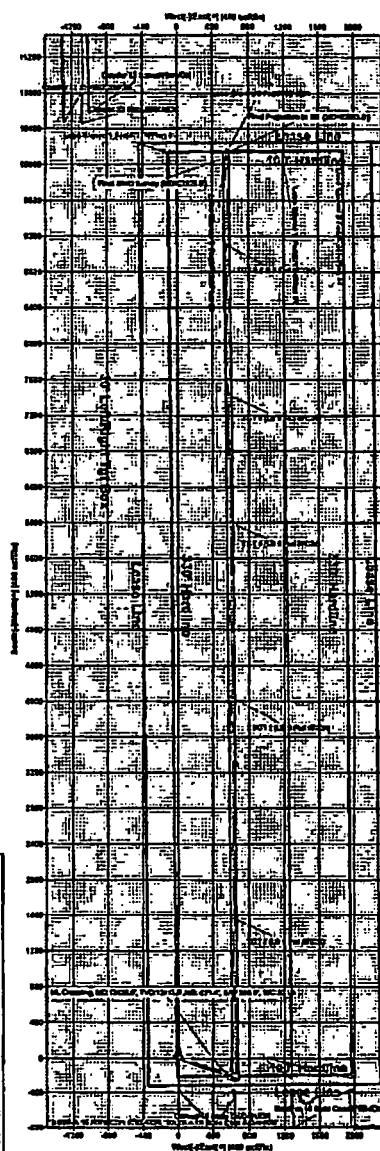
KB = 27' @ 3338.00' 3338.0
Northing: 333547.00 Easting: 603018.00 Longitude: 107° 29' 58.119 W

SECTION DETAILS

Soc	MD	Inc	Adj	TVD	+NLS	+E/W	Diag	TFace	VScal	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0	
3	2450.2	7.00	110.88	2449.3	-7.8	20.0	2.00	110.88	-6.5	
4	7761.2	7.00	110.88	7720.7	-39.4	625.0	0.00	0.00	-203.8	
5	8111.4	0.00	0.00	8070.0	-245.0	845.0	2.00	180.00	-210.3	
6	12347.0	0.00	0.00	12305.6	-245.0	845.0	0.00	0.00	-210.3	
7	13100.9	90.48	359.50	12778.0	235.4	640.8	12.00	359.50	770.1	KCP (LB 9 Fed #702H)
8	14433.5	90.48	359.50	12772.0	1567.9	629.3	0.00	0.00	1600.0	TGT 1 (LB 9 Fed #702H)
9	14434.2	90.48	359.50	12772.0	1568.5	629.3	2.00	-180.00	1600.0	
10	16913.6	90.48	359.50	12752.0	4047.8	607.8	0.00	0.00	4073.0	TGT 2 (LB 9 Fed #702H)
11	16918.7	90.58	359.50	12751.9	4053.9	607.8	2.00	0.00	4081.1	
12	18872.7	90.58	359.50	12732.0	6007.7	590.8	0.00	0.00	6031.0	TGT 3 (LB 9 Fed #702H)
13	18884.5	90.60	359.50	12731.0	6018.5	590.7	2.00	0.00	6041.8	
14	20305.7	90.80	359.50	12712.0	7439.5	578.4	0.00	0.00	7460.0	TGT 4 (LB 9 Fed #702H)
15	20311.2	90.89	359.50	12711.0	7443.0	578.4	2.00	180.00	7465.5	
16	21945.1	90.89	359.50	12692.0	9098.8	564.1	0.00	0.00	9116.0	TGT 5 (LB 9 Fed #702H)
17	21946.8	91.28	359.50	12681.5	9128.5	563.8	2.00	0.00	9143.6	
18	22998.0	91.28	359.50	12669.0	10132.0	553.1	0.00	0.00	10147.2	PSHL (LB 9 Fed #702H)

WELLBORE TARGET DETAILS (NAD COORDINATES)

Name	TVD	+NLS	+E/W	Northing	Easting
KCP (LB 9 Fed #702H)	12778.0	-245.0	845.0	332797.00	603018.00
PSHL (LB 9 Fed #702H)	12669.0	-18132.0	553.1	332879.00	603018.00
TGT 1 (LB 9 Fed #702H)	12752.0	6007.7	590.8	332845.80	603018.00
TGT 2 (LB 9 Fed #702H)	12751.9	6018.5	590.7	332845.80	603018.00
TGT 3 (LB 9 Fed #702H)	12732.0	6007.7	590.8	332845.80	603018.00
TGT 4 (LB 9 Fed #702H)	12731.0	6018.5	590.7	332845.80	603018.00
TGT 5 (LB 9 Fed #702H)	12712.0	7439.5	578.4	332845.80	603018.00
TGT 6 (LB 9 Fed #702H)	12711.0	7443.0	578.4	332845.80	603018.00



Scale: 1 inch = 100 feet



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.