

HOBBS OCD

HOBBS OCD

Form 3160-4
(August 2007)

JAN 05 2020

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 09 2020 Operator

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM02965A

- 1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
 b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
EOG RESOURCES, INCContact: KAY MADDOX
E-Mail: KAY_MADDOX@EOGRESOURCES.COM8. Lease Name and Well No.
MAFNOLA 15 FEDERAL COM 744H3. Address PO BOX 2267
MIDLAND, TX 797023a. Phone No. (include area code)
Ph: 432-686-36589. API Well No.
30-025-44402

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NENE 771FNL 1268FEL 32.048609 N Lat, 103.555744 W Lon

Sec 15 T26S R33E Mer NMP

At top prod interval reported below NWNE 392FNL 1384FEL 32.049653 N Lat, 103.556117 W Lon

Sec 22 T26S R33E Mer NMP

At total depth SWNE 2531FNL 1330FEL 32.029254 N Lat, 103.555931 W Lon

10. Field and Pool, or Exploratory
SANDERS TANK; UPPER WOLFGA11. Sec., T., R., M., or Block and Survey
or Area Sec 15 T26S R33E Mer NMP12. County or Parish
LEA13. State
NM14. Date Spudded
09/08/201915. Date T.D. Reached
10/16/201916. Date Completed
☐ D & A ☒ Ready to Prod.
11/23/201917. Elevations (DF, KB, RT, GL)*
3323 GL18. Total Depth: MD 20497
TVD 1293619. Plug Back T.D.: MD 20464
TVD 1293620. 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		1103		537		0	
8.750	7.625 HCP-110	29.7		11828		1475		0	
6.750	5.500 ECP110	20.0		20497		860		9286	

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	13048	20464	13048 TO 20464	3.250	1560	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
13048 TO 20464	19,396,900 LBS PROPPANT; 351,876 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
11/23/2019	11/26/2019	24	→	2040.0	5109.0	12151.0	44.0		POW
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64	SI	2293.0	→				2504	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	
	SI		→						

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

ELECTRONIC SUBMISSION #494572 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Reclamation due: 05/23 2020

ACCEPTED FOR RECORD

DEC 11 2019

BUREAU OF LAND MANAGEMENT
ROSWELL 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 Mcas. Depth
RUSTLER	942		BARREN	RUSTLER	942
T/SALT	1281		BARREN	T/SALT	1281
B/SALT	4800		OIL & GAS	B/SALT	4800
BRUSHY CANYON	8111		OIL & GAS	BRUSHY CANYON	8111
1ST BONE SPRING SAND	10207		OIL & GAS	1ST BONE SPRING SAND	10207
2ND BONE SPRING SAND	10743		OIL & GAS	2ND BONE SPRING SAND	10743
3RD BONE SPRING SAND	11830		OIL & GAS	3RD BONE SPRING SAND	11830
WOLFCAMP	12254		OIL & GAS	WOLFCAMP	12254

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 #494572 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 MADDOXTitle REGULATORY SPECIALIST

Signature _____ (Electronic Submission)

Date 12/04/2019

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15 Fed Com

#744H

OH

Design: OH

Final PVA Report

25 October, 2019

Final PVA Report

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #744H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25' @ 3348.0usft
Site:	Magnolia 15 Fed Com		MD Reference:	KB = 25' @ 3348.0usft
Well:	#744H		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:	Magnolia 15 Fed Com				
Site Position:		Northing:	381,905.00 usft	Latitude:	32° 2' 51.321 N
From:	Map	Easting:	780,373.00 usft	Longitude:	103° 33' 42.598 W
Position Uncertainty:	0.0 usft	Spot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well:	#744H					
Well Position:	+N-S	0.0 usft	Northing:	382,280.00 usft	Latitude:	32° 2' 54.897 N
	+E-W	0.0 usft	Easting:	782,257.00 usft	Longitude:	103° 33' 20.677 W
Position Uncertainty:	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,323.0 usft	

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	7/23/2019	(°)	(°)	(nT)
			6.71	59.88	47,620.94453412

Design:	1 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	178.93	

Survey Program	1 Date 10/25/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	20,497.0	TrueShot MWD #1 (OH)	MWD	OWSG MWD - Standard

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well: 9744H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3348.0ush
Site:	Magnolia 15 Fed Com	ND Reference:	KB = 25' @ 3348.0ush
Well:	9744H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD. (usft)	Incl (°)	Azi (grid north azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLog (°/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	0.0
200.0	0.18	42.14	200.0	0.2	0.2	0.09	0.09	0.00	-0.3	0.0	0.0
293.0	0.13	324.00	293.0	0.4	0.2	0.21	-0.05	-84.02	-0.2	-0.5	-0.5
382.0	0.09	27.02	382.0	0.6	0.2	0.13	-0.04	70.81	-0.6	0.1	0.1
472.0	0.26	311.96	472.0	0.8	0.1	0.28	0.19	-83.40	-0.4	-0.8	-0.8
563.0	0.26	284.91	563.0	1.0	-0.2	0.08	0.00	-18.74	-0.6	-0.8	-0.8
658.0	0.44	318.73	658.0	1.4	-0.7	0.24	0.19	25.07	-1.5	-0.4	-0.4
754.0	0.28	22.36	754.0	1.8	-0.8	0.42	-0.18	68.28	-1.4	1.5	1.5
849.0	0.09	7.07	849.0	2.1	-0.7	0.18	-0.18	-16.09	-2.0	1.0	1.0
944.0	0.31	321.98	944.0	2.4	-0.9	0.27	0.23	-47.46	-2.4	-0.8	-0.8
1,040.0	0.40	283.40	1,040.0	2.7	-1.4	0.28	0.09	-40.19	-3.0	-2.3	-2.3
1,127.0	0.75	278.72	1,127.0	2.8	-2.2	0.41	0.40	-7.68	-2.8	-2.5	-2.5
1,316.0	0.48	181.80	1,316.0	2.2	-3.6	0.45	-0.14	-44.88	1.4	-4.0	-4.0
1,505.0	0.92	191.89	1,505.0	-0.1	-4.1	0.23	0.23	0.05	-0.9	-4.0	-4.0
1,695.0	0.88	203.86	1,694.9	-2.9	-5.0	0.10	-0.02	8.25	-4.7	-3.4	-3.4
1,885.0	2.07	332.53	1,884.9	-1.2	-7.2	1.43	0.63	67.72	-2.2	7.0	7.0
2,074.0	9.10	359.33	2,072.9	16.8	-8.9	3.67	3.72	14.18	-9.7	8.3	8.3
2,264.0	9.88	358.48	2,260.3	48.3	-9.6	0.47	0.46	-0.46	-22.0	7.1	7.1
2,454.0	9.38	357.05	2,447.6	80.2	-10.8	0.35	-0.33	-0.74	-31.0	5.6	5.6
2,644.0	9.58	357.14	2,635.0	111.4	-12.4	0.12	0.12	0.05	-39.2	6.2	6.2
2,835.0	8.40	359.51	2,823.6	141.2	-13.3	0.65	-0.62	1.24	-45.6	6.0	6.0
3,025.0	8.00	1.53	3,011.7	168.3	-13.1	0.28	-0.21	1.06	-49.5	5.8	5.8
3,216.0	7.78	10.85	3,200.9	194.3	-10.3	0.68	-0.12	4.88	-51.5	9.8	9.8
3,406.0	7.34	4.43	3,389.2	218.0	-8.9	0.50	-0.23	-3.38	-54.3	-0.8	-0.8
3,596.0	7.25	344.83	3,577.7	242.7	-8.1	1.30	-0.05	-10.32	-51.7	-18.5	-18.5
3,786.0	6.51	8.12	3,768.4	264.9	-10.7	1.51	-0.39	12.26	-54.0	3.1	3.1
3,976.0	7.16	6.45	3,955.1	287.4	-7.9	0.38	0.34	-0.88	-53.9	-3.0	-3.0

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well: 9744H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3348.0ush
Site:	Magnolia 15 Fed Com	TMD Reference:	KB = 25' @ 3348.0ush
Well:	9744H	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)	DLog (°/100ush)	Buile (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
4,166.0	6.86	344.48	4,143.7	310.1	-9.6	1.41	-0.16	-11.56	-48.5	-22.7	
4,358.0	7.60	345.54	4,332.2	333.2	-15.8	0.40	0.39	0.58	-50.1	-17.4	
4,947.0	6.20	354.32	4,521.8	355.7	-19.9	0.82	-0.73	4.60	-51.7	-7.1	
4,737.0	6.37	357.84	4,710.8	376.4	-21.3	0.22	0.09	1.65	-49.7	-4.1	
4,827.0	4.68	2.41	4,899.7	384.7	-21.4	0.83	-0.90	2.41	-45.1	-1.8	
5,117.0	6.73	341.84	5,088.8	413.0	-24.8	1.51	1.09	-10.83	-37.4	-14.8	
5,308.0	7.30	344.92	5,278.4	435.1	-31.1	0.38	0.30	1.83	-38.6	-7.7	
5,498.0	9.10	344.00	5,464.5	461.2	-38.4	0.95	0.95	-0.48	-43.0	-3.7	
5,685.0	8.01	338.77	5,651.1	489.3	-47.9	0.44	-0.05	-2.77	-50.2	-2.2	
5,875.0	10.46	350.72	5,838.4	520.2	-56.1	1.31	0.76	6.29	-58.4	13.4	
6,064.0	11.34	1.09	6,024.0	553.7	-58.5	1.14	0.47	5.49	-67.8	24.6	
6,254.0	10.55	357.48	6,210.5	591.8	-58.9	0.55	-0.42	-1.89	-62.2	18.5	
6,444.0	11.08	5.22	6,397.2	627.4	-58.0	0.81	0.28	4.07	-61.8	27.9	
6,634.0	10.24	9.62	6,583.9	662.2	-53.5	0.62	-0.44	2.32	-102.2	30.7	
6,825.0	7.16	14.36	6,772.7	690.5	-47.7	1.65	-1.81	2.48	-106.1	33.0	
7,014.0	8.29	11.89	6,960.4	712.0	-42.8	0.48	-0.46	-1.25	-107.4	21.8	
7,204.0	5.45	18.20	7,149.4	730.7	-37.5	0.59	-0.44	3.79	-101.8	27.1	
7,394.0	2.68	38.80	7,338.9	742.7	-31.8	1.81	-1.48	10.32	-82.9	48.9	
7,584.0	0.75	168.00	7,528.8	744.9	-28.7	1.69	-1.02	68.00	67.4	34.7	
7,774.0	1.14	203.15	7,718.8	742.0	-29.2	0.38	0.21	18.50	51.8	0.8	
7,964.0	1.98	213.17	7,908.7	737.5	-31.7	0.46	0.44	5.27	30.5	3.7	
8,154.0	1.41	218.81	8,098.6	732.9	-34.9	0.30	-0.30	1.39	19.6	6.9	
8,343.0	1.60	193.84	8,287.6	728.1	-37.0	0.38	0.21	-11.82	10.3	12.8	
8,533.0	1.89	210.98	8,477.5	722.5	-39.3	0.28	0.05	8.02	7.8	10.1	
8,723.0	1.71	212.12	8,667.4	717.4	-42.4	0.10	-0.08	0.60	2.1	10.0	
8,913.0	1.83	213.70	8,857.3	712.8	-45.4	0.05	-0.04	0.83	-3.2	10.0	
9,103.0	2.20	221.52	9,047.2	707.8	-48.4	0.33	0.30	4.12	-8.1	10.7	

Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #744H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 25' @ 3348.0usft	
Site: Magnolia 15 Fed Com		MD Reference: KB = 25' @ 3348.0usft	
Well: #744H		Grid	
Wellbore: OH		Minimum Curvature	
Design: OH		EDM 5000.14	

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)
9,292.0	2.02	243.58	9,238.1	703.8	-54.7	0.44	-0.10	11.87	-10.2	14.4
9,482.0	1.41	255.62	9,428.0	701.5	-60.0	0.37	-0.32	8.34	-12.8	18.9
9,672.0	1.63	255.54	9,615.9	700.3	-64.9	0.12	0.12	-0.04	-17.7	18.9
9,862.0	1.88	301.08	9,803.8	701.3	-70.3	0.75	0.18	23.96	-5.5	28.3
10,052.0	2.28	288.12	9,993.7	704.0	-76.8	0.33	0.18	-7.88	-19.1	23.2
10,241.0	1.89	174.68	10,184.6	702.0	-80.1	1.63	-0.21	-58.98	-16.3	-28.8
10,431.0	2.07	268.72	10,374.6	698.8	-83.3	1.53	0.09	48.49	-31.7	21.5
10,621.0	2.15	285.35	10,564.4	700.2	-89.9	0.51	0.04	14.02	-25.3	35.0
10,811.0	1.89	283.05	10,754.3	702.5	-96.2	0.27	-0.14	-6.47	-38.8	28.0
11,001.0	1.27	213.00	10,944.3	701.4	-100.4	0.99	-0.33	-38.87	-42.8	-29.9
11,191.0	1.83	205.44	11,134.2	696.7	-102.9	0.36	0.35	-3.98	-43.8	-35.8
11,381.0	1.98	274.81	11,324.1	694.1	-107.5	1.17	0.03	38.41	-53.2	31.3
11,571.0	2.51	248.42	11,514.0	692.9	-114.7	0.60	0.28	-13.78	-68.8	3.1
11,761.0	2.24	202.36	11,703.8	687.9	-120.0	0.99	-0.14	-24.24	-66.6	-50.3
11,957.0	2.81	181.80	11,899.6	679.5	-121.8	0.54	0.29	-10.49	-43.8	-68.3
11,988.0	2.80	182.67	11,930.6	678.0	-121.6	0.32	0.29	2.81	-48.2	-67.6
12,141.3	2.94	182.31	12,083.7	670.2	-122.0	0.03	0.03	-0.23	-53.5	-67.9
HL Crossing, MD:12141.3, TVD:12083.7, N/S:670.2, E/W:-122.0, INC:2.94										
12,178.0	2.85	182.23	12,120.3	688.3	-122.0	0.03	0.03	-0.23	-53.3	-68.0
12,389.0	2.59	189.71	12,311.1	639.2	-123.0	0.27	-0.19	3.82	-72.9	-59.8
12,464.0	2.51	185.15	12,408.0	655.0	-123.8	0.27	-0.08	6.73	-82.4	-52.2
12,517.0	2.55	192.25	12,459.0	652.8	-124.4	0.25	0.08	-5.47	-82.0	-58.3
12,530.9	3.71	184.79	12,472.8	652.0	-124.5	8.86	8.38	-53.89	-74.7	-68.8
KOP (Magnolia 15 Fed Com #744H)										
12,612.0	10.81	174.41	12,553.2	641.8	-124.0	8.86	8.75	-12.79	-85.4	-78.7
12,707.0	29.14	169.58	12,642.2	609.9	-118.9	19.38	18.29	-5.08	-85.0	-78.8
12,802.0	33.80	170.63	12,723.2	561.1	-110.4	4.94	4.91	1.11	-89.4	-68.8

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #744H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3348.0usft
Site:	Magnolia 15 Fed Com	MD Reference:	KB = 25' @ 3348.0usft
Well:	#744H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EOM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	BuBd (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,897.0	48.07	180.92	12,785.9	500.5	-106.7	14.63	12.92	10.83	-71.1	-55.4
FTP (Magnolia 15 Fed Com #744H):										
12,992.0	54.39	188.83	12,856.7	427.9	-113.1	10.84	8.78	8.33	-63.3	-38.5
13,088.0	64.09	183.11	12,805.8	348.0	-121.5	11.32	10.10	-5.96	-41.0	-71.8
13,183.0	78.59	179.42	12,938.1	256.3	-123.4	15.70	15.26	-3.68	-21.3	-75.1
13,277.0	88.84	177.05	12,946.4	163.0	-120.5	11.18	10.90	-2.52	-11.9	-72.9
13,373.0	91.47	172.57	12,946.1	67.5	-111.8	5.41	2.74	-4.67	-12.9	-64.9
13,467.0	93.23	170.90	12,942.3	-25.5	-98.3	2.58	1.87	-1.78	-17.4	-52.0
13,562.0	92.62	171.69	12,937.4	-119.3	-83.9	1.05	-0.84	0.83	-22.5	-38.3
13,657.0	91.21	170.11	12,934.3	-213.0	-68.9	2.23	-1.48	-1.66	-25.9	-24.0
13,752.0	89.54	174.59	12,933.6	-307.1	-56.3	5.03	-1.78	4.72	-26.8	-12.3
13,847.0	88.89	179.42	12,934.1	-402.0	-51.3	5.10	0.37	5.08	-28.8	-8.1
13,942.0	88.00	179.57	12,935.9	-497.0	-50.5	2.00	-1.99	0.16	-25.4	-8.0
14,037.0	88.79	179.31	12,938.5	-591.9	-48.7	0.83	0.83	-0.06	-23.2	-8.0
14,132.0	90.33	177.58	12,939.2	-686.9	-47.3	2.80	1.62	-2.03	-22.9	-6.3
14,227.0	89.01	175.99	12,939.8	-781.7	-42.0	2.18	-1.39	-1.87	-22.8	-1.8
14,322.0	91.38	178.79	12,938.5	-876.5	-38.0	2.63	2.49	0.84	-23.5	3.5
14,417.0	88.09	172.04	12,939.8	-971.0	-28.7	6.08	-3.46	-3.00	-23.5	11.8
14,512.0	90.55	177.85	12,941.0	-1,065.6	-18.4	6.64	2.59	6.12	-22.8	19.8
14,607.0	88.62	178.77	12,941.7	-1,160.6	-18.4	2.87	-2.03	2.02	-22.5	20.8
14,702.0	92.26	181.38	12,941.0	-1,255.5	-17.3	4.18	3.83	1.87	-23.7	19.1
14,797.0	89.01	179.88	12,939.8	-1,350.5	-18.4	3.77	-3.42	-1.58	-25.2	17.4
14,892.0	90.73	180.30	12,940.2	-1,445.5	-18.5	1.87	1.81	0.48	-25.4	16.5
14,987.0	88.28	180.83	12,941.0	-1,540.5	-19.4	2.66	-2.60	0.56	-24.9	14.8
15,081.0	88.68	181.44	12,943.5	-1,634.4	-21.3	0.78	0.43	0.85	-22.8	12.2
15,176.0	88.75	182.32	12,945.7	-1,728.4	-24.4	0.93	0.09	0.83	-21.1	8.4
15,271.0	89.89	183.99	12,948.8	-1,824.2	-28.6	2.13	1.20	1.76	-20.4	2.4

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #744H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3348.0ush
Site:	Magnolia 15 Fed Com	MD Reference:	KB = 25' @ 3348.0ush
Well:	9744H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (ush)	Inc (°)	Asl (grid_north_azim)	TVD (ush)	NIS (ush)	ENW (ush)	DLeg (°/100ush)	Bull (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
15,366.0	82.09	184.87	12,945.2	-1,918.9	-37.0	2.49	2.32	0.93	-22.5	-5.7	
15,445.8	91.20	183.78	12,942.9	-1,998.4	-43.0	1.78	-1.12	-1.39	-25.1	-12.3	
TOT 1 (Magnolia 15 Fed Com #744H)											
15,461.0	91.03	183.83	12,942.6	-2,013.6	-43.9	1.78	-1.12	-1.39	-25.5	-13.4	
15,556.0	91.25	182.76	12,940.7	-2,108.4	-49.2	0.86	0.23	-0.83	-27.6	-18.4	
15,651.0	94.85	178.98	12,935.6	-2,203.3	-50.6	5.56	3.89	-3.98	-32.8	-21.6	
15,746.0	93.19	178.90	12,928.8	-2,298.0	-48.9	1.85	-1.85	-0.08	-39.8	-20.6	
15,841.0	93.23	178.54	12,923.5	-2,392.8	-48.7	0.38	0.04	-0.38	-43.3	-18.2	
15,936.0	86.15	180.39	12,924.0	-2,487.8	-45.9	7.70	-7.45	1.95	-45.0	-18.1	
16,031.0	85.87	182.59	12,930.8	-2,582.5	-48.3	2.36	-0.51	2.32	-38.4	-22.2	
16,126.0	86.73	177.84	12,937.1	-2,677.2	-48.7	8.11	1.12	-5.00	-32.3	-23.4	
16,221.0	88.33	180.21	12,942.8	-2,772.0	-47.1	2.53	-0.42	2.49	-26.7	-22.5	
16,316.0	87.38	175.82	12,948.0	-2,866.8	-43.8	4.74	1.11	-4.82	-21.7	-19.9	
16,410.0	88.40	177.05	12,951.5	-2,960.8	-37.9	1.70	1.09	1.31	-18.4	-14.8	
16,505.0	90.46	177.75	12,952.4	-3,055.5	-33.6	2.29	2.17	0.74	-17.7	-11.3	
16,600.0	90.15	177.66	12,951.9	-3,150.4	-29.8	0.34	-0.33	-0.09	-18.4	-8.2	
16,695.0	89.67	177.66	12,952.1	-3,245.3	-25.9	0.51	-0.51	0.00	-18.4	-5.1	
16,790.0	90.29	178.02	12,952.1	-3,340.2	-22.4	0.73	0.65	0.38	-18.6	-2.2	
16,885.0	90.55	178.10	12,951.4	-3,435.2	-19.1	0.29	0.27	0.08	-19.5	0.2	
16,980.0	90.42	177.49	12,950.6	-3,530.1	-15.5	0.66	-0.14	-0.64	-20.5	3.1	
17,075.0	88.09	179.25	12,951.8	-3,625.1	-12.6	3.07	-2.45	1.85	-19.4	5.1	
17,170.0	89.10	179.69	12,954.2	-3,720.0	-11.9	1.18	1.06	0.46	-17.3	8.2	
17,265.0	89.05	179.60	12,955.7	-3,815.0	-11.3	0.11	-0.05	-0.09	-15.9	5.1	
17,360.0	88.86	179.69	12,957.6	-3,910.0	-10.7	0.42	-0.41	0.09	-14.2	4.9	
17,450.4	88.41	180.53	12,959.9	-4,000.3	-10.9	0.97	-0.27	0.93	-12.1	4.0	
TOT 2 (Magnolia 15 Fed Com #744H)											
17,455.0	88.40	180.57	12,960.0	-4,005.0	-10.9	0.97	-0.27	0.93	-12.0	4.0	

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:					Well 9744H				
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:					KB = 25' @ 3348.0usft				
Site:	Magnolia 15 Fed Com	MD Reference:					KB = 25' @ 3348.0usft				
Well:	9744H	North Reference:					Grid				
Wellbore:	OH	Survey Calculation Method:					Minimum Curvature				
Design:	OH	Database:					EDM 8000.14				
Survey											
UD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,550.0	88.18	180.74	12,962.9	-4,099.9	-12.0	0.29	-0.23	0.18	-9.2	2.1	
17,645.0	95.69	182.41	12,959.7	-4,194.7	-14.8	8.10	7.91	1.78	-12.5	-1.2	
17,740.0	93.80	182.32	12,951.8	-4,289.3	-18.5	1.99	-1.99	-0.09	-20.5	-5.9	
17,835.0	90.37	179.43	12,948.4	-4,384.2	-20.0	4.72	-3.61	-3.04	-24.0	-8.1	
17,929.0	89.41	172.03	12,948.5	-4,477.9	-13.0	7.94	-1.02	-7.87	-23.9	-1.8	
18,024.0	89.54	165.38	12,949.4	-4,571.0	5.8	7.02	0.14	-7.02	-23.4	15.7	
18,119.0	90.64	172.39	12,949.3	-4,664.2	23.9	7.49	1.16	7.40	-23.5	33.8	
18,214.0	90.77	175.12	12,948.1	-4,758.6	34.3	2.89	0.14	2.87	-24.7	43.3	
18,309.0	90.20	181.82	12,947.3	-4,853.5	37.0	8.87	-0.60	8.84	-25.6	45.2	
18,404.0	80.55	181.53	12,948.7	-4,948.5	34.4	0.38	0.37	-0.09	-26.3	41.8	
18,498.0	88.68	180.92	12,947.3	-5,042.4	32.4	2.11	-2.01	-0.65	-25.7	39.1	
18,594.0	89.98	180.65	12,948.5	-5,138.4	31.0	1.40	1.37	-0.28	-24.7	37.0	
18,689.0	89.01	178.63	12,949.3	-5,233.4	31.6	2.36	-1.02	-2.13	-23.9	36.9	
18,785.0	87.34	178.10	12,952.3	-5,329.3	34.4	1.82	-1.74	-0.55	-21.0	38.9	
18,880.0	87.74	180.48	12,956.4	-5,424.2	35.5	2.54	0.42	2.51	-17.0	39.3	
18,975.0	89.05	182.32	12,959.1	-5,519.1	33.2	2.38	1.38	1.94	-14.4	38.3	
19,070.0	86.51	180.92	12,962.8	-5,614.0	30.5	3.05	-2.67	-1.47	-10.8	32.8	
19,165.0	90.02	179.18	12,965.6	-5,708.9	30.5	4.13	3.69	-1.85	-8.1	32.0	
19,260.0	91.03	182.85	12,964.8	-5,803.9	28.8	4.03	1.08	3.88	-8.1	29.6	
19,355.0	88.75	183.03	12,965.0	-5,898.8	23.9	2.41	-2.40	0.19	-8.9	24.0	
19,450.0	88.75	182.23	12,967.0	-5,993.7	19.8	0.84	0.00	-0.84	-7.0	18.9	
19,457.2	88.79	182.25	12,967.2	-6,000.9	19.3	0.87	0.81	0.29	-6.8	18.5	
TOT 3 (Magnolia 15 Fed Com 9744H)											
19,544.0	89.32	182.50	12,968.6	-6,087.6	15.7	0.67	0.61	0.29	-5.2	14.3	
19,639.0	90.95	182.89	12,968.4	-6,182.6	11.5	1.72	1.72	0.09	-5.3	9.3	
19,734.0	90.33	183.03	12,967.3	-6,277.3	8.8	0.60	-0.65	0.46	-6.2	3.9	
19,829.0	89.36	183.82	12,967.6	-6,372.2	1.2	1.32	-1.02	0.83	-5.7	-2.5	

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #744H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3348.0ush
Site:	Magnolia 15 Fed Com	MD Reference:	KB = 25' @ 3348.0ush
Well:	6744H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Inc (°)	Azi (grid_north_azim)	TVD (ush)	NS (ush)	EW (ush)	Dleg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
19,924.0	91.12	184.17	12,897.2	-6,468.8	-5.5	1.89	1.85	0.37	-5.9	-9.9
20,026.0	91.12	181.27	12,865.2	-6,568.8	-10.3	2.84	0.00	-2.84	-7.7	-15.5
20,121.0	92.26	180.04	12,962.4	-6,663.7	-11.4	1.76	1.20	-1.29	-10.3	-17.3
20,216.0	93.01	179.86	12,958.0	-6,758.6	-11.3	0.81	0.78	-0.19	-14.5	-18.0
20,310.0	94.37	179.51	12,852.0	-6,852.4	-10.8	1.49	1.45	-0.37	-20.4	-18.2
20,406.0	94.99	178.63	12,944.1	-6,948.1	-9.2	1.12	0.65	-0.92	-28.0	-17.4
20,443.0	95.12	178.90	12,940.9	-6,985.0	-8.4	0.81	0.35	0.73	-31.2	-16.9
Final MWD Survey (MD=20443.0)										
20,466.4	95.12	178.60	12,938.1	-7,038.1	-7.4	0.00	0.00	0.00	-35.9	-16.3
PBH (Magnolia 15 Fed Com 6744H)										
20,497.0	95.12	178.90	12,938.1	-7,038.7	-7.4	0.00	0.00	0.00	-35.9	-16.3
Final Projection to Bit (MD=20497.0)										

Design Annotations				
Measured Depth (ush)	Vertical Depth (ush)	Local Coordinates		Comment
		±N/S (ush)	±E/W (ush)	
12,141.3	12,083.7	670.2	-122.0	HL Crossing, MD:12141.3, TVD:12083.7, N/S:670.2, E/W:-122.0, INC:2.94
20,443.0	12,940.9	-6,985.0	-8.4	Final MWD Survey (MD=20443.0)
20,497.0	12,938.1	-7,038.7	-7.4	Final Projection to Bit (MD=20497.0)

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Lea County, NM (NAD 83 NME)

Magnolia 15 Fed Com

#744H

Plan #2

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

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



Arithmetic to Grid North
True North: 0.41°
Magnetic North: 0.29°
Magnetic Field
Strength: 47620.8nT
Dip Angle: 68.8°
Date: 12/23/2015
Model: IGRF 2015

To convert a Magnetic Direction to a Grid Direction, Add 0.29°
To convert a Magnetic Direction to a True Direction, Add 0.70°
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #744H

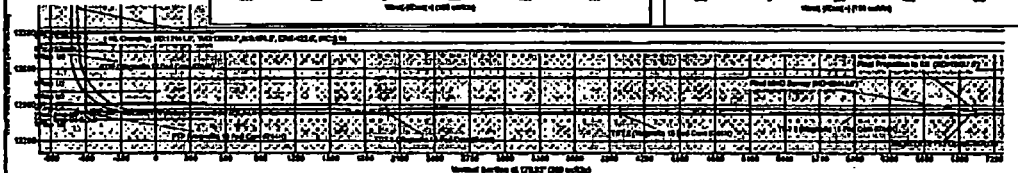
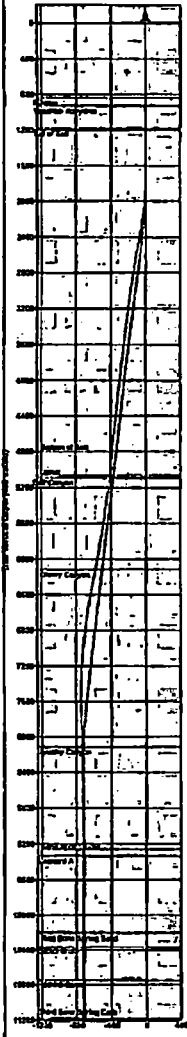
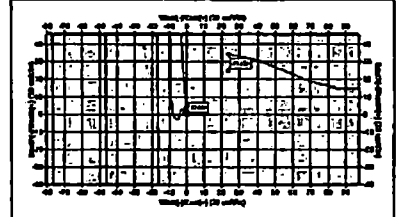
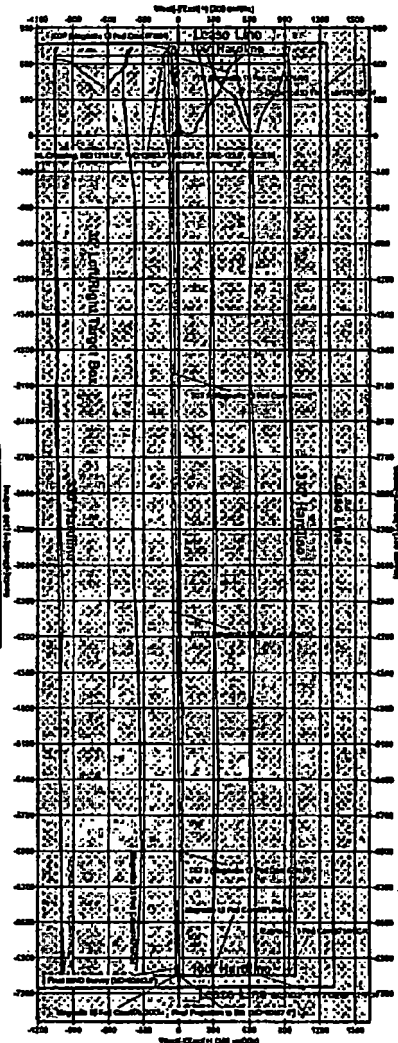
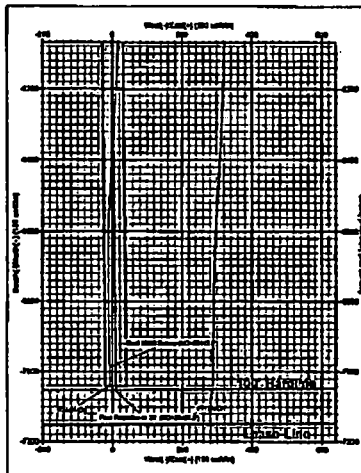
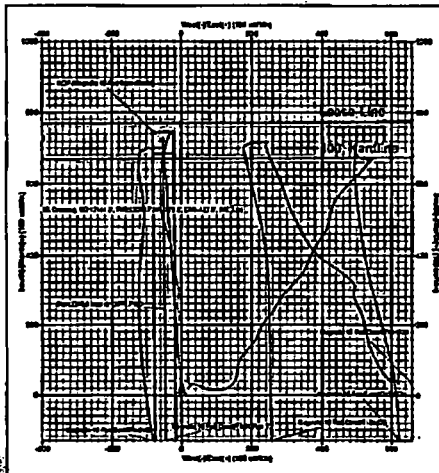
3323.0
IS = 27 @ 3348 Feet
Easting 762257.00 32° 2' 54.887 W
Latitude 32° 2' 54.887 W
Size

SECTION DETAILS

MD	Inc	AJ	TYD	+M-S	+E-W	Dlog	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
1270.0	0.00	0.00	1070.0	0.0	0.0	0.00	0.00	0.0	
2210.0	7.00	368.87	2210.0	81.3	-1.8	2.00	368.87	-91.3	
7040.0	7.00	368.87	7702.1	89.7	-48.8	0.00	0.00	-479.8	
8164.0	0.00	0.00	8164.0	721.9	-41.8	2.00	160.00	-721.9	
12120.0	0.00	0.00	12120.0	721.9	-42.0	0.00	0.00	-721.9	KOP (Magnolia 15 Fed Com #744H)
12327.7	83.74	179.84	12328.0	248.7	-41.3	12.00	179.84	-248.7	
15317.0	83.74	179.84	15318.0	-300.0	-30.8	0.00	0.00	300.0	TOT 1 (Magnolia 15 Fed Com #744H)
16324.6	83.89	179.84	16325.0	-307.1	-30.8	2.00	0.00	307.1	
17917.0	83.89	179.84	17918.0	-400.0	-40.8	0.00	0.00	400.0	TOT 2 (Magnolia 15 Fed Com #744H)
17938.0	83.89	179.84	17939.0	-400.0	-40.8	2.00	0.00	400.0	
19317.0	83.89	179.84	19318.0	-400.0	-40.8	0.00	0.00	400.0	TOT 3 (Magnolia 15 Fed Com #744H)
19324.6	83.89	179.84	19325.0	-400.0	-40.8	2.00	0.00	400.0	
20138.0	83.89	179.84	20139.0	-400.0	-40.8	0.00	0.00	400.0	PDH (Magnolia 15 Fed Com #744H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TYD	W-E	N-S	Easting	Shape
KOP (Magnolia 15 Fed Com #744H)	13328.0	221.0	-41.0	762257.00	Rectangle (Side: 1000 1000.0)
TOT 1 (Magnolia 15 Fed Com #744H)	15318.0	471.0	-42.0	762257.00	Point
TOT 2 (Magnolia 15 Fed Com #744H)	17918.0	2000.0	-41.8	762257.00	Point
TOT 3 (Magnolia 15 Fed Com #744H)	19318.0	2000.0	-41.8	762257.00	Point
PDH (Magnolia 15 Fed Com #744H)	20139.0	400.0	-40.8	762257.00	Point





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.