

15-41469



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EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Buzz 21 State

#701H

OH

Design: OH

PVA

09 January, 2017

NM OIL CONSERVATION
ARTESIAN DISTRICT
APR 10 2017
RECEIVED



EOG Resources, Inc.
PVA

Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 83 NME)
Site: Buzz 21 State
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #701H
MD Reference: KB = 25 @ 3261.0usft (H&P 651)
North Reference: KB = 25 @ 3261.0usft (H&P 651)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 5000.1 Single User Db

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

System Datum:

Mean Sea Level

Site: Buzz 21 State
Site Position: Northing: 439,932.20 usft
From: Map Easting: 586,247.90 usft
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Latitude: 32° 12' 33.722 N
Longitude: 104° 11' 17.249 W
Grid Convergence: 0.08 °

Well: #701H
Well Position: +N-S 0.0 usft Northing: 439,932.20 usft Latitude: 32° 12' 33.722 N
+E-W 0.0 usft Easting: 586,247.90 usft Longitude: 104° 11' 17.249 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,236.0 usft

Wellbore: OH
Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (mT)
IGRF2015 12/27/2016 7.29 59.95 47.913

Design: OH
Audit Notes: 1.0 Phase: ACTUAL Tie On Depth: 0.0
Version: 1.0
Vertical Section: Depth From (TVD) (usft) +N-S (usft) +E-W (usft) Direction (°)
0.0 0.0 0.0 179.71



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Survey Program		Date		1/9/2017															
From (ustf)	To (ustf)	Survey (Wellbore)		Tool Name		Description													
150.0	491.0	gyro (OH)		NSG-CT_D/P		Continuous north-seeking gyro in drillpipe													
581.0	13,973.0	pro mwd #1 (OH)		MWD		MWD - Standard													
Survey																			
MD (ustf)	Inc (°)	Azi (grd_north_azim)		TVD (ustf)	N/S (ustf)	E/W (ustf)	Dleg (°/100ustf)	Build (°/100ustf)	Turn (°/100ustf)	High to Plan (ustf)	Right to Plan (ustf)								
0.0	0.00	0.00		0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0							
150.0	1.80	173.10		150.0	-2.3	0.3	1.20	1.20	0.00	0.0	0.0	0.0							
327.0	1.60	190.50		326.9	-7.5	0.2	0.31	-0.11	9.83	0.0	0.0	0.0							
491.0	1.20	210.10		490.9	-11.3	-1.1	0.38	-0.24	11.95	0.0	0.0	0.0							
581.0	1.50	203.20		580.8	-13.2	-2.0	0.38	0.33	-7.67	0.0	0.0	0.0							
765.0	0.70	193.70		764.8	-16.5	-3.3	0.44	-0.43	-5.16	0.0	0.0	0.0							
949.0	0.30	231.10		948.8	-17.9	-3.9	0.27	-0.22	20.33	0.0	0.0	0.0							
1,133.0	0.50	26.90		1,132.8	-17.4	-3.9	0.43	0.11	84.67	0.0	0.0	0.0							
1,317.0	1.40	46.00		1,316.8	-15.2	-1.9	0.51	0.49	10.38	0.0	0.0	0.0							
1,509.0	3.00	62.20		1,508.6	-11.2	4.2	0.89	0.83	8.44	0.0	0.0	0.0							
1,701.0	3.30	40.30		1,700.3	-4.6	12.2	0.64	0.16	-11.41	0.0	0.0	0.0							
1,894.0	2.40	16.20		1,893.1	3.5	16.9	0.77	-0.47	-12.49	0.0	0.0	0.0							
2,085.0	2.20	4.90		2,083.9	11.0	18.4	0.26	-0.10	-5.92	0.0	0.0	0.0							
2,277.0	1.90	350.00		2,275.8	17.8	18.1	0.32	-0.16	-7.76	0.0	0.0	0.0							
2,468.0	3.30	358.10		2,466.6	26.4	17.4	0.76	0.73	4.24	0.0	0.0	0.0							
2,661.0	3.50	354.00		2,659.3	37.8	16.6	0.16	0.10	-2.12	0.0	0.0	0.0							
2,853.0	3.70	353.80		2,850.9	49.8	15.3	0.10	0.10	-0.10	0.0	0.0	0.0							
3,045.0	3.50	353.00		3,042.5	61.8	13.9	0.11	-0.10	-0.42	0.0	0.0	0.0							
3,237.0	3.40	351.80		3,234.2	73.2	12.4	0.06	-0.05	-0.62	0.0	0.0	0.0							
3,428.0	3.80	356.40		3,424.8	85.1	11.2	0.26	0.21	2.41	0.0	0.0	0.0							
3,620.0	3.50	359.00		3,616.4	97.3	10.7	0.18	-0.16	1.35	0.0	0.0	0.0							



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Survey	MD (ustf)	Inc (°)	Azi (grid_north_azim)	TVD (ustf)	NS (ustf)	EW (ustf)	Dleg (°/100ustf)	Build (°/100ustf)	Turn (°/100ustf)	High to Plan (ustf)	Right to Plan (ustf)
	12,872.0	91.60	179.80	9,134.8	-3,831.8	8.1	0.90	-0.73	-0.52	-10.2	-11.3
	12,968.0	91.30	179.40	9,132.4	-3,927.8	8.7	0.52	-0.31	-0.42	-12.6	-11.1
	13,064.0	91.20	178.90	9,130.3	-4,023.7	10.2	0.53	-0.10	-0.52	-14.7	-10.2
	13,160.0	88.40	177.90	9,130.6	-4,119.7	12.8	3.10	-2.92	-1.04	-14.4	-8.0
	13,256.0	90.70	178.60	9,131.4	-4,215.6	15.8	2.50	2.40	0.73	-13.6	-5.6
	13,352.0	88.80	178.60	9,131.0	-4,311.6	18.1	0.94	-0.94	0.00	-14.0	-3.7
	13,448.0	92.50	179.60	9,129.0	-4,407.6	19.6	3.00	2.81	1.04	-16.0	-2.7
	13,544.0	90.70	179.30	9,126.4	-4,503.5	20.5	1.90	-1.87	-0.31	-18.6	-2.3
	13,640.0	93.40	179.30	9,122.9	-4,599.4	21.7	2.81	2.81	0.00	-22.1	-1.6
	13,736.0	90.80	178.60	9,119.4	-4,695.4	23.5	2.80	-2.71	-0.73	-25.6	-0.4
	13,832.0	90.30	177.60	9,118.5	-4,791.3	26.7	1.16	-0.52	-1.04	-26.5	2.3
	13,848.0	90.50	177.66	9,118.4	-4,807.3	27.3	1.27	1.22	0.37	-26.6	2.9
HL Crossing, MD:13848.0', TVD:9118.4', NS:-4807.3', EW:27.3', INC:90.50											
	13,914.0	91.30	177.90	9,117.3	-4,873.2	28.9	1.27	1.22	0.37	-27.7	5.1
Last MWD Survey											
	13,954.1	91.30	177.90	9,116.4	-4,913.3	31.3	0.00	0.00	0.00	-28.6	6.3
PBHL(Buzz 21 St #701H)											
	13,973.0	91.30	177.90	9,116.0	-4,932.2	32.0	0.00	0.00	0.00	-34.0	7.6
Projection To Bit											

Design Annotations

Measured Depth (ustf)	Vertical Depth (ustf)	Local Coordinates +N/-S (ustf)	+E/-W (ustf)	Comment
9,129.0	9,030.5	-110.0	-16.2	HL Crossing, MD:9129.0', TVD:9030.5', NS:-110.0', EW:-16.2', INC:58.68
13,848.0	9,118.4	-4,807.3	27.3	HL Crossing, MD:13848.0', TVD:9118.4', NS:-4807.3', EW:27.3', INC:90.50
13,914.0	9,117.3	-4,873.2	28.9	Last MWD Survey
13,973.0	9,116.0	-4,932.2	32.0	Projection To Bit



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Checked By: _____

Approved By: _____

Date: _____