



EOG Resources, Inc.

Eddy County, NM

Dee State Com

1H

OH

Design: Surveys

**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAY 22 2018

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Standard Survey Report

07 February, 2018



NABORS



Nabors
Survey Report



Company: EOG Resources, Inc.
Project: Eddy County, NM
Site: Dee State Com
Well: 1H
Wellbore: OH
Design: Surveys

Local Co-ordinate Reference: Well 1H
TVD Reference: RT=12.7' (Precision 822) @ 3642.71ft (PDC 822)
MD Reference: RT=12.7' (Precision 822) @ 3642.71ft (PDC 822)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: RYANUSA_32Bit

Project	Eddy County, NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Dee State Com				
Site Position:		Northing:	586,558.100 usf	Latitude:	32° 36' 44.32746 N
From:	Map	Easting:	474,720.900 usf	Longitude:	104° 32' 58.86163 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.12 °

Well	1H					
Well Position	+N/-S	0.00 ft	Northing:	586,558.100 usf	Latitude:	32° 36' 44.32746 N
	+E/-W	0.00 ft	Easting:	474,720.900 usf	Longitude:	104° 32' 58.86163 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,630.01 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/11/2018	7.52	60.37	48,192.90000000

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	94.84	

Survey Program	Date	2/7/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	4,150.00	Survey #1 NDS (OH)	MWD+HRGM	OWSG MWD + HRGM

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
199.00	0.75	159.15	198.99	-1.22	0.46	0.56	0.38	0.38	0.00
373.00	0.81	126.81	372.98	-3.02	1.85	2.10	0.25	0.03	-18.59
552.00	0.63	131.56	551.96	-4.43	3.60	3.96	0.11	-0.10	2.65
730.00	0.50	112.75	729.96	-5.38	5.05	5.49	0.13	-0.07	-10.57
909.00	0.63	118.55	908.95	-6.15	6.64	7.13	0.08	0.07	3.24
1,043.00	0.50	124.88	1,042.94	-6.84	7.76	8.31	0.11	-0.10	4.72
1,213.00	0.38	135.95	1,212.94	-7.67	8.78	9.38	0.09	-0.07	6.51
1,404.00	0.38	150.36	1,403.93	-8.67	9.52	10.21	0.05	0.00	7.54
1,582.00	0.50	157.40	1,581.93	-9.90	10.11	10.91	0.07	0.07	3.96



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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,761.00	0.38	142.63	1,760.92	-11.10	10.77	11.67	0.09	-0.07	-8.25
1,940.00	0.25	150.01	1,939.92	-11.91	11.32	12.29	0.08	-0.07	4.12
2,119.00	0.38	87.79	2,118.92	-12.22	12.11	13.10	0.19	0.07	-34.76
2,164.00	0.31	73.72	2,163.92	-12.18	12.38	13.36	0.24	-0.16	-31.27
2,253.00	0.25	65.46	2,252.91	-12.03	12.79	13.75	0.08	-0.07	-9.28
2,342.00	0.13	23.98	2,341.91	-11.86	13.00	13.96	0.20	-0.13	-46.61
2,432.00	0.25	13.96	2,431.91	-11.58	13.09	14.02	0.14	0.13	-11.13
2,521.00	0.19	21.52	2,520.91	-11.25	13.19	14.09	0.07	-0.07	8.49
2,610.00	0.25	308.39	2,609.91	-10.99	13.09	13.98	0.30	0.07	-82.17
2,700.00	0.25	328.26	2,699.91	-10.70	12.84	13.69	0.10	0.00	22.08
2,789.00	0.44	295.21	2,788.91	-10.39	12.43	13.26	0.30	0.21	-37.13
2,879.00	0.69	264.27	2,878.91	-10.30	11.57	12.40	0.43	0.28	-34.38
2,968.00	0.94	270.42	2,967.90	-10.35	10.31	11.15	0.30	0.28	6.91
3,057.00	0.38	247.22	3,056.89	-10.46	9.31	10.16	0.68	-0.63	-26.07
3,147.00	0.44	273.94	3,146.89	-10.55	8.69	9.55	0.22	0.07	29.69
3,236.00	0.69	247.92	3,235.88	-10.73	7.85	8.73	0.40	0.28	-29.24
3,326.00	1.06	259.17	3,325.87	-11.09	6.53	7.44	0.45	0.41	12.50
3,415.00	0.88	255.66	3,414.86	-11.41	5.06	6.01	0.21	-0.20	-3.94
3,505.00	0.69	260.23	3,504.85	-11.67	3.86	4.83	0.22	-0.21	5.08
3,594.00	0.88	257.77	3,593.84	-11.91	2.66	3.66	0.22	0.21	-2.76
3,683.00	1.00	260.58	3,682.83	-12.18	1.23	2.25	0.14	0.13	3.16
3,773.00	0.13	30.48	3,772.83	-12.22	0.50	1.53	1.21	-0.97	144.33
3,862.00	0.19	308.57	3,861.83	-12.04	0.44	1.45	0.24	0.07	-92.03
3,952.00	1.25	248.45	3,951.82	-12.31	-0.59	0.45	1.30	1.18	-66.80
4,041.00	1.50	273.06	4,040.79	-12.60	-2.66	-1.58	0.71	0.28	27.65
4,094.00	1.50	288.35	4,093.78	-12.35	-4.01	-2.95	0.75	0.00	28.85
4,150.00	1.50	288.35	4,149.76	-11.89	-5.40	-4.38	0.00	0.00	0.00