



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Durango 2 State

#705H

OH

Plan: Plan #0.1

Standard Planning Report

20 June, 2019



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #705H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3455.0usft
MD Reference: KB = 25 @ 3455.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Durango 2 State				
Site Position:		Northing:	425,051.00 usft	Latitude:	32° 9' 58.041 N
From:	Map	Easting:	783,515.00 usft	Longitude:	103° 33' 2.454 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#705H				
Well Position	+N/-S	-4,287.0 usft	Northing:	420,764.00 usft	Latitude: 32° 9' 15.324 N
	+E/-W	4,078.0 usft	Easting:	787,593.00 usft	Longitude: 103° 32' 15.382 W
Position Uncertainty	0.0 usft		Wellhead Elevation:		Ground Level: 3,430.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/20/2019	6.71	59.98	47,693.84502587

Design	Plan #0.1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	342.51	

Plan Survey Tool Program	Date 6/20/2019				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,591.3	Plan #0.1 (OH)	MWD	
				OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,047.1	14.94	244.61	2,038.8	-41.5	-87.5	2.00	2.00	0.00	244.61	
7,203.1	14.94	244.61	7,020.4	-611.5	-1,288.5	0.00	0.00	0.00	0.00	
7,950.2	0.00	0.00	7,759.0	-653.0	-1,376.0	2.00	-2.00	0.00	180.00	
12,202.7	0.00	0.00	12,011.5	-653.0	-1,376.0	0.00	0.00	0.00	0.00	KOP(Durango 2 State
12,952.7	90.00	359.66	12,489.0	-175.5	-1,378.8	12.00	12.00	-0.04	359.66	
17,591.3	90.00	359.66	12,489.0	4,463.0	-1,406.0	0.00	0.00	0.00	0.00	PBHL(Durango 2 Stat

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3455.0usft
Site:	Durango 2 State	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,047.1	14.94	244.61	2,038.6	-41.5	-87.5	-13.3	2.00	2.00	0.00
7,203.1	14.94	244.61	7,020.4	-611.5	-1,288.5	-196.1	0.00	0.00	0.00
7,950.2	0.00	0.00	7,759.0	-653.0	-1,376.0	-209.4	2.00	-2.00	0.00
12,202.7	0.00	0.00	12,011.5	-653.0	-1,376.0	-209.4	0.00	0.00	0.00
KOP(Durango 2 State #705H)									
12,609.1	48.77	359.66	12,370.6	-490.2	-1,377.0	-53.8	12.00	12.00	0.00
FTP(Durango 2 State #705H)									
12,952.7	90.00	359.66	12,489.0	-175.5	-1,378.8	246.9	12.00	12.00	0.00
17,591.3	90.00	359.66	12,489.0	4,463.0	-1,406.0	4,679.2	0.00	0.00	0.00
PBHL(Durango 2 State #705H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP(Durango 2 State #705H)	0.00	0.00	12,011.5	-653.0	-1,376.0	420,111.00	786,217.00	32° 9' 8.963 N	103° 32' 31.444 W
- plan hits target center									
- Point									
FTP(Durango 2 State #705H)	0.00	0.00	12,489.0	-613.0	-1,376.0	420,151.00	786,217.00	32° 9' 9.359 N	103° 32' 31.440 W
- plan misses target center by 170.6usft at 12609.1usft MD (12370.6 TVD, -490.2 N, -1377.0 E)									
- Point									
PBHL(Durango 2 State #705H)	0.00	0.00	12,489.0	4,463.0	-1,406.0	425,227.00	786,187.00	32° 9' 59.589 N	103° 32' 31.355 W
- plan hits target center									
- Point									