

HOBBS OCD

DEC 26 2017

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30-025-43716



Lea County, NM (NAD 27 NME)

Dragon 36 State

#708H

HP 610

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: 0.43°
Magnetic North: 6.52°

Magnetic Field
Strength: 47933.3nT
Dip Angle: 60.02°
Date: 3/24/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.52°
To convert a Magnetic Direction to a True Direction, Add 6.95° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #708H

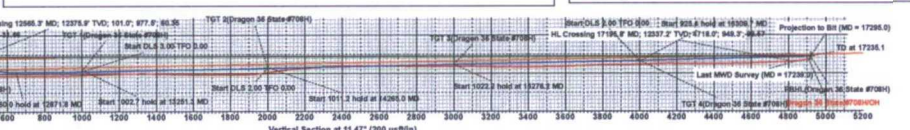
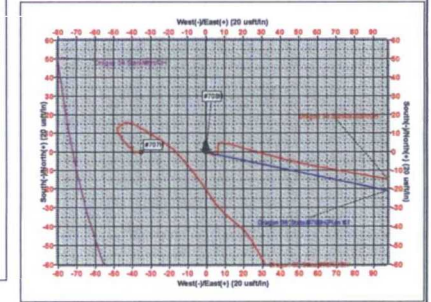
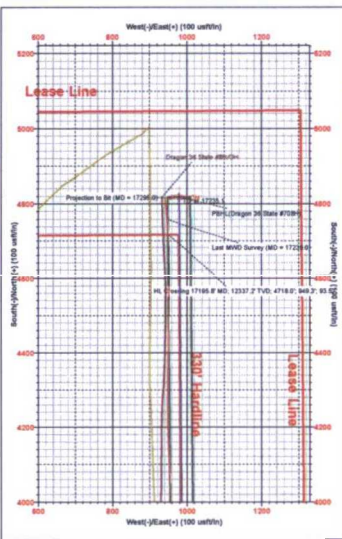
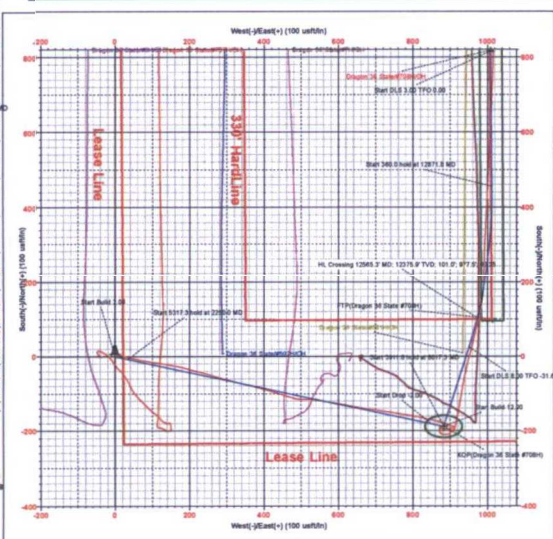
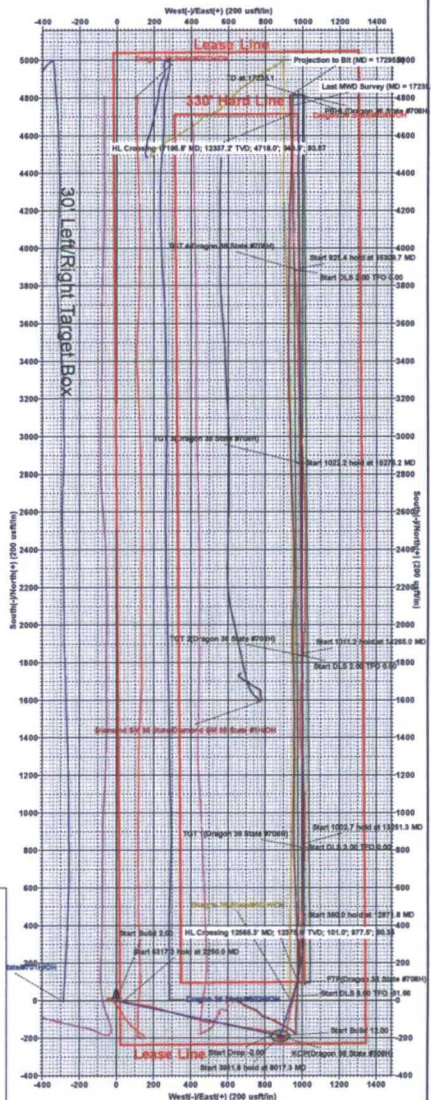
Ground Level: 3475.0
KB = 25 @ 3500.0usf (HP 610)
Northing: 425541.00 Easting: 751248.00 32° 10' 2.385 N 103° 31' 16.953 W Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1800.0	0.00	0.00	1800.0	0.0	0.0	0.00	0.00	0.0	
3	2250.0	9.00	102.00	2248.2	-7.3	34.5	2.00	102.00	-0.3	
4	7587.3	9.00	102.00	7500.0	-180.3	848.1	0.00	0.00	-8.0	
5	8017.3	0.00	0.00	7948.2	-187.6	882.6	2.00	180.00	-8.3	
6	11929.2	0.00	0.00	11860.0	-187.6	882.6	0.00	0.00	-8.3	
7	12411.1	57.82	17.90	12264.2	24.8	951.3	12.00	17.90	213.6	
8	12871.8	90.32	359.56	12390.0	455.6	1011.5	8.00	-31.66	647.7	
9	13231.8	90.32	359.56	12388.0	815.6	1008.7	0.00	0.00	1000.0	TGT 1(Dragon 36 State #708H)
10	13251.3	90.90	359.56	12387.8	835.0	1008.6	3.00	0.00	1019.0	TGT 2(Dragon 36 State #708H)
11	14254.0	90.90	359.56	12372.0	1837.6	1000.9	0.00	0.00	2000.0	TGT 3(Dragon 36 State #708H)
12	14285.0	91.12	359.56	12371.8	1848.6	1000.8	2.00	0.00	2010.7	TGT 4(Dragon 36 State #708H)
13	15276.2	91.12	359.56	12352.0	2859.6	993.0	0.00	0.00	3000.0	
14	16298.4	91.12	359.56	12332.0	3881.6	985.2	0.00	0.00	4000.0	
15	16309.7	91.35	359.56	12331.8	3892.8	985.1	2.00	0.00	4011.0	
16	17235.1	91.35	359.56	12310.0	4818.0	978.0	0.00	0.00	4916.3	PBHL(Dragon 36 State #708H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP(Dragon 36 State #708H)	11860.0	-187.6	882.6	425533.39	752130.63	Ellipse (Radii: L30.0 W50.0)
PBHL(Dragon 36 State #708H)	12310.0	4818.0	978.0	430959.00	752226.00	Rectangle (Sides: L0.0 W50.0)
TGT 1(Dragon 36 State #708H)	12332.0	3881.6	985.2	429422.60	752233.19	Point
TGT 2(Dragon 36 State #708H)	12352.0	3869.6	985.0	430460.60	752241.04	Point
TGT 3(Dragon 36 State #708H)	12372.0	1837.6	1000.9	427378.80	752248.89	Point
TGT 4(Dragon 36 State #708H)	12388.0	915.6	1008.7	426366.80	752256.74	Point
FTP(Dragon 36 State #708H)	12390.0	101.0	1014.0	426642.00	752262.00	Point



Provide signature page for
directional survey



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Dragon 36 State

#708H

OH

Design: OH

EOG Midland PVA

06 September, 2017



EOG Resources, Inc.
EOG Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3500.0usft (HP 610)
Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (HP 610)
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Dragon 36 State		
Site Position:		Northing:	425,530.00 usft
From:	Map	Easting:	751,878.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.209 N
		Longitude:	103° 31' 9.625 W
		Grid Convergence:	0.43 °

Well	#708H		
Well Position	+N/-S	0.0 usft	Northing: 425,541.00 usft
	+E/-W	0.0 usft	Easting: 751,248.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 10' 2.365 N
		Longitude:	103° 31' 16.953 W
		Ground Level:	3,475.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/24/2017	6.95
			Dip Angle (°) 60.02
			Field Strength (nT) 47,933.34945562

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)
	0.0	0.0	0.0
		Direction (°)	11.47

Survey Program	Date 9/5/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
-	191.0	17,295.0 Intrepid MWD (OH)	MWD
			Description MWD - Standard



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Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (HP 610)
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/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	
191.0	0.60	104.80	191.0	-0.3	1.0	0.31	0.31	0.00	-1.0	0.0	
376.0	0.50	110.00	376.0	-0.8	2.7	0.06	-0.05	2.81	-2.8	0.2	
561.0	0.20	119.60	561.0	-1.2	3.7	0.16	-0.16	5.19	-3.8	0.8	
747.0	0.50	100.40	747.0	-1.5	4.8	0.17	0.16	-10.32	-5.0	-0.6	
900.0	0.30	53.40	900.0	-1.4	5.8	0.24	-0.13	-30.72	-3.8	-4.6	
1,086.0	0.40	67.30	1,086.0	-0.9	6.7	0.07	0.05	7.47	-5.9	-3.4	
1,240.0	0.60	348.70	1,240.0	0.1	7.1	0.42	0.13	-51.04	1.3	-7.0	
1,359.0	0.70	343.40	1,359.0	1.4	6.8	0.10	0.08	-4.45	0.5	-6.9	
1,543.0	0.60	21.80	1,543.0	3.4	6.8	0.24	-0.05	20.87	-5.7	-5.0	
1,731.0	0.70	34.60	1,730.9	5.3	7.8	0.09	0.05	6.81	-8.8	-3.4	
1,918.0	3.00	108.80	1,917.8	4.6	13.1	1.54	1.23	39.68	-8.5	8.3	
2,105.0	4.50	106.00	2,104.4	1.0	24.8	0.81	0.80	-1.50	-7.3	6.7	
2,292.0	7.70	104.50	2,290.4	-4.1	44.0	1.71	1.71	-0.80	-1.7	5.2	
2,478.0	9.50	99.70	2,474.3	-9.8	71.2	1.04	0.97	-2.58	-0.8	5.2	
2,665.0	8.90	99.60	2,658.9	-14.8	100.6	0.32	-0.32	-0.05	-1.5	6.4	
2,852.0	8.90	98.50	2,843.6	-19.4	129.2	0.09	0.00	-0.59	-1.3	7.8	
3,039.0	9.10	99.00	3,028.3	-23.8	158.1	0.11	0.11	0.27	-1.3	9.5	
3,226.0	9.30	106.70	3,212.9	-30.5	187.2	0.67	0.11	4.12	-0.6	9.2	
3,412.0	10.20	102.10	3,396.2	-38.3	217.7	0.64	0.48	-2.47	-3.7	7.8	
3,600.0	8.90	107.80	3,581.6	-46.2	247.8	0.85	-0.69	3.03	-4.8	6.8	
3,787.0	7.70	107.30	3,766.6	-54.4	273.6	0.64	-0.64	-0.27	-2.7	4.0	
3,973.0	8.00	102.30	3,950.9	-60.8	298.1	0.40	0.16	-2.69	0.7	2.5	
4,161.0	8.20	107.40	4,137.0	-67.6	323.7	0.40	0.11	2.71	3.8	0.8	
4,348.0	8.40	103.20	4,322.1	-74.7	349.7	0.34	0.11	-2.25	6.1	-0.5	
4,534.0	10.20	103.90	4,505.6	-81.8	378.9	0.97	0.97	0.38	5.1	-1.4	
4,719.0	10.00	105.40	4,687.8	-90.0	410.3	0.18	-0.11	0.81	1.4	-2.8	



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EOG Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Dragon 36 State
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3500.0usft (HP 610)
MD Reference: KB = 25 @ 3500.0usft (HP 610)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,906.0	9.60	106.70	4,872.0	-98.8	440.9	0.24	-0.21	0.70	-1.3	-4.9
5,093.0	9.10	109.80	5,056.5	-108.3	469.7	0.38	-0.27	1.66	-3.0	-7.9
5,279.0	7.90	92.50	5,240.5	-113.8	496.4	1.51	-0.65	-9.30	1.4	-8.0
5,466.0	8.40	92.00	5,425.6	-114.8	522.8	0.27	0.27	-0.27	3.8	-3.0
5,653.0	10.30	99.00	5,610.2	-117.9	553.0	1.18	1.02	3.74	2.3	-0.3
5,840.0	9.50	99.60	5,794.4	-123.1	584.7	0.43	-0.43	0.32	-0.7	1.1
6,028.0	9.20	101.40	5,979.9	-128.7	614.8	0.22	-0.16	0.96	-1.8	1.9
6,216.0	8.70	100.60	6,165.6	-134.3	643.5	0.27	-0.27	-0.43	-1.6	2.4
6,403.0	7.80	99.40	6,350.6	-138.9	669.9	0.49	-0.48	-0.64	0.7	3.4
6,589.0	9.40	96.90	6,534.5	-142.8	697.4	0.88	0.86	-1.34	1.8	5.5
6,777.0	9.80	98.90	6,719.9	-147.1	728.5	0.28	0.21	1.06	0.0	7.5
6,965.0	9.90	99.90	6,905.1	-152.4	760.2	0.11	0.05	0.53	-2.7	8.9
7,151.0	9.70	99.30	7,088.4	-157.7	791.4	0.12	-0.11	-0.32	-5.4	10.1
7,338.0	8.60	102.10	7,273.0	-163.2	820.6	0.63	-0.59	1.50	-5.4	11.0
7,525.0	7.60	101.50	7,458.2	-168.6	846.4	0.54	-0.53	-0.32	-2.6	11.1
7,712.0	7.10	103.30	7,643.6	-173.7	869.8	0.29	-0.27	0.96	-0.5	11.0
7,899.0	5.90	112.30	7,829.4	-180.0	889.9	0.84	-0.64	4.81	-6.3	10.3
8,086.0	2.40	117.60	8,015.9	-185.4	902.3	1.88	-1.87	2.83	-16.4	11.0
8,273.0	1.10	89.40	8,202.8	-187.2	907.6	0.81	-0.70	-15.08	-24.9	0.1
8,460.0	1.00	107.50	8,389.8	-187.7	910.9	0.18	-0.05	9.68	-27.0	8.4
8,648.0	1.20	227.30	8,577.8	-189.5	911.0	1.01	0.11	63.72	19.6	20.7
8,836.0	1.50	238.30	8,765.7	-192.2	907.5	0.21	0.16	5.85	18.8	16.9
9,025.0	2.90	259.30	8,954.6	-194.4	900.7	0.84	0.74	11.11	16.5	10.0
9,212.0	1.80	282.20	9,141.4	-194.6	893.2	0.76	-0.59	12.25	11.8	4.6
9,378.0	1.50	272.80	9,307.4	-194.0	888.5	0.24	-0.18	-5.66	6.1	6.1
9,563.0	1.30	275.10	9,492.3	-193.7	883.9	0.11	-0.11	1.24	1.8	5.9
9,750.0	1.50	286.40	9,679.3	-192.8	879.5	0.18	0.11	6.04	-1.6	5.8



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EOG Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Dragon 36 State
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3500.0usft (HP 610)
MD Reference: KB = 25 @ 3500.0usft (HP 610)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,937.0	2.20	264.00	9,866.2	-192.5	873.6	0.53	0.37	-11.98	-9.5	3.9
10,123.0	1.10	85.20	10,052.1	-192.7	871.8	1.77	-0.59	-96.13	11.2	-4.1
10,311.0	1.40	170.70	10,240.1	-194.8	874.0	0.91	0.16	45.48	-5.7	-9.7
10,498.0	1.90	192.10	10,427.0	-200.1	873.7	0.42	0.27	11.44	-14.1	-6.1
10,685.0	1.20	139.50	10,614.0	-204.6	874.3	0.81	-0.37	-28.13	-7.5	-17.4
10,873.0	2.10	115.70	10,801.9	-207.6	878.7	0.59	0.48	-12.66	-5.1	-19.7
11,059.0	2.90	95.40	10,987.7	-209.5	886.4	0.64	0.43	-10.91	-5.8	-21.5
11,246.0	3.80	72.00	11,174.4	-208.0	897.0	0.87	0.48	-12.51	-7.4	-23.9
11,432.0	3.30	37.20	11,360.1	-201.9	906.1	1.17	-0.27	-18.71	-2.8	-27.4
11,620.0	0.80	28.50	11,547.9	-196.4	910.0	1.34	-1.33	-4.63	-5.3	-28.3
11,806.0	0.90	116.40	11,733.9	-195.9	912.0	0.64	0.05	47.26	-30.0	5.6
11,856.0	1.10	164.10	11,783.9	-196.6	912.5	1.66	0.40	95.40	-16.8	26.2
11,931.9	1.79	189.50	11,859.7	-198.4	912.5	1.22	0.91	33.48	-5.7	31.2
KOP(Dragon 36 State #708H)										
11,942.0	1.90	191.40	11,869.9	-198.7	912.4	1.22	1.06	18.76	-5.1	31.4
12,009.0	0.60	13.70	11,936.9	-199.5	912.3	3.73	-1.94	-265.22	10.5	-31.2
12,054.0	8.50	14.50	11,981.7	-196.0	913.2	17.56	17.56	1.78	15.7	-30.8
12,102.0	16.30	14.60	12,028.5	-186.1	915.7	16.25	16.25	0.21	19.6	-30.0
12,147.0	24.20	11.40	12,070.7	-170.9	919.2	17.72	17.56	-7.11	22.7	-27.4
12,196.0	29.60	10.10	12,114.4	-149.1	923.3	11.08	11.02	-2.65	23.7	-24.2
12,241.0	34.60	9.70	12,152.5	-125.6	927.4	11.12	11.11	-0.89	24.5	-20.8
12,289.0	38.80	9.20	12,191.0	-97.3	932.1	8.77	8.75	-1.04	25.7	-16.4
12,334.0	39.70	11.00	12,225.8	-69.3	937.1	3.23	2.00	4.00	28.7	-13.1
12,383.0	46.20	12.70	12,261.7	-36.6	944.0	13.47	13.27	3.47	33.5	-10.1
12,428.0	49.80	14.80	12,291.8	-4.1	951.9	8.72	8.00	4.67	38.2	-8.5
12,476.0	48.90	13.20	12,323.1	31.2	960.7	3.15	-1.87	-3.33	46.1	-5.8
12,522.0	52.80	13.90	12,352.1	65.9	969.1	8.56	8.48	1.52	54.8	-5.0



EOG Resources, Inc.
EOG Midland PVA

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Survey											
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12,565.3	60.35	13.16	12,375.9	101.0	977.5	17.50	17.45	-1.71	60.9	-4.8	
HL Crossing 12565.3' MD; 12375.9' TVD; 101.0'; 977.5'; 60.35											
12,569.0	61.00	13.10	12,377.7	104.1	978.3	17.50	17.45	-1.57	61.3	-4.8	
12,577.2	63.19	12.33	12,381.6	111.2	979.9	27.98	26.71	-9.45	61.9	-4.5	
FTP(Dragon 36 State #708H)											
12,616.0	73.60	9.00	12,395.8	146.6	986.5	27.98	26.83	-8.57	61.8	-2.8	
12,659.0	84.70	2.40	12,403.9	188.5	990.6	29.88	25.81	-15.35	55.5	2.2	
12,676.0	87.30	1.10	12,405.1	205.5	991.1	17.09	15.29	-7.65	51.5	4.3	
12,752.0	87.70	2.10	12,408.4	281.4	993.3	1.42	0.53	1.32	35.9	10.5	
12,846.0	90.10	3.30	12,410.2	375.2	997.7	2.85	2.55	1.28	23.8	12.4	
12,939.0	89.10	2.20	12,410.9	468.1	1,002.2	1.60	-1.08	-1.18	20.9	9.2	
13,033.0	90.50	2.70	12,411.2	562.0	1,006.2	1.58	1.49	0.53	21.8	4.5	
13,126.0	90.60	3.00	12,410.3	654.9	1,010.8	0.34	0.11	0.32	21.4	-0.8	
13,220.0	91.10	2.30	12,408.9	748.8	1,015.1	0.92	0.53	-0.74	20.6	-5.9	
13,287.1	91.82	1.29	12,407.2	815.9	1,017.2	1.85	1.08	-1.51	19.2	-8.5	
TGT 1(Dragon 36 State #708H)											
13,313.0	92.10	0.90	12,406.3	841.7	1,017.7	1.85	1.07	-1.51	18.6	-9.2	
13,407.0	91.80	0.30	12,403.1	935.7	1,018.7	0.71	-0.32	-0.64	16.9	-10.9	
13,501.0	91.70	358.60	12,400.3	1,029.6	1,017.8	1.81	-0.11	-1.81	15.5	-10.7	
13,594.0	89.80	355.50	12,399.0	1,122.5	1,013.0	3.91	-2.04	-3.33	15.8	-6.7	
13,687.0	88.70	354.70	12,400.3	1,215.1	1,005.1	1.46	-1.18	-0.86	18.5	0.5	
13,781.0	88.20	356.50	12,402.8	1,308.8	997.9	1.99	-0.53	1.91	22.5	7.0	
13,875.0	89.50	358.00	12,404.7	1,402.7	993.4	2.11	1.38	1.60	25.8	10.8	
13,968.0	90.30	0.60	12,404.9	1,495.7	992.2	2.93	0.86	2.80	27.5	11.3	
14,061.0	89.30	0.20	12,405.2	1,588.7	992.9	1.16	-1.08	-0.43	29.3	9.9	
14,155.0	89.80	2.50	12,405.9	1,682.6	995.1	2.50	0.53	2.45	31.5	7.0	
14,250.0	95.20	6.40	12,401.8	1,777.2	1,002.5	7.01	5.68	4.11	28.8	-1.0	



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EOG Midland PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3500.0usft (HP 610)
MD Reference: KB = 25 @ 3500.0usft (HP 610)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,313.1	97.31	4.57	12,394.9	1,839.7	1,008.5	4.41	3.34	-2.90	22.9	-7.5
TGT 2(Dragon 36 State #708H)										
14,343.0	98.30	3.70	12,390.8	1,869.2	1,010.6	4.41	3.33	-2.92	19.4	-9.9
14,436.0	97.30	2.30	12,378.2	1,961.2	1,015.4	1.84	-1.08	-1.51	8.7	-15.4
14,491.0	93.30	1.50	12,373.1	2,015.9	1,017.2	7.42	-7.27	-1.45	4.6	-17.7
14,529.0	93.70	1.30	12,370.8	2,053.8	1,018.2	1.18	1.05	-0.53	3.1	-18.9
14,623.0	94.50	0.90	12,364.1	2,147.6	1,020.0	0.95	0.85	-0.43	-1.8	-21.4
14,678.0	92.30	0.60	12,360.8	2,202.5	1,020.7	4.04	-4.00	-0.55	-4.0	-22.6
14,717.0	90.50	0.30	12,359.9	2,241.4	1,021.0	4.68	-4.62	-0.77	-4.2	-23.2
14,758.0	90.40	359.98	12,359.6	2,282.4	1,021.1	0.82	-0.24	-0.78	-3.7	-23.6
14,811.0	90.00	359.80	12,359.4	2,335.4	1,021.0	0.83	-0.75	-0.34	-2.9	-23.9
14,852.0	90.60	359.70	12,359.2	2,376.4	1,020.8	1.48	1.46	-0.24	-2.3	-24.0
14,904.0	90.30	359.60	12,358.8	2,428.4	1,020.5	0.61	-0.58	-0.19	-1.7	-24.1
14,945.0	89.20	359.50	12,358.9	2,469.4	1,020.2	2.69	-2.68	-0.24	-0.7	-24.1
14,997.0	89.50	359.30	12,359.5	2,521.4	1,019.6	0.69	0.58	-0.38	0.9	-24.0
15,038.0	90.00	359.00	12,359.7	2,562.4	1,019.0	1.42	1.22	-0.73	1.9	-23.7
15,091.0	88.40	357.90	12,360.4	2,615.4	1,017.6	3.66	-3.02	-2.08	3.7	-22.7
15,185.0	89.60	357.80	12,362.1	2,709.3	1,014.0	1.28	1.28	-0.11	7.1	-19.9
15,278.0	90.20	357.30	12,362.2	2,802.2	1,010.1	0.84	0.65	-0.54	9.1	-16.6
15,336.2	89.82	356.74	12,362.2	2,860.4	1,007.0	1.16	-0.65	-0.97	10.2	-14.0
TGT 3(Dragon 36 State #708H)										
15,371.0	89.60	356.40	12,362.4	2,895.1	1,005.0	1.16	-0.65	-0.97	11.1	-12.2
15,465.0	89.10	357.30	12,363.5	2,988.9	999.8	1.10	-0.53	0.96	14.0	-7.8
15,558.0	89.20	356.90	12,364.9	3,081.8	995.1	0.44	0.11	-0.43	17.2	-3.8
15,652.0	89.30	356.70	12,366.1	3,175.7	989.8	0.24	0.11	-0.21	20.3	0.7
15,745.0	90.60	357.60	12,366.2	3,268.5	985.2	1.70	1.40	0.97	22.2	4.7
15,839.0	91.30	358.70	12,364.6	3,362.5	982.2	1.39	0.74	1.17	22.5	7.0



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MD Reference: KB = 25 @ 3500.0usft (HP 610)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,932.0	92.10	358.70	12,361.8	3,455.4	980.1	0.86	0.86	0.00	21.5	8.4
16,044.0	92.10	359.10	12,357.7	3,567.3	977.9	0.36	0.00	0.36	19.6	9.7
16,137.0	91.30	357.60	12,355.0	3,660.2	975.3	1.83	-0.86	-1.61	18.7	11.6
16,229.0	90.10	356.10	12,353.9	3,752.1	970.2	2.09	-1.30	-1.63	19.4	16.0
16,323.0	91.20	356.20	12,352.8	3,845.9	963.9	1.18	1.17	0.11	20.1	21.5
16,358.1	91.58	356.65	12,351.9	3,880.9	961.7	1.68	1.08	1.29	20.0	23.5
TGT 4(Dragon 36 State #708H)										
16,416.0	92.20	357.40	12,350.0	3,938.7	958.7	1.68	1.08	1.29	19.4	26.0
16,505.0	90.30	358.50	12,348.1	4,027.6	955.5	2.47	-2.13	1.24	19.5	28.6
16,602.0	89.30	357.50	12,348.4	4,124.5	952.1	1.46	-1.03	-1.03	22.1	31.2
16,696.0	89.20	358.70	12,349.7	4,218.5	949.0	1.28	-0.11	1.28	25.6	33.6
16,790.0	90.80	0.90	12,349.7	4,312.5	948.7	2.89	1.70	2.34	27.8	33.2
16,883.0	91.30	0.70	12,348.0	4,405.4	950.0	0.58	0.54	-0.22	28.2	31.2
16,977.0	91.40	0.90	12,345.7	4,499.4	951.3	0.24	0.11	0.21	28.2	29.2
17,070.0	92.30	0.60	12,342.7	4,592.3	952.5	1.02	0.97	-0.32	27.4	27.2
17,163.0	92.40	357.50	12,338.9	4,685.2	951.0	3.33	0.11	-3.33	25.8	28.0
17,195.8	93.57	356.77	12,337.2	4,718.0	949.3	4.20	3.55	-2.23	24.9	29.4
HL Crossing 17195.8' MD; 12337.2' TVD; 4718.0'; 949.3'; 93.57										
17,239.0	95.10	355.80	12,334.0	4,760.9	946.5	4.20	3.55	-2.24	22.8	31.8
Last MWD Survey (MD = 17239.0)										
17,295.0	95.10	355.80	12,329.0	4,816.6	942.5	0.00	0.00	0.00	19.1	35.5
Projection to Bit (MD = 17295.0) - PBHL(Dragon 36 State #708H)										



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Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,565.3	12,375.9	101.0	977.5	HL Crossing 12565.3' MD; 12375.9' TVD; 101.0'; 977.5'; 60.35
17,195.8	12,337.2	4,718.0	949.3	HL Crossing 17195.8' MD; 12337.2' TVD; 4718.0'; 949.3'; 93.57
17,239.0	12,334.0	4,760.9	946.5	Last MWD Survey (MD = 17239.0)
17,295.0	12,329.0	4,816.6	942.5	Projection to Bit (MD = 17295.0)

Checked By: _____ Approved By: _____ Date: _____