



HOBBS OCD
JAN 23 2020
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Durango 2 State
#704H
OH

Design: OH

Final PVA Report

29 May, 2019



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3516.0usft
MD Reference: KB = 25 @ 3516.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Project Lea 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 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 #704H

Well Position +N/-S 0.0 usft Northing: 425,106.00 usft Latitude: 32° 9' 58.452 N
+E/-W 0.0 usft Easting: 785,360.00 usft Longitude: 103° 32' 40.986 W
Position Uncertainty 0.0 usft Wellhead Elevation: usft Ground Level: 3,491.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/4/2019	6.74	59.99	47,721.42528726

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)** **Direction (°)**
0.0 0.0 0.0 177.72

Survey Program Date 5/29/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
138.0	17,461.0	Intrepid MWD #1 (OH)	MWD	OWSG MWD - Standard



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3516.0usft
MD Reference: KB = 25 @ 3516.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
138.0	1.20	270.90	138.0	0.0	-1.4	0.87	0.87	0.00	-1.4	0.0	
315.0	1.50	248.10	314.9	-0.8	-5.4	0.34	0.17	-12.88	-5.4	-1.3	
495.0	1.50	228.70	494.9	-3.2	-9.4	0.28	0.00	-10.78	-9.2	-3.8	
681.0	1.40	208.60	680.8	-6.8	-12.3	0.28	-0.05	-10.81	-11.9	-7.5	
868.0	1.60	206.70	867.8	-11.2	-14.6	0.11	0.11	-1.02	-16.5	-8.0	
1,055.0	1.40	212.10	1,054.7	-15.5	-17.0	0.13	-0.11	2.89	-22.1	-6.2	
1,244.0	1.50	218.90	1,243.6	-19.3	-19.8	0.11	0.05	3.60	-27.5	-3.2	
1,331.0	1.30	217.30	1,330.6	-21.0	-21.1	0.23	-0.23	-1.84	-29.5	-4.0	
1,517.0	5.00	45.20	1,516.4	-17.0	-16.6	3.38	1.99	-92.53	23.7	-0.4	
1,704.0	6.20	40.60	1,702.5	-3.6	-4.2	0.68	0.64	-2.46	5.5	0.9	
1,892.0	6.20	39.90	1,889.4	11.9	8.9	0.04	0.00	-0.37	-14.9	0.8	
2,078.0	6.40	34.60	2,074.3	28.2	21.2	0.33	0.11	-2.85	-35.2	-1.5	
2,266.0	6.90	32.60	2,261.0	46.3	33.2	0.29	0.27	-1.06	-56.9	-3.1	
2,453.0	5.80	56.30	2,446.9	61.0	47.2	1.51	-0.59	12.67	-73.1	24.7	
2,640.0	5.90	51.60	2,632.9	72.2	62.6	0.26	0.05	-2.51	-93.9	17.8	
2,828.0	6.30	48.50	2,819.9	85.1	77.9	0.28	0.21	-1.65	-114.6	12.2	
3,015.0	6.60	45.00	3,005.7	99.5	93.1	0.26	0.16	-1.87	-128.5	4.4	
3,204.0	6.40	45.50	3,193.5	114.5	108.3	0.11	-0.11	0.26	-131.3	5.3	
3,391.0	7.10	43.00	3,379.2	130.3	123.6	0.41	0.37	-1.34	-133.8	-0.4	
3,578.0	7.30	42.20	3,564.7	147.5	139.5	0.12	0.11	-0.43	-137.7	-1.6	
3,766.0	3.50	87.50	3,751.9	156.7	153.3	2.89	-2.02	24.10	-98.1	91.5	
3,954.0	2.60	144.10	3,939.7	153.4	161.5	1.59	-0.48	30.11	11.5	117.7	
4,141.0	2.50	144.20	4,126.5	146.7	166.4	0.05	-0.05	0.05	0.2	98.4	
4,329.0	1.20	271.30	4,314.4	143.4	166.8	1.79	-0.69	67.61	65.1	-42.3	
4,517.0	0.30	290.10	4,502.4	143.6	164.4	0.49	-0.48	10.00	37.6	-42.5	
4,704.0	1.50	110.70	4,689.4	142.9	166.2	0.96	0.64	-95.94	-31.3	24.9	



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Durango 2 State
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3516.0usft
 MD Reference: KB = 25 @ 3516.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

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)
4,892.0	1.50	100.10	4,877.3	141.6	170.9	0.15	0.00	-5.64	-29.1	2.1
5,080.0	1.70	110.70	5,065.3	140.2	176.0	0.19	0.11	5.64	-25.5	-9.8
5,268.0	1.10	332.80	5,253.2	140.8	177.8	1.39	-0.32	-73.35	29.2	-1.2
5,455.0	1.10	337.40	5,440.2	144.1	176.2	0.05	0.00	2.46	25.9	-2.5
5,642.0	1.10	337.60	5,627.2	147.4	174.9	0.00	0.00	0.11	22.3	-2.6
5,829.0	1.30	338.00	5,814.1	151.0	173.4	0.11	0.11	0.21	18.3	-2.7
6,016.0	1.20	344.10	6,001.1	154.9	172.1	0.09	-0.05	3.26	13.9	-4.4
6,203.0	1.20	344.90	6,188.0	158.7	171.0	0.01	0.00	0.43	9.9	-4.6
6,389.0	1.30	343.20	6,374.0	162.6	169.9	0.06	0.05	-0.91	6.0	-4.4
6,577.0	1.10	340.40	6,562.0	166.3	168.7	0.11	-0.11	-1.49	2.2	-4.2
6,763.0	1.10	346.20	6,747.9	169.7	167.6	0.06	0.00	3.12	-1.8	-4.2
6,950.0	1.30	348.90	6,934.9	173.5	166.8	0.11	0.11	1.44	-5.9	-4.0
7,138.0	1.50	345.30	7,122.8	178.0	165.8	0.12	0.11	-1.91	-10.2	-4.5
7,324.0	1.10	13.30	7,308.8	182.1	165.6	0.40	-0.22	15.05	-15.1	1.9
7,511.0	0.90	2.50	7,495.8	185.3	166.0	0.15	-0.11	-5.78	-18.4	-1.2
7,699.0	0.70	359.10	7,683.7	187.9	166.1	0.11	-0.11	-1.81	-20.9	-2.4
7,887.0	0.30	319.40	7,871.7	189.5	165.8	0.27	-0.21	-21.12	-15.9	-16.0
8,075.0	0.20	64.70	8,059.7	190.0	165.7	0.21	-0.05	56.01	-11.4	20.0
8,263.0	0.50	201.30	8,247.7	189.4	165.7	0.35	0.16	72.66	21.5	-6.5
8,451.0	0.60	192.80	8,435.7	187.6	165.2	0.07	0.05	-4.52	20.4	-3.4
8,638.0	0.90	193.50	8,622.7	185.2	164.7	0.16	0.16	0.37	17.9	-3.6
8,826.0	1.10	180.80	8,810.7	182.0	164.3	0.16	0.11	-6.76	15.0	0.1
9,013.0	1.10	178.50	8,997.6	178.4	164.3	0.02	0.00	-1.23	11.4	0.6
9,201.0	1.10	215.30	9,185.6	175.1	163.3	0.37	0.00	19.57	6.2	-5.3
9,389.0	0.40	236.10	9,373.6	173.3	161.7	0.39	-0.37	11.06	1.6	-6.5
9,576.0	0.40	302.10	9,560.6	173.3	160.6	0.23	0.00	35.29	-6.2	-3.5
9,764.0	0.80	285.90	9,748.6	174.0	158.8	0.23	0.21	-8.62	-6.9	-5.3



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Durango 2 State
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3516.0usft
 MD Reference: KB = 25 @ 3516.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

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)
9,953.0	1.30	247.30	9,937.5	173.5	155.6	0.44	0.26	-20.42	-5.3	-9.3
10,140.0	1.20	280.30	10,124.5	173.1	151.7	0.38	-0.05	17.65	-13.2	-3.8
10,327.0	0.90	260.20	10,311.5	173.2	148.3	0.25	-0.16	-10.75	-14.4	-8.7
10,515.0	0.90	244.80	10,499.5	172.3	145.5	0.13	0.00	-8.19	-14.5	-12.6
10,702.0	0.70	155.40	10,686.4	170.6	144.7	0.61	-0.11	-47.81	11.3	-16.1
10,889.0	1.10	165.70	10,873.4	167.8	145.6	0.23	0.21	5.51	5.4	-17.6
11,075.0	1.50	166.40	11,059.4	163.7	146.6	0.22	0.22	0.38	0.9	-17.7
11,263.0	0.60	257.10	11,247.3	161.1	146.2	0.86	-0.48	48.24	-18.6	1.8
11,451.0	0.40	341.10	11,435.3	161.5	145.0	0.36	-0.11	44.68	-1.0	19.7
11,639.0	1.30	348.30	11,623.3	164.2	144.4	0.48	0.48	3.83	-1.3	19.8
11,744.0	1.40	347.10	11,728.3	166.7	143.9	0.10	0.10	-1.14	-4.2	19.7
11,860.0	1.60	317.70	11,844.2	169.2	142.5	0.68	0.17	-25.34	-16.1	14.4
11,954.0	0.80	222.50	11,938.2	169.7	141.1	1.97	-0.85	-101.28	-13.4	-18.7
12,035.3	3.57	185.01	12,019.4	166.8	140.5	3.67	3.41	-46.14	-2.3	-23.4
KOP(Durango 2 State #704H)										
12,047.0	4.00	184.00	12,031.1	166.0	140.5	3.67	3.62	-8.59	-2.5	-23.4
12,141.0	19.50	191.70	12,122.9	147.3	137.0	16.54	16.49	8.19	-13.2	-25.0
12,228.4	24.06	191.51	12,204.0	115.5	130.5	5.21	5.21	-0.22	-19.3	-30.7
HL Crossing, MD:12228.4', TVD:12204.0', N/S:115.5', E/W:130.5', INC:24.06										
12,235.0	24.40	191.50	12,210.1	112.8	130.0	5.21	5.21	-0.17	-19.3	-31.3
12,328.0	31.50	189.60	12,292.2	70.0	122.1	7.69	7.63	-2.04	-15.4	-40.7
12,421.0	35.60	190.40	12,369.6	19.4	113.1	4.43	4.41	0.86	-4.3	-51.8
12,452.6	38.75	186.32	12,394.8	0.5	110.4	12.65	9.96	-12.92	4.9	-55.4
FTP(Durango 2 State #704H)										
12,515.0	45.30	179.72	12,441.2	-41.1	108.4	12.65	10.50	-10.57	22.5	-57.2
12,609.0	59.60	173.70	12,498.4	-115.3	113.0	16.03	15.21	-6.40	42.0	-51.0
12,702.0	77.70	173.40	12,532.1	-201.0	122.7	19.46	19.46	-0.32	47.7	-42.5



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3516.0usft
MD Reference: KB = 25 @ 3516.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

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)
12,793.0	92.00	174.40	12,540.2	-290.8	132.3	15.75	15.71	1.10	43.6	-34.6
12,887.0	91.80	173.00	12,537.1	-384.2	142.6	1.50	-0.21	-1.49	39.3	-24.9
12,981.0	92.90	175.30	12,533.2	-477.6	152.2	2.71	1.17	2.45	34.5	-16.0
13,075.0	93.50	176.50	12,528.0	-571.3	158.9	1.43	0.64	1.28	28.2	-9.9
13,169.0	90.00	178.30	12,525.1	-665.1	163.1	4.19	-3.72	1.91	24.4	-6.2
13,198.0	90.19	178.21	12,525.1	-694.1	164.0	0.72	0.65	-0.32	24.1	-5.5
TGT 1(Durango 2 State #704H)										
13,262.0	90.60	178.00	12,524.6	-758.1	166.1	0.72	0.65	-0.32	23.3	-3.8
13,356.0	89.10	177.50	12,524.9	-852.0	169.8	1.68	-1.60	-0.53	23.0	-0.7
13,451.0	88.00	178.00	12,527.3	-946.9	173.6	1.27	-1.16	0.53	24.9	2.4
13,545.0	89.90	178.40	12,529.0	-1,040.8	176.5	2.07	2.02	0.43	26.1	4.7
13,638.0	88.90	179.00	12,530.0	-1,133.8	178.6	1.25	-1.08	0.65	26.6	6.2
13,732.0	88.40	180.30	12,532.2	-1,227.7	179.2	1.48	-0.53	1.38	28.3	6.2
13,826.0	89.10	181.10	12,534.3	-1,321.7	178.1	1.13	0.74	0.85	29.8	4.4
13,920.0	89.60	181.00	12,535.3	-1,415.7	176.3	0.54	0.53	-0.11	30.4	2.1
14,013.0	93.90	181.40	12,532.5	-1,508.6	174.4	4.64	4.62	0.43	27.0	-0.4
14,107.0	92.40	181.10	12,527.3	-1,602.4	172.3	1.63	-1.60	-0.32	21.4	-3.1
14,200.0	89.10	181.20	12,526.1	-1,695.4	170.5	3.55	-3.55	0.11	19.7	-5.5
14,293.0	86.20	180.00	12,529.9	-1,788.3	169.5	3.37	-3.12	-1.29	23.0	-7.1
14,387.0	87.80	180.40	12,534.8	-1,882.2	169.2	1.75	1.70	0.43	27.4	-8.0
14,480.0	88.50	180.80	12,537.8	-1,975.1	168.2	0.87	0.75	0.43	29.9	-9.6
14,573.0	89.90	180.50	12,539.1	-2,068.1	167.1	1.54	1.51	-0.32	30.7	-11.3
14,666.0	93.10	180.20	12,536.7	-2,161.1	166.6	3.46	3.44	-0.32	27.7	-12.5
14,760.0	91.40	181.20	12,533.0	-2,255.0	165.4	2.10	-1.81	1.06	23.5	-14.2
14,854.0	87.60	182.10	12,533.8	-2,348.9	162.7	4.15	-4.04	0.96	23.8	-17.5
14,948.0	87.60	181.70	12,537.8	-2,442.8	159.6	0.43	0.00	-0.43	27.3	-21.2
15,042.0	88.00	178.40	12,541.4	-2,536.7	159.5	3.53	0.43	-3.51	30.4	-21.9



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Durango 2 State
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3516.0usft
 MD Reference: KB = 25 @ 3516.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

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)
15,044.9	88.02	178.39	12,541.5	-2,539.6	159.6	0.91	0.85	-0.32	30.5	-21.8
TGT 2(Durango 2 State #704H)										
15,136.0	88.80	178.10	12,544.0	-2,630.6	162.4	0.91	0.85	-0.32	32.0	-19.6
15,229.0	89.60	178.00	12,545.3	-2,723.5	165.6	0.87	0.86	-0.11	32.3	-17.1
15,322.0	93.20	179.40	12,543.0	-2,816.5	167.7	4.15	3.87	1.51	29.0	-15.6
15,417.0	88.40	180.20	12,541.7	-2,911.4	168.0	5.12	-5.05	0.84	26.6	-15.9
15,510.0	86.10	178.50	12,546.2	-3,004.3	169.1	3.07	-2.47	-1.83	30.0	-15.4
15,604.0	84.40	177.00	12,553.9	-3,097.9	172.7	2.41	-1.81	-1.60	36.7	-12.3
15,698.0	94.20	175.70	12,555.1	-3,191.6	178.7	10.52	10.43	-1.38	36.8	-6.9
15,791.0	93.40	178.70	12,548.9	-3,284.3	183.2	3.33	-0.86	3.23	29.6	-3.0
15,885.0	93.10	182.20	12,543.6	-3,378.1	182.5	3.73	-0.32	3.72	23.2	-4.4
15,942.4	91.00	183.00	12,541.5	-3,435.4	179.9	3.91	-3.66	1.40	20.5	-7.3
TGT 3(Durango 2 State #704H)										
15,978.0	89.70	183.50	12,541.3	-3,470.9	177.9	3.91	-3.66	1.40	19.7	-9.6
16,073.0	92.70	184.00	12,539.3	-3,565.7	171.7	3.20	3.16	0.53	15.8	-16.4
16,166.0	90.80	181.10	12,536.5	-3,658.6	167.5	3.73	-2.04	-3.12	11.1	-21.1
16,260.0	85.30	175.40	12,539.7	-3,752.4	170.4	8.42	-5.85	-6.06	12.5	-18.8
16,354.0	86.70	174.30	12,546.2	-3,845.8	178.8	1.89	1.49	-1.17	17.1	-11.0
16,444.8	89.02	174.30	12,549.6	-3,936.1	187.8	2.55	2.55	0.00	18.7	-2.6
TGT 4(Durango 2 State #704H)										
16,448.0	89.10	174.30	12,549.7	-3,939.2	188.1	2.55	2.55	0.00	18.6	-2.3
16,541.0	87.40	175.00	12,552.5	-4,031.8	196.8	1.98	-1.83	0.75	19.3	5.8
16,634.0	89.80	174.80	12,554.8	-4,124.4	205.1	2.59	2.58	-0.22	19.4	13.4
16,728.0	88.30	173.60	12,556.4	-4,217.9	214.6	2.04	-1.60	-1.28	18.7	22.3
16,822.0	92.30	175.80	12,555.9	-4,311.5	223.2	4.86	4.26	2.34	16.1	30.3
16,872.5	92.15	181.50	12,553.9	-4,361.9	224.4	11.29	-0.30	11.29	12.8	31.2
TGT 5(Durango 2 State #704H)										



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3516.0usft
MD Reference: KB = 25 @ 3516.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

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)
16,915.0	92.00	186.30	12,552.4	-4,404.2	221.5	11.29	-0.34	11.29	10.0	28.1
17,009.0	87.50	188.10	12,552.8	-4,497.5	209.8	5.16	-4.79	1.91	7.4	15.6
17,104.0	90.10	184.00	12,554.8	-4,591.9	199.8	5.11	2.74	-4.32	6.0	5.1
17,197.0	91.70	183.60	12,553.3	-4,684.7	193.6	1.77	1.72	-0.43	1.4	-1.7
17,290.0	88.50	182.70	12,553.1	-4,777.5	188.5	3.57	-3.44	-0.97	-2.0	-7.4
17,384.0	89.50	182.70	12,554.8	-4,871.4	184.1	1.06	1.06	0.00	-3.5	-12.4
Final MWD Survey (MD=17384.0')										
17,461.0	89.50	182.70	12,555.5	-4,948.3	180.4	0.00	0.00	0.00	-5.5	-16.5
Final Projection to Bit (MD=17461.0') - PBHL(Durango 2 State #704H)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,228.4	12,204.0	115.5	130.5	HL Crossing, MD:12228.4', TVD:12204.0', N/S:115.5', E/W:130.5', INC:24.06
17,384.0	12,554.8	-4,871.4	184.1	Final MWD Survey (MD=17384.0')
17,461.0	12,555.5	-4,948.3	180.4	Final Projection to Bit (MD=17461.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Signed Kay Maddox Date 1/20/2020



Lea County, NM (NAD 83 NME)

Durango 2 State #704H

Plan #1



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.32°
Magnetic Field
Strength: 47721.4nT
Dip Angle: 59.99°
Date: 4/4/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 9.32°
To convert a Magnetic Direction to a True Direction, Add 9.74° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

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

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #704H

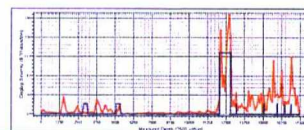
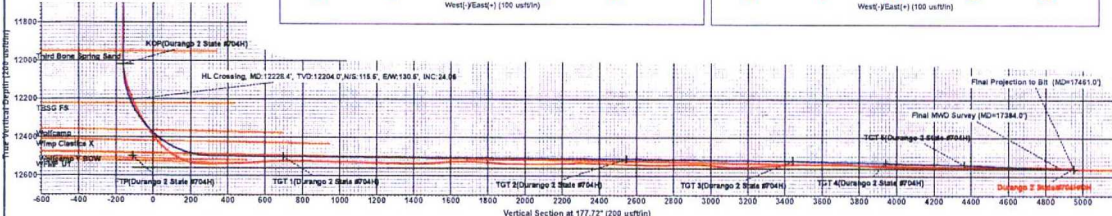
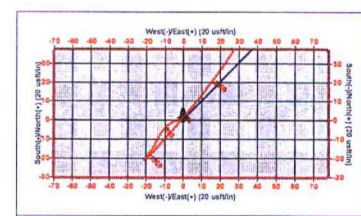
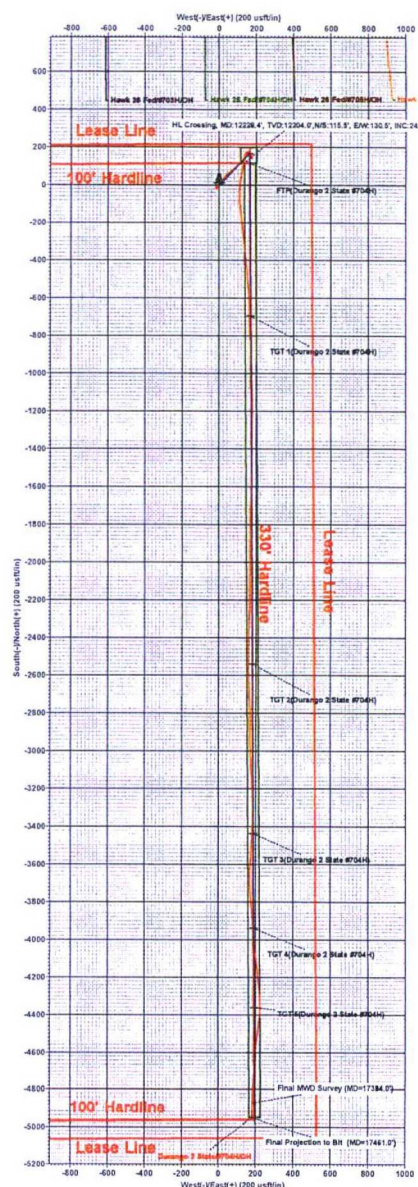
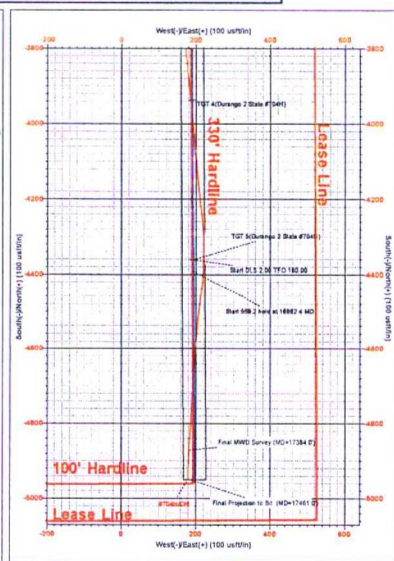
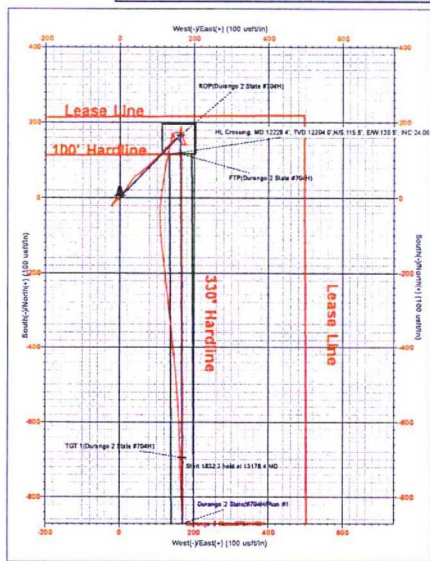
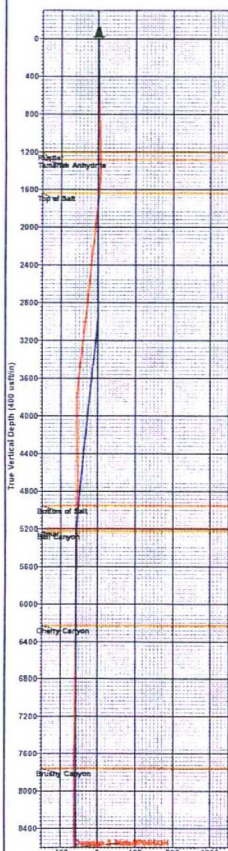
KB = 25 @ 3516.0usft 3491.0
Northing 425106.00 Easting 785360.00 Latitude 32° 9' 58.452 N Longitude 103° 32' 40.988 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	KOP(Durango 2 State #704H)	
2	2800.0	0.00	0.00	2800.0	0.0	0.0	0.00	0.00	0.0	TGT 1(Durango 2 State #704H)	
3	3099.9	6.00	44.48	3099.3	11.2	11.9	2.00	44.48	-10.7	TGT 2(Durango 2 State #704H)	
4	6039.8	6.00	44.48	5028.7	155.8	153.0	0.00	0.00	-149.6	TGT 3(Durango 2 State #704H)	
5	5339.7	0.00	0.00	5328.0	167.0	164.0	2.00	180.00	-160.3	TGT 4(Durango 2 State #704H)	
6	12031.3	0.00	0.00	12019.6	167.0	164.0	0.00	0.00	-160.3	TGT 5(Durango 2 State #704H)	
7	12776.4	89.42	179.63	12497.0	-305.6	167.0	12.00	179.63	312.0	PBHL(Durango 2 State #704H)	
8	13164.7	89.42	179.63	12501.1	-693.8	169.8	0.00	0.00	700.0		
9	13179.4	89.69	179.63	12501.1	-707.6	169.8	2.00	0.00	713.7		
10	15010.8	89.69	179.63	12511.0	-2539.8	181.5	0.00	0.00	2545.0		
11	15027.4	89.36	179.63	12511.1	-2556.6	181.8	2.00	180.00	2561.7		
12	15906.3	89.36	179.63	12521.0	-3435.3	187.2	0.00	0.00	3440.0		
13	15932.0	88.84	179.63	12521.4	-3461.0	187.4	2.00	180.00	3463.7		
14	16407.6	88.84	179.63	12531.0	-3936.5	190.5	0.00	0.00	3941.0		
15	16417.4	88.65	179.63	12531.2	-3946.3	190.5	2.00	180.00	3950.8		
16	16832.1	88.65	179.63	12541.0	-4360.8	193.2	0.00	0.00	4365.0		
17	16862.4	88.04	179.63	12541.9	-4391.2	193.4	2.00	180.00	4395.4		
18	17421.6	88.04	179.63	12561.0	-4950.0	197.0	0.00	0.00	4953.9		

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Durango 2 State #704H)	12019.6	167.0	164.0	425273.00	785524.00
TGT 1(Durango 2 State #704H)	12501.0	-693.8	169.8	424412.20	785529.55
TGT 2(Durango 2 State #704H)	12511.0	-2539.8	181.5	422566.20	785541.46
TGT 3(Durango 2 State #704H)	12521.0	-3435.3	187.2	421670.70	785547.23
TGT 4(Durango 2 State #704H)	12531.0	-3936.5	190.5	421169.50	785550.46
TGT 5(Durango 2 State #704H)	12541.0	-4360.8	193.2	420745.20	785553.20
PBHL(Durango 2 State #704H)	12561.0	-4950.0	197.0	420156.00	785557.00
FTP(Durango 2 State #704H)	12497.0	117.0	164.0	425223.00	785524.00



Lea County, NM (NAD 83 NME)
Durango 2 State #704H
Plan #1
10/11/2019