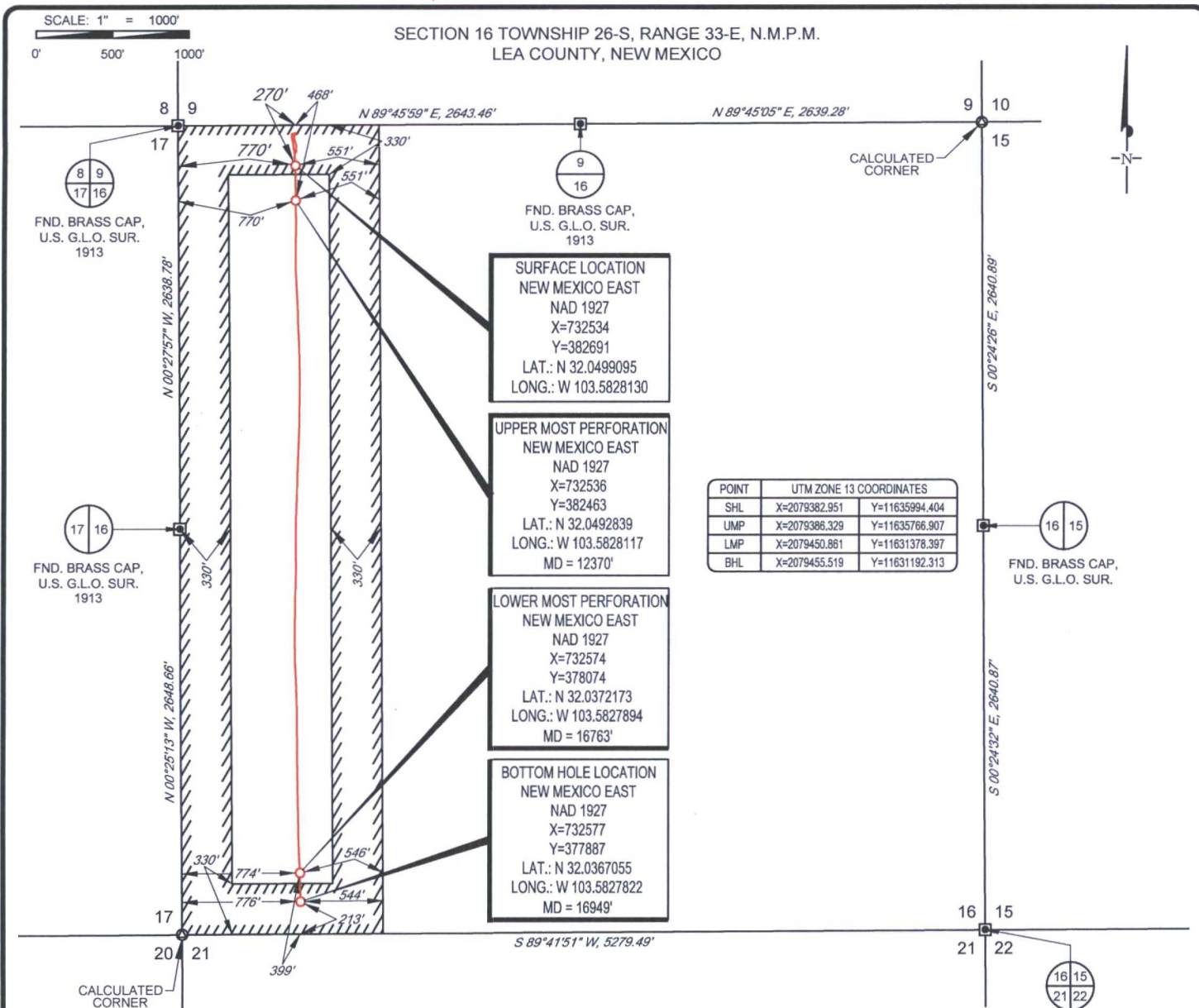




LEASE NAME & WELL NO.: BRASWELL 16 STATE #708H

SECTION 16 TWP 26-S RGE 33-E SURVEY N.M.P.M.

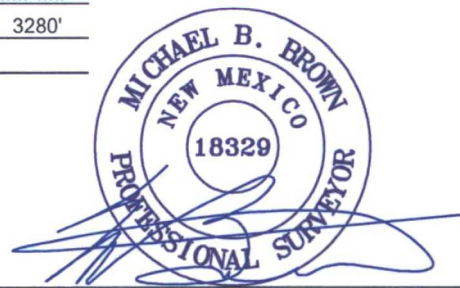
COUNTY LEA STATE NM ELEVATION 3280'

DESCRIPTION 270' FNL & 770' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
FEBRUARY 7, 2017

BRASWELL 16 STATE #708H AS-COMPLETED	REVISION:
DATE: 02/07/17	
FILE: AD_BRASWELL16STATE_708H	
DRAWN BY: A.C.C.	
SHEET: 1 OF 1	

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 19 27.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

HOBBS OGD
MAR 21 2017
RECEIVED



Lea County, NM (NAD 27 NME)
Braswell 16 State #708H
H&P 651
Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)
Geocentric System: US State Plane 1927 (Exact solution)
Ellipsoid: Clarke 1866 East 2001
System Datum: Mean Sea Level

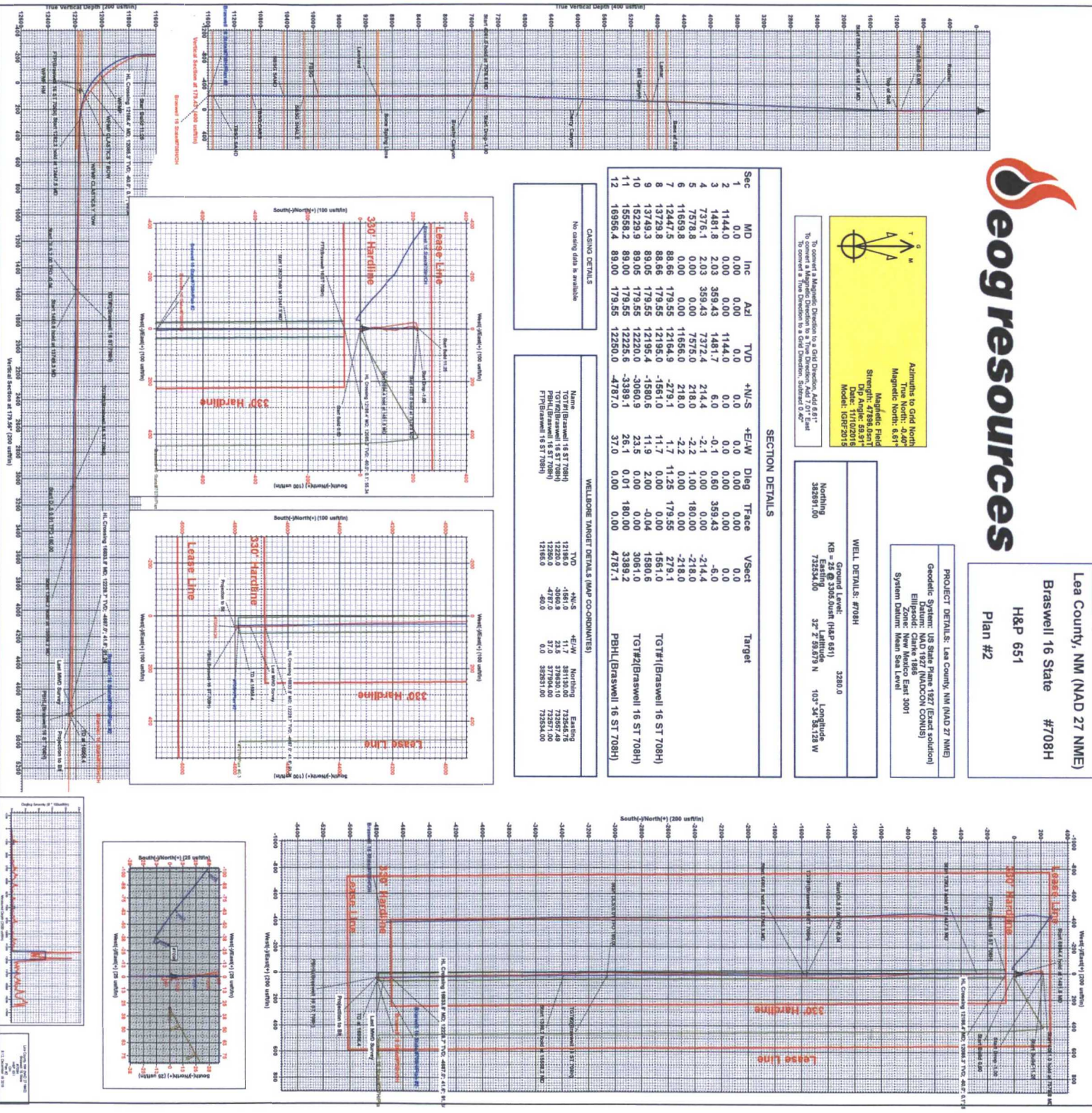


To convert a Magnetic Direction to a Grid Direction, Add 0.0°
To convert a True Direction to a Grid Direction, Subtract 0.0°

WELL DETAILS: #708H			
Ground Level:	3280.0	Longitude	103° 54' 56.128 W
KB = 25 @ 3305.00ft (H&P 651)		Latitude	32° 2' 59.579 N
Eastings	732594.00	Northings	525291.00

SECTION DETAILS									
Sec	MD	Inc	Azi	TYD	+N.S	+E.W	Diag	TFace	Vsect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	1144.0	0.00	0.00	1144.0	0.0	0.0	0.00	0.00	0.0
3	1481.8	2.03	359.43	1481.7	6.0	-0.1	0.60	359.43	-6.0
4	7376.1	2.03	359.43	7372.4	214.4	-2.1	0.00	0.00	-214.4
5	7578.8	0.00	0.00	7575.0	218.0	-2.2	1.00	180.00	-218.0
6	11559.8	0.00	0.00	11556.0	218.0	-2.2	0.00	0.00	-218.0
7	12447.5	88.66	179.55	12164.9	-277.1	11.7	11.25	179.55	279.1
8	13729.8	88.66	179.55	12195.4	-1561.0	11.9	2.00	-0.04	1561.0
9	13749.3	89.05	179.55	12195.4	-3060.9	23.5	0.00	0.00	3061.0
10	15229.9	89.05	179.55	12220.0	-3389.1	26.1	0.01	180.00	3389.2
11	15558.2	89.00	179.55	12225.6	-4787.0	37.0	0.00	0.00	4787.1
12	16956.4	89.00	179.55	12250.0					

CASING DETAILS		WELLSHORE TARGET DETAILS (MAP CO-ORDINATES)	
No casing data is available		Name	Nothing
		TYD	12164.9
		N.S	-1561.0
		E.W	279.1
		Nothing	732594.00
		Nothing	525291.00
		Nothing	732594.00
		Nothing	525291.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Braswell 16 State

#708H

OH

Survey: INTREPID MWD

EOG PVA

16 December, 2016

HOBBBS OCD
MAR 21 2017
RECEIVED



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Site:	Braswell 16 State	MD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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	Braswell 16 State		
Site Position:		Northing:	378,303.00 usft
From:	Map	Easting:	736,347.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 15.991 N
		Longitude:	103° 34' 14.187 W
		Grid Convergence:	0.40 °

Well	#708H					
Well Position	+N/-S	0.0 usft	Northing:	382,691.00 usft	Latitude:	32° 2' 59.679 N
	+E/-W	0.0 usft	Easting:	732,534.00 usft	Longitude:	103° 34' 58.128 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,280.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/10/2016	7.01	59.91	47,896

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	179.56

Survey Program	Date 12/16/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
222.0	16,950.0	INTREPID MWD (OH)	MWD	MWD - Standard



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Braswell 16 State
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
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MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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	1.0	0.0
222.0	0.40	191.70	222.0	-0.8	-0.2	0.18	0.18	0.00	-0.8	0.0
395.0	0.50	185.40	395.0	-2.1	-0.4	0.06	0.06	-3.64	-2.1	-0.2
578.0	0.80	165.60	578.0	-4.1	-0.1	0.20	0.16	-10.82	-4.0	-1.1
763.0	0.40	164.60	763.0	-6.0	0.4	0.22	-0.22	-0.54	-5.9	-1.2
947.0	0.80	150.40	947.0	-7.7	1.2	0.23	0.22	-7.72	-7.3	-2.8
1,126.0	1.10	29.00	1,125.9	-7.3	2.6	0.93	0.17	-67.82	5.1	-5.9
1,218.0	2.70	352.70	1,217.9	-4.4	2.8	2.09	1.74	-39.46	5.0	-2.2
1,310.0	2.70	356.90	1,309.8	-0.1	2.4	0.22	0.00	4.57	1.6	-2.3
1,406.0	2.50	357.60	1,405.7	4.3	2.2	0.21	-0.21	0.73	-0.6	-2.3
1,503.0	2.40	358.20	1,502.6	8.4	2.0	0.11	-0.10	0.62	-1.7	-2.2
1,599.0	2.40	356.90	1,598.5	12.4	1.9	0.06	0.00	-1.35	-2.2	-2.1
1,695.0	2.40	352.00	1,694.4	16.4	1.5	0.21	0.00	-5.10	-2.7	-2.0
1,791.0	2.40	350.40	1,790.4	20.4	0.9	0.07	0.00	-1.67	-3.3	-1.6
1,886.0	2.40	344.40	1,885.3	24.3	0.0	0.26	0.00	-6.32	-3.8	-1.3
1,983.0	2.30	345.60	1,982.2	28.1	-1.0	0.11	-0.10	1.24	-4.5	-0.3
2,079.0	2.20	345.80	2,078.1	31.8	-2.0	0.10	-0.10	0.21	-5.0	0.5
2,174.0	2.10	349.50	2,173.0	35.2	-2.7	0.18	-0.11	3.89	-5.2	1.5
2,271.0	2.10	346.00	2,270.0	38.7	-3.5	0.13	0.00	-3.61	-5.5	1.9
2,367.0	2.00	350.30	2,365.9	42.1	-4.2	0.19	-0.10	4.48	-5.4	3.0
2,463.0	1.80	348.90	2,461.9	45.2	-4.8	0.21	-0.21	-1.46	-5.3	3.4
2,559.0	1.50	350.80	2,557.8	47.9	-5.3	0.32	-0.31	1.98	-4.6	4.1
2,655.0	1.50	348.10	2,653.8	50.4	-5.7	0.07	0.00	-2.81	-4.0	4.5
2,751.0	1.80	356.20	2,749.8	53.1	-6.1	0.40	0.31	8.44	-2.7	5.4
2,847.0	1.90	355.20	2,845.7	56.2	-6.3	0.11	0.10	-1.04	-2.5	5.6
2,943.0	1.70	356.90	2,941.7	59.2	-6.5	0.22	-0.21	1.77	-1.9	5.8
3,039.0	2.40	7.80	3,037.6	62.6	-6.3	0.83	0.73	11.35	-0.8	5.9



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Braswell 16 State
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)	
3,135.0	2.80	11.40	3,133.5	66.9	-5.6	0.45	0.42	3.75	-1.5	5.3	
3,231.0	2.50	10.60	3,229.4	71.3	-4.7	0.31	-0.31	-0.83	-2.7	4.6	
3,327.0	2.20	12.10	3,325.3	75.1	-4.0	0.32	-0.31	1.56	-3.2	4.0	
3,422.0	1.90	28.80	3,420.3	78.3	-2.8	0.70	-0.32	17.58	-2.3	3.6	
3,519.0	2.30	30.30	3,517.2	81.4	-1.1	0.42	0.41	1.55	-2.8	2.0	
3,614.0	2.70	41.70	3,612.1	84.7	1.4	0.67	0.42	12.00	-4.0	0.6	
3,710.0	2.90	4.40	3,708.0	88.8	3.1	1.88	0.21	-38.85	-4.4	-3.6	
3,806.0	3.30	15.80	3,803.9	93.9	4.0	0.76	0.42	11.87	-6.9	-3.1	
3,902.0	3.00	353.30	3,899.7	99.1	4.5	1.32	-0.31	-23.44	-6.9	-6.2	
3,999.0	3.00	353.70	3,996.6	104.1	3.9	0.02	0.00	0.41	-8.6	-5.8	
4,095.0	2.90	352.90	4,092.5	109.0	3.3	0.11	-0.10	-0.83	-10.1	-5.6	
4,191.0	2.50	9.50	4,188.3	113.5	3.4	0.91	-0.42	17.29	-12.3	-2.4	
4,287.0	2.20	31.80	4,284.3	117.1	4.7	0.99	-0.31	23.23	-13.2	1.4	
4,382.0	2.60	346.80	4,379.2	120.8	5.2	1.97	0.42	-47.37	-10.5	-8.9	
4,478.0	1.90	356.30	4,475.1	124.5	4.6	0.82	-0.73	9.90	-12.2	-6.5	
4,574.0	1.10	38.00	4,571.1	126.8	5.0	1.36	-0.83	43.44	-12.9	2.2	
4,766.0	1.60	351.00	4,763.0	130.9	5.7	0.61	0.26	-24.48	-7.6	-8.2	
4,861.0	1.50	351.10	4,858.0	133.4	5.3	0.11	-0.11	0.11	-6.9	-7.7	
4,958.0	1.30	346.80	4,955.0	135.7	4.9	0.23	-0.21	-4.43	-5.3	-7.6	
5,054.0	1.30	350.70	5,050.9	137.9	4.5	0.09	0.00	4.06	-4.6	-6.6	
5,150.0	1.10	344.00	5,146.9	139.8	4.0	0.25	-0.21	-6.98	-2.6	-6.3	
5,246.0	0.50	334.50	5,242.9	141.1	3.6	0.64	-0.62	-9.90	0.3	-5.4	
5,342.0	2.50	341.70	5,338.9	143.5	2.8	2.09	2.08	7.50	0.3	-4.3	
5,438.0	2.90	343.90	5,434.8	147.8	1.4	0.43	0.42	2.29	-1.1	-3.3	
5,535.0	2.50	342.80	5,531.7	152.2	0.1	0.42	-0.41	-1.13	-2.3	-2.4	
5,629.0	2.50	343.20	5,625.6	156.1	-1.1	0.02	0.00	0.43	-3.2	-1.4	
5,725.0	2.40	343.40	5,721.5	160.0	-2.3	0.10	-0.10	0.21	-4.1	-0.5	



EOG Resources, Inc.
EOG PVA

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Design: OH

Local Co-ordinate Reference: Well #708H
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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)
5,821.0	2.10	343.60	5,817.4	163.6	-3.3	0.31	-0.31	0.21	-4.6	0.5
5,917.0	1.70	347.60	5,913.4	166.7	-4.1	0.44	-0.42	4.17	-4.4	1.6
6,013.0	1.60	346.30	6,009.3	169.4	-4.8	0.11	-0.10	-1.35	-3.9	2.2
6,109.0	1.50	343.90	6,105.3	171.9	-5.4	0.12	-0.10	-2.50	-3.3	2.9
6,206.0	1.50	344.30	6,202.3	174.4	-6.1	0.01	0.00	0.41	-2.5	3.9
6,302.0	1.40	340.00	6,298.2	176.7	-6.9	0.15	-0.10	-4.48	-2.0	4.7
6,397.0	1.30	340.00	6,393.2	178.8	-7.6	0.11	-0.11	0.00	-1.1	5.8
6,493.0	1.10	342.10	6,489.2	180.7	-8.3	0.21	-0.21	2.19	0.4	6.9
6,589.0	2.20	359.10	6,585.1	183.4	-8.6	1.24	1.15	17.71	3.0	6.8
6,685.0	2.30	4.00	6,681.1	187.2	-8.5	0.23	0.10	5.10	3.2	6.4
6,780.0	1.90	3.00	6,776.0	190.6	-8.3	0.42	-0.42	-1.05	3.0	6.2
6,876.0	1.80	358.40	6,871.9	193.7	-8.2	0.19	-0.10	-4.79	2.8	6.4
6,972.0	1.30	0.10	6,967.9	196.3	-8.3	0.52	-0.52	1.77	3.8	6.3
7,068.0	0.90	357.50	7,063.9	198.2	-8.3	0.42	-0.42	-2.71	5.0	6.5
7,163.0	0.60	346.80	7,158.9	199.4	-8.4	0.35	-0.32	-11.26	5.8	7.9
7,259.0	0.70	344.00	7,254.9	200.4	-8.7	0.11	0.10	-2.92	7.6	9.1
7,355.0	0.80	311.00	7,350.9	201.4	-9.4	0.45	0.10	-34.37	2.5	13.9
7,451.0	0.70	325.40	7,446.9	202.4	-10.2	0.22	-0.10	15.00	7.1	14.7
7,546.0	1.00	6.10	7,541.9	203.7	-10.5	0.69	0.32	42.84	15.0	6.7
7,643.0	1.10	3.60	7,638.8	205.4	-10.3	0.11	0.10	-2.58	13.0	7.3
7,738.0	0.70	344.30	7,733.8	206.9	-10.4	0.52	-0.42	-20.32	8.4	10.9
7,834.0	0.20	356.90	7,829.8	207.6	-10.6	0.53	-0.52	13.12	9.9	9.0
7,930.0	0.00	125.90	7,925.8	207.8	-10.6	0.21	-0.21	0.00	10.2	8.4
8,026.0	0.30	152.20	8,021.8	207.6	-10.5	0.31	0.31	0.00	-5.3	-12.2
8,122.0	0.60	147.60	8,117.8	206.9	-10.1	0.31	0.31	-4.79	-5.1	-12.6
8,218.0	0.70	123.90	8,213.8	206.2	-9.3	0.30	0.10	-24.69	-0.6	-13.8
8,313.0	0.50	21.40	8,308.8	206.3	-8.7	0.99	-0.21	-107.89	13.3	1.8



EOG Resources, Inc.

EOG PVA

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Local Co-ordinate Reference: Well #708H
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North Reference: Grid
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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)
8,409.0	0.20	47.60	8,404.8	206.8	-8.4	0.35	-0.31	27.29	12.2	-4.1
8,505.0	0.10	79.80	8,500.8	206.9	-8.2	0.13	-0.10	33.54	7.9	-9.9
8,601.0	1.00	198.40	8,596.8	206.1	-8.4	1.10	0.94	123.54	-13.3	-2.2
8,697.0	0.80	151.20	8,692.8	204.7	-8.3	0.77	-0.21	-49.17	-8.7	-11.8
8,793.0	1.40	41.10	8,788.8	205.0	-7.3	1.91	0.62	-114.69	13.1	-4.7
8,889.0	1.00	45.40	8,884.8	206.5	-5.9	0.43	-0.42	4.48	10.7	-5.6
8,985.0	0.80	51.00	8,980.7	207.5	-4.8	0.23	-0.21	5.83	8.6	-6.5
9,081.0	0.90	69.40	9,076.7	208.2	-3.5	0.30	0.10	19.17	4.7	-8.7
9,177.0	0.90	84.60	9,172.7	208.5	-2.1	0.25	0.00	15.83	0.8	-9.4
9,273.0	0.50	62.50	9,268.7	208.8	-1.0	0.50	-0.42	-23.02	3.2	-8.7
9,369.0	0.40	98.50	9,364.7	208.9	-0.3	0.31	-0.10	37.50	-3.2	-8.7
9,465.0	0.30	115.00	9,460.7	208.8	0.3	0.15	-0.10	17.19	-6.1	-7.3
9,562.0	0.50	87.30	9,557.7	208.7	1.0	0.28	0.21	-28.56	-2.7	-9.4
9,658.0	0.50	86.10	9,653.7	208.7	1.8	0.01	0.00	-1.25	-3.3	-9.5
9,754.0	0.30	40.50	9,749.7	209.0	2.4	0.38	-0.21	-47.50	3.9	-9.3
9,850.0	0.80	11.90	9,845.7	209.8	2.7	0.58	0.52	-29.79	7.0	-6.4
9,945.0	0.80	21.00	9,940.7	211.1	3.0	0.13	0.00	9.58	4.6	-7.4
10,041.0	0.80	46.10	10,036.7	212.2	3.8	0.36	0.00	26.15	-0.2	-8.3
10,137.0	1.00	45.10	10,132.7	213.2	4.8	0.21	0.21	-1.04	-1.6	-8.3
10,232.0	0.90	24.60	10,227.7	214.5	5.7	0.37	-0.11	-21.58	-0.1	-8.7
10,328.0	1.00	21.80	10,323.6	215.9	6.4	0.11	0.10	-2.92	-1.3	-8.7
10,423.0	1.30	12.30	10,418.6	217.8	6.9	0.37	0.32	-10.00	-1.7	-8.9
10,519.0	0.80	272.40	10,514.6	218.9	6.5	1.71	-0.52	-104.06	8.6	-1.2
10,615.0	1.00	263.00	10,610.6	218.8	5.0	0.26	0.21	-9.79	7.2	0.1
10,711.0	1.10	253.10	10,706.6	218.4	3.3	0.22	0.10	-10.31	5.3	1.2
10,807.0	1.70	235.10	10,802.6	217.3	1.2	0.77	0.62	-18.75	2.4	2.5
10,902.0	1.40	277.80	10,897.5	216.7	-1.1	1.22	-0.32	44.95	1.2	1.2



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Site:	Braswell 16 State	MD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)
10,999.0	1.10	274.60	10,994.5	216.9	-3.2	0.32	-0.31	-3.30	-0.9	1.2
11,094.0	1.40	251.50	11,089.5	216.6	-5.2	0.61	0.32	-24.32	-3.3	0.3
11,190.0	1.80	246.60	11,185.4	215.7	-7.7	0.44	0.42	-5.10	-6.0	0.0
11,286.0	2.10	251.60	11,281.4	214.5	-10.8	0.36	0.31	5.21	-9.3	0.6
11,382.0	2.20	254.30	11,377.3	213.4	-14.2	0.15	0.10	2.81	-12.8	1.1
11,516.0	2.00	266.00	11,511.2	212.6	-19.0	0.35	-0.15	8.73	-17.2	4.2
11,612.0	1.90	256.00	11,607.2	212.1	-22.2	0.37	-0.10	-10.42	-20.9	0.9
11,705.0	5.10	186.70	11,700.0	207.6	-24.2	5.13	3.44	-74.52	-11.0	-20.9
11,753.0	15.90	173.40	11,747.2	198.9	-23.7	22.91	22.50	-27.71	-8.3	-22.7
11,801.0	25.30	169.60	11,792.0	182.3	-21.1	19.77	19.58	-7.92	-13.3	-21.7
11,849.0	28.40	170.40	11,834.9	160.9	-17.3	6.50	6.46	1.67	-20.7	-18.9
11,897.0	32.20	171.10	11,876.3	137.0	-13.4	7.95	7.92	1.46	-26.2	-15.5
11,945.0	36.70	172.30	11,915.9	110.2	-9.5	9.48	9.37	2.50	-30.5	-11.5
11,993.0	40.00	173.60	11,953.5	80.6	-5.9	7.08	6.87	2.71	-33.1	-7.5
12,041.0	43.70	175.40	11,989.3	48.7	-2.9	8.10	7.71	3.75	-33.7	-3.8
12,089.0	46.40	177.70	12,023.2	14.8	-0.8	6.57	5.62	4.79	-31.9	-0.9
12,137.0	49.70	179.80	12,055.2	-20.8	-0.1	7.61	6.87	4.37	-27.8	0.3
12,186.0	55.30	179.60	12,085.1	-59.7	0.1	11.43	11.43	-0.41	-22.5	0.2
12,186.4	55.34	179.60	12,085.3	-60.0	0.1	9.19	9.17	-0.88	-22.5	0.1
HL Crossing 12186.4' MD; 12085.3' TVD; -60.0°; 0.1°; 55.34										
12,229.7	59.31	179.23	12,108.7	-96.5	0.5	9.19	9.17	-0.84	-17.3	0.2
FTP(Braswell 16 ST 708H)										
12,234.0	59.70	179.20	12,110.8	-100.2	0.6	9.19	9.17	-0.80	-16.7	0.2
12,282.0	66.10	179.10	12,132.7	-142.9	1.2	13.33	13.33	-0.21	-10.8	0.5
12,330.0	75.70	179.80	12,148.4	-188.2	1.6	20.05	20.00	1.46	-7.1	0.6
12,377.0	78.50	179.20	12,158.9	-234.0	2.0	6.09	5.96	-1.28	-4.0	0.7
12,473.0	86.10	179.10	12,171.7	-329.0	3.4	7.92	7.92	-0.10	4.6	1.3



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Braswell 16 State
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)
12,511.0	90.60	180.30	180.30	12,172.8	-367.0	3.6	12.26	11.84	3.16	4.8	1.2
12,608.0	88.40	180.70	180.70	12,173.7	-464.0	2.8	2.31	-2.27	0.41	3.4	-0.4
12,703.0	89.20	180.70	180.70	12,175.7	-559.0	1.6	0.84	0.84	0.00	3.1	-2.3
12,799.0	89.10	178.60	178.60	12,177.1	-655.0	2.2	2.19	-0.10	-2.19	2.3	-2.4
12,895.0	89.90	177.20	177.20	12,177.9	-750.9	5.7	1.68	0.83	-1.46	0.9	0.3
12,991.0	89.30	176.20	176.20	12,178.6	-846.7	11.3	1.21	-0.62	-1.04	-0.7	5.1
13,087.0	91.30	177.50	177.50	12,178.1	-942.6	16.5	2.48	2.08	1.35	-3.4	9.6
13,184.0	90.40	177.70	177.70	12,176.7	-1,039.5	20.6	0.95	-0.93	0.21	-7.1	12.9
13,280.0	88.40	177.00	177.00	12,177.7	-1,135.4	25.0	2.21	-2.08	-0.73	-8.4	16.6
13,375.0	88.60	179.10	179.10	12,180.1	-1,230.3	28.3	2.22	0.21	2.21	-8.1	19.1
13,472.0	90.20	178.60	178.60	12,181.2	-1,327.2	30.2	1.73	1.65	-0.52	-9.4	20.3
13,568.0	90.90	179.70	179.70	12,180.2	-1,423.2	31.6	1.36	0.73	1.15	-12.5	21.0
13,664.0	90.40	181.60	181.60	12,179.2	-1,519.2	30.6	2.05	-0.52	1.98	-15.9	19.1
13,706.4	89.25	181.07	181.07	12,179.3	-1,561.6	29.6	2.98	-2.71	-1.25	-16.7	17.8
TGT#1(Braswell 16 ST 708H)											
13,760.0	87.80	180.40	180.40	12,180.7	-1,615.2	28.9	2.98	-2.71	-1.25	-16.3	16.7
13,856.0	89.30	180.90	180.90	12,183.1	-1,711.1	27.8	1.65	1.56	0.52	-15.5	14.9
13,951.0	89.80	182.00	182.00	12,183.8	-1,806.1	25.4	1.27	0.53	1.16	-16.3	11.7
14,048.0	88.80	182.10	182.10	12,185.0	-1,903.0	21.9	1.04	-1.03	0.10	-16.7	7.5
14,144.0	88.80	182.90	182.90	12,187.0	-1,998.9	17.7	0.83	0.00	0.83	-16.3	2.6
14,240.0	89.20	181.00	181.00	12,188.7	-2,094.8	14.5	2.02	0.42	-1.98	-16.2	-1.5
14,336.0	89.80	182.60	182.60	12,189.5	-2,190.8	11.4	1.78	0.62	1.67	-17.0	-5.2
14,432.0	87.10	181.80	181.80	12,192.1	-2,286.7	7.8	2.93	-2.81	-0.83	-16.0	-9.6
14,528.0	87.70	180.00	180.00	12,196.5	-2,382.5	6.3	1.97	0.62	-1.87	-13.2	-11.9
14,624.0	87.00	179.10	179.10	12,200.9	-2,478.4	7.0	1.19	-0.73	-0.94	-10.4	-11.9
14,720.0	89.80	179.70	179.70	12,203.6	-2,574.4	8.0	2.98	2.92	0.62	-9.3	-11.7
14,816.0	90.00	181.00	181.00	12,203.8	-2,670.4	7.4	1.37	0.21	1.35	-10.7	-13.0



EOG Resources, Inc.
EOG PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)	
14,912.0	89.20	180.70	12,204.5	-2,766.4	6.0	0.89	-0.83	-0.31	-11.7	-15.2	
15,008.0	88.80	181.70	12,206.1	-2,862.3	4.0	1.12	-0.42	1.04	-11.6	-17.9	
15,103.0	88.40	180.20	12,208.5	-2,957.3	2.4	1.63	-0.42	-1.58	-10.8	-20.3	
15,199.0	89.70	180.10	12,210.0	-3,053.3	2.2	1.36	1.35	-0.10	-10.8	-21.3	
15,206.8	89.71	180.02	12,210.1	-3,061.1	2.2	1.05	0.10	-1.04	-10.9	-21.3	
TGT#2(Braswell 16 ST 708H)											
15,295.0	89.80	179.10	12,210.5	-3,149.3	2.8	1.05	0.10	-1.04	-12.0	-21.3	
15,390.0	91.90	178.30	12,209.1	-3,244.2	5.0	2.37	2.21	-0.84	-15.0	-19.9	
15,487.0	88.00	176.90	12,209.1	-3,341.1	9.1	4.27	-4.02	-1.44	-16.6	-16.6	
15,582.0	90.70	178.10	12,210.2	-3,436.0	13.2	3.11	2.84	1.26	-17.2	-13.2	
15,678.0	89.10	178.00	12,210.4	-3,532.0	16.5	1.67	-1.67	-0.10	-18.7	-10.7	
15,775.0	88.10	179.00	12,212.8	-3,628.9	19.0	1.46	-1.03	1.03	-18.0	-8.9	
15,870.0	88.30	180.10	12,215.7	-3,723.8	19.7	1.18	0.21	1.16	-16.7	-8.9	
15,967.0	89.60	179.80	12,217.5	-3,820.8	19.8	1.38	1.34	-0.31	-16.6	-9.6	
16,063.0	88.50	178.70	12,219.1	-3,916.8	21.1	1.62	-1.15	-1.15	-16.7	-9.1	
16,158.0	91.50	179.00	12,219.1	-4,011.8	23.0	3.17	3.16	0.32	-18.4	-7.9	
16,255.0	87.40	178.50	12,220.0	-4,108.7	25.1	4.26	-4.23	-0.52	-19.1	-6.6	
16,351.0	90.80	179.60	12,221.5	-4,204.7	26.7	3.72	3.54	1.15	-19.3	-5.7	
16,447.0	86.90	178.80	12,223.5	-4,300.6	28.0	4.15	-4.06	-0.83	-19.0	-5.2	
16,543.0	91.90	178.40	12,224.5	-4,396.6	30.4	5.22	5.21	-0.42	-19.7	-3.6	
16,639.0	88.40	177.30	12,224.2	-4,492.5	34.0	3.82	-3.65	-1.15	-21.6	-0.7	
16,735.0	87.50	177.30	12,227.7	-4,588.3	38.5	0.94	-0.94	0.00	-19.9	3.0	
16,831.0	91.20	179.10	12,228.7	-4,684.2	41.5	4.29	3.85	1.87	-20.5	5.3	
16,833.8	91.24	179.11	12,228.7	-4,687.0	41.6	1.45	1.36	0.51	-20.6	5.3	
HL Crossing 16833.8' MD; 12228.7' TVD; -4687.0'; 41.6'; 91.24											
16,890.0	92.00	179.40	12,227.1	-4,743.2	42.3	1.45	1.36	0.51	-23.1	5.6	
Last MWD Survey											



EOG Resources, Inc.

EOG PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
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Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
 MD Reference: KB = 25 @ 3306.0usft (H&P 651)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 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)
16,932.9	92.00	179.40	12,225.6	-4,786.1	42.7	0.00	0.00	0.00	-25.4	5.8
PBHL(Braswell 16 ST 708H)										
16,950.0	92.00	179.40	12,225.0	-4,803.2	42.9	0.00	0.00	0.00	-30.4	6.9
Projection to Bit										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
12,186.4	12,085.3	-60.0	0.1	HL Crossing 12186.4' MD; 12085.3' TVD; -60.0'; 0.1'; 55.34	
16,833.8	12,228.7	-4,687.0	41.6	HL Crossing 16833.8' MD; 12228.7' TVD; -4687.0'; 41.6'; 91.24	
16,890.0	12,227.1	-4,743.2	42.3	Last MWD Survey	
16,950.0	12,225.0	-4,803.2	42.9	Projection to Bit	

Checked By: _____ Approved By: _____ Date: _____