



Lea County, NM (NAD 83 NME)
Nervosa 24 State Com #601H
H&P 653
Plan #1

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: #601H

Ground Level: 3764.0
KB = 25 @ 3789.0usft (H&P 653)
Northing: 533840.00 Easting: 792474.00 Latitude: 32° 27' 53.843 N Longitude: 103° 31' 8.617 W

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.52°

Magnetic Field
Strength: 48099.8nT
Dip Angle: 60.29°
Date: 4/24/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.53°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

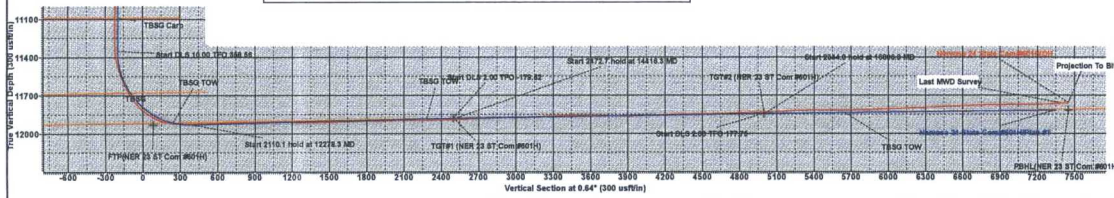
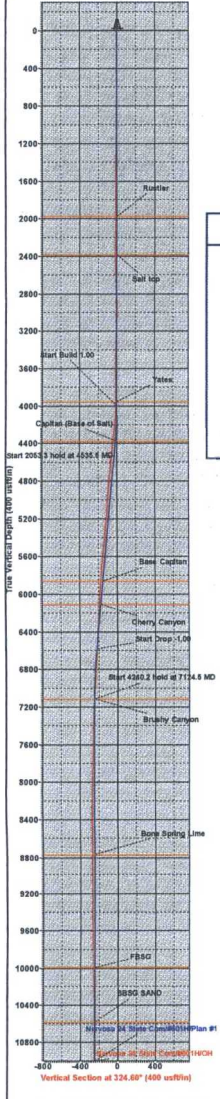
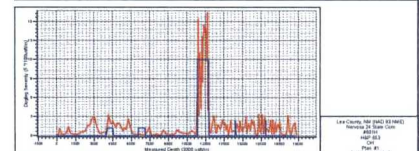
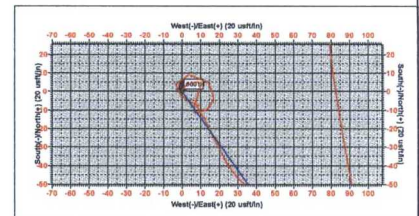
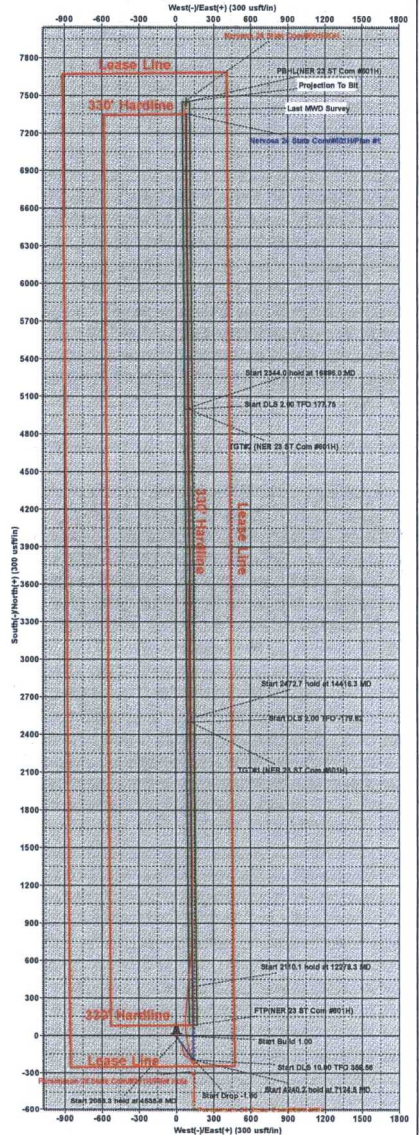
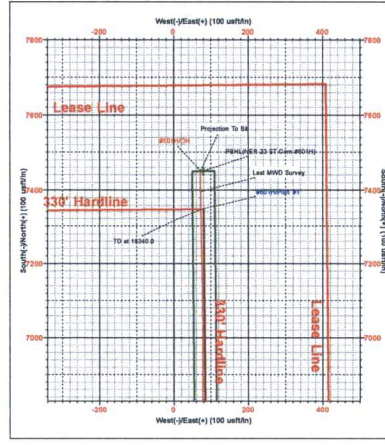
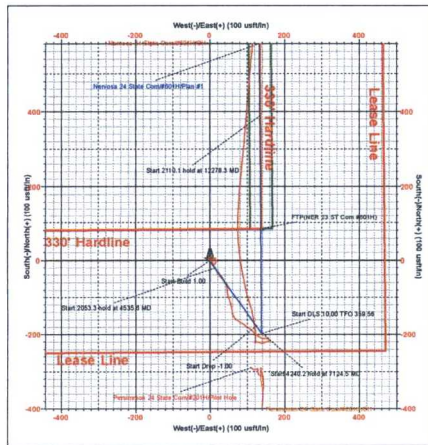
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4535.6	5.36	144.60	4534.8	-20.4	14.5	1.00	144.60	-20.2	
4	6589.9	5.36	144.60	6579.2	-176.6	125.5	0.00	0.00	-175.2	
5	7124.5	0.00	0.00	7114.0	-197.0	140.0	1.00	180.00	-195.5	
6	11364.7	0.00	0.00	11354.2	-197.0	140.0	0.00	0.00	-195.5	
7	12278.3	91.36	359.56	11927.0	389.5	135.5	10.00	359.56	391.0	
8	14388.4	91.36	359.56	11877.0	2498.9	119.3	0.00	0.00	2500.1	TGT#1 (NER 23 ST Com #601H)
9	14416.3	90.80	359.56	11876.5	2526.8	119.1	2.00	-179.62	2528.0	
10	16889.0	90.80	359.56	11842.0	4999.2	100.0	0.00	0.00	5000.0	TGT#2 (NER 23 ST Com #601H)
11	16896.0	90.66	359.56	11841.9	5006.3	99.9	2.00	177.75	5007.1	
12	19240.0	90.66	359.56	11815.0	7350.0	82.0	0.00	0.00	7350.5	PBHL(NER 23 ST Com #601H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL(NER 23 ST Com #601H)	11815.0	7450.0	81.0	541290.00	792555.00
TGT#1 (NER 23 ST Com #601H)	11842.0	4999.2	100.0	538839.20	792573.96
TGT#2 (NER 23 ST Com #601H)	11877.0	2498.9	119.3	536338.80	792583.31
FTP(NER 23 ST Com #601H)	11927.0	84.0	138.0	533924.00	792612.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Nervosa 24 State Com

#601H

OH

Design: OH

PVA

12 May, 2017

HOBBBS OCD
JUL 26 2017
RECEIVED



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Nervosa 24 State Com
 Well: #601H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #601H
 TVD Reference: KB = 25 @ 3789.0usft (H&P 653)
 MD Reference: KB = 25 @ 3789.0usft (H&P 653)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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: Nervosa 24 State Com

Site Position: Northing: 533,840.00 usft Latitude: 32° 27' 53.843 N
 From: Map Easting: 792,474.00 usft Longitude: 103° 31' 8.617 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.44 °

Well: #601H

Well Position: +N/-S 0.0 usft Northing: 533,840.00 usft Latitude: 32° 27' 53.843 N
 +E/-W 0.0 usft Easting: 792,474.00 usft Longitude: 103° 31' 8.617 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,764.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/24/2017	6.96	60.29	48,100

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	0.62

Survey Program: Date 5/12/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
136.0	19,370.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard



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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
136.0	0.20	3.50	136.0	0.2	0.0	0.15	0.15	0.00	-0.2	0.0
223.0	1.00	32.30	223.0	1.0	0.4	0.95	0.92	33.10	-1.1	0.2
402.0	0.80	53.50	402.0	3.1	2.3	0.22	-0.11	11.84	-3.7	1.1
585.0	0.90	74.50	585.0	4.2	4.7	0.18	0.05	11.48	-5.6	2.8
768.0	1.50	75.10	767.9	5.2	8.4	0.33	0.33	0.33	-9.4	2.9
951.0	1.00	192.80	950.9	4.3	10.3	1.18	-0.27	64.32	6.5	9.1
1,134.0	1.50	196.50	1,133.8	0.4	9.3	0.28	0.27	2.02	3.1	8.8
1,324.0	1.10	200.60	1,323.8	-3.6	8.0	0.22	-0.21	2.16	-0.6	8.7
1,513.0	1.10	188.30	1,512.8	-7.1	7.1	0.12	0.00	-6.51	-6.0	8.0
1,703.0	0.70	181.60	1,702.7	-10.1	6.8	0.22	-0.21	-3.53	-9.9	7.0
1,892.0	0.10	134.90	1,891.7	-11.4	6.8	0.34	-0.32	-24.71	-12.9	-3.2
1,946.0	0.40	127.20	1,945.7	-11.5	7.0	0.56	0.56	-14.26	-12.6	-4.9
2,110.0	0.90	68.10	2,109.7	-11.4	8.7	0.47	0.30	-36.04	-3.8	-13.8
2,299.0	2.10	71.50	2,298.7	-9.7	13.3	0.64	0.63	1.80	-9.6	-13.5
2,489.0	2.50	9.00	2,488.5	-4.5	17.3	1.27	0.21	-32.89	1.8	-17.8
2,678.0	3.80	326.20	2,677.3	4.7	14.5	1.37	0.69	-22.65	4.1	-14.6
2,867.0	4.40	262.40	2,865.9	9.0	3.8	2.31	0.32	-33.76	4.9	-8.4
3,057.0	2.50	180.30	3,055.6	3.9	-3.5	2.50	-1.00	-43.21	3.9	-3.5
3,246.0	2.10	124.70	3,244.5	-2.2	-0.6	1.15	-0.21	-29.42	-0.7	-2.2
3,435.0	1.50	119.50	3,433.4	-5.4	4.4	0.33	-0.32	-2.75	-6.5	-2.6
3,625.0	0.90	111.90	3,623.3	-7.2	7.9	0.33	-0.32	-4.00	-10.0	-3.7
3,814.0	0.10	20.70	3,812.3	-7.6	9.3	0.48	-0.42	-48.25	3.8	-11.4
4,003.0	0.60	286.00	4,001.3	-7.2	8.4	0.33	0.26	-50.11	10.1	4.6
4,192.0	4.70	150.90	4,190.1	-13.7	11.3	2.72	2.17	-71.48	-14.3	2.9
4,382.0	7.80	154.40	4,379.0	-31.8	20.5	1.54	1.53	1.84	-25.1	2.6
4,571.0	5.10	132.10	4,566.9	-48.7	32.1	1.83	-1.32	-11.80	-29.0	-8.5



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4,761.0	5.80	152.00	4,756.0	-62.8	42.9	1.05	0.37	10.47	-30.1	2.4
4,950.0	4.20	184.60	4,944.3	-78.2	46.8	1.69	-0.85	17.25	-25.5	12.0
5,139.0	6.20	163.00	5,132.6	-94.8	49.2	1.46	1.06	-11.43	-28.1	-6.3
5,329.0	5.00	160.20	5,321.7	-112.4	55.1	0.65	-0.63	-1.47	-29.2	-12.9
5,451.0	6.10	167.30	5,443.1	-123.8	58.3	1.06	0.90	5.82	-31.8	-13.0
5,583.0	6.90	173.30	5,574.2	-138.5	60.7	0.79	0.61	4.55	-37.1	-14.8
5,772.0	4.80	136.90	5,762.3	-155.5	67.5	2.20	-1.11	-19.26	-20.8	-38.2
5,962.0	3.30	119.10	5,951.8	-164.0	77.7	1.02	-0.79	-9.37	-5.1	-37.5
6,151.0	2.90	121.10	6,140.6	-169.1	86.5	0.22	-0.21	1.06	-0.4	-30.1
6,340.0	3.20	125.10	6,329.3	-174.6	94.9	0.19	0.16	2.12	4.1	-23.8
6,529.0	3.10	131.30	6,518.0	-181.0	103.1	0.19	-0.05	3.28	8.3	-19.4
6,719.0	3.40	131.10	6,707.7	-188.1	111.2	0.16	0.16	-0.11	13.5	-15.6
6,908.0	3.60	130.20	6,896.3	-195.6	120.0	0.11	0.11	-0.48	12.2	-12.9
7,097.0	3.50	130.30	7,085.0	-203.2	128.9	0.05	-0.05	0.05	4.4	-11.9
7,287.0	3.00	115.40	7,274.7	-209.1	137.8	0.51	-0.26	-7.84	-3.2	-11.8
7,476.0	1.20	80.60	7,463.5	-210.9	144.2	1.13	-0.95	-18.41	-1.9	-14.4
7,666.0	1.30	87.50	7,653.5	-210.5	148.3	0.10	0.05	3.63	-7.7	-13.8
7,855.0	1.20	93.50	7,842.5	-210.5	152.5	0.09	-0.05	3.17	-13.3	-12.7
8,044.0	1.10	118.10	8,031.4	-211.5	156.0	0.26	-0.05	13.02	-20.9	-5.2
8,234.0	1.10	124.20	8,221.4	-213.4	159.2	0.06	0.00	3.21	-25.0	-2.7
8,423.0	1.00	122.50	8,410.4	-215.3	162.0	0.06	-0.05	-0.90	-28.4	-3.5
8,612.0	0.70	234.70	8,599.3	-216.8	162.5	0.75	-0.16	59.37	6.9	29.1
8,801.0	1.20	260.60	8,788.3	-217.8	159.6	0.34	0.26	13.70	15.9	23.7
8,991.0	1.20	260.30	8,978.3	-218.5	155.7	0.00	0.00	-0.16	11.8	23.8
9,180.0	1.10	250.20	9,167.2	-219.4	152.0	0.12	-0.05	-5.34	3.7	25.1
9,369.0	1.40	251.80	9,356.2	-220.7	148.1	0.16	0.16	0.85	0.3	25.1
9,559.0	1.80	243.90	9,546.1	-222.8	143.2	0.24	0.21	-4.16	-8.4	24.6



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 Design: OH

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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)	
9,748.0	2.30	285.20	9,735.0	-223.1	136.9	0.80	0.26	21.85	3.8	26.0	
9,938.0	1.60	299.30	9,924.9	-220.8	130.9	0.44	-0.37	7.42	3.7	25.2	
10,127.0	1.10	282.80	10,113.8	-219.1	126.8	0.33	-0.26	-8.73	-7.9	24.4	
10,318.0	0.50	266.40	10,304.8	-218.8	124.2	0.33	-0.31	-8.59	-17.1	20.7	
10,507.0	0.30	317.00	10,493.8	-218.4	123.1	0.20	-0.11	26.77	4.1	27.0	
10,696.0	0.60	39.70	10,682.8	-217.3	123.4	0.34	0.16	43.76	26.2	-0.2	
10,885.0	0.70	233.90	10,871.8	-217.2	123.1	0.68	0.05	-87.72	-25.6	6.3	
11,074.0	0.80	165.90	11,060.8	-219.2	122.4	0.45	0.05	-35.98	-17.2	-22.4	
11,264.0	1.00	183.60	11,250.8	-222.1	122.7	0.18	0.11	9.32	-26.1	-15.7	
11,379.0	5.40	357.70	11,365.6	-217.7	122.4	5.56	3.83	151.39	20.1	18.5	
11,426.0	12.60	1.20	11,412.0	-210.4	122.4	15.36	15.32	7.45	16.5	17.3	
11,474.0	13.90	1.50	11,458.7	-199.4	122.7	2.71	2.71	0.62	12.2	17.0	
11,521.0	17.50	355.10	11,504.0	-186.7	122.2	8.49	7.66	-13.62	7.8	18.3	
11,568.0	22.50	351.40	11,548.1	-170.8	120.3	10.97	10.64	-7.87	4.3	20.3	
11,615.0	25.60	348.20	11,591.1	-151.9	116.8	7.15	6.60	-6.81	1.3	23.4	
11,663.0	26.30	344.60	11,634.2	-131.5	111.9	3.59	1.46	-7.50	-0.1	28.3	
11,710.0	30.60	342.90	11,675.5	-110.0	105.6	9.31	9.15	-3.62	0.8	35.0	
11,757.0	36.60	345.40	11,714.7	-85.0	98.6	13.10	12.77	5.32	3.8	42.1	
11,804.0	38.90	349.30	11,751.8	-56.9	92.3	7.05	4.89	8.30	8.0	48.2	
11,852.0	44.90	350.40	11,787.5	-25.4	86.6	12.59	12.50	2.29	11.5	53.6	
11,899.0	51.70	351.50	11,818.8	9.2	81.1	14.57	14.47	2.34	13.7	58.7	
11,946.0	57.10	356.10	11,846.1	47.2	77.1	13.97	11.49	9.79	16.5	61.6	
11,993.0	62.70	359.80	11,869.7	87.8	75.7	13.72	11.91	7.87	17.5	62.1	
12,041.0	69.20	2.00	11,889.3	131.6	76.4	14.17	13.54	4.58	16.0	60.9	
12,088.0	75.20	4.40	11,903.6	176.3	78.9	13.66	12.77	5.11	12.7	58.0	
12,135.0	79.60	5.90	11,913.9	221.9	83.0	9.87	9.36	3.19	8.5	53.6	
12,182.0	87.20	5.40	11,919.3	268.4	87.6	16.20	16.17	-1.06	2.4	48.8	



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12,230.0	88.80	5.20	11,921.0	316.1	92.0	3.36	3.33	-0.42	-3.0	44.0
12,262.0	90.50	5.10	11,921.2	348.0	94.9	5.32	5.31	-0.31	-5.4	40.9
12,350.0	91.00	5.00	11,920.0	435.6	102.6	0.58	0.57	-0.11	-6.0	32.5
12,445.0	91.30	4.90	11,918.1	530.3	110.8	0.33	0.32	-0.11	-5.6	23.6
12,539.0	92.40	5.60	11,915.1	623.8	119.4	1.39	1.17	0.74	-6.5	14.2
12,634.0	91.60	3.70	11,911.7	718.5	127.1	2.17	-0.84	-2.00	-7.5	5.8
12,728.0	90.70	1.40	11,909.9	812.3	131.3	2.63	-0.96	-2.45	-7.1	0.9
12,823.0	91.00	1.20	11,908.4	907.3	133.5	0.38	0.32	-0.21	-6.3	-1.9
12,918.0	90.60	0.90	11,907.1	1,002.3	135.2	0.53	-0.42	-0.32	-5.3	-4.4
13,012.0	89.30	1.20	11,907.2	1,096.3	136.9	1.42	-1.38	0.32	-3.0	-6.9
13,107.0	89.10	0.00	11,908.5	1,191.2	137.9	1.28	-0.21	-1.26	0.5	-8.6
13,202.0	88.70	359.30	11,910.4	1,286.2	137.3	0.85	-0.42	-0.74	4.6	-8.7
13,296.0	89.60	358.70	11,911.7	1,380.2	135.7	1.15	0.96	-0.64	8.2	-7.8
13,391.0	91.60	358.70	11,910.8	1,475.2	133.6	2.11	2.11	0.00	9.5	-6.4
13,486.0	93.10	358.70	11,906.9	1,570.1	131.4	1.58	1.58	0.00	7.8	-5.0
13,578.0	91.50	358.60	11,903.2	1,661.9	129.2	1.74	-1.74	-0.11	6.3	-3.5
13,673.0	92.10	358.30	11,900.2	1,756.9	126.7	0.71	0.63	-0.32	5.6	-1.7
13,767.0	90.90	359.00	11,897.7	1,850.8	124.4	1.48	-1.28	0.74	5.4	-0.2
13,862.0	91.00	359.00	11,896.1	1,945.8	122.8	0.11	0.11	0.00	6.0	0.8
13,957.0	91.80	358.80	11,893.8	2,040.7	121.0	0.87	0.84	-0.21	6.0	1.9
14,051.0	90.00	358.20	11,892.3	2,134.7	118.5	2.02	-1.91	-0.64	6.7	3.6
14,146.0	90.30	357.90	11,892.1	2,229.6	115.3	0.45	0.32	-0.32	8.7	6.1
14,241.0	90.90	358.10	11,891.1	2,324.6	112.0	0.67	0.63	0.21	10.0	8.7
14,335.0	91.40	357.90	11,889.2	2,418.5	108.7	0.57	0.53	-0.21	10.3	11.2
14,430.0	92.00	357.90	11,886.4	2,513.4	105.2	0.63	0.63	0.00	9.7	14.0
14,525.0	91.60	359.40	11,883.4	2,608.3	103.0	1.63	-0.42	1.58	8.1	15.5
14,619.0	92.70	359.60	11,879.9	2,702.2	102.1	1.19	1.17	0.21	5.9	15.6



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Nervosa 24 State Com
 Well: #601H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #601H
 TVD Reference: KB = 25 @ 3789.0usft (H&P 653)
 MD Reference: KB = 25 @ 3789.0usft (H&P 653)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
14,714.0	92.30	359.70	11,875.7	2,797.1	101.6	0.43	-0.42	0.11	3.0	15.4
14,808.0	90.50	359.80	11,873.5	2,891.1	101.2	1.92	-1.91	0.11	2.1	15.1
14,903.0	91.10	359.40	11,872.1	2,986.1	100.5	0.76	0.63	-0.42	2.1	15.1
14,997.0	91.50	359.80	11,870.0	3,080.1	99.8	0.60	0.43	0.43	1.2	15.0
15,092.0	92.40	359.40	11,866.8	3,175.0	99.2	1.04	0.95	-0.42	-0.7	14.9
15,187.0	93.40	359.90	11,862.0	3,269.9	98.6	1.18	1.05	0.53	-4.2	14.8
15,284.0	91.40	1.20	11,857.9	3,366.8	99.5	2.46	-2.06	1.34	-6.9	13.1
15,378.0	91.10	1.30	11,855.8	3,460.7	101.6	0.34	-0.32	0.11	-7.6	10.3
15,473.0	89.60	1.00	11,855.3	3,555.7	103.5	1.61	-1.58	-0.32	-6.9	7.7
15,568.0	88.70	0.50	11,856.7	3,650.7	104.7	1.08	-0.95	-0.53	-4.1	5.7
15,662.0	88.70	1.20	11,858.8	3,744.7	106.1	0.74	0.00	0.74	-0.7	3.6
15,757.0	89.60	359.40	11,860.2	3,839.7	106.6	2.12	0.95	-1.89	2.0	2.3
15,851.0	90.70	358.60	11,860.0	3,933.6	105.0	1.45	1.17	-0.85	3.1	3.2
15,946.0	92.40	359.10	11,857.4	4,028.6	103.1	1.87	1.79	0.53	1.9	4.4
16,040.0	92.40	358.80	11,853.5	4,122.5	101.3	0.32	0.00	-0.32	-0.8	5.4
16,135.0	92.40	358.80	11,849.5	4,217.4	99.4	0.00	0.00	0.00	-3.4	6.7
16,230.0	92.40	359.00	11,845.5	4,312.3	97.5	0.21	0.00	0.21	-6.1	7.7
16,324.0	89.80	358.50	11,843.7	4,406.2	95.5	2.82	-2.77	-0.53	-6.6	9.1
16,419.0	89.80	359.00	11,844.0	4,501.2	93.4	0.53	0.00	0.53	-4.9	10.4
16,513.0	90.50	359.00	11,843.8	4,595.2	91.8	0.74	0.74	0.00	-3.8	11.3
16,608.0	93.00	359.90	11,840.9	4,690.1	90.9	2.80	2.63	0.95	-5.4	11.5
16,703.0	93.20	0.00	11,835.7	4,785.0	90.8	0.24	0.21	0.11	-9.2	10.8
16,797.0	91.00	359.60	11,832.3	4,878.9	90.5	2.38	-2.34	-0.43	-11.4	10.4
16,892.0	91.50	359.90	11,830.2	4,973.9	90.0	0.61	0.53	0.32	-12.1	10.1
16,987.0	92.30	0.30	11,827.1	5,068.8	90.2	0.94	0.84	0.42	-14.1	9.2
17,081.0	92.70	0.80	11,823.0	5,162.7	91.1	0.68	0.43	0.53	-17.1	7.6
17,176.0	93.20	0.80	11,818.1	5,257.6	92.4	0.53	0.53	0.00	-20.9	5.6



EOG Resources, Inc.

PVA

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Design: OH

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3789.0usft (H&P 653)
MD Reference: KB = 25 @ 3789.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
17,271.0	91.30	1.20	11,814.4	5,352.5	94.1	2.04	-2.00	0.42	-23.6	3.2
17,365.0	91.40	1.40	11,812.1	5,446.5	96.2	0.24	0.11	0.21	-24.7	0.3
17,460.0	89.80	0.20	11,811.2	5,541.5	97.5	2.11	-1.68	-1.26	-24.6	-1.7
17,554.0	89.60	0.20	11,811.6	5,635.4	97.9	0.21	-0.21	0.00	-23.0	-2.8
17,649.0	90.70	358.90	11,811.4	5,730.4	97.1	1.79	1.16	-1.37	-22.2	-2.7
17,744.0	90.80	358.40	11,810.2	5,825.4	94.9	0.54	0.11	-0.53	-22.4	-1.2
17,838.0	92.00	359.10	11,807.9	5,919.4	92.8	1.48	1.28	0.74	-23.6	0.1
17,933.0	91.40	358.30	11,805.0	6,014.3	90.7	1.05	-0.63	-0.84	-25.3	1.5
18,028.0	92.80	359.40	11,801.6	6,109.2	88.8	1.87	1.47	1.16	-27.7	2.7
18,122.0	92.60	359.20	11,797.1	6,203.1	87.6	0.30	-0.21	-0.21	-31.0	3.1
18,217.0	92.60	359.00	11,792.8	6,298.0	86.1	0.21	0.00	-0.21	-34.3	3.9
18,312.0	92.60	359.10	11,788.5	6,392.9	84.6	0.11	0.00	0.11	-37.5	4.8
18,406.0	92.50	359.10	11,784.3	6,486.8	83.1	0.11	-0.11	0.00	-40.6	5.5
18,501.0	92.60	359.20	11,780.1	6,581.7	81.7	0.15	0.11	0.11	-43.7	6.2
18,596.0	93.10	359.50	11,775.4	6,676.5	80.6	0.61	0.53	0.32	-47.4	6.5
18,690.0	90.60	359.20	11,772.3	6,770.5	79.5	2.68	-2.66	-0.32	-49.3	6.9
18,785.0	90.90	359.80	11,771.1	6,865.5	78.7	0.71	0.32	0.63	-49.5	7.0
18,880.0	90.90	359.90	11,769.6	6,960.4	78.5	0.11	0.00	0.11	-49.9	6.5
18,974.0	90.80	359.60	11,768.2	7,054.4	78.1	0.34	-0.11	-0.32	-50.2	6.2
19,069.0	89.70	359.30	11,767.8	7,149.4	77.1	1.20	-1.16	-0.32	-49.5	6.4
19,163.0	91.10	358.70	11,767.1	7,243.4	75.5	1.62	1.49	-0.64	-49.1	7.3
19,258.0	92.50	359.50	11,764.2	7,338.3	74.0	1.70	1.47	0.84	-51.0	8.1
19,315.0	92.90	359.20	11,761.5	7,395.3	73.4	0.88	0.70	-0.53	-69.8	10.9
Last MWD Survey										
19,370.0	92.90	359.20	11,758.7	7,450.2	72.6	0.00	0.00	0.00	-113.9	17.8
Projection To Bit										



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PVA

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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,315.0	11,761.5	7,395.3	73.4	Last MWD Survey
19,370.0	11,758.7	7,450.2	72.6	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____