

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-46906		² Pool Code 98180		³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP	
⁴ Property Code 325949		⁵ Property Name VALIANT 24 FED COM			⁶ Well Number 741H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3440'

¹⁰Surface Location

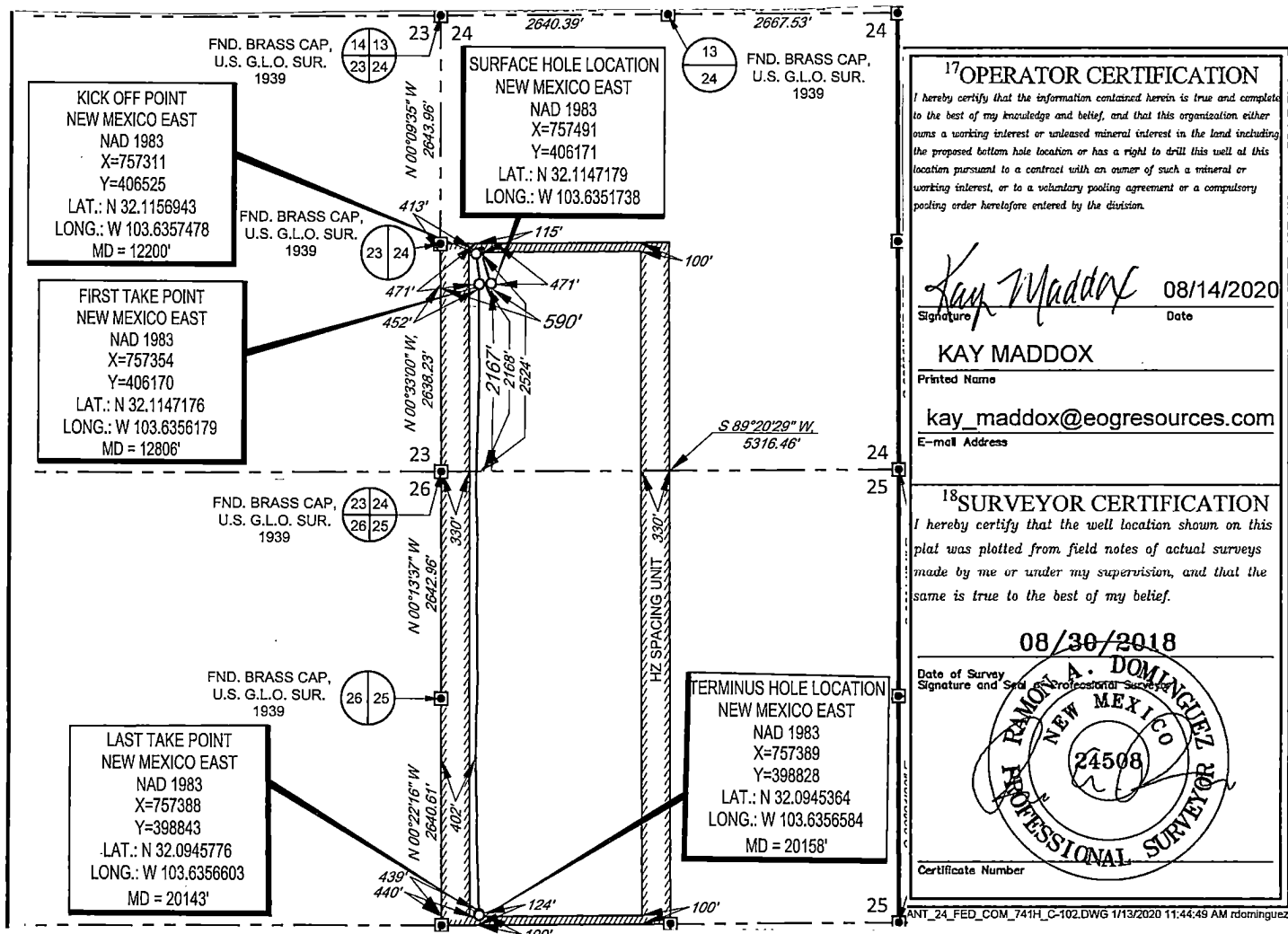
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	24	25-S	32-E	-	2167'	SOUTH	590'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	25	25-S	32-E	-	109'	SOUTH	439'	WEST	LEA

¹² Dedicated Acres 480.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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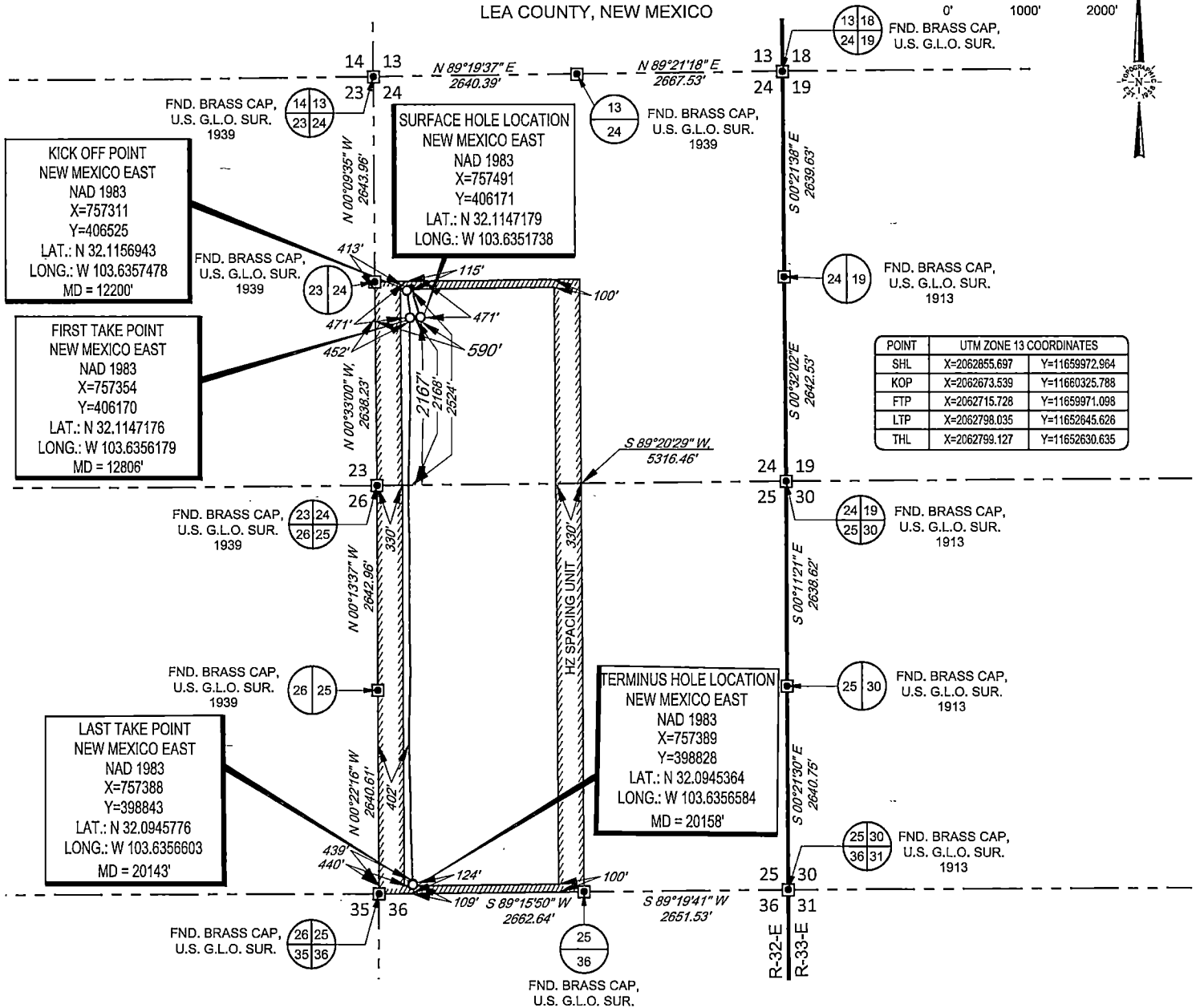
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



SECTION 24, TOWNSHIP 25-S, RANGE 32-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

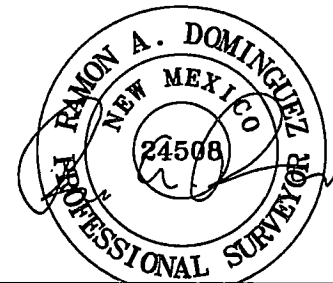
0' 1000' 2000'



LEASE NAME & WELL NO.: VALIANT 24 FED COM #741H
SECTION 24 TWP 25-S RGE 32-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3440'
DESCRIPTION 2167' FSL & 590' FWL



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
JUNE 9, 2020

eo resources, Inc.

VALIANT 24 FED COM #741H AS-COMplete	REVISION:	NOTES:
DATE: 06/09/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
FILE:AD_VALIANT_24_FED_COM_741H		2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
DRAWN BY: H.B.		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.
SHEET: 1 OF 1		4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

Intent ☐ As Drilled ☒

API # 30-025-46906		
Operator Name: EOG RESOURCES, INC	Property Name: VALIANT 24 FEDERAL COM	Well Number 741H

Kick Off Point (KOP)

UL L	Section 24	Township 25S	Range 32E	Lot	Feet 2524	From N/S SOUTH	Feet 413	From E/W WEST	County LEA
Latitude 32.1156943					Longitude 103.6357478			NAD 1983	

First Take Point (FTP)

UL L	Section 24	Township 25S	Range 32E	Lot	Feet 2168	From N/S SOUTH	Feet 452	From E/W WEST	County LEA
Latitude 32.1147176					Longitude 103.6356179			NAD 1983	

Last Take Point (LTP)

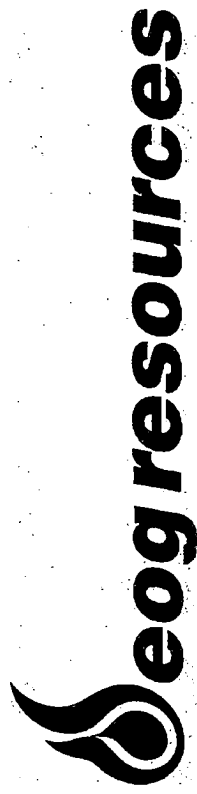
UL M	Section 24	Township 25S	Range 32E	Lot	Feet 124	From N/S SOUTH	Feet 440	From E/W WEST	County LEA
Latitude 32.0945776					Longitude 103.6356603			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-025-46570		
Operator Name: EOG RESOURCES, INC	Property Name: VALIANT 24 FEDERAL COM	Well Number #713H

KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#741H

OH

Design: OH

Midland PVA

13 April, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #741H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3465.0usft
Site:	Valiant 24 Fed Com	MD Reference:	KB = 25 @ 3465.0usft
Well:	#741H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Project	Lea County, NM (NAD 83 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Valiant 24 Fed Com		
Site Position:		Northings:	406,151.00 usft
From:	Map	Easting:	760,107.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 52.620 N
		Longitude:	103° 37' 36.212 W
		Grid Convergence:	0.38 °

Well	#741H		
Well Position	+N/-S	Northings:	406,171.00 usft
	+E/-W	Easting:	757,491.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 52.987 N
		Longitude:	103° 38' 6.626 W
		Ground Level:	3,440.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Dip Angle
	IGRF2015	4/2/2020	(°)
		6.67	59.92
			47,579.69557197

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	Tie On Depth:
		ACTUAL	0.0
Vertical Section:	Depth From (TVD)	+N/-S	Direction
	(usft)	(usft)	(°)
	0.0	0.0	180.87

Survey Program	Date	4/13/2020	
From	To		
(usft)	(usft)	Survey (Wellbore)	Description
		Tool Name	
		EOG MWD+IFR1	MWD + IFR1
197.0	20,158.0	Drilltech (OH)	



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #741H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (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
	197.0	0.44	194.72	197.0	-0.7	-0.2	0.22	0.22	0.00	-0.8	0.0
	315.0	0.35	174.59	315.0	-1.5	-0.3	0.14	-0.08	-17.06	-1.5	-0.4
	402.0	0.53	169.05	402.0	-2.2	-0.2	0.21	0.21	-6.37	-2.1	-0.6
	490.0	0.44	158.86	490.0	-2.9	0.0	0.14	-0.10	-11.58	-2.7	-1.0
	578.0	0.79	170.99	578.0	-3.8	0.2	0.42	0.40	13.78	-3.8	-0.4
	676.0	0.88	165.71	676.0	-5.2	0.5	0.12	0.09	-5.39	-5.2	-0.8
	773.0	1.06	169.49	773.0	-6.8	0.9	0.20	0.19	3.90	-6.9	-0.4
	819.0	0.97	160.53	819.0	-7.6	1.1	0.40	-0.20	-19.48	-7.5	-1.5
	954.0	0.88	145.23	953.9	-9.5	2.1	0.19	-0.07	-11.33	-9.0	-3.7
	1,049.0	1.58	332.97	1,048.9	-9.0	1.9	2.58	0.74	-181.33	9.3	2.5
	1,145.0	5.45	343.69	1,144.7	-3.4	0.0	4.07	4.03	11.17	6.9	0.9
	1,241.0	7.83	339.21	1,240.1	7.1	-3.6	2.54	2.48	-4.67	2.2	1.4
	1,337.0	8.44	339.47	1,335.1	19.8	-8.4	0.64	0.64	0.27	-2.0	1.9
	1,433.0	8.35	340.97	1,430.1	33.0	-13.1	0.25	-0.09	1.56	-6.0	2.4
	1,529.0	9.06	340.70	1,525.0	46.7	-17.9	0.74	0.74	-0.28	-10.5	2.6
	1,625.0	8.97	343.43	1,619.8	61.0	-22.5	0.46	-0.09	2.84	-15.4	3.3
	1,721.0	9.23	342.20	1,714.6	75.5	-27.0	0.34	0.27	-1.28	-20.7	2.9
	1,817.0	8.97	342.81	1,809.4	90.0	-31.6	0.29	-0.27	0.64	-25.8	3.1
	1,913.0	8.88	342.72	1,904.2	104.2	-36.0	0.09	-0.09	-0.09	-30.7	3.0
	2,009.0	8.71	343.07	1,999.1	118.2	-40.3	0.19	-0.18	0.36	-35.4	3.1
	2,105.0	8.88	342.64	2,094.0	132.3	-44.7	0.19	0.18	-0.45	-40.1	2.7
	2,201.0	9.15	342.02	2,188.8	146.6	-49.2	0.30	0.28	-0.65	-45.2	2.3
	2,297.0	9.23	343.07	2,283.5	161.2	-53.8	0.19	0.08	1.09	-50.4	3.1
	2,393.0	9.32	341.14	2,378.3	176.0	-58.6	0.34	0.09	-2.01	-56.0	1.4
	2,489.0	9.15	343.25	2,473.0	190.6	-63.3	0.39	-0.18	2.20	-61.3	3.6
	2,585.0	9.06	343.87	2,567.8	205.2	-67.6	0.14	-0.09	0.65	-66.5	4.1



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #741H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well #741H
KB = 25 @ 3465.0usft
KB = 25 @ 3465.0usft
Grid
Minimum Curvature
EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,681.0	8.97	343.60	2,662.6	219.6	-71.8	0.10	-0.09	-0.28	-71.5	3.5
2,777.0	8.97	346.41	2,757.5	234.1	-75.7	0.46	0.00	2.93	-76.3	6.6
2,873.0	8.97	345.98	2,852.3	248.6	-79.2	0.07	0.00	-0.45	-81.3	5.4
2,969.0	9.32	347.29	2,947.1	263.5	-82.8	0.42	0.36	1.36	-86.4	6.6
3,065.0	9.23	348.26	3,041.8	278.6	-86.0	0.19	-0.09	1.01	-91.8	7.1
3,161.0	9.23	350.11	3,136.6	293.7	-88.9	0.31	0.00	1.93	-97.1	9.0
3,256.0	8.88	351.07	3,230.4	308.5	-91.4	0.40	-0.37	1.01	-102.1	9.2
3,352.0	8.79	350.55	3,325.3	323.0	-93.7	0.13	-0.09	-0.54	-107.0	6.8
3,449.0	6.68	352.74	3,421.4	335.9	-95.7	2.20	-2.18	2.26	-109.7	9.3
3,545.0	6.77	359.86	3,516.7	347.1	-96.4	0.87	0.09	7.42	-109.4	20.4
3,641.0	4.92	355.91	3,612.2	356.9	-96.7	1.97	-1.93	-4.11	-110.5	10.2
3,737.0	4.92	6.01	3,707.9	365.1	-96.5	0.90	0.00	10.52	-106.0	26.0
3,833.0	3.61	336.83	3,803.6	372.0	-97.3	2.60	-1.36	-30.40	-101.9	-29.8
3,929.0	3.43	318.82	3,899.4	376.9	-100.4	1.16	-0.19	-18.76	-84.3	-56.6
4,026.0	3.34	322.07	3,996.2	381.3	-104.0	0.22	-0.09	3.35	-83.6	-48.1
4,121.0	2.81	325.67	4,091.1	385.4	-107.1	0.59	-0.56	3.79	-82.0	-39.8
4,217.0	1.32	342.11	4,187.0	388.4	-108.7	1.65	-1.55	17.12	-83.2	-14.3
4,313.0	1.14	348.44	4,283.0	390.4	-109.2	0.23	-0.19	6.59	-76.3	-6.0
4,409.0	0.62	357.40	4,379.0	391.9	-109.5	0.56	-0.54	9.33	-68.1	3.4
4,506.0	0.62	95.14	4,476.0	392.3	-109.0	0.96	0.00	100.76	8.1	58.1
4,601.0	1.41	94.70	4,571.0	392.2	-107.3	0.83	0.83	-0.46	2.2	49.0
4,697.0	1.23	54.35	4,667.0	392.7	-105.3	0.96	-0.19	-42.03	-28.8	28.5
4,793.0	1.06	48.55	4,763.0	393.9	-103.8	0.21	-0.18	-6.04	-29.4	16.1
4,888.0	1.23	35.81	4,857.9	395.3	-102.5	0.32	0.18	-13.41	-28.1	1.1
4,984.0	1.32	39.06	4,953.9	397.0	-101.2	0.12	0.09	3.39	-24.6	-5.6
5,081.0	1.23	38.89	5,050.9	398.7	-99.9	0.09	-0.09	-0.18	-21.2	-14.1
5,175.0	1.14	42.58	5,144.9	400.1	-98.6	0.13	-0.10	3.93	-19.1	-21.2



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Vallant 24 Fed Com
Well: #741H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EMW (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	5,272.0	1.06	50.31	5,241.8	401.4	-97.2	0.17	-0.08	7.97	-20.1	-27.1
	5,368.0	0.79	48.03	5,337.8	402.4	-96.1	0.28	-0.28	-2.37	-17.8	-33.8
	5,464.0	0.62	24.56	5,433.8	403.3	-95.4	0.35	-0.18	-24.45	-1.7	-40.5
	5,559.0	0.53	22.19	5,528.8	404.2	-95.0	0.10	-0.09	-2.49	-0.7	-40.8
	5,655.0	0.70	358.81	5,624.8	405.2	-94.8	0.31	0.18	-24.35	14.6	-37.9
	5,751.0	0.70	359.86	5,720.8	406.4	-94.8	0.01	0.00	1.09	12.7	-38.1
	5,847.0	0.79	342.64	5,816.8	407.6	-95.0	0.25	0.09	-17.94	22.2	-32.8
	5,944.0	0.62	342.11	5,913.8	408.7	-95.4	0.18	-0.18	-0.55	21.3	-32.6
	6,040.0	0.79	352.30	6,009.8	409.9	-95.7	0.22	0.18	10.61	14.0	-35.8
	6,135.0	0.97	344.13	6,104.8	411.3	-96.0	0.23	0.19	-8.60	17.5	-33.5
	6,230.0	0.79	339.21	6,199.8	412.7	-96.4	0.21	-0.19	-5.18	18.9	-32.0
	6,326.0	0.88	331.21	6,295.8	414.0	-97.0	0.15	0.09	-8.33	21.7	-29.1
	6,422.0	0.79	329.63	6,391.7	415.2	-97.7	0.10	-0.09	-1.65	21.1	-28.5
	6,518.0	0.79	327.78	6,487.7	416.3	-98.4	0.03	0.00	-1.93	20.7	-27.9
	6,614.0	0.79	313.98	6,583.7	417.3	-99.2	0.20	0.00	-14.37	25.5	-22.3
	6,711.0	0.79	306.78	6,680.7	418.2	-100.2	0.10	0.00	-7.42	26.7	-19.0
	6,807.0	1.06	287.35	6,776.7	418.9	-101.6	0.43	0.28	-20.24	30.0	-9.2
	6,903.0	1.14	290.60	6,872.7	419.5	-103.3	0.11	0.08	3.39	27.6	-10.9
	6,999.0	1.14	288.23	6,968.7	420.1	-105.1	0.05	0.00	-2.47	26.1	-9.8
	7,095.0	1.32	293.77	7,064.6	420.8	-107.1	0.22	0.19	5.77	23.0	-12.1
	7,191.0	1.32	285.07	7,160.6	421.6	-109.1	0.21	0.00	-9.06	22.4	-8.7
	7,288.0	1.14	274.70	7,257.6	421.9	-111.2	0.29	-0.19	-10.69	21.5	-4.7
	7,373.9	1.30	265.44	7,343.4	421.9	-113.0	0.29	0.19	-10.78	20.2	-1.3
Brusly Top (VAL 24 FC #741H)											
	7,384.0	1.32	264.50	7,353.6	421.9	-113.2	0.29	0.20	-9.27	20.0	-1.0
	7,480.0	1.41	262.39	7,449.5	421.7	-115.5	0.11	0.09	-2.20	17.7	-0.3
	7,576.0	1.32	250.97	7,545.5	421.1	-117.7	0.30	-0.09	-11.90	15.1	3.0



EOG Resources Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Valiant 24 Fed Com
Well: #741H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,672.0	1.14	254.57	7,641.5	420.5	-119.7	0.20	-0.19	3.75	13.2	2.1
7,768.0	1.41	252.28	7,737.5	419.9	-121.7	0.29	0.28	-2.39	11.0	2.6
7,864.0	1.41	252.37	7,833.4	419.2	-124.0	0.00	0.00	0.09	8.6	2.5
7,961.0	1.58	251.93	7,930.4	418.4	-126.4	0.18	0.18	-0.45	6.1	2.6
8,057.0	1.58	256.68	8,026.4	417.7	-128.9	0.14	0.00	4.95	3.7	2.2
8,153.0	1.58	254.92	8,122.3	417.1	-131.5	0.05	0.00	-1.83	0.9	2.3
8,249.0	1.85	255.98	8,218.3	416.3	-134.3	0.28	0.28	1.10	-1.9	2.3
8,346.0	1.93	257.65	8,315.2	415.6	-137.4	0.10	0.08	1.72	-5.0	2.4
8,441.0	1.85	254.31	8,410.2	414.8	-140.4	0.14	-0.08	-3.52	-8.3	2.0
8,506.0	2.02	252.72	8,475.2	414.2	-142.5	0.27	0.26	-2.45	-10.5	1.7
8,634.0	2.20	245.25	8,603.1	412.5	-146.9	0.26	0.14	-5.84	-15.4	0.0
8,730.0	2.11	241.21	8,699.0	410.9	-150.2	0.18	-0.09	-4.21	-18.9	-1.2
8,826.0	2.11	236.73	8,794.9	409.1	-153.2	0.17	0.00	-4.67	-22.3	-2.8
8,922.0	2.11	239.10	8,890.9	407.2	-156.2	0.09	0.00	2.47	-25.9	-1.8
9,018.0	2.29	243.76	8,986.8	405.4	-159.4	0.26	0.19	4.85	-29.7	0.5
9,114.0	0.79	260.11	9,082.8	404.5	-161.8	1.61	-1.56	17.03	-30.8	9.4
9,211.0	0.79	27.20	9,179.8	405.0	-162.1	1.46	0.00	131.02	25.8	19.5
9,307.0	0.88	15.86	9,275.7	406.3	-161.6	0.20	0.09	-11.81	20.1	24.1
9,402.0	0.79	339.47	9,370.7	407.6	-161.7	0.56	-0.09	-38.31	0.6	30.8
9,498.0	0.70	304.84	9,466.7	408.5	-162.4	0.47	-0.09	-36.07	-18.1	25.4
9,594.0	1.14	235.76	9,562.7	408.3	-163.6	1.15	0.46	-71.96	-31.3	-8.4
9,690.0	1.32	236.99	9,658.7	407.2	-165.4	0.19	0.19	1.28	-33.6	-7.7
9,786.0	1.06	210.62	9,754.7	405.8	-166.7	0.62	-0.27	-27.47	-28.5	-22.3
9,882.0	1.06	156.31	9,850.7	404.2	-166.8	1.01	0.00	-56.57	0.1	-36.9
9,979.0	0.88	163.34	9,947.7	402.7	-166.3	0.22	-0.19	7.25	-6.1	-36.5
10,075.0	0.79	133.54	10,043.6	401.6	-165.6	0.46	-0.09	-31.04	11.6	-35.1
10,171.0	1.23	111.83	10,139.6	400.7	-164.1	0.60	0.46	-22.61	22.1	-28.6



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
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Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3465.0usft
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Survey Calculation Method: Minimum Curvature
Database: EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,267.0	1.76	117.28	10,235.6	399.7	-161.9	0.57	0.55	5.68	16.8	-30.4
10,363.0	1.49	148.92	10,331.6	397.9	-159.9	0.96	-0.28	32.96	-4.2	-33.9
10,459.0	2.20	133.72	10,427.5	395.6	-157.9	0.89	0.74	-15.83	1.8	-34.2
10,555.0	1.85	147.96	10,523.4	393.0	-155.8	0.64	-0.36	14.83	-10.0	-33.1
10,651.0	1.23	166.77	10,619.4	390.7	-154.7	0.83	-0.65	19.59	-22.6	-27.6
10,747.0	1.58	157.19	10,715.4	388.4	-154.0	0.44	0.36	-9.98	-20.0	-31.2
10,843.0	2.29	174.50	10,811.3	385.3	-153.3	0.95	0.74	18.03	-31.6	-23.4
10,940.0	0.82	244.37	10,908.3	383.2	-153.6	2.22	-1.72	72.03	-34.0	23.4
11,036.0	1.06	237.25	11,004.3	382.4	-154.8	0.47	0.46	-7.42	-38.1	19.0
11,131.0	1.41	228.73	11,099.3	381.2	-156.4	0.42	0.37	-8.97	-42.5	13.0
11,227.0	2.90	219.41	11,195.2	378.5	-158.8	1.59	1.55	-9.71	-47.7	5.7
11,323.0	2.37	220.64	11,291.1	375.2	-161.7	0.56	-0.55	1.28	-51.9	6.8
11,419.0	2.90	234.09	11,387.0	372.2	-164.9	0.84	0.55	14.01	-53.3	19.2
11,492.0	2.99	236.73	11,459.9	370.1	-168.0	0.22	0.12	3.62	-56.1	21.7
11,529.8	2.94	234.33	11,497.6	369.0	-169.6	0.35	-0.13	-6.36	-58.9	19.3
FTP Crossing, MD:11529.8', TVD:11497.6', N/S:369.0', EW:-169.6', INC:2.94										
11,567.0	2.90	231.89	11,534.8	367.9	-171.1	0.35	-0.11	-6.55	-61.6	16.7
11,663.0	2.20	228.11	11,630.7	365.1	-174.4	0.75	-0.73	-3.94	-66.8	12.5
11,759.0	1.76	228.82	11,726.6	362.9	-176.9	0.46	-0.46	0.74	-70.0	13.3
11,855.0	2.64	211.24	11,822.6	360.1	-179.2	1.14	0.92	-18.31	-74.3	-8.9
11,990.0	0.82	199.73	11,957.5	356.7	-181.0	1.51	-1.50	-8.53	-74.8	-24.2
12,040.0	0.26	65.43	12,007.5	356.5	-181.0	1.65	-0.72	-288.60	69.6	-36.9
12,136.0	0.26	143.91	12,103.5	356.4	-180.7	0.34	0.00	81.75	-22.5	-75.4
12,200.0	4.19	165.45	12,167.5	354.1	-180.0	6.17	6.14	33.65	-51.0	-61.9
KOP, MD:12200.0', TVD:12167.5', N/S:354.1', EW:-180.0', INC:4.19										
12,232.0	6.16	165.89	12,199.3	351.3	-179.3	6.17	6.17	1.39	-54.2	-61.4
12,328.0	20.84	167.29	12,292.4	328.5	-174.3	15.29	15.29	1.46	-65.4	-55.5



EOG Resources
Midland PVA

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MD (usft)	Inc (°)	Azt (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	D Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,423.0	30.34	171.78	12,378.0	289.2	-167.1	10.20	10.00	4.73	-76.7	-40.9
12,519.0	42.74	172.83	12,455.0	232.6	-159.5	12.93	12.92	1.09	-80.1	-27.5
12,559.7	47.02	172.42	12,483.8	204.2	-155.8	10.55	10.53	-1.00	-80.1	-21.7
FTP(VAL 24 FC #741H)										
12,615.0	52.85	171.95	12,519.4	162.2	-150.1	10.55	10.53	-0.85	-78.3	-12.3
12,711.0	59.71	174.91	12,572.7	83.0	-141.0	7.59	7.15	3.08	-67.5	5.7
12,806.0	62.87	180.10	12,618.3	-0.2	-137.5	5.83	3.33	5.46	-42.5	17.2
12,853.0	69.73	183.09	12,637.2	-43.2	-138.7	15.71	14.60	6.36	-27.1	18.4
12,951.0	87.67	180.27	12,656.3	-138.9	-141.4	18.52	18.31	-2.88	-9.3	17.9
12,998.0	88.99	181.86	12,657.7	-185.9	-142.3	4.40	2.81	3.38	-8.4	16.9
13,094.0	85.30	179.66	12,662.5	-281.7	-143.6	4.47	-3.84	-2.29	-4.4	15.0
13,191.0	89.43	178.83	12,666.9	-378.6	-143.1	4.26	4.26	0.18	-0.7	14.8
13,287.0	89.69	180.45	12,667.7	-474.6	-143.4	0.70	0.27	0.65	-0.8	13.9
13,383.0	89.08	180.27	12,668.7	-570.6	-144.0	0.66	-0.64	-0.19	-0.6	12.7
13,479.0	88.81	179.13	12,670.5	-666.5	-143.5	1.22	-0.28	-1.19	0.4	12.5
13,575.0	87.41	177.29	12,673.6	-762.4	-140.5	2.41	-1.46	-1.92	2.7	14.9
13,671.0	89.08	179.22	12,676.6	-858.3	-137.6	2.66	1.74	2.01	4.8	17.2
13,767.0	89.78	179.04	12,677.5	-954.3	-136.1	0.75	0.73	-0.19	5.0	18.0
13,863.0	91.19	180.10	12,676.7	-1,050.3	-135.4	1.84	1.47	1.10	3.4	18.1
13,959.0	90.22	180.98	12,675.5	-1,146.3	-136.3	1.36	-1.01	0.92	1.4	16.6
14,056.0	92.86	183.35	12,672.9	-1,243.2	-139.9	3.66	2.72	2.44	-2.1	12.2
14,151.0	88.81	181.50	12,671.5	-1,338.1	-144.0	4.69	-4.26	-1.95	-4.2	7.6
14,276.0	88.37	180.80	12,674.6	-1,463.0	-146.5	0.66	-0.35	-0.56	-2.2	4.3
14,343.0	88.55	180.71	12,676.4	-1,530.0	-147.4	0.30	0.27	-0.13	-1.0	2.9
14,439.0	89.16	180.62	12,678.3	-1,625.9	-148.5	0.64	0.64	-0.09	0.1	1.2
14,535.0	90.31	181.15	12,678.8	-1,721.9	-150.0	1.32	1.20	0.55	-0.2	-0.9
14,631.0	90.75	181.42	12,677.9	-1,817.9	-152.1	0.54	0.46	0.28	-1.9	-3.7



EOG Resources Midland PVA

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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,727.0	91.89	182.91	12,675.7	-1,913.8	-155.7	1.95	1.19	1.55	-4.9	-8.0
14,824.0	90.31	181.24	12,673.8	-2,010.7	-159.2	2.37	-1.63	-1.72	-7.6	-12.1
14,919.0	90.13	180.71	12,673.5	-2,105.7	-160.9	0.59	-0.19	-0.56	-8.8	-14.4
15,015.0	88.72	179.92	12,674.4	-2,201.7	-161.4	1.68	-1.47	-0.82	-8.6	-15.5
15,110.0	89.92	180.71	12,675.9	-2,296.7	-161.9	1.18	0.84	0.83	-8.0	-16.7
15,206.0	88.20	178.95	12,677.8	-2,392.7	-161.6	2.29	-1.37	-1.83	-6.9	-17.0
15,302.0	88.20	178.60	12,680.8	-2,488.6	-159.6	0.36	0.00	-0.36	-4.7	-15.6
15,398.0	88.02	178.43	12,684.0	-2,584.5	-157.1	0.26	-0.19	-0.18	-2.3	-13.8
15,494.0	87.67	176.85	12,687.6	-2,680.3	-153.1	1.68	-0.36	-1.65	0.5	-10.5
15,590.0	88.11	176.93	12,691.1	-2,776.1	-147.9	0.47	0.46	0.08	3.2	-5.9
15,686.0	91.71	180.10	12,691.3	-2,872.1	-145.4	5.00	3.75	3.30	2.5	-4.0
15,782.0	91.54	180.54	12,688.5	-2,968.0	-146.0	0.49	-0.18	0.46	-1.0	-5.2
15,878.0	91.80	179.92	12,685.8	-3,064.0	-146.4	0.70	0.27	-0.65	-4.6	-6.2
15,974.0	91.01	181.24	12,683.4	-3,160.0	-147.3	1.60	-0.82	1.37	-7.8	-7.8
16,076.0	91.19	180.89	12,681.4	-3,261.9	-149.2	0.39	0.18	-0.34	-10.6	-10.4
16,172.0	89.69	180.36	12,680.7	-3,357.9	-150.3	1.66	-1.56	-0.55	-12.1	-12.1
16,192.4	89.60	180.34	12,680.8	-3,378.3	-150.4	0.47	-0.46	-0.08	-12.2	-12.4
TGT#1(VAL 24 FC #741H)										
16,268.0	89.25	180.28	12,681.6	-3,453.9	-150.8	0.47	-0.46	-0.08	-11.9	-13.3
16,364.0	88.90	180.02	12,683.1	-3,549.9	-151.1	0.45	-0.36	-0.27	-11.0	-14.1
16,460.0	87.32	178.96	12,686.3	-3,645.8	-150.2	1.98	-1.65	-1.10	-8.5	-13.9
16,556.0	87.49	178.87	12,690.7	-3,741.7	-148.4	0.20	0.18	-0.09	-4.8	-12.7
16,652.0	86.26	179.49	12,695.9	-3,837.6	-147.0	1.43	-1.28	0.65	-0.2	-12.0
16,748.0	90.04	179.84	12,699.0	-3,933.5	-146.5	3.95	3.94	0.36	2.2	-12.1
16,844.0	91.45	180.10	12,697.7	-4,029.5	-146.4	1.49	1.47	0.27	0.3	-12.6
16,940.0	89.87	178.87	12,696.6	-4,125.5	-145.5	2.09	-1.65	-1.28	-1.5	-12.4
17,036.0	91.01	179.93	12,695.9	-4,221.5	-144.5	1.62	1.19	1.10	-2.8	-12.0



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17,132.0	91.54	179.49	12,693.8	-4,317.4	-144.1	0.72	0.55	-0.46	-5.6	-12.2
17,228.0	88.72	177.64	12,693.5	-4,413.4	-141.7	3.51	-2.94	-1.93	-6.5	-10.4
17,324.0	85.47	177.47	12,698.4	-4,509.2	-137.6	3.39	-3.39	-0.18	-2.3	-7.0
17,420.0	91.45	180.81	12,701.0	-4,605.1	-136.1	7.13	6.23	3.48	-0.4	-6.1
17,474.0	92.86	181.69	12,699.0	-4,659.0	-137.3	3.08	2.61	1.63	-2.7	-7.7
17,517.0	93.12	181.77	12,696.7	-4,701.9	-138.6	0.63	0.60	0.19	-5.3	-9.3
17,612.0	91.19	180.72	12,693.1	-4,796.8	-140.7	2.31	-2.03	-1.11	-9.5	-11.9
17,663.2	91.56	181.09	12,691.9	-4,848.1	-141.5	1.02	0.72	0.72	-11.1	-13.1
TGT#2(VAL 24 FC #741H)										
17,709.0	91.89	181.42	12,690.5	-4,893.8	-142.5	1.02	0.72	0.72	-12.8	-14.4
17,805.0	88.11	182.92	12,690.5	-4,989.7	-146.1	4.24	-3.94	1.56	-13.4	-18.6
17,901.0	86.61	180.46	12,695.0	-5,085.5	-148.9	3.00	-1.56	-2.56	-9.6	-22.1
17,997.0	87.93	181.07	12,699.5	-5,181.4	-150.2	1.51	1.37	0.64	-5.6	-24.0
18,093.0	88.99	180.81	12,702.1	-5,277.4	-151.8	1.14	1.10	-0.27	-3.7	-26.2
18,189.0	90.13	179.67	12,702.8	-5,373.4	-152.2	1.68	1.19	-1.19	-3.5	-27.3
18,285.0	89.69	179.93	12,703.0	-5,469.4	-151.9	0.53	-0.46	0.27	-4.0	-27.6
18,381.0	89.60	179.93	12,703.6	-5,565.4	-151.7	0.09	-0.09	0.00	-4.0	-28.1
18,477.0	91.45	178.79	12,702.7	-5,661.3	-150.7	2.26	1.93	-1.19	-5.5	-27.6
18,582.0	91.63	179.23	12,699.9	-5,766.3	-148.9	0.45	0.17	0.42	-9.0	-26.5
18,669.0	88.64	178.00	12,699.7	-5,853.3	-146.8	3.72	-3.44	-1.41	-9.8	-25.0
18,765.0	87.67	177.84	12,702.8	-5,949.1	-143.1	1.08	-1.01	-0.37	-7.3	-22.0
18,861.0	87.67	178.08	12,706.7	-6,045.0	-139.5	0.46	0.00	0.46	-4.0	-19.0
18,957.0	87.58	178.96	12,710.7	-6,140.9	-137.0	0.92	-0.09	0.92	-0.6	-17.2
19,053.0	88.84	179.84	12,713.8	-6,236.8	-136.0	1.43	1.10	0.92	1.9	-16.8
19,149.0	91.98	180.54	12,713.3	-6,332.8	-136.4	3.55	3.48	0.73	0.8	-17.7
19,245.0	89.69	177.91	12,711.9	-6,428.8	-135.1	3.63	-2.39	-2.74	-1.2	-17.1
19,341.0	90.84	178.26	12,711.5	-6,524.7	-131.9	1.25	1.20	0.36	-2.3	-14.5



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19,437.0	90.75	178.87	12,710.1	-6,620.7	-129.4	0.64	-0.09	0.64	-4.2	-12.7
19,533.0	88.46	177.47	12,710.8	-6,716.6	-126.4	2.80	-2.39	-1.46	-4.2	-10.3
19,629.0	88.81	177.82	12,713.1	-6,812.5	-122.4	0.52	0.36	0.36	-2.5	-7.0
19,725.0	90.57	178.26	12,713.6	-6,908.4	-119.2	1.89	1.83	0.46	-2.6	-4.3
19,822.0	91.54	178.61	12,711.8	-7,005.4	-116.5	1.06	1.00	0.36	-5.0	-2.3
19,958.0	89.43	177.38	12,710.7	-7,141.3	-111.8	1.80	-1.55	-0.90	-7.1	1.6
Last MWD Survey (MD=19958.0')										
20,158.0	89.43	177.38	12,712.6	-7,341.1	-102.6	0.00	0.00	0.00	-6.4	9.4
Projection to Bit (MD=20158.0') - PBHL (VAL 24 FC #741H)										

Design Annotations		Local Coordinates		Comment
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	
11,529.8	11,497.6	369.0	-169.6	FTP Crossing, MD:11529.8', TVD:11497.6', N/S:369.0', E/W:-169.6', INC:2.94
12,200.0	12,167.5	354.1	-180.0	KOP, MD:12200.0', TVD:12167.5', N/S:354.1', E/W:-180.0', INC:4.19
19,958.0	12,710.7	-7,141.3	-111.8	Last MWD Survey (MD=19958.0')
20,158.0	12,712.6	-7,341.1	-102.6	Projection to Bit (MD=20158.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Valiant 24 Fed Com

#741H

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



Azimuths to Grid North
True North: -0.37°
Magnetic North: 8.30°

Magnetic Field
Strength: 47679.7nT
Dip Angle: 69.92°
Date: 4/2/2020
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.30°
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #741H

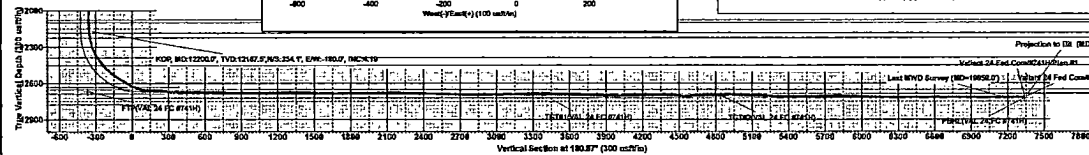
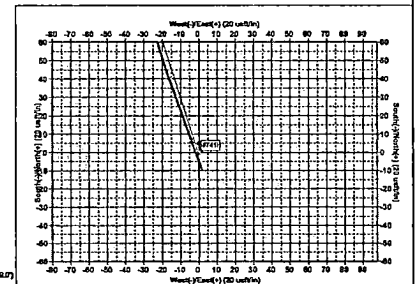
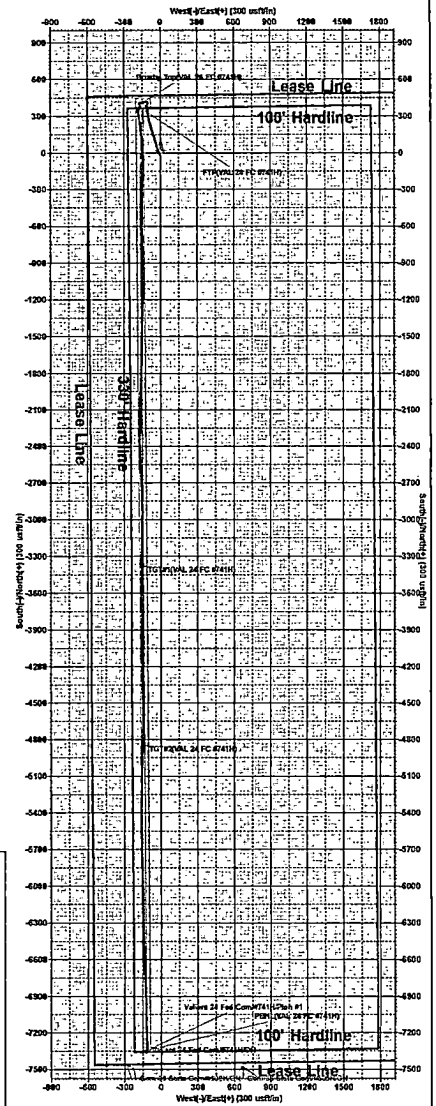
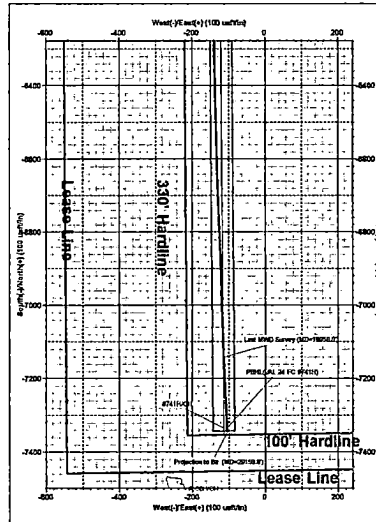
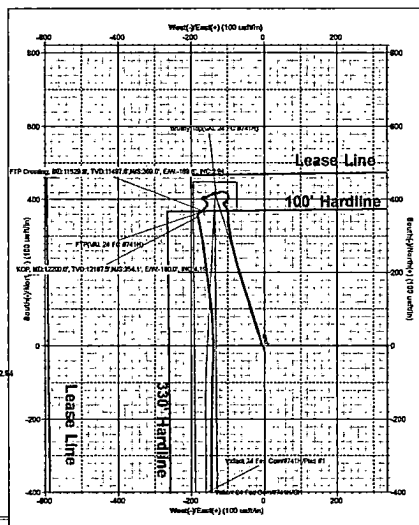
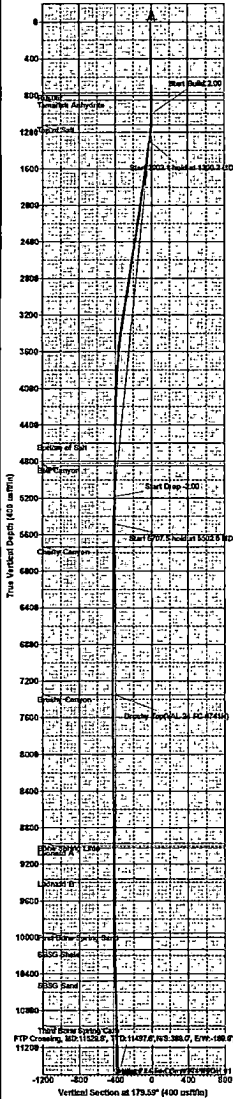
3443.0
KB = 25 @ 3465.0 surf
Northing 406171.00 Easting 757451.00 32° 6' 52.987" N 103° 36' 5.526" W Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.0	0.00	0.0	
3	1300.2	6.00	342.39	1299.7	15.0	-4.8	2.00	342.39	-14.9	
4	5202.3	6.00	342.39	5180.3	404.0	-128.2	0.00	0.00	-402.0	
5	5502.5	0.00	0.00	5480.0	419.0	-133.0	2.00	180.00	-416.9	
6	12210.0	0.00	0.00	12187.5	419.0	-133.0	0.00	0.00	-416.9	
7	12956.0	89.52	182.90	12684.9	-53.9	-157.0	12.00	182.90	56.2	
8	13055.3	89.52	179.62	12665.9	-163.1	-159.4	3.00	-90.07	185.5	
9	16280.7	89.52	179.62	12693.0	-3378.3	-138.0	0.00	0.00	3380.0	TGT#1(VAL 24 FC #741H)
10	16285.4	89.51	179.62	12693.0	-3383.0	-138.0	2.00	1.99	3384.7	
11	17751.0	89.51	179.62	12703.0	-4848.6	-128.4	0.00	0.00	4850.0	TGT#2(VAL 24 FC #741H)
12	17752.1	89.63	179.62	12703.0	-4849.7	-128.4	2.00	-0.01	4851.1	
13	20244.5	89.63	179.62	12719.0	-7342.0	-112.0	0.00	0.00	7342.9	PBHL(VAL 24 FC #741H)

WELLBORE TARGET DETAILS (NAD COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(VAL 24 FC #741H)	7343.0	419.0	-133.0	406390.00	757355.00	Polygon
FTF(VAL 24 FC #741H)	12655.0	365.0	-163.0	406540.00	757328.00	Point
TGT#1(VAL 24 FC #741H)	12693.0	-3378.3	-138.0	407782.70	757352.85	Point
TGT#2(VAL 24 FC #741H)	12703.0	-4848.6	-128.4	401322.40	757352.62	Point
PBHL(VAL 24 FC #741H)	12719.0	-7342.0	-112.0	389623.00	757379.00	Rectangle (Sides: L0.0 W60.0)



Lea County, NM (NAD 83 NME)