

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: (575) 748-1283 Fax: (575) 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 30-025-46338	² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPR WOLFCAMP KZ
⁴ Property Code 321651	⁵ Property Name SAVAGE 2 STATE COM	⁶ Well Number 721H
⁷ GRID No.	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3520'

¹⁰Surface Location

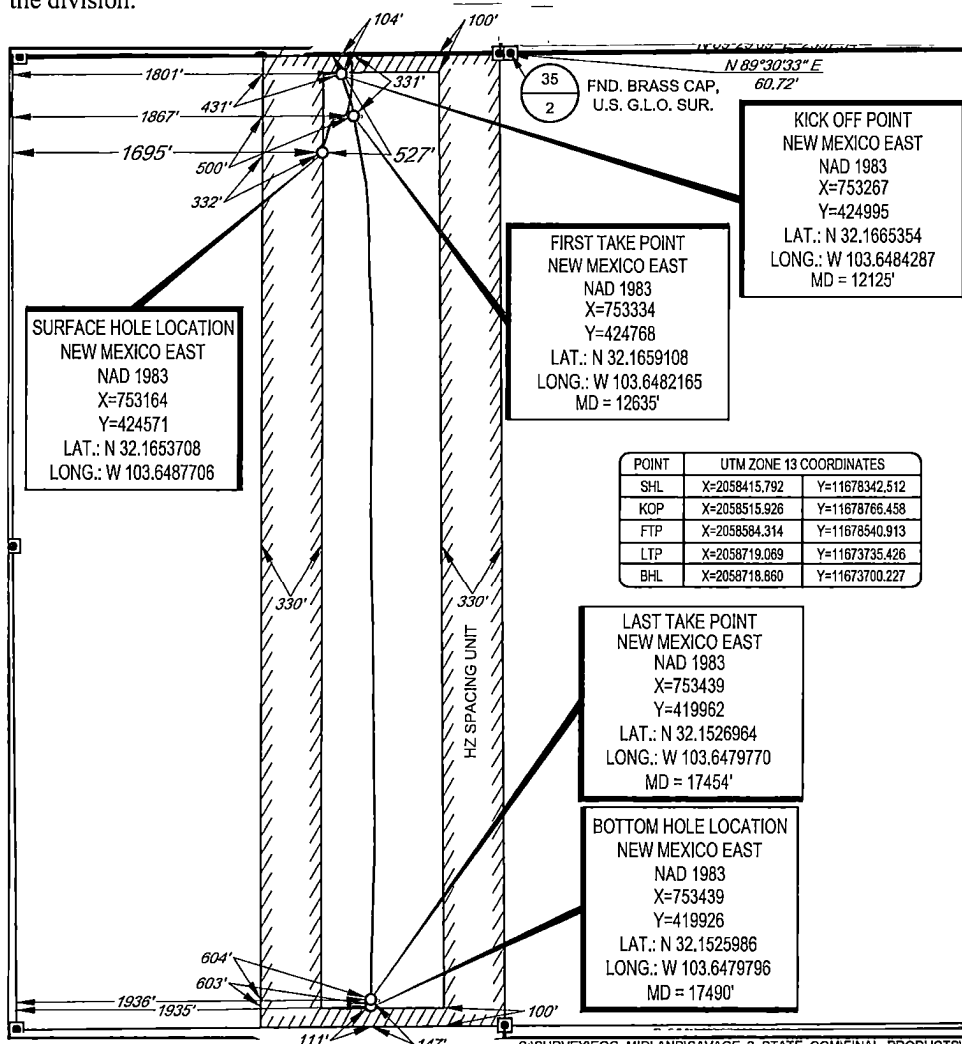
UL or lot no. C	Section 2	Township 25-S	Range 32-E	Lot Idn -	Feet from the 527'	North/South line NORTH	Feet from the 1695'	East/West line WEST	County LEA
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¹¹Bottom Hole Location If Different From Surface

UL or lot no. N	Section 2	Township 25-S	Range 32-E	Lot Idn -	Feet from the 111'	North/South line SOUTH	Feet from the 1935'	East/West line WEST	County LEA
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¹² Dedicated Acres 160.19	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. SL
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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.

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 07/20/2020
Signature Date

KAY MADDOX

Printed Name

kay_maddox@eogresources.com

E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

01/16/2019

Date of Survey
Signature and Seal of Professional Surveyor

Professional Surveyor
24508
Certificate Number

Intent ☐ As Drilled ☒

API # 30-025-46338		
Operator Name: EOG RESOURCES, INC	Property Name: SAVAGE 2 STATE COM	Well Number 721H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	2	25S	32E		104	NORTH	1801	WEST	LEA
Latitude 32.1665354					Longitude 103.6484287				NAD 1983

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	2	25S	32E		331	NORTH	1867	WEST	LEA
Latitude 32.1659108					Longitude 103.6482165				NAD 1983

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	2	25S	32E		147	SOUTH	1936	WEST	LEA
Latitude 32.1526964					Longitude 103.6479770				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 #		
Operator Name: EOG RESOURCES, INC	Property Name:	Well Number

KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#721H

OH

Design: OH

Midland PVA

30 October, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #721H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22 @ 3542.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 22 @ 3542.0usft
Well:	#721H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	Savage 2 State Com	Northing:	424,469.00 usft	Latitude:	32° 9' 54.412 N
Site Position:		Easting:	751,845.00 usft	Longitude:	103° 39' 10.929 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well	#721H	Northing:	424,571.00 usft	Latitude:	32° 9' 55.339 N
Well Position	+N/-S	Easting:	753,164.00 usft	Longitude:	103° 38' 55.577 W
Position Uncertainty	+E/-W	Wellhead Elevation:	usft	Ground Level:	3,520.0 usft

Wellbore	OH	Declination	(°)	Dip Angle	(°)	Field Strength	(nT)
Magnetics							
	IGRF2015		6.74		59.97		47,662.65329241
		Sample Date	9/19/2019				

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	176.37		

Survey Program	Date	10/30/2019	Tool Name	Description
From	(usft)	Survey (Wellbore)	MWD	OWSG MWD - Standard
184.0	17,490.0	Total MWD (OH)		



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #721H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #721H
 TVD Reference: KB = 22 @ 3542.0usft
 MD Reference: KB = 22 @ 3542.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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
	184.0	1.00	50.20	184.0	1.0	1.2	0.54	0.54	0.00	-1.6	0.0
	340.0	0.80	249.20	340.0	1.5	1.3	1.14	-0.13	-103.21	1.7	-1.0
	530.0	1.30	341.80	530.0	3.1	-0.7	0.82	0.26	48.74	-3.1	-0.3
	720.0	1.00	5.80	719.9	6.8	-1.2	0.30	-0.16	12.63	-6.6	1.8
	911.0	1.40	250.30	910.9	7.7	-3.2	1.07	0.21	-60.47	-0.4	-8.3
	964.0	1.60	250.20	963.9	7.2	-4.5	0.38	0.38	-0.19	-1.8	-8.3
	1,087.0	2.90	253.40	1,086.8	5.7	-9.1	1.06	1.06	2.60	-7.1	-8.1
	1,278.0	0.30	228.40	1,277.7	4.0	-14.1	1.38	-1.36	-13.09	-7.9	-12.4
	1,468.0	0.40	230.10	1,467.7	3.2	-15.0	0.05	0.05	0.89	-9.4	-12.1
	1,659.0	0.30	254.20	1,658.7	2.7	-16.0	0.09	-0.05	12.62	-14.6	-6.9
	1,850.0	0.30	288.90	1,849.7	2.7	-16.9	0.09	0.00	18.17	-16.9	2.9
	2,040.0	0.10	336.20	2,039.7	3.0	-17.5	0.13	-0.11	24.89	-9.8	14.8
	2,230.0	0.10	184.60	2,229.7	3.0	-17.5	0.10	0.00	-79.79	1.6	-17.7
	2,421.0	3.60	34.20	2,420.6	7.8	-14.2	1.93	1.83	-78.74	1.5	16.1
	2,611.0	4.40	33.00	2,610.1	18.9	-6.9	0.42	0.42	-0.63	-10.0	15.5
	2,802.0	6.40	30.70	2,800.2	34.2	2.6	1.05	1.05	-1.20	-15.2	12.0
	2,993.0	6.70	20.50	2,990.0	53.7	11.9	0.63	0.16	-5.34	-15.8	6.6
	3,183.0	6.60	16.50	3,178.7	74.6	18.9	0.25	-0.05	-2.11	-15.0	5.8
	3,374.0	5.70	14.90	3,368.6	94.3	24.4	0.48	-0.47	-0.84	-12.4	6.7
	3,564.0	7.90	18.70	3,557.3	115.8	31.1	1.18	1.16	2.00	-11.3	8.2
	3,755.0	8.20	25.90	3,746.4	140.5	41.2	0.55	0.16	3.77	-13.7	8.4
	3,945.0	5.90	27.20	3,934.9	161.3	51.6	1.21	-1.21	0.68	-13.9	5.7
	4,136.0	4.70	52.20	4,125.2	174.9	62.3	1.35	-0.63	13.09	-7.5	2.4
	4,327.0	4.00	64.90	4,315.6	182.5	74.5	0.62	-0.37	6.65	-4.8	-11.0
	4,517.0	5.60	101.70	4,505.0	183.4	89.6	1.78	0.84	19.37	-22.0	-25.0
	4,708.0	5.40	73.30	4,695.1	184.1	107.3	1.41	-0.10	-14.87	-11.0	-55.8



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #721H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #721H
TVD Reference: KB = 22 @ 3542.0usft
MD Reference: KB = 22 @ 3542.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
4,898.0	6.10	42.80	4,884.2	194.1	122.7	1.63	0.37	-16.05	22.1	-67.5
5,089.0	6.00	30.70	5,074.2	210.1	134.7	0.67	-0.05	-6.34	38.6	-68.3
5,279.0	8.40	11.70	5,262.7	232.3	142.6	1.76	1.26	-10.00	58.3	-52.5
5,470.0	7.60	9.20	5,451.8	258.4	147.5	0.46	-0.42	-1.31	56.9	-46.5
5,660.0	6.50	5.00	5,640.4	281.5	150.4	0.64	-0.58	-2.21	59.3	-37.6
5,851.0	5.30	13.30	5,830.4	300.9	153.4	0.77	-0.63	4.35	56.9	-41.9
6,041.0	4.90	1.90	6,019.6	317.5	155.7	0.57	-0.21	-6.00	69.5	-24.8
6,232.0	6.20	7.00	6,209.7	335.9	157.2	0.73	0.68	2.67	71.4	-25.3
6,327.0	6.60	6.00	6,304.1	346.4	158.4	0.44	0.42	-1.05	72.5	-21.5
6,518.0	5.90	2.60	6,494.0	367.1	160.0	0.41	-0.37	-1.78	75.2	-11.3
6,708.0	5.30	359.60	6,683.1	385.7	160.4	0.35	-0.32	-1.58	78.8	-0.3
6,899.0	4.70	353.80	6,873.4	402.3	159.5	0.41	-0.31	-3.04	74.7	12.9
6,994.0	5.30	358.60	6,968.0	410.5	158.9	0.77	0.63	5.05	69.2	7.8
7,089.0	5.20	0.80	7,062.6	419.2	158.9	0.24	-0.11	2.32	60.9	5.3
7,236.3	5.05	1.95	7,209.3	432.4	159.2	0.13	-0.10	0.78	47.8	4.2
Brushy Top(Savage 2 SC #721H)										
7,280.0	5.00	2.30	7,252.8	436.2	159.3	0.13	-0.10	0.81	44.0	3.9
7,470.0	4.50	0.00	7,442.2	451.9	159.7	0.28	-0.26	-1.21	28.1	5.3
7,661.0	3.80	0.90	7,632.7	465.7	159.8	0.37	-0.37	0.47	14.3	5.0
7,852.0	2.70	355.10	7,823.4	476.6	159.5	0.60	-0.58	-3.04	3.0	5.8
8,042.0	1.90	353.40	8,013.2	484.1	158.7	0.42	-0.42	-0.89	-4.8	5.7
8,233.0	1.70	339.80	8,204.1	489.9	157.4	0.25	-0.10	-7.12	-12.0	3.7
8,423.0	0.80	282.30	8,394.1	492.9	155.1	0.76	-0.47	-30.26	-12.4	-10.5
8,614.0	1.10	245.30	8,585.1	492.4	152.2	0.35	0.16	-19.37	-6.5	-16.6
8,804.0	1.50	233.30	8,775.0	490.1	148.5	0.25	0.21	-6.32	-7.2	-18.0
8,995.0	1.30	226.80	8,966.0	487.2	144.9	0.13	-0.10	-3.40	-9.7	-19.0
9,185.0	2.50	213.00	9,155.9	482.2	141.1	0.67	0.63	-7.26	-11.2	-21.3



Midland PVA

Company: Project: Site: Well: Wellbore: Design:		EOG Resources - Midland Lea County, NM (NAD 83 NME) Savage 2 State Com #721H OH OH		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:				Well #721H KB = 22 @ 3542.0usft KB = 22 @ 3542.0usft Grid Minimum Curvature EDM 5000.14			
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)	
9,376.0	1.50	102.40	9,346.8	478.2	141.3	1.75	-0.52	-57.91	22.8	-6.9	
9,471.0	2.10	74.40	9,441.7	478.4	144.2	1.10	0.63	-29.47	20.5	4.1	
9,662.0	0.30	36.00	9,632.7	479.7	147.8	0.98	-0.94	-20.10	10.3	13.7	
9,852.0	1.00	182.50	9,822.7	478.5	148.0	0.66	0.37	77.11	-2.3	-16.9	
10,043.0	1.50	205.70	10,013.6	474.6	146.9	0.37	0.26	12.15	-12.8	-14.0	
10,233.0	1.00	210.20	10,203.6	470.9	145.0	0.27	-0.26	2.37	-17.9	-12.7	
10,424.0	1.60	215.00	10,394.5	467.3	142.6	0.32	0.31	2.51	-23.3	-11.0	
10,519.0	2.30	198.70	10,489.5	464.4	141.2	0.93	0.74	-17.16	-22.4	-17.5	
10,709.0	1.60	203.90	10,679.4	458.3	138.9	0.38	-0.37	2.74	-30.4	-15.1	
10,900.0	3.00	217.60	10,870.2	451.9	134.8	0.78	0.73	7.17	-40.7	-6.8	
11,090.0	2.30	228.30	11,060.0	445.5	128.9	0.45	-0.37	5.63	-49.9	1.8	
11,280.0	2.60	269.90	11,249.9	442.9	121.8	0.93	0.16	21.89	-43.3	37.0	
11,471.0	3.30	278.80	11,440.6	443.7	112.0	0.44	0.37	4.66	-46.8	44.0	
11,656.0	2.90	288.30	11,625.3	446.0	102.3	0.35	-0.22	5.14	-48.8	52.0	
11,769.0	2.10	275.80	11,738.2	447.1	97.5	0.85	-0.71	-11.06	-63.8	39.5	
11,959.0	4.90	160.40	11,928.0	439.8	96.8	3.21	1.47	-60.74	-14.9	-77.7	
12,055.0	6.10	157.30	12,023.5	431.3	100.1	1.29	1.25	-3.23	-19.8	-78.7	
12,067.9	6.11	157.13	12,036.4	430.0	100.7	0.17	0.10	-1.28	-21.0	-78.7	
FTP Crossing, MD:12067.9, TVD:12036.4, N/S:430.0, E/W:100.7, INC:6.11											
12,125.0	6.17	156.41	12,093.1	424.4	103.1	0.17	0.11	-1.27	-25.1	-78.7	
KOP, MD:12125.0, TVD:12093.1, N/S:424.4, E/W:103.1, INC:6.17											
12,150.0	6.20	156.10	12,118.0	421.9	104.2	0.17	0.11	-1.25	-24.9	-78.1	
12,245.0	15.70	165.00	12,211.2	404.8	109.6	10.13	10.00	9.37	-32.1	-70.1	
12,341.0	21.80	164.10	12,302.0	375.1	117.8	6.36	6.35	-0.94	-18.9	-65.6	
12,436.0	27.80	158.80	12,388.2	337.4	130.7	6.73	6.32	-5.58	6.8	-55.9	
12,495.0	36.60	156.70	12,438.1	308.4	142.6	15.03	14.92	-3.56	21.0	-45.7	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #721H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #721H
 TVD Reference: KB = 22 @ 3542.0usft
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
	12,524.8	44.31	159.95	12,460.8	290.4	149.7	26.86	25.91	10.91	23.9	-41.9
FTP(Savage 2 SC #721H)											
	12,532.0	46.20	160.60	12,465.8	285.6	151.5	26.86	26.08	9.03	24.5	-41.1
	12,582.0	60.00	169.60	12,495.8	247.0	161.4	31.08	27.60	18.00	23.7	-39.7
	12,627.0	74.60	170.40	12,513.2	206.3	168.6	32.49	32.44	1.78	19.7	-39.3
	12,722.0	83.30	168.70	12,531.3	114.7	185.5	9.32	9.16	-1.79	6.7	-36.9
	12,817.0	85.10	168.50	12,540.9	22.0	204.2	1.91	1.89	-0.21	3.2	-32.9
	12,913.0	88.70	169.70	12,546.1	-72.1	222.3	3.95	3.75	1.25	8.4	-28.3
	13,008.0	90.50	170.90	12,546.8	-165.7	238.3	2.28	1.89	1.26	9.6	-21.0
	13,103.0	91.90	175.70	12,544.8	-260.0	249.4	5.26	1.47	5.05	8.2	-14.0
	13,198.0	93.00	177.10	12,540.7	-354.8	255.4	1.87	1.16	1.47	4.7	-8.8
	13,293.0	92.60	180.30	12,536.1	-449.6	257.5	3.39	-0.42	3.37	0.7	-7.3
	13,389.0	91.90	179.40	12,532.3	-545.5	257.8	1.19	-0.73	-0.94	-2.5	-7.7
	13,484.0	89.40	177.10	12,531.3	-640.5	260.7	3.58	-2.63	-2.42	-3.0	-5.5
	13,579.0	90.60	177.10	12,531.3	-735.3	265.5	1.26	1.26	0.00	-2.4	-1.4
	13,675.0	89.80	175.80	12,530.9	-831.2	271.4	1.59	-0.83	-1.35	-2.2	3.9
	13,770.0	92.00	180.00	12,529.4	-926.1	274.9	4.99	2.32	4.42	-3.1	6.7
	13,865.0	93.00	180.00	12,525.3	-1,021.0	274.9	1.05	1.05	0.00	-6.7	6.0
	13,960.0	90.90	179.30	12,522.1	-1,115.9	275.5	2.33	-2.21	-0.74	-9.3	5.9
	14,020.3	90.27	179.49	12,521.4	-1,176.2	276.1	1.09	-1.04	0.31	-9.6	6.2
TGT#1(Savage 2 SC #721H)											
	14,056.0	89.90	179.60	12,521.4	-1,211.9	276.4	1.09	-1.04	0.31	-9.3	6.2
	14,151.0	90.90	180.10	12,520.7	-1,306.9	276.6	1.18	1.05	0.53	-9.1	5.7
	14,246.0	93.10	181.60	12,517.4	-1,401.8	275.2	2.80	2.32	1.58	-11.5	3.7
	14,342.0	89.10	180.10	12,515.6	-1,497.8	273.8	4.45	-4.17	-1.56	-12.4	1.5
	14,437.0	87.30	180.10	12,518.5	-1,592.7	273.6	1.89	-1.89	0.00	-8.5	0.7
	14,532.0	87.50	180.80	12,522.9	-1,687.6	272.9	0.77	0.21	0.74	-3.3	-0.7



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #721H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 22 @ 3542.0usft
 MD Reference: KB = 22 @ 3542.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
14,627.0	87.80	181.20	12,526.8	-1,782.5	271.2	0.53	0.32	0.42	1.5	-3.1
14,723.0	89.30	178.80	12,529.2	-1,878.5	271.2	2.95	1.56	-2.50	4.8	-3.8
14,818.0	92.00	180.70	12,528.1	-1,973.5	271.7	3.48	2.84	2.00	4.7	-4.0
14,913.0	89.90	179.40	12,526.5	-2,068.4	271.6	2.60	-2.21	-1.37	4.0	-4.8
15,008.0	90.20	179.50	12,526.4	-2,163.4	272.5	0.33	0.32	0.11	4.8	-4.6
15,104.0	88.80	177.90	12,527.3	-2,259.4	274.7	2.21	-1.46	-1.67	6.6	-3.1
15,199.0	90.60	178.00	12,527.8	-2,354.3	278.1	1.90	1.89	0.11	8.0	-0.4
15,294.0	91.60	179.30	12,526.0	-2,449.3	280.3	1.73	1.05	1.37	7.1	1.2
15,389.0	91.50	179.20	12,523.4	-2,544.2	281.5	0.15	-0.11	-0.11	5.4	1.7
15,485.0	92.80	179.40	12,519.8	-2,640.2	282.7	1.37	1.35	0.21	2.7	2.2
15,580.0	91.90	179.40	12,515.9	-2,735.1	283.7	0.95	-0.95	0.00	-0.3	2.5
15,675.0	91.60	178.80	12,513.0	-2,830.0	285.2	0.71	-0.32	-0.63	-2.3	3.3
15,770.0	94.40	179.70	12,508.0	-2,924.9	286.4	3.10	2.95	0.95	-6.4	3.9
15,866.0	90.80	179.60	12,503.7	-3,020.8	287.0	3.75	-3.75	-0.10	-9.8	3.8
15,961.0	88.90	179.20	12,503.9	-3,115.7	288.0	2.04	-2.00	-0.42	-8.6	4.1
16,056.0	87.90	179.00	12,506.6	-3,210.7	289.5	1.07	-1.05	-0.21	-5.1	4.9
16,151.0	87.10	179.20	12,510.7	-3,305.6	291.0	0.87	-0.84	0.21	0.0	5.7
16,246.0	90.10	179.40	12,513.0	-3,400.5	292.2	3.16	3.16	0.21	3.2	6.2
16,342.0	90.10	179.30	12,512.9	-3,496.5	293.3	0.10	0.00	-0.10	3.9	6.6
16,437.0	90.90	178.60	12,512.0	-3,591.5	295.0	1.12	0.84	-0.74	4.0	7.6
16,532.0	92.10	180.30	12,509.5	-3,686.5	295.9	2.19	1.26	1.79	2.4	7.8
16,627.0	93.40	180.10	12,505.0	-3,781.4	295.6	1.38	1.37	-0.21	-1.2	6.8
16,722.0	91.50	181.30	12,500.9	-3,876.3	294.4	2.36	-2.00	1.26	-4.4	5.0
16,817.0	93.70	182.30	12,496.6	-3,971.1	291.4	2.54	2.32	1.05	-7.8	1.3
16,931.0	90.90	182.00	12,492.0	-4,064.9	287.2	2.47	-2.46	-0.26	-11.3	-3.8
17,008.0	90.60	182.10	12,491.0	-4,161.9	284.4	0.41	-0.39	0.13	-11.6	-7.1
17,103.0	87.40	181.40	12,492.7	-4,256.8	281.5	3.45	-3.37	-0.74	-9.0	-10.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #721H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #721H
TVD Reference: KB = 22 @ 3542.0usft
MD Reference: KB = 22 @ 3542.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
17,198.0	87.80	181.30	12,496.7	-4,351.7	279.3	0.43	0.42	-0.11	-4.1	-13.6
17,293.0	87.70	180.90	12,500.4	-4,446.6	277.5	0.43	-0.11	-0.42	0.5	-16.1
17,435.0	87.70	180.90	12,506.1	-4,588.5	275.2	0.00	0.00	0.00	7.5	-19.4
Last MWD Survey (MD=17435.0')										
17,490.0	87.70	180.90	12,508.3	-4,643.4	274.4	0.00	0.00	0.00	10.3	-20.6
Projection to Bit (MD=17490.0') - PBHL(Savage 2 SC #721H)										

Design Annotations		Local Coordinates		Vertical	
Measured Depth (usft)		+N/-S (usft)	+E/-W (usft)	Depth (usft)	
12,067.9		430.0	100.7	12,036.4	
12,125.0		424.4	103.1	12,093.1	
17,435.0		-4,588.5	275.2	12,506.1	
17,490.0		-4,643.4	274.4	12,508.3	
FTP Crossing, MD:12067.9', TVD:12036.4', N/S:430.0', EW:100.7', INC:6.11					
KOP, MD:12125.0', TVD:12093.1', N/S:424.4', EW:103.1', INC:6.17					
Last MWD Survey (MD=17435.0')					
Projection to Bit (MD=17490.0')					

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 7/15/2020
Signed Date



Lea County, NM (NAD 83 NME)

Savage 2 State Com #721H

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: #721H

KB = 22 @ 3542.0usft
Northing 424571.00 Easting 763164.00
Latitude 32° 9' 55.339 N Longitude 103° 38' 56.577 W

Azimuths to Grid North
True North: 0.38°
Magnetic North: 6.38°

Magnetic Field
Strength: 47662.7nT
Dip Angle: 69.97°
Date: 9/19/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.38°
To convert a Magnetic Direction to a True Direction, Add 6.74° East
To convert a True Direction to a Grid Direction, Subtract 0.38°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	-19.7	
3	2849.9	7.00	18.97	2849.1	20.2	6.9	2.00	18.97	-448.8	
4	6865.2	7.00	18.97	6835.9	459.8	158.1	0.00	0.00	-488.8	
5	7015.2	0.00	0.00	6985.0	480.0	165.0	2.00	180.00	-488.8	
6	12091.0	0.00	0.00	12060.8	480.0	165.0	0.00	0.00	-488.8	
7	12843.9	90.35	171.00	12538.3	5.5	240.1	12.00	171.00	9.7	
8	13130.4	90.35	179.59	12538.5	-279.7	283.6	3.00	89.96	295.9	TGT#1(Savage 2 SC #721H)
9	14027.0	90.35	179.59	12531.0	-1176.3	270.0	0.00	0.00	1191.0	PBHL(Savage 2 SC #721H)
10	14036.7	90.55	178.59	12530.9	-1186.0	270.0	2.00	-2.45	1200.7	
11	17498.9	90.55	179.59	12498.0	-4646.0	295.0	0.00	0.00	4655.4	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Savage 2 SC #721H)	7205.0	480.0	165.0	425051.00	753329.00
PBHL(Savage 2 SC #721H)	12458.0	-4646.0	255.0	419225.00	753453.00
TGT#1(Savage 2 SC #721H)	12631.0	-1176.3	270.0	423394.70	753433.96
FTP(Savage 2 SC #721H)	12641.0	430.0	268.0	426001.00	753422.00

