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Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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District III
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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 30-025-46337		² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPR WOLFCAMP <i>KZ</i>
⁴ Property Code 321651	⁵ Property Name SAVAGE 2 STATE COM		⁶ Well Number 708H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3535'

¹⁰Surface Location

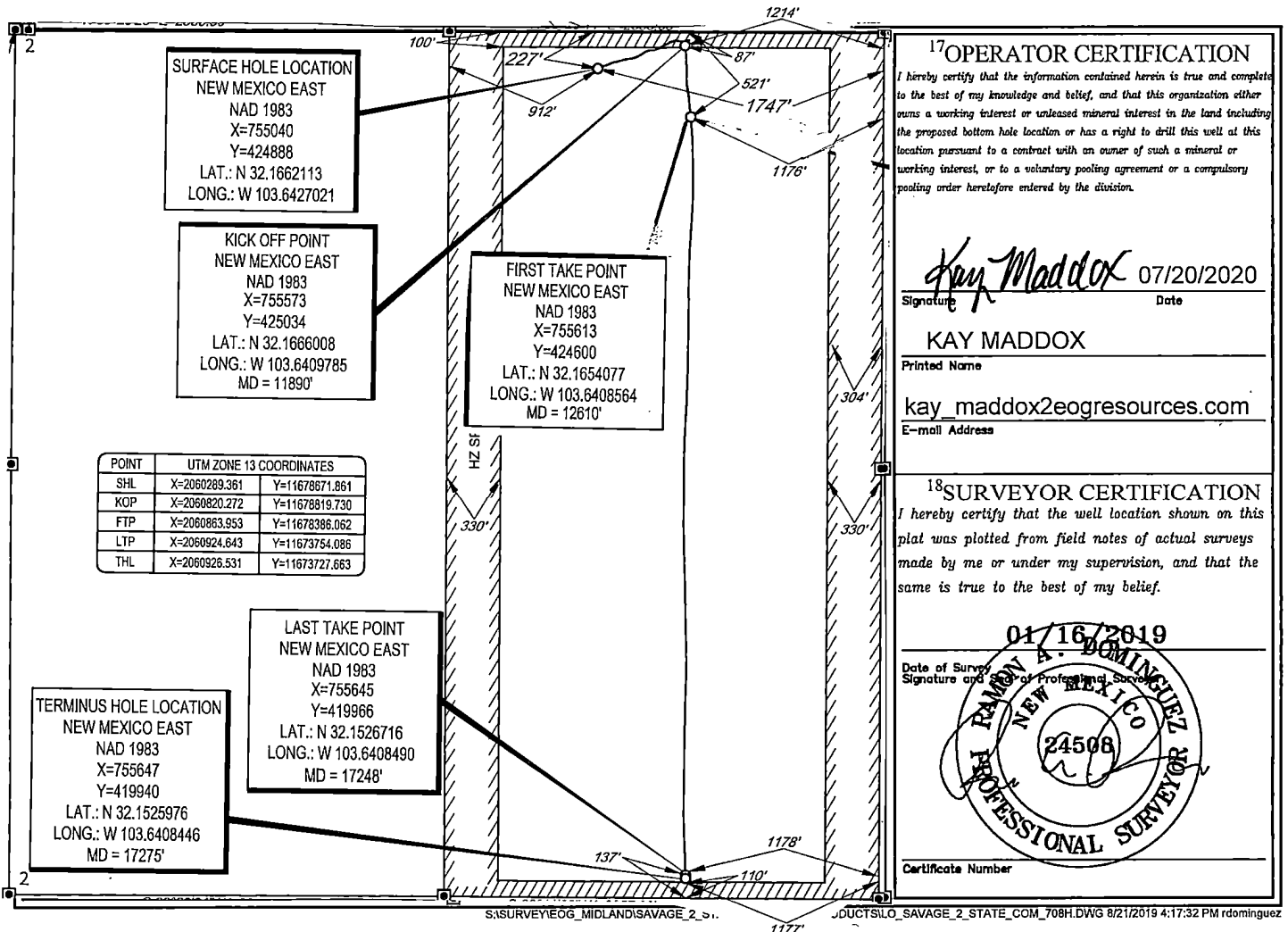
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	25-S	32-E	-	227'	NORTH	1747'	EAST	LEA

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
P	2	25-S	32-E	-	110'	SOUTH	1177'	EAST	LEA

¹² Dedicated Acres 320.67	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.



Intent ☐ As Drilled ☒ XXX

API # 30-025-46337		
Operator Name: EOG RESOURCES, INC	Property Name: SAVAGE 2 STATE COM	Well Number 708H

Kick Off Point (KOP)

UL B	Section 2	Township 25S	Range 32E	Lot	Feet 87	From N/S NORTH	Feet 1214	From E/W EAST	County LEA
Latitude 32.1666008					Longitude 103.6409785			NAD 1983	

First Take Point (FTP)

UL A	Section 2	Township 25S	Range 32E	Lot	Feet 521	From N/S NORTH	Feet 1176	From E/W EAST	County LEA
Latitude 32.1654077					Longitude 103.6408564			NAD 1983	

Last Take Point (LTP)

UL P	Section 2	Township 25S	Range 32E	Lot	Feet 137	From N/S SOUTH	Feet 1178	From E/W EAST	County LEA
Latitude 32.1526716					Longitude 103.6408490			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit?

☐ NO

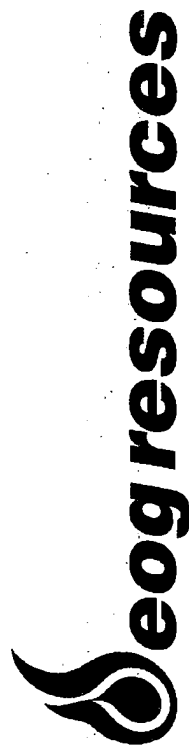
Is this well an infill well?

☒ YES

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

API # 30-025-46340		
Operator Name: EOG RESOURCES, INC	Property Name: SAVAGE 2 STATE COM	Well Number 723H

KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#708H

OH

Design: OH

Midland PVA

05 November, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3560.0usft
Well:	#708H	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		
Site Position:		Northings:	424,469.00 usft
From:	Map	Easting:	751,845.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 54.412 N
		Longitude:	103° 39' 10.929 W
		Grid Convergence:	0.36 °

Well	#708H		
Well Position	+N/-S +E/-W	Northings: Easting:	424,888.00 usft 755,040.00 usft
Position Uncertainty	0.0 usft 0.0 usft 0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 58.357 N
		Longitude:	103° 38' 33.729 W
		Ground Level:	3,535.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Dip Angle (°)
	IGRF2015	9/25/2019	59.97
			47,661.96366999
			Field Strength (nT)

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)
	0.0	0.0	0.0
		Direction (°)	173.10

Survey Program	Date	11/5/2019	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
174.0	17,275.0	Driltech MWD (OH)	MWD
			Description
			OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3560.0usft
MD Reference: KB = 25 @ 3560.0usft
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
	174.0	0.97	56.02	174.0	0.8	1.2	0.56	0.56	0.00	-1.5	0.0
	231.0	1.14	49.34	231.0	1.5	2.1	0.37	0.30	-11.72	-2.5	-0.2
	318.0	1.49	49.60	318.0	2.8	3.6	0.40	0.40	0.30	-4.5	-0.2
	409.0	2.11	46.88	408.9	4.7	5.7	0.69	0.68	-2.99	-7.3	-0.5
	500.0	2.64	44.15	499.8	7.3	8.4	0.60	0.58	-3.00	-11.1	-0.9
	593.0	2.99	43.98	592.7	10.6	11.6	0.38	0.38	-0.18	-15.7	-1.0
	686.0	2.73	50.04	685.6	13.8	14.9	0.43	-0.28	6.52	-20.3	1.0
	780.0	1.58	69.38	779.5	15.7	17.9	1.43	-1.22	20.57	-22.2	8.4
	873.0	1.23	88.89	872.5	16.1	20.1	0.63	-0.38	20.98	-20.4	15.7
	967.0	1.41	101.28	966.5	15.9	22.2	0.36	0.19	13.18	-18.7	20.0
	1,032.0	1.85	105.85	1,031.5	15.5	24.0	0.71	0.68	7.03	-18.8	21.5
	1,142.0	2.11	115.17	1,141.4	14.1	27.5	0.38	0.24	8.47	-18.7	24.3
	1,236.0	3.34	85.28	1,235.3	13.6	31.8	1.96	1.31	-31.80	-29.7	10.1
	1,330.0	5.63	71.13	1,329.0	15.3	38.9	2.69	2.44	-15.05	-32.5	1.9
	1,422.0	6.60	69.90	1,420.5	18.6	48.2	1.06	1.05	-1.34	-34.1	1.2
	1,516.0	6.42	68.76	1,513.9	22.4	58.1	0.24	-0.19	-1.21	-36.3	0.7
	1,610.0	6.33	68.85	1,607.3	26.2	67.9	0.10	-0.10	0.10	-38.2	1.0
	1,704.0	6.07	69.11	1,700.7	29.8	77.3	0.28	-0.28	0.28	-39.8	1.4
	1,797.0	5.98	69.99	1,793.2	33.2	86.5	0.14	-0.10	0.95	-41.0	2.2
	1,891.0	5.80	69.81	1,886.7	36.5	95.5	0.19	-0.19	-0.19	-42.1	2.2
	1,985.0	5.63	73.07	1,980.3	39.5	104.4	0.39	-0.18	3.47	-42.7	4.5
	2,078.0	5.63	76.41	2,072.8	41.9	113.2	0.35	0.00	3.59	-43.1	6.4
	2,172.0	5.36	76.23	2,166.4	44.0	122.0	0.29	-0.29	-0.19	-43.6	5.4
	2,266.0	5.54	72.10	2,260.0	46.5	130.5	0.46	0.19	-4.39	-44.2	1.7
	2,360.0	5.54	74.56	2,353.5	49.1	139.2	0.25	0.00	2.62	-44.7	3.2
	2,454.0	5.45	76.14	2,447.1	51.4	147.9	0.19	-0.10	1.68	-45.0	3.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3560.0usft
MD Reference: KB = 25 @ 3560.0usft
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)
	2,548.0	5.01	76.58	2,540.7	53.4	156.3	0.47	-0.47	0.47	-45.1	3.2
	2,641.0	5.01	76.93	2,633.3	55.2	164.2	0.03	0.00	0.38	-44.7	2.6
	2,735.0	4.75	76.93	2,727.0	57.0	172.0	0.28	-0.28	0.00	-44.2	1.7
	2,829.0	4.75	78.87	2,820.7	58.7	179.6	0.17	0.00	2.06	-43.4	2.1
	2,922.0	4.84	79.75	2,913.4	60.1	187.2	0.12	0.10	0.95	-42.8	1.4
	3,015.0	4.75	83.88	3,006.0	61.2	194.9	0.38	-0.10	4.44	-42.1	2.9
	3,109.0	4.84	85.90	3,099.7	61.9	202.7	0.20	0.10	2.15	-41.6	2.2
	3,203.0	5.28	71.13	3,193.3	63.6	210.8	1.46	0.47	-15.71	-40.4	-9.5
	3,296.0	5.36	73.95	3,285.9	66.2	219.0	0.29	0.09	3.03	-41.0	-7.8
	3,390.0	5.10	77.99	3,379.5	68.3	227.3	0.48	-0.28	4.30	-41.5	-5.7
	3,483.0	5.89	64.98	3,472.1	71.2	235.7	1.58	0.85	-13.99	-39.5	-14.9
	3,577.0	6.07	57.95	3,565.6	75.8	244.3	0.80	0.19	-7.48	-38.8	-18.3
	3,671.0	6.60	56.98	3,659.0	81.4	253.0	0.58	0.56	-1.03	-40.6	-17.1
	3,764.0	6.42	57.95	3,751.4	87.1	261.9	0.23	-0.19	1.04	-43.1	-14.4
	3,859.0	5.89	57.16	3,845.9	92.5	270.5	0.56	-0.56	-0.83	-44.7	-13.1
	3,953.0	5.45	55.40	3,939.4	97.7	278.2	0.50	-0.47	-1.87	-45.3	-12.3
	4,046.0	5.01	57.60	4,032.0	102.4	285.3	0.52	-0.47	2.37	-46.0	-8.5
	4,140.0	5.10	63.66	4,125.7	106.4	292.5	0.58	0.10	6.45	-46.4	-2.1
	4,234.0	5.28	73.77	4,219.3	109.5	300.4	0.99	0.19	10.76	-45.9	6.3
	4,327.0	5.36	78.25	4,311.9	111.6	308.7	0.45	0.09	4.82	-45.5	9.0
	4,419.0	5.28	82.12	4,403.5	113.0	317.1	0.40	-0.09	4.21	-45.1	10.7
	4,513.0	5.54	91.26	4,497.1	113.5	326.0	0.96	0.28	9.72	-43.7	15.4
	4,606.0	5.63	80.98	4,589.6	114.1	335.0	1.08	0.10	-11.05	-46.3	5.0
	4,699.0	5.98	71.22	4,682.2	116.4	344.0	1.12	0.38	-10.49	-47.4	-3.7
	4,793.0	5.01	69.64	4,775.7	119.4	352.5	1.04	-1.03	-1.68	-47.7	-5.0
	4,885.0	4.31	68.94	4,867.4	122.1	359.5	0.76	-0.76	-0.76	-46.8	-5.4
	4,979.0	3.78	69.55	4,961.2	124.4	365.7	0.57	-0.56	0.65	-44.9	-4.7



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3560.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
	5,072.0	3.69	68.58	5,054.0	126.6	371.4	0.12	-0.10	-1.04	-42.4	-5.2
	5,166.0	4.13	60.06	5,147.8	129.4	377.1	0.77	0.47	-9.06	-39.1	-10.3
	5,259.0	6.95	61.20	5,240.3	133.8	385.0	3.03	3.03	1.23	-39.9	-8.0
	5,353.0	7.30	62.08	5,333.6	139.3	395.2	0.39	0.37	0.94	-43.3	-6.0
	5,447.0	7.21	62.61	5,426.9	144.8	405.7	0.12	-0.10	0.56	-46.7	-4.4
	5,541.0	7.39	63.31	5,520.1	150.2	416.4	0.21	0.19	0.74	-50.2	-2.7
	5,633.0	7.83	59.18	5,611.3	156.1	427.0	0.76	0.48	-4.49	-53.9	-5.0
	5,726.0	7.39	56.81	5,703.5	162.6	437.5	0.58	-0.47	-2.55	-57.8	-5.5
	5,819.0	5.89	67.44	5,795.8	167.7	446.9	2.08	-1.61	11.43	-60.0	6.8
	5,913.0	6.07	77.02	5,889.3	170.7	456.2	1.08	0.19	10.19	-59.3	16.5
	6,007.0	6.07	74.56	5,982.8	173.1	465.8	0.28	0.00	-2.62	-61.3	13.2
	6,100.0	4.48	94.69	6,075.4	174.1	474.2	2.60	-1.71	21.65	-53.6	31.6
	6,194.0	4.40	100.58	6,169.1	173.2	481.4	0.49	-0.09	6.27	-49.9	33.0
	6,288.0	4.66	96.36	6,262.8	172.1	488.7	0.45	0.28	-4.49	-51.9	25.3
	6,382.0	4.57	95.13	6,356.5	171.3	496.3	0.14	-0.10	-1.31	-52.2	20.6
	6,475.0	4.48	92.05	6,449.2	170.9	503.6	0.28	-0.10	-3.31	-52.7	14.5
	6,568.0	4.22	91.17	6,542.0	170.7	510.6	0.29	-0.28	-0.95	-52.0	10.6
	6,662.0	3.96	90.82	6,635.7	170.6	517.3	0.28	-0.28	-0.37	-50.7	7.3
	6,755.0	3.52	93.63	6,728.5	170.3	523.4	0.51	-0.47	3.02	-48.5	6.7
	6,849.0	3.17	92.23	6,822.4	170.0	528.9	0.38	-0.37	-1.49	-46.2	2.3
	6,943.0	2.90	93.28	6,916.2	169.8	533.8	0.29	-0.29	1.12	-43.2	-0.1
	7,037.0	2.20	80.54	7,010.2	170.0	538.0	0.95	-0.74	-13.55	-37.8	-11.6
	7,131.0	1.67	76.41	7,104.1	170.6	541.1	0.58	-0.56	-4.39	-31.5	-15.3
	7,224.0	1.41	58.83	7,197.1	171.5	543.4	0.58	-0.28	-18.90	-20.2	-22.9
	7,292.6	1.34	59.83	7,265.6	172.3	544.8	0.10	-0.10	1.46	-18.3	-21.8
	Brushy Top(Savage 2 SC #708H)										
	7,318.0	1.32	60.23	7,291.0	172.6	545.3	0.10	-0.10	1.56	-18.0	-21.5



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVL Reference: KB = 25 @ 3560.0usft
MD Reference: KB = 25 @ 3560.0usft
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)
	7,412.0	1.32	64.98	7,385.0	173.6	547.3	0.12	0.00	5.05	-19.9	-19.6
	7,505.0	1.23	69.11	7,478.0	174.4	549.2	0.14	-0.10	4.44	-23.3	-18.0
	7,598.0	1.14	67.44	7,571.0	175.2	550.9	0.10	-0.10	-1.80	-24.6	-18.7
	7,692.0	0.53	62.34	7,665.0	175.7	552.2	0.65	-0.65	-5.43	-24.2	-20.9
	7,786.0	0.53	74.74	7,759.0	176.0	553.0	0.12	0.00	13.19	-29.0	-15.1
	7,880.0	0.44	51.18	7,853.0	176.4	553.7	0.23	-0.10	-25.06	-21.3	-25.7
	7,972.0	0.26	65.68	7,945.0	176.7	554.2	0.22	-0.20	15.76	-27.6	-19.4
	8,065.0	0.35	7.50	8,038.0	177.0	554.4	0.33	0.10	-62.56	1.5	-33.9
	8,158.0	0.18	39.23	8,130.9	177.4	554.5	0.23	-0.18	34.12	-16.9	-29.5
	8,251.0	0.26	326.02	8,223.9	177.7	554.5	0.29	0.09	-78.72	23.1	-24.8
	8,345.0	0.09	267.83	8,317.9	177.9	554.3	0.24	-0.18	-61.90	33.1	6.4
	8,438.0	0.26	233.03	8,410.9	177.8	554.1	0.21	0.18	-37.42	23.3	24.1
	8,531.0	0.26	295.78	8,503.9	177.7	553.7	0.29	0.00	67.47	31.7	-9.5
	8,625.0	0.44	271.52	8,597.9	177.8	553.2	0.24	0.19	-25.81	32.3	4.3
	8,718.0	0.44	243.49	8,690.9	177.7	552.5	0.23	0.00	-30.14	25.8	18.8
	8,812.0	0.53	260.19	8,784.9	177.5	551.7	0.18	0.10	17.77	29.3	10.7
	8,906.0	0.70	226.35	8,878.9	177.0	550.9	0.42	0.18	-36.00	17.5	25.0
	9,000.0	0.79	247.18	8,972.9	176.3	549.9	0.30	0.10	22.16	24.0	17.3
	9,093.0	0.70	259.39	9,065.9	176.0	548.7	0.20	-0.10	13.13	26.0	12.0
	9,186.0	0.70	252.89	9,158.9	175.7	547.6	0.09	0.00	-6.99	23.3	14.8
	9,280.0	0.97	223.54	9,252.9	175.0	546.5	0.53	0.29	-31.22	11.8	24.0
	9,374.0	1.23	199.72	9,346.9	173.4	545.6	0.55	0.28	-25.34	-0.7	26.4
	9,467.0	1.58	185.83	9,439.9	171.2	545.2	0.52	0.38	-14.94	-9.3	25.2
	9,560.0	1.93	188.29	9,532.8	168.4	544.8	0.38	0.38	2.65	-11.0	25.7
	9,654.0	0.53	195.23	9,626.8	166.4	544.5	1.50	-1.49	7.38	-9.8	27.0
	9,748.0	0.18	103.56	9,720.8	166.0	544.5	0.60	-0.37	-97.52	-26.8	-11.1
	9,842.0	0.70	236.28	9,814.8	165.6	544.2	0.89	0.55	141.19	9.6	27.3

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #708H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #708H
 TVD Reference: KB = 25 @ 3560.0usft
 MD Reference: KB = 25 @ 3560.0usft
 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)
	9,936.0	1.23	252.98	9,908.8	165.0	542.7	0.63	0.56	17.77	15.5	23.6
	10,029.0	1.41	239.27	10,001.7	164.1	540.8	0.39	0.19	-14.74	7.4	26.3
	10,122.0	1.76	238.39	10,094.7	162.8	538.6	0.38	0.38	-0.95	4.4	26.4
	10,216.0	2.02	230.65	10,188.7	161.0	536.1	0.39	0.28	-8.23	-2.3	26.6
	10,309.0	1.76	224.50	10,281.6	158.9	533.8	0.35	-0.28	-6.61	-8.2	26.0
	10,403.0	1.41	210.18	10,375.6	156.9	532.2	0.56	-0.37	-15.23	-16.9	22.8
	10,497.0	1.23	221.25	10,469.6	155.1	531.0	0.33	-0.19	11.78	-14.4	25.9
	10,590.0	0.79	218.35	10,562.5	153.9	529.9	0.48	-0.47	-3.12	-17.3	25.1
	10,684.0	0.70	173.35	10,656.5	152.8	529.6	0.61	-0.10	-47.87	-31.0	5.0
	10,778.0	0.97	179.59	10,750.5	151.4	529.6	0.30	0.29	6.64	-31.6	8.4
	10,871.0	0.35	187.94	10,843.5	150.4	529.6	0.67	-0.67	8.98	-31.1	13.0
	10,965.0	1.06	170.80	10,937.5	149.2	529.7	0.78	0.76	-18.23	-34.7	3.2
	11,153.0	1.14	166.67	11,125.5	145.7	530.4	0.06	0.04	-2.20	-38.5	0.6
	11,246.0	0.35	149.53	11,218.5	144.5	530.8	0.87	-0.85	-18.43	-38.1	-11.1
	11,339.0	1.14	87.13	11,311.5	144.3	531.8	1.10	0.85	-67.10	-8.9	-39.2
	11,433.0	0.97	103.92	11,405.4	144.2	533.6	0.37	-0.18	17.86	-21.5	-34.6
	11,526.0	0.35	43.36	11,498.4	144.2	534.5	0.92	-0.67	-65.12	18.9	-36.5
	11,621.0	0.62	324.61	11,593.4	144.8	534.4	0.68	0.28	-82.89	38.9	11.2
	11,693.0	0.79	314.68	11,685.4	145.5	533.8	0.29	0.24	-13.79	35.5	17.6
	11,738.0	0.97	328.83	11,710.4	146.1	533.4	0.62	0.40	31.44	38.0	8.5
	11,832.0	1.41	329.09	11,804.4	147.7	532.4	0.47	0.47	0.28	36.1	8.3
	11,890.0	6.42	173.04	11,862.3	145.1	532.4	13.33	8.64	-269.05	-39.0	6.8
KOP, MD:11890.0', TVD:11862.3', N/S:145.1', E/W:532.4', INC:6.42											
11,925.0	11.08		171.24	11,896.9	139.8	533.2	13.33	13.31	-5.15	-43.9	5.6
11,956.1	14.86		172.55	11,927.2	132.9	534.2	12.18	12.15	4.22	-48.1	6.8
FTP Crossing, MD:11956.1', TVD:11927.2', N/S:132.9', E/W:534.2', INC:14.86											
12,019.0	22.51		173.88	11,966.7	112.9	536.5	12.18	12.17	2.11	-56.2	8.4



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3560.0usft
MD Reference: KB = 25 @ 3560.0usft
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)
12,112.0	27.70	174.23	12,070.9	73.7	540.6	5.58	5.58	0.38	-61.6	9.6
12,205.0	29.81	179.41	12,152.4	29.1	543.0	3.51	2.27	5.57	-51.5	12.4
12,299.0	37.81	179.59	12,230.5	-23.2	543.4	8.51	8.51	0.19	-30.5	7.3
FTP(Savage 2 SC #708H)										
12,362.0	45.46	176.69	12,277.5	-65.0	544.9	12.52	12.14	-4.60	-14.4	4.0
12,394.0	51.44	173.97	12,298.8	-88.8	546.8	19.74	18.69	-8.50	-6.8	3.7
12,441.0	59.88	170.10	12,325.3	-127.2	552.3	19.20	17.96	-8.23	2.2	6.1
12,487.0	68.68	171.24	12,345.2	-168.1	559.0	19.26	19.13	2.48	8.9	9.6
12,518.0	76.41	173.17	12,354.5	-197.3	563.0	25.63	24.94	6.23	11.4	11.1
12,535.0	80.02	173.61	12,358.0	-213.9	564.9	21.39	21.24	2.59	12.0	11.6
12,550.0	83.01	173.44	12,360.2	-228.6	566.6	19.96	19.93	-1.13	12.0	12.1
12,585.0	90.92	173.61	12,362.0	-263.3	570.5	22.61	22.60	0.49	10.6	13.2
12,678.0	93.39	175.02	12,368.5	-355.8	579.7	3.06	2.66	1.52	6.4	15.9
12,772.0	93.30	177.31	12,363.0	-449.4	586.0	2.43	-0.10	2.44	1.1	19.8
12,865.0	89.87	177.92	12,350.5	-542.3	589.8	3.75	-3.69	0.66	-1.3	23.0
12,959.0	91.89	180.12	12,349.0	-636.2	591.4	3.18	2.15	2.34	-2.6	24.0
13,053.0	92.59	179.94	12,345.4	-730.2	591.4	0.77	0.74	-0.19	-6.1	23.2
13,146.0	94.53	180.29	12,339.6	-823.0	591.2	2.12	2.09	0.38	-11.6	22.4
13,240.0	89.60	183.28	12,336.2	-916.8	588.3	6.13	-5.24	3.18	-14.9	18.7
13,263.2	88.60	183.47	12,336.6	-940.0	586.9	4.38	-4.30	0.84	-14.4	17.2
TGT#1(Savage 2 SC #708H)										
13,394.0	85.56	184.07	12,340.2	-1,010.5	582.3	4.38	-4.30	0.84	-10.5	12.1
13,427.0	90.13	180.91	12,343.7	-1,103.3	578.2	5.97	4.91	-3.40	-6.7	7.3
13,520.0	87.41	181.70	12,345.7	-1,196.3	576.1	3.05	-2.92	0.85	-4.3	4.6
13,614.0	84.06	179.85	12,352.6	-1,290.0	574.8	4.07	-3.56	-1.97	3.0	2.6
13,708.0	92.42	179.15	12,355.5	-1,383.9	575.7	8.92	8.89	-0.74	6.3	2.7
13,802.0	93.30	180.56	12,350.8	-1,477.8	575.9	1.77	0.94	1.50	2.0	2.3



Midland PVA

Company: EOG Resources - Midland
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Local Co-ordinate Reference:
 TVD Reference: KB = 25 @ 3560.0usft
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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)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
	13,895.0	92.68	179.24	12,346.0	-1,570.6	576.1	1.57	-0.67	-1.42	-2.5	1.8
	13,989.0	91.63	179.59	12,342.5	-1,664.6	577.0	1.18	-1.12	0.37	-5.7	2.0
	14,083.0	91.19	180.03	12,340.1	-1,758.5	577.3	0.66	-0.47	0.47	-7.6	1.7
	14,177.0	91.10	180.91	12,338.3	-1,852.5	576.6	0.94	-0.10	0.94	-9.1	0.2
	14,270.0	90.22	181.35	12,337.2	-1,945.5	574.7	1.06	-0.95	0.47	-9.8	-2.3
	14,364.0	89.96	181.88	12,337.0	-2,039.4	572.1	0.63	-0.28	0.56	-9.6	-5.6
	14,458.0	87.32	183.55	12,339.3	-2,133.3	567.6	3.32	-2.81	1.78	-7.0	-10.8
	14,550.0	88.20	181.26	12,342.9	-2,225.1	563.8	2.66	0.96	-2.49	-3.0	-15.3
	14,644.0	88.29	182.23	12,345.7	-2,319.0	560.9	1.04	0.10	1.03	0.2	-18.9
	14,737.0	92.95	178.89	12,344.7	-2,412.0	560.0	6.16	5.01	-3.59	-0.4	-20.4
	14,831.0	91.98	180.03	12,340.7	-2,505.9	560.9	1.59	-1.03	1.21	-4.1	-20.2
	14,925.0	89.16	178.98	12,339.8	-2,599.9	561.7	3.20	-3.00	-1.12	-4.6	-20.1
	15,019.0	89.78	178.98	12,340.6	-2,693.9	563.4	0.66	0.66	0.00	-3.4	-19.1
	15,111.0	88.11	179.50	12,342.3	-2,785.8	564.6	1.90	-1.82	0.57	-1.3	-18.6
	15,205.0	87.58	177.48	12,345.9	-2,879.7	567.1	2.22	-0.56	-2.15	2.6	-16.8
	15,277.0	89.40	178.22	12,347.8	-2,951.6	569.8	2.73	2.53	1.03	4.8	-14.6
TGT#2(Savage 2 SC #708H)											
	15,299.0	89.96	178.45	12,347.9	-2,973.6	570.4	2.73	2.53	1.03	5.0	-14.2
	15,392.0	89.87	176.95	12,348.0	-3,066.6	574.1	1.62	-0.10	-1.61	5.9	-11.1
	15,486.0	93.83	178.10	12,345.0	-3,160.4	578.2	4.39	4.21	1.22	3.6	-7.7
	15,579.0	91.28	179.15	12,340.8	-3,253.3	580.4	2.96	-2.74	1.13	0.2	-6.2
	15,673.0	93.39	177.57	12,337.0	-3,347.2	583.1	2.80	2.24	-1.68	-2.8	-4.2
	15,767.0	88.81	177.83	12,335.2	-3,441.0	586.9	4.88	-4.87	0.28	-3.9	-1.1
	15,860.0	86.35	178.62	12,339.1	-3,533.9	589.8	2.78	-2.65	0.85	0.8	1.1
	15,908.0	90.13	178.71	12,340.6	-3,581.9	590.9	7.88	7.87	0.19	2.6	1.9
	15,954.0	88.72	180.03	12,341.1	-3,627.9	591.4	4.20	-3.07	2.87	3.5	2.0
	16,047.0	93.21	181.00	12,339.5	-3,720.8	590.6	4.94	4.83	1.04	2.7	0.5



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
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Wellbore: OH
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Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3560.0usft.
MD Reference: KB = 25 @ 3560.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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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)
	16,140.0	92.24	180.73	12,335.1	-3,813.7	589.1	1.08	-1.04	-0.29	-1.0	-1.6
	16,234.0	90.57	180.29	12,332.8	-3,907.7	588.3	1.84	-1.78	-0.47	-2.6	-3.1
	16,327.0	91.10	181.00	12,331.4	-4,000.6	587.3	0.95	0.57	0.76	-3.2	-4.8
	16,420.0	89.69	180.29	12,330.8	-4,093.6	586.2	1.70	-1.52	-0.76	-3.1	-6.5
	16,514.0	90.66	179.85	12,330.5	-4,187.6	586.1	1.13	1.03	-0.47	-2.6	-7.3
	16,607.0	88.90	179.94	12,330.8	-4,280.6	586.3	1.89	-1.89	0.10	-1.5	-7.8
	16,700.0	88.81	179.94	12,332.7	-4,373.6	586.4	0.10	-0.10	0.00	1.1	-8.4
	16,794.0	89.52	179.77	12,334.1	-4,467.6	586.6	0.78	0.76	-0.18	3.2	-8.9
	16,888.0	89.52	178.18	12,334.9	-4,561.6	588.3	1.69	0.00	-1.69	4.8	-7.9
	16,981.0	89.78	177.74	12,335.4	-4,654.5	591.6	0.55	0.28	-0.47	6.1	-5.2
	17,074.0	91.71	177.31	12,334.2	-4,747.4	595.6	2.13	2.08	-0.46	5.6	-1.9
	17,168.0	93.83	176.69	12,328.7	-4,841.2	600.5	2.35	2.26	-0.66	1.8	2.3
	17,217.0	92.77	176.78	12,326.9	-4,890.0	603.3	2.17	-2.16	0.18	-0.6	4.7
Last MWD Survey (MD=17217.0')											
	17,275.0	92.77	176.78	12,324.1	-4,947.8	606.6	0.00	0.00	0.00	-2.9	7.6
Projection to Bit (MD=17275.0') - PBHL(Savage 2 SC #708H)											

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,890.0	11,862.3	145.1	532.4	KOP, MD:11890.0', TVD:11862.3' N/S:145.1', E/W:532.4', INC:6.42
11,956.1	11,927.2	132.9	534.2	FTP Crossing, MD:11956.1', TVD:11927.2' N/S:132.9', E/W:534.2', INC:14.86
17,217.0	12,326.9	-4,890.0	603.3	Last MWD Survey (MD=17217.0')
17,275.0	12,324.1	-4,947.8	606.6	Projection to Bit (MD=17275.0')

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

Signed: Kaup Maddox 7/15/2020 Date

Date: _____



Lea County, NM (NAD 83 NME)

Savage 2 State Com #708H

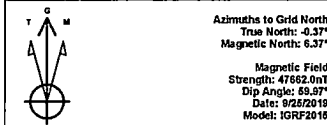
Plan #1

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: #708H

KB = 25 @ 3560.0usft
Northing 424888.00 Easting 755040.00
Latitude 32° 8' 58.357 N Longitude 103° 38' 33.729 W



To convert a Magnetic Direction to a Grid Direction, Add 0.37°
To convert a Magnetic Direction to a True Direction, Add 6.74° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1361.2	5.22	70.65	1360.9	3.9	11.2	2.00	70.65	-2.8	
4	7163.6	5.22	70.65	7139.1	179.1	509.8	0.00	0.00	-116.5	
5	7424.8	0.00	0.00	7400.0	183.0	521.0	2.00	180.00	-119.1	
6	11899.6	0.00	0.00	11874.8	183.0	521.0	0.00	0.00	-119.1	
7	12650.6	90.11	175.35	12352.3	-293.8	559.8	12.00	175.35	358.9	
8	12791.6	90.11	179.58	12352.0	-434.7	566.0	3.00	89.96	499.6	
9	13295.2	90.11	179.58	12351.0	-938.3	569.7	0.00	0.00	1000.0	TGT#1(Savage 2 SC #708H)
10	13301.0	90.23	179.58	12351.0	-944.1	569.7	2.00	-0.88	1005.7	
11	15308.2	90.23	179.58	12343.0	-2951.2	584.4	0.00	0.00	3000.0	TGT#2(Savage 2 SC #708H)
12	15319.8	90.48	179.58	12342.9	-2962.8	584.5	2.00	0.00	3011.5	
13	17306.1	90.46	179.58	12327.0	-4949.0	599.0	0.00	0.00	4985.1	PBHL(Savage 2 SC #708H)

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 #708H)	7266.0	183.0	521.0	425071.00	755561.00
PBHL(Savage 2 SC #708H)	12327.0	-4348.0	599.0	419539.00	755653.00
TGT#2(Savage 2 SC #708H)	12343.0	-2951.2	584.4	421958.00	755624.00
TGT#1(Savage 2 SC #708H)	12351.0	-938.3	569.7	423949.70	755605.68
FTP(Savage 2 SC #708H)	12353.0	133.0	561.0	425021.00	755601.00

