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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

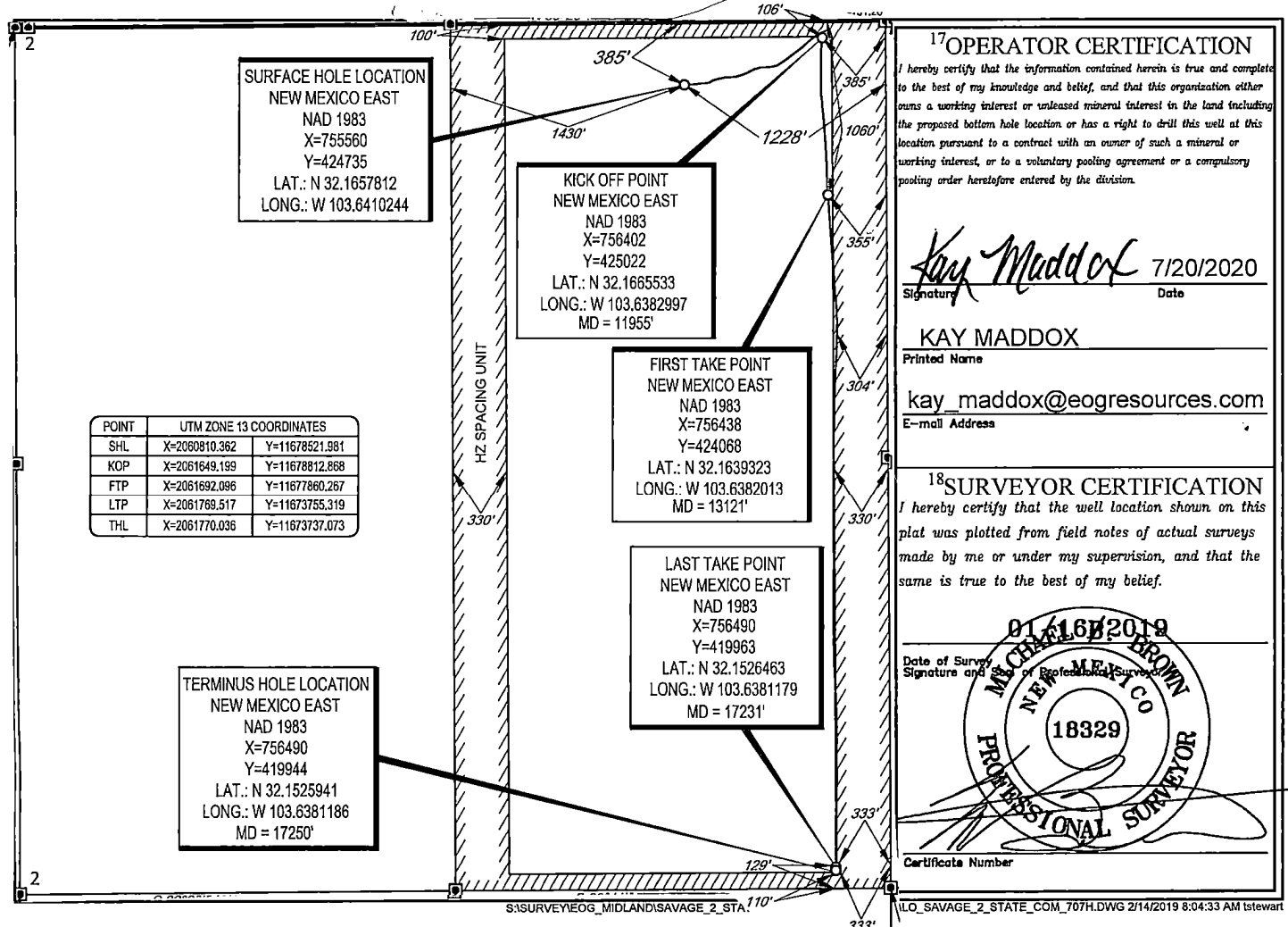
¹ API Number 30-025-46348	² Pool Code 98180	³ Pool Name WC025 G09 S253309P;UPR WOLFCAMP KZ
⁴ Property Code 321651	⁵ Property Name SAVAGE 2 STATE COM	⁶ Well Number #707H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3543'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	2	25-S	32-E	-	385'	NORTH	1228'	EAST	LEA

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	333'	EAST	LEA
¹² Dedicated Acres 322.76	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	SL					

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 ☒

API # 30-025-46348		
Operator Name: EOG RESOURCES, INC	Property Name: SAVAGE 2 STATE COM	Well Number 707H

Kick Off Point (KOP)

UL A	Section 2	Township 25S	Range 32E	Lot	Feet 106	From N/S NORTH	Feet 385	From E/W EAST	County LEA
Latitude 32.1665533					Longitude 103.6382997			NAD 1983	

First Take Point (FTP)

UL A	Section 2	Township 25S	Range 32E	Lot	Feet 1060	From N/S NORTH	Feet 355	From E/W EAST	County LEA
Latitude 32.1639323					Longitude 103.6382013			NAD 1983	

Last Take Point (LTP)

UL P	Section 2	Township 25S	Range 32E	Lot	Feet 129	From N/S SOUTH	Feet 333	From E/W EAST	County LEA
Latitude 32.1526463					Longitude 103.6381179			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

Rec'd 7/20/2020 - NMOCD

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#707H

OH

Design: OH

Final PVA Report

28 October, 2019

Final PVA Report

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Savage 2 State Com Well: #707H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: KB = 22' @ 3565.0usft MD Reference: KB = 22' @ 3565.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14		Well #707H KB = 22' @ 3565.0usft Grid Minimum Curvature 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: From: Map Position Uncertainty: 0.0 usft		Northing: 424,469.00 usft Easting: 751,845.00 usft Slot Radius: 13-3/16"		Latitude: 32° 9' 54.412 N Longitude: 103° 39' 10.929 W Grid Convergence: 0.36°	
Well #707H					
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 424,735.00 usft Easting: 755,560.00 usft Wellhead Elevation: usft		Latitude: 32° 9' 56.810 N Longitude: 103° 38' 27.691 W Ground Level: 3,543.0 usft	
Wellbore OH					
Magnetics Model Name IGRF2015 Sample Date 9/13/2019		Declination (°) 6.74 Dip Angle (°) 59.97 Field Strength (nT) 47,665.22012306			
Design OH					
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0					
Vertical Section: Depth From (TVD) (usft) 0.0 +N/-S (usft) 0.0 +E/-W (usft) 0.0 Direction (°) 168.97					

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3565.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 22' @ 3565.0usft
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program	From (usft)	To (usft)	Date	Survey (Wellbore)	Tool Name	Description
	141.0	11,651.0	10/28/2019	Leam MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1
	11,775.0	17,250.0		DnlTech MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1

Survey	MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	Hight 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
	141.0	0.62	135.97	141.0	-0.5	0.5	0.44	0.44	0.00	-0.8	0.0
	327.0	0.62	71.10	327.0	-0.9	2.2	0.36	0.00	-34.88	-1.8	-1.6
	513.0	0.26	66.18	513.0	-0.4	3.5	0.19	-0.19	-2.65	-3.0	-1.8
	699.0	0.44	179.21	699.0	-1.0	3.9	0.32	0.10	60.77	-1.0	3.9
	890.0	0.35	218.94	890.0	-2.2	3.6	0.15	-0.05	20.80	0.5	4.1
	1,031.0	0.35	199.07	1,031.0	-2.9	3.1	0.09	0.00	-14.09	-1.7	3.9
	1,175.0	0.18	229.31	1,175.0	-3.5	2.8	0.15	-0.12	21.00	-0.1	4.5
	1,365.0	4.22	74.62	1,364.8	-1.8	9.3	2.31	2.13	-81.42	-7.8	-4.2
	1,556.0	7.74	92.37	1,554.8	-0.5	29.0	2.06	1.84	9.29	-17.9	-2.1
	1,746.0	11.52	82.53	1,742.1	1.4	60.6	2.16	1.99	-5.18	-25.7	-9.2
	1,937.0	11.17	84.46	1,929.3	5.7	97.9	0.27	-0.18	1.01	-31.2	-11.4
	2,126.0	8.71	89.03	2,115.5	7.7	130.5	1.37	-1.30	2.42	-32.3	-13.7
	2,318.0	4.13	57.39	2,306.3	11.7	150.8	2.93	-2.39	-16.48	-8.4	-24.4
	2,508.0	4.13	59.33	2,495.8	18.9	162.5	0.07	0.00	1.02	8.4	-13.3
	2,699.0	8.18	69.17	2,685.6	27.2	181.1	2.18	2.12	5.15	18.5	-8.3
	2,890.0	11.08	76.73	2,873.9	36.3	211.7	1.65	1.52	3.96	18.6	-8.1
	3,080.0	10.90	82.70	3,060.5	42.7	247.3	0.61	-0.09	3.14	14.4	-10.8
	3,271.0	10.55	90.62	3,248.1	44.8	282.7	0.79	-0.18	4.15	9.8	-17.4
	3,462.0	9.67	80.77	3,436.2	47.2	316.0	1.01	-0.46	-5.16	12.4	-20.1
	3,653.0	9.50	70.05	3,624.5	55.2	346.6	0.94	-0.09	-5.61	17.3	-15.9

Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 83 NIME)	TVD Reference:	KB = 22' @ 3565.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 22' @ 3565.0usft
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
3,844.0	8.97	64.78	3,813.1	66.9	374.9	0.52	-0.28	-2.76	20.4	-8.1
4,034.0	8.44	58.62	4,000.9	80.5	400.2	0.56	-0.28	-3.24	23.6	3.4
4,225.0	10.82	66.01	4,189.2	95.1	428.6	1.40	1.25	3.87	24.5	9.1
4,416.0	10.99	82.70	4,376.8	104.7	463.0	1.65	0.09	8.74	23.7	4.1
4,606.0	12.57	90.97	4,562.8	106.6	501.7	1.22	0.83	4.35	17.4	-11.2
4,797.0	10.64	79.72	4,749.9	109.4	539.8	1.55	-1.01	-5.89	15.9	-22.7
4,988.0	6.86	61.79	4,938.7	118.0	567.2	2.42	-1.98	-9.39	30.3	-22.1
5,179.0	9.85	57.92	5,127.6	132.0	591.1	1.59	1.57	-2.03	40.4	-18.0
5,369.0	11.96	52.82	5,314.2	152.6	620.6	1.22	1.11	-2.68	41.7	-10.0
5,560.0	14.16	52.82	5,500.2	178.6	655.0	1.15	1.15	0.00	34.4	-4.1
5,750.0	14.51	52.12	5,684.3	207.3	692.3	0.21	0.18	-0.37	22.8	2.4
5,941.0	12.93	48.95	5,869.9	236.0	727.3	0.92	-0.83	-1.66	12.7	10.6
6,132.0	11.26	47.55	6,056.6	262.7	757.1	0.89	-0.87	-0.73	7.6	19.6
6,323.0	10.02	54.93	6,244.3	284.8	784.5	0.96	-0.65	3.86	11.0	25.5
6,514.0	10.29	53.88	6,432.3	304.4	811.9	0.17	0.14	-0.55	13.0	30.6
6,705.0	5.80	78.66	6,621.5	316.4	835.2	2.92	-2.35	12.97	34.4	19.3
6,895.0	3.61	66.99	6,810.8	320.4	850.1	1.22	-1.15	-5.09	51.2	19.0
7,086.0	2.99	69.70	7,001.5	324.3	860.4	0.33	-0.32	0.37	68.6	14.6
7,277.0	2.11	66.88	7,192.3	327.4	868.3	0.47	-0.46	-1.48	74.6	16.4
7,467.0	1.58	63.54	7,382.2	329.9	873.9	0.28	-0.28	-1.76	70.4	20.4
7,658.0	0.97	61.44	7,573.2	331.9	877.7	0.32	-0.32	-1.10	65.3	22.9
7,849.0	0.44	35.77	7,764.1	333.2	879.5	0.32	-0.28	-13.44	46.8	48.2
8,040.0	0.88	8.00	7,955.1	335.3	880.2	0.28	0.23	-14.54	16.8	64.1
8,230.0	0.53	351.30	8,145.1	337.6	880.2	0.21	-0.18	-8.79	-4.6	65.8
8,421.0	0.26	155.65	8,336.1	338.1	880.3	0.41	-0.14	86.05	22.6	-61.9
8,612.0	0.44	75.15	8,527.1	337.9	881.2	0.25	0.09	-42.15	64.0	11.7
8,802.0	0.44	68.64	8,717.1	338.3	882.5	0.03	0.00	-3.43	60.8	18.8

Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference: Well #707H								
Project: Lea County, NM (NAD 83 NME)		TVD Reference: KB = 22' @ 3565.0usft								
Site: Savage 2 State Com		MD Reference: KB = 22' @ 3565.0usft								
Well: #707H		North Reference: Grid								
Wellbore: OH		Survey Calculation Method: Minimum Curvature								
Design: OH		Database: EDM 5000.14								
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)
8,993.0	0.53	2.02	8,908.1	339.5	883.3	0.28	0.05	-34.88	5.7	62.6
9,184.0	1.41	10.99	9,099.1	342.7	883.7	0.47	0.46	4.70	12.2	61.1
9,374.0	1.14	191.51	9,289.1	343.1	883.8	1.34	-0.14	-94.46	-12.3	-61.0
9,565.0	1.85	162.16	9,480.0	338.3	884.4	0.54	0.37	-15.37	14.4	-60.1
9,756.0	2.81	217.18	9,670.9	331.6	882.5	1.21	0.50	28.81	-47.4	-43.8
9,946.0	3.43	195.91	9,860.6	322.5	878.1	0.69	0.33	-11.19	-38.3	-59.7
10,137.0	3.61	192.04	10,051.2	311.1	875.3	0.16	0.09	-2.03	-45.9	-62.5
10,328.0	2.29	218.94	10,242.0	302.2	871.6	0.98	-0.69	14.08	-78.4	-32.2
10,519.0	0.53	223.51	10,432.9	298.6	868.6	0.92	-0.92	2.39	-85.4	-25.6
10,697.0	1.85	53.35	10,610.9	299.7	870.4	1.33	0.74	-95.60	86.5	10.4
10,888.0	1.32	73.56	10,801.8	302.2	875.0	0.40	-0.28	10.58	79.7	-19.0
11,079.0	0.44	38.58	10,992.8	303.4	877.5	0.52	-0.46	-18.31	73.7	28.8
11,269.0	1.49	310.52	11,182.8	305.6	876.1	0.81	0.55	-46.35	-28.8	73.9
11,460.0	2.46	286.22	11,373.7	306.9	870.1	0.91	0.51	-23.19	-78.1	31.0
11,651.0	4.48	253.92	11,564.3	304.6	858.9	1.12	1.06	-6.44	-94.4	12.8
11,775.0	5.01	241.13	11,687.9	300.6	849.5	0.95	0.43	-10.31	-105.0	-9.5
11,870.0	4.40	218.45	11,782.6	295.8	843.6	2.04	-0.64	-23.87	-100.6	-51.0
11,915.2	6.52	193.53	11,827.6	291.9	841.9	6.93	4.68	-55.14	-73.7	-89.5
HL Crossing, MD:11915.2, TVD:11827.6, N/S:291.9, E/W:841.9, INC:6.52										
11,966.0	9.58	180.92	11,877.9	284.9	841.2	6.93	6.03	-24.82	-59.2	-104.3
KOP (Savage 2 State Com #707H)										
12,061.0	27.70	186.37	11,967.5	254.8	838.6	19.14	19.07	5.74	-90.5	-89.3
12,156.0	42.12	181.89	12,045.2	200.7	835.0	15.41	15.18	-4.72	-111.5	-106.3
12,252.0	46.78	181.01	12,113.7	133.5	833.4	4.90	4.85	-0.92	-133.5	-101.7
12,298.6	49.41	180.92	12,144.9	98.9	832.8	5.64	5.64	-0.20	-137.6	-98.5
FTP (Savage 2 State Com #707H)										
12,347.0	52.14	180.83	12,175.5	61.4	832.2	5.64	5.64	-0.18	-136.9	-95.3

Final PVA Report

Company:		EOG Resources - Midland			Local Co-ordinate Reference:					
Project:		Lea County, NM (NAD 83 NME)			TVD Reference:					
Site:		Savage 2 State Com			MD Reference:					
Well:		#707H			North Reference:					
Wellbore:		OH			Survey Calculation Method:					
Design:		OH			Database:					
Well #707H					KB = 22' @ 3565.0usft					
					KB = 22' @ 3565.0usft					
					Grid					
					Minimum Curvature					
					EDM 5000.14					
Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,442.0	58.74	178.20	12,229.3	-16.8	832.9	7.31	6.95	-2.77	-121.5	-89.0
12,489.0	61.11	175.56	12,252.9	-57.4	835.2	7.00	5.04	-5.62	-108.1	-84.0
12,538.0	63.40	173.63	12,275.7	-100.6	839.2	5.83	4.67	-3.94	-91.1	-75.8
12,585.0	65.69	174.24	12,295.9	-142.8	843.7	5.01	4.87	1.30	-72.6	-66.2
12,633.0	68.24	174.33	12,314.7	-186.7	848.1	5.32	5.31	0.19	-54.9	-57.3
12,680.0	68.68	175.74	12,331.9	-230.3	851.9	2.94	0.94	3.00	-38.1	-50.9
12,728.0	72.37	175.91	12,347.9	-275.4	855.2	7.69	7.69	0.35	-23.1	-46.2
12,775.0	77.03	175.91	12,360.3	-320.6	858.4	9.91	9.91	0.00	-11.3	-42.7
12,824.0	86.70	176.35	12,367.3	-369.0	861.7	19.75	19.73	0.90	-5.0	-39.6
12,919.0	88.99	177.23	12,370.8	-463.7	867.0	2.58	2.41	0.93	-1.3	-35.0
13,015.0	88.72	176.88	12,372.7	-559.6	872.0	0.46	-0.28	-0.36	0.8	-30.8
13,110.0	88.64	176.88	12,374.9	-654.4	877.1	0.08	-0.08	0.00	3.3	-26.3
13,206.0	88.02	175.82	12,377.7	-750.2	883.2	1.28	-0.65	-1.10	6.3	-20.9
13,301.0	87.23	176.00	12,381.7	-844.9	890.0	0.85	-0.83	0.19	10.5	-14.8
13,397.0	88.29	176.17	12,385.4	-940.6	896.5	1.12	1.10	0.18	14.4	-8.9
13,492.0	88.46	175.56	12,388.1	-1,035.3	903.4	0.67	0.18	-0.64	17.3	-2.8
13,587.0	87.76	175.47	12,391.2	-1,129.9	910.8	0.74	-0.74	-0.09	20.7	3.9
13,683.0	87.76	175.12	12,395.0	-1,225.5	918.7	0.36	0.00	-0.36	24.7	11.1
13,778.0	91.10	174.68	12,395.9	-1,320.1	927.1	3.55	3.52	-0.46	25.9	18.8
13,809.3	92.81	175.72	12,394.9	-1,351.3	929.8	6.39	5.47	3.31	24.9	21.2
TGI 1 (Savage 2 State Com #707H)										
13,873.0	96.29	177.84	12,389.8	-1,414.7	933.3	6.39	5.46	3.33	20.1	24.4
13,968.0	94.70	180.74	12,380.7	-1,509.2	934.5	3.47	-1.67	3.05	11.4	24.8
14,064.0	91.80	182.77	12,375.3	-1,605.0	931.6	3.69	-3.02	2.11	6.5	21.2
14,159.0	89.69	182.59	12,374.0	-1,699.9	927.1	2.23	-2.22	-0.19	5.8	16.0
14,255.0	89.69	182.15	12,374.6	-1,795.8	923.1	0.46	0.00	-0.46	6.7	11.3
14,350.0	89.60	181.62	12,375.2	-1,890.8	920.0	0.57	-0.09	-0.56	7.8	7.5

Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference:				Well #707H					
Project: Lea County, NM (NAD 83 NME)		TVD Reference:				KB = 22' @ 3565.0usft					
Site: Savage 2 State Com		MD Reference:				KB = 22' @ 3565.0usft					
Well: #707H		North Reference:				Grid					
Wellbore: OH		Survey Calculation Method:				Minimum Curvature					
Design: OH		Database:				EDM 5000.14					
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)	
14,445.0	88.99	181.10	12,376.3	-1,985.7	917.8	0.84	-0.64	-0.55	9.4	4.6	
14,541.0	89.96	180.83	12,377.2	-2,081.7	916.1	1.05	1.01	-0.28	10.8	2.2	
14,636.0	90.13	180.13	12,377.1	-2,176.7	915.3	0.76	0.18	-0.74	11.2	0.7	
14,731.0	89.87	180.39	12,377.1	-2,271.7	914.9	0.39	-0.27	0.27	11.6	-0.4	
14,827.0	89.69	180.83	12,377.5	-2,367.7	913.9	0.50	-0.19	0.46	12.5	-2.1	
14,827.7	89.69	180.82	12,377.5	-2,368.4	913.9	0.84	-0.09	-0.83	12.5	-2.1	
TGT 2 (Savage 2 State Com #707H)											
14,922.0	89.60	180.04	12,378.1	-2,462.7	913.2	0.84	-0.09	-0.83	13.7	-3.5	
15,018.0	90.22	179.87	12,378.2	-2,558.7	913.2	0.67	0.65	-0.18	14.5	-4.2	
15,113.0	89.25	179.43	12,378.7	-2,653.7	913.8	1.12	-1.02	-0.46	15.5	-4.3	
15,209.0	89.60	179.69	12,379.6	-2,749.7	914.6	0.45	0.36	0.27	17.1	-4.3	
15,304.0	88.37	178.55	12,381.3	-2,844.7	916.0	1.77	-1.29	-1.20	19.4	-3.5	
15,400.0	91.80	181.27	12,381.2	-2,940.6	916.2	4.56	3.57	2.83	19.9	-4.1	
15,495.0	92.33	180.74	12,377.8	-3,035.6	914.5	0.79	0.56	-0.56	17.1	-6.4	
15,590.0	91.89	180.22	12,374.3	-3,130.5	913.7	0.72	-0.46	-0.55	14.2	-7.9	
15,686.0	92.51	179.69	12,370.6	-3,226.4	913.8	0.85	0.65	-0.55	11.2	-8.6	
15,781.0	91.45	179.43	12,367.3	-3,321.4	914.5	1.15	-1.12	-0.27	8.5	-8.5	
15,876.0	90.66	178.72	12,365.5	-3,416.3	916.1	1.12	-0.83	-0.75	7.4	-7.7	
15,972.0	89.87	178.02	12,365.1	-3,512.3	918.8	1.10	-0.82	-0.73	7.6	-5.7	
16,049.2	89.72	177.74	12,365.4	-3,589.4	921.6	0.41	-0.19	-0.37	8.4	-3.4	
TGT 3 (Savage 2 State Com #707H)											
16,067.0	89.69	177.67	12,365.5	-3,607.2	922.4	0.41	-0.19	-0.37	8.6	-2.8	
16,163.0	91.28	178.02	12,364.6	-3,703.1	926.0	1.70	1.66	0.36	8.7	0.1	
16,258.0	91.98	177.58	12,361.9	-3,798.0	929.6	0.87	0.74	-0.46	6.8	3.0	
16,353.0	90.92	180.13	12,359.5	-3,893.0	931.5	2.91	-1.12	2.68	5.3	4.2	
16,449.0	89.87	180.13	12,358.9	-3,989.0	931.3	1.09	-1.09	0.00	5.5	3.3	
16,544.0	89.08	179.08	12,359.7	-4,084.0	931.9	1.38	-0.83	-1.11	7.3	3.3	

Final PVA Report

Company: EOG Resources - Midland		Local Co-ordinate Reference:				Well #707H					
Project: Lea County, NM (NAD 83 NME)		TVD Reference:				KB = 22' @ 3565.0usft					
Site: Savage 2 State Com		MD Reference:				KB = 22' @ 3565.0usft					
Well: #707H		North Reference:				Grid					
Wellbore: OH		Survey Calculation Method:				Minimum Curvature					
Design: OH		Database:				EDM 5000.14					
Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,639.0	89.43	179.69	12,361.0	-4,178.9	933.0	0.74	0.37	0.64	9.4	3.6	
16,735.0	91.19	181.27	12,360.5	-4,274.9	932.2	2.46	1.83	1.65	9.7	2.1	
16,830.0	89.25	180.31	12,360.1	-4,369.9	930.9	2.28	-2.04	-1.01	10.2	0.1	
16,925.0	92.07	180.39	12,359.0	-4,464.9	930.3	2.97	2.97	0.08	10.0	-1.2	
17,021.0	91.63	179.69	12,355.9	-4,560.8	930.2	0.86	-0.46	-0.73	7.8	-2.0	
17,116.0	91.36	179.95	12,353.4	-4,655.8	930.5	0.39	-0.28	0.27	6.2	-2.4	
17,193.0	88.37	180.22	12,353.6	-4,732.8	930.4	3.90	-3.88	0.35	7.1	-3.1	
Final MWD Survey (MD=17193.0')											
17,250.0	88.37	180.22	12,355.2	-4,789.8	930.2	0.00	0.00	0.00	9.2	-3.7	
Final Projection to Bit (MD=17250.0') - PBHL (Savage 2 State Com #707H)											

Design Annotations				Local Coordinates	
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
11,915.2	11,827.6	291.9	841.9	HL Crossing, MD=11915.2', TVD=11827.6', N/S=291.9', E/W=841.9', INC=6.52	
17,193.0	12,353.6	-4,732.8	930.4	Final MWD Survey (MD=17193.0')	
17,250.0	12,355.2	-4,789.8	930.2	Final Projection to Bit (MD=17250.0')	

Checked By: _____ Approved By: _____ Date: _____

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

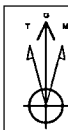
Kay Maddox 7/15/2020
Signed Date



Lea County, NM (NAD 83 NME)

Savage 2 State Com #707H

Plan #1



Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.37°

Magnetic Field
Strength: 47665.2nT
Dip Angle: 59.57°
Date: 9/13/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.37°
To convert a Magnetic Direction to a True Direction, Add 6.74° East
To convert a True Direction to a Grid Direction, Subtract 6.37°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: UG State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #707H

KB = 22' @ 3568.0usft 3543.0
Northing 424735.00 Easting 755560.00 Latitude 32° 9' 55.810 N Longitude 103° 38' 27.691 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFact	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.00	0.00	0.00	0.0	
3	1800.0	10.00	78.00	1797.5	9.0	42.6	2.00	78.00	-0.7	
4	4391.9	10.00	78.00	4350.0	102.6	482.8	0.00	0.00	-8.4	
5	4543.8	11.00	62.18	4499.4	112.1	508.5	2.00	-78.85	-12.8	
6	6961.6	11.00	62.18	6774.6	318.5	895.5	0.00	0.00	-140.5	
7	7411.3	0.00	179.58	7321.0	343.0	945.0	2.00	180.00	-155.7	
8	11985.8	0.00	179.58	11895.5	343.0	945.0	0.00	0.00	-155.7	KOP (Savage 2 State Com #707H)
9	12737.0	90.14	184.84	12373.0	-133.9	905.6	12.00	184.84	304.7	
10	12868.5	90.14	179.58	12372.6	-265.3	900.5	4.00	-90.00	432.6	
11	13954.4	90.14	179.58	12370.0	-1351.1	908.5	0.00	0.00	1499.9	TGT 1 (Savage 2 State Com #707H)
12	13961.5	90.28	179.58	12370.0	-1358.2	908.6	2.00	-1.20	1507.0	
13	14971.8	90.28	179.58	12365.0	-2368.5	916.0	0.00	0.00	2500.0	TGT 2 (Savage 2 State Com #707H)
14	14976.5	90.38	179.58	12365.0	-2373.2	916.1	2.00	0.01	2504.6	
15	16192.7	90.38	179.58	12357.0	-3589.3	925.0	0.00	0.00	3700.0	TGT 3 (Savage 2 State Com #707H)
16	16200.1	90.52	179.58	12356.9	-3598.8	925.1	2.00	0.00	3707.3	
17	17394.4	90.52	179.58	12346.0	-4791.0	933.9	0.00	0.00	4881.2	PBHL (Savage 2 State Com #707H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Savage 2 State Com #707H)	11895.5	343.0	945.0	425070.00	756526.00
TGT 1 (Savage 2 State Com #707H)	12370.0	-1351.1	908.5	423383.90	756465.51
TGT 2 (Savage 2 State Com #707H)	12365.0	-2368.5	916.0	423368.50	756475.02
TGT 3 (Savage 2 State Com #707H)	12357.0	-3589.3	925.0	421145.70	756465.03
PBHL (Savage 2 State Com #707H)	12346.0	-4791.0	933.9	419944.00	756453.90
FTP (Savage 2 State Com #707H)	12373.0	293.0	896.0	425029.00	756456.00

