

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 30-025-46333		² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPR WOLFCAMP
⁴ Property Code 321651	⁵ Property Name SAVAGE 2 STATE COM		⁶ Well Number 704H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3528'

¹⁰Surface Location

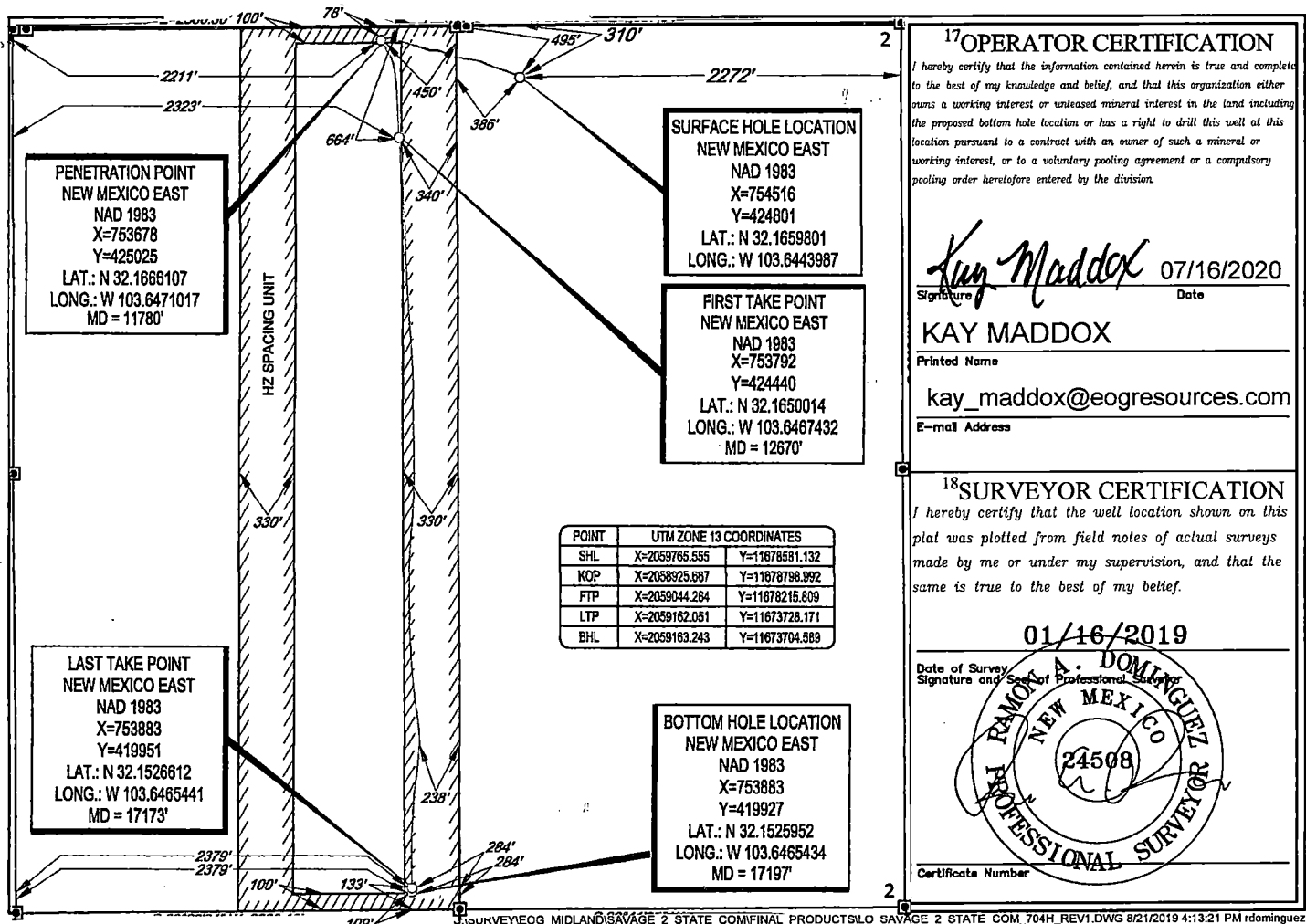
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	25-S	32-E	-	310'	NORTH	2272'	EAST	LEA

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
N	2	25-S	32-E	-	109'	SOUTH	2379'	WEST	LEA

¹² Dedicated Acres 160.19	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL 7937	NSL-7937
---	-------------------------------	----------------------------------	-------------------------------------	----------

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.



Rec'd 7/17/2020 - NMOCD



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#704H

OH

Design: OH

Midland PVA

09 October, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3553.0usft
Site:	Savage 2 State Corn	MD Reference:	KB = 25' @ 3553.0usft
Well:	#704H	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 Corn		
Site Position:		Northing:	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	#704H		
Well Position	+N/-S	0.0 usft	Latitude:
	+E/-W	0.0 usft	Longitude:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,528.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Field Strength
	IGRF2015	9/15/2019	(nT)
		6.74	59.97
			47,664.51291762

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	187.33

Survey Program	Date	10/9/2019	
From (usft)	To (usft)	Survey (Wellbore)	Description
168.0	17,197.0	Drilltech MWD (OH)	OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3553.0usft
MD Reference: KB = 25' @ 3553.0usft
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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
168.0	0.26	254.91	168.0	-0.1	-0.4	0.15	0.15	0.00	-0.4	0.0
225.0	0.53	256.85	225.0	-0.2	-0.7	0.47	0.47	3.40	-0.8	0.0
310.0	0.35	272.75	310.0	-0.3	-1.4	0.25	-0.21	18.71	-1.4	0.3
399.0	0.26	245.07	399.0	-0.3	-1.8	0.19	-0.10	-31.10	-1.8	-0.5
576.0	0.44	291.74	576.0	-0.3	-2.9	0.18	0.10	26.07	-2.6	1.3
764.0	1.14	316.00	764.0	1.3	-4.8	0.41	0.38	13.04	-4.3	2.5
857.0	1.14	325.93	857.0	2.8	-6.0	0.21	0.00	10.68	-5.6	3.4
1,006.0	1.06	316.61	1,005.9	5.0	-7.7	0.13	-0.05	-6.26	-8.9	2.2
1,125.0	0.88	308.70	1,124.9	6.4	-9.2	0.19	-0.15	-6.65	-11.1	0.7
1,219.0	2.55	303.25	1,218.9	8.0	-11.5	1.78	1.78	-5.80	-11.6	-1.0
1,312.0	4.66	297.98	1,311.7	10.9	-16.6	2.29	2.27	-5.67	-12.0	-3.2
1,406.0	7.83	293.76	1,405.1	15.2	-25.8	3.41	3.37	-4.49	-13.5	-5.2
1,500.0	9.15	289.72	1,498.1	20.3	-38.7	1.54	1.40	-4.30	-15.4	-7.0
1,594.0	8.79	291.30	1,590.9	25.5	-62.4	0.46	-0.38	1.68	-16.7	-7.1
1,688.0	8.35	293.41	1,683.9	30.8	-65.4	0.58	-0.47	2.24	-17.5	-7.6
1,781.0	10.46	289.10	1,775.6	36.2	-79.6	2.39	2.27	-4.63	-18.6	-9.6
1,875.0	12.13	289.54	1,867.8	42.3	-96.9	1.78	1.78	0.47	-23.6	-9.8
1,968.0	11.96	290.07	1,958.8	48.9	-115.2	0.22	-0.18	0.57	-29.7	-10.0
2,061.0	11.70	289.81	2,049.8	55.4	-133.1	0.29	-0.28	-0.28	-35.4	-10.6
2,155.0	11.08	289.54	2,141.9	61.7	-150.6	0.66	-0.66	-0.29	-40.4	-11.2
2,249.0	10.55	289.72	2,234.3	67.6	-167.2	0.56	-0.56	0.19	-44.6	-11.5
2,342.0	9.94	290.07	2,325.8	73.2	-182.8	0.66	-0.66	0.38	-47.8	-11.6
2,436.0	9.67	291.12	2,418.4	78.9	-197.8	0.34	-0.29	1.12	-50.5	-11.4
2,530.0	9.32	292.35	2,511.1	84.6	-212.2	0.43	-0.37	1.31	-52.7	-11.2
2,623.0	8.71	292.18	2,603.0	90.1	-225.7	0.66	-0.66	-0.18	-53.9	-12.3
2,717.0	8.09	291.39	2,696.0	95.2	-238.4	0.67	-0.66	-0.84	-53.9	-14.0



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #704H
MD Reference: KB = 25' @ 3553.0usft
North Reference: KB = 25' @ 3553.0usft
Survey Calculation Method: Grid
Database: Minimum Curvature
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)
	2,810.0	8.62	283.39	2,788.0	99.2	-251.3	1.37	0.57	-8.60	-51.5	-21.1
	2,904.0	9.58	279.17	2,880.8	102.1	-265.9	1.24	1.02	-4.49	-51.3	-23.3
	2,998.0	9.67	278.12	2,973.5	104.5	-281.4	0.21	0.10	-1.12	-53.2	-22.0
	3,091.0	11.70	279.26	3,064.8	107.1	-298.4	2.19	2.18	1.23	-57.6	-18.8
	3,184.0	11.43	278.38	3,156.0	109.9	-316.9	0.35	-0.29	-0.95	-62.8	-17.6
	3,276.0	11.34	277.06	3,246.1	112.4	-334.8	0.30	-0.10	-1.43	-67.6	-16.8
	3,369.0	10.02	278.29	3,337.5	114.7	-351.9	1.44	-1.42	1.32	-72.0	-12.9
	3,463.0	9.50	279.61	3,430.2	117.1	-367.7	0.60	-0.55	1.40	-74.8	-9.1
	3,556.0	9.67	276.80	3,521.9	119.3	-383.0	0.54	0.18	-3.02	-76.5	-10.5
	3,650.0	8.62	284.53	3,614.7	122.0	-397.7	1.72	-1.12	8.22	-78.6	1.7
	3,743.0	7.12	296.66	3,706.8	126.4	-409.6	2.40	-1.61	13.04	-75.8	17.4
	3,836.0	6.51	297.98	3,799.2	131.4	-419.4	0.68	-0.66	1.42	-73.2	16.9
	3,930.0	7.39	294.55	3,892.5	136.5	-429.6	1.03	0.94	-3.65	-71.9	10.7
	4,024.0	7.47	296.92	3,985.7	141.7	-440.5	0.34	0.09	2.52	-70.1	11.8
	4,117.0	5.63	292.27	4,078.1	146.2	-450.1	2.06	-1.98	-5.00	-68.0	4.6
	4,211.0	4.04	294.11	4,171.7	149.3	-457.4	1.70	-1.69	1.96	-62.2	5.4
	4,304.0	5.10	290.51	4,264.4	152.1	-464.3	1.18	1.14	-3.87	-56.4	0.7
	4,398.0	5.45	289.89	4,358.0	155.1	-472.4	0.38	0.37	-0.66	-51.4	-0.4
	4,492.0	6.51	282.69	4,451.5	157.8	-481.8	1.38	1.13	-7.66	-47.2	-6.1
	4,586.0	5.10	272.67	4,545.0	159.1	-491.2	1.84	-1.50	-10.66	-41.7	-11.5
	4,679.0	5.54	263.44	4,637.6	158.8	-499.7	1.03	0.47	-9.92	-35.7	-13.1
	4,773.0	8.97	270.64	4,730.9	158.4	-511.6	3.77	3.65	7.66	-35.9	-3.9
	4,867.0	9.06	274.95	4,823.7	159.1	-526.3	0.72	0.10	4.59	-37.6	2.4
	4,961.0	8.97	280.05	4,916.6	161.0	-540.9	0.86	-0.10	5.43	-38.5	8.2
	5,054.0	10.64	285.67	5,008.2	164.6	-556.3	2.07	1.80	6.04	-39.9	13.1
	5,148.0	11.17	288.93	5,100.5	169.9	-573.2	0.86	0.56	3.47	-43.4	15.6
	5,241.0	10.99	287.87	5,191.8	175.5	-590.2	0.29	-0.19	-1.14	-48.1	14.7



Midland PVA

Company:		EOG Resources - Midland		Local Co-ordinates Reference:		Well #704H				
Project:	Site:	Lea County, NM (NAD 83 NME)		TVD Reference:		KB = 25' @ 3553.0usft				
Well:	Wellbore:	Savage 2 State Com		MD Reference:		KB = 25' @ 3553.0usft				
Design:	Design:	#704H		North Reference:		Grid				
		OH		Survey Calculation Method:		Minimum Curvature				
		OH		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)
5,334.0	11.26	287.26	5,283.0	180.9	-607.3	0.32	0.29	-0.66	-52.9	14.2
5,428.0	11.08	287.17	5,375.2	186.3	-624.7	0.19	-0.19	-0.10	-57.6	14.3
5,521.0	11.43	287.52	5,466.4	191.7	-642.0	0.38	0.38	0.38	-62.3	14.8
5,615.0	11.34	288.31	5,558.6	197.5	-659.7	0.19	-0.10	0.84	-67.1	15.7
5,708.0	10.99	286.73	5,649.8	202.9	-676.9	0.50	-0.38	-1.70	-72.2	13.9
5,802.0	10.29	287.08	5,742.2	207.9	-693.5	0.75	-0.74	0.37	-75.9	14.6
5,896.0	9.94	286.82	5,834.8	212.7	-709.3	0.38	-0.37	-0.28	-78.9	14.4
5,990.0	9.76	285.06	5,927.4	217.2	-724.7	0.37	-0.19	-1.87	-81.9	12.5
6,084.0	9.15	293.06	6,020.1	222.1	-739.3	1.54	-0.65	8.51	-81.3	23.5
6,177.0	8.53	306.15	6,112.0	229.1	-751.7	2.26	-0.67	14.08	-75.3	38.6
6,271.0	7.47	321.71	6,205.1	238.0	-761.1	2.55	-1.13	16.55	-63.9	51.5
6,364.0	5.54	328.65	6,297.5	246.6	-767.2	2.24	-2.08	7.46	-57.4	50.8
6,457.0	3.43	346.85	6,390.2	253.1	-770.1	2.71	-2.27	19.57	-38.7	56.1
6,551.0	3.25	19.63	6,484.1	258.4	-769.9	2.01	-0.19	34.87	-7.7	56.0
6,645.0	3.43	30.44	6,577.9	263.3	-767.6	0.70	0.19	11.50	-5.4	43.7
6,738.0	3.25	27.98	6,670.7	268.1	-764.9	0.25	-0.19	-2.65	-14.8	30.0
6,831.0	2.46	27.36	6,763.6	272.2	-762.8	0.85	-0.85	-0.67	-21.8	16.6
6,925.0	2.37	30.97	6,857.5	275.6	-760.8	0.19	-0.10	3.84	-27.2	6.8
7,019.0	2.20	29.74	6,951.5	278.8	-758.9	0.19	-0.18	-1.31	-32.8	-2.2
7,112.0	1.06	25.34	7,044.4	281.2	-757.7	1.23	-1.23	-4.73	-35.9	-10.4
7,205.0	0.35	229.78	7,137.4	281.8	-757.5	1.49	-0.76	-167.27	38.8	-3.6
7,298.0	0.18	174.67	7,230.4	281.4	-757.7	0.31	-0.18	-59.26	24.8	29.7
7,335.7	0.39	166.40	7,268.1	281.3	-757.7	0.56	0.55	-21.92	20.1	32.9
Brushy Top(Savage 2 State Com #704H)										
7,392.0	0.70	163.24	7,324.4	280.7	-757.6	0.56	0.56	-5.62	17.7	34.0
7,485.0	0.88	177.31	7,417.4	279.5	-757.4	0.28	0.19	15.13	24.2	28.8
7,579.0	0.79	188.03	7,511.4	278.1	-757.4	0.19	-0.10	11.40	27.7	24.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Savage 2 State Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference: KB = 25' @ 3553.0usft
 MD Reference: KB = 25' @ 3553.0usft
 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)
	7,673.0	0.79	201.48	7,605.4	276.9	-757.7	0.20	0.00	14.31	31.3	17.0
	7,766.0	0.79	218.09	7,698.4	275.8	-758.4	0.25	0.00	17.86	33.6	7.5
	7,860.0	0.88	191.10	7,792.4	274.6	-758.9	0.42	0.10	-28.71	25.2	21.6
	7,954.0	0.88	194.36	7,886.4	273.2	-759.2	0.05	0.00	3.47	24.9	20.2
	8,048.0	0.70	180.73	7,980.4	271.9	-759.4	0.28	-0.19	-14.50	18.2	25.4
	8,141.0	1.06	175.20	8,073.3	270.5	-759.3	0.40	0.39	-5.95	14.2	26.9
	8,234.0	1.32	173.88	8,166.3	268.5	-759.2	0.28	0.28	-1.42	11.7	27.2
	8,327.0	1.23	180.47	8,259.3	266.5	-759.1	0.18	-0.10	7.09	12.7	25.8
	8,421.0	1.67	174.05	8,353.3	264.1	-758.9	0.50	0.47	-6.83	7.3	27.0
	8,514.0	1.58	181.96	8,446.2	261.5	-758.8	0.26	-0.10	8.51	8.4	25.9
	8,607.0	1.76	191.28	8,539.2	258.8	-759.1	0.35	0.19	10.02	9.7	24.4
	8,700.0	2.11	186.89	8,632.1	255.7	-759.6	0.41	0.38	-4.72	4.7	25.0
	8,887.0	2.37	191.98	8,819.0	248.5	-760.8	0.17	0.14	2.72	-0.4	24.8
	8,980.0	1.85	201.74	8,911.9	245.2	-761.8	0.68	-0.56	10.49	0.4	24.8
	9,073.0	1.06	209.91	9,004.9	243.1	-762.8	0.88	-0.85	8.78	1.6	24.7
	9,166.0	0.26	193.83	9,097.9	242.1	-763.3	0.87	-0.86	-17.29	-6.3	23.9
	9,260.0	1.32	252.19	9,191.9	241.6	-764.3	1.28	1.13	62.09	15.9	18.1
	9,353.0	1.14	242.08	9,284.9	240.8	-766.2	0.30	-0.19	-10.87	10.5	20.5
	9,447.0	1.85	255.00	9,378.8	240.0	-768.5	0.83	0.76	13.74	12.3	17.8
	9,540.0	2.02	259.75	9,471.8	239.3	-771.5	0.25	0.18	5.11	10.6	16.9
	9,634.0	1.32	262.12	9,565.7	238.9	-774.2	0.75	-0.74	2.52	8.6	16.5
	9,728.0	1.06	262.12	9,659.7	238.6	-776.2	0.28	-0.28	0.00	6.6	16.5
	9,821.0	0.70	260.98	9,752.7	238.4	-777.6	0.39	-0.39	-1.23	4.9	16.6
	9,915.0	0.79	223.54	9,846.7	237.8	-778.6	0.52	0.10	-39.83	-7.3	15.8
	10,009.0	1.23	232.76	9,940.7	236.8	-779.9	0.50	0.47	9.81	-6.3	16.8
	10,103.0	1.41	229.25	10,034.7	235.4	-781.5	0.21	0.19	-3.73	-9.5	16.4
	10,290.0	1.06	232.76	10,221.6	232.8	-784.7	0.19	-0.19	1.88	-12.5	17.1



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3553.0usft
MD Reference: KB = 25' @ 3553.0usft
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)
10,383.0	1.58	265.20	10,314.6	232.2	-786.6	0.96	0.56	34.88	-3.4	21.6
10,477.0	2.29	257.11	10,408.5	231.7	-789.7	0.81	0.76	-8.61	-9.6	20.7
10,570.0	2.55	253.33	10,501.5	230.7	-793.5	0.33	0.28	-4.06	-14.9	19.9
10,664.0	2.11	251.40	10,595.4	229.5	-797.2	0.48	-0.47	-2.05	-19.3	19.3
10,757.0	2.37	254.21	10,688.3	228.5	-800.6	0.30	0.28	3.02	-22.0	20.3
10,851.0	1.76	265.28	10,782.2	227.8	-804.0	0.77	-0.65	11.78	-21.0	24.5
10,944.0	0.79	251.57	10,875.2	227.5	-806.0	1.09	-1.04	-14.74	-28.3	18.5
11,038.0	0.79	236.37	10,969.2	226.9	-807.1	0.22	0.00	-16.17	-33.4	10.3
11,131.0	2.11	236.37	11,062.2	225.6	-809.1	1.42	1.42	0.00	-35.8	10.3
11,225.0	3.43	258.52	11,156.1	224.1	-813.3	1.78	1.40	23.56	-33.7	23.7
11,318.0	2.90	281.02	11,248.9	224.0	-818.3	1.44	-0.57	24.19	-27.0	35.8
11,412.0	2.64	299.47	11,342.8	225.5	-822.6	0.98	-0.28	19.63	-18.7	43.3
11,506.0	3.34	283.13	11,436.7	227.2	-827.1	1.17	0.74	-17.38	-34.9	35.7
11,599.0	2.55	271.26	11,529.6	227.9	-831.8	1.07	-0.85	-12.76	-46.2	27.2
11,655.0	2.37	249.73	11,585.5	227.5	-834.1	1.67	-0.32	-38.45	-55.3	7.8
11,736.0	2.29	239.44	11,666.5	226.1	-837.1	0.53	-0.10	-12.70	-59.1	-2.5
11,780.0	4.00	180.47	11,710.4	224.1	-837.9	7.81	3.89	-134.02	-30.3	-52.7
KOP, MD:11780.0', TVD:11710.4', N/S:224.1', E/W:-837.9', INC:4.00										
11,829.0	7.47	163.42	11,759.2	219.3	-837.0	7.81	7.08	-34.80	-17.0	-59.8
11,907.4	18.71	145.95	11,835.4	204.0	-828.5	15.04	14.34	-22.28	-6.2	-61.1
FTP Crossing, MD:11907.4', TVD:11835.4', N/S:204.0', E/W:-828.5', INC:18.71										
11,923.0	21.02	144.70	11,850.1	199.6	-825.4	15.04	14.80	-8.01	-7.1	-60.4
12,017.0	32.80	144.70	11,933.8	165.0	-800.9	12.53	12.53	0.00	-22.9	-52.5
12,110.0	44.14	156.12	12,006.5	114.6	-773.1	14.35	12.19	12.28	-47.9	-40.3
12,157.0	51.97	163.95	12,038.0	81.7	-761.3	20.74	16.66	-16.66	-61.8	-35.2
12,204.0	53.46	169.13	12,066.4	45.4	-752.7	9.32	3.17	11.02	-74.1	-34.3



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3553.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25' @ 3553.0usft
Well:	#704H	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)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
FTP(Savage 2 State Com #704H)	12,234.6	53.34	171.64	12,084.7	21.2	-748.6	6.62	-0.41	8.23	-79.8	-36.0
12,251.0	53.29		173.00	12,094.5	8.1	-746.8	6.62	-0.28	8.25	-82.2	-37.2
12,296.0	51.88		173.79	12,121.8	-27.4	-742.7	3.43	-3.13	1.76	-84.0	-43.2
12,343.0	55.57		175.90	12,149.6	-65.1	-739.3	8.64	7.85	4.49	-83.2	-48.4
12,390.0	60.06		176.51	12,174.7	-104.8	-736.7	9.62	9.55	1.30	-80.6	-54.4
12,483.0	63.66		178.01	12,218.5	-166.7	-732.8	4.12	3.87	1.61	-69.2	-63.4
12,577.0	67.62		175.90	12,257.3	-272.2	-728.2	4.68	4.21	-2.24	-45.8	-67.2
12,670.0	73.95		177.66	12,287.9	-359.8	-723.3	7.04	6.81	1.89	-19.0	-63.2
12,764.0	84.68		174.49	12,305.3	-451.8	-716.9	11.88	11.41	-3.37	-2.1	-67.2
12,860.0	89.96		175.46	12,309.8	-547.3	-708.5	5.59	5.50	1.01	2.2	-49.5
12,953.0	88.72		175.99	12,310.9	-640.0	-701.6	1.45	-1.33	0.57	3.6	-43.2
13,047.0	89.87		177.83	12,312.0	-733.9	-696.5	2.31	1.22	1.96	5.0	-38.9
13,140.0	88.99		177.39	12,312.9	-826.8	-692.7	1.06	-0.95	-0.47	6.2	-35.7
13,234.0	88.29		177.57	12,315.2	-920.7	-688.5	0.77	-0.74	0.19	8.7	-32.2
13,327.0	88.02		178.10	12,318.2	-1,013.6	-685.0	0.64	-0.29	0.57	12.0	-29.4
13,420.0	87.58		177.74	12,321.7	-1,106.4	-681.6	0.61	-0.47	-0.39	15.8	-26.7
13,513.0	88.37		177.22	12,325.0	-1,199.3	-677.6	1.02	0.85	-0.56	19.4	-23.3
13,607.0	87.49		176.43	12,328.4	-1,293.1	-672.4	1.26	-0.94	-0.84	23.1	-18.8
13,700.0	91.28		174.93	12,329.4	-1,385.8	-665.4	4.38	4.08	-1.61	24.3	-12.5
13,823.0	91.63		175.99	12,326.3	-1,508.3	-655.6	0.91	0.28	0.86	21.6	-3.7
13,887.0	93.39		176.25	12,323.5	-1,572.1	-651.3	2.78	2.75	0.41	18.9	0.2
13,980.0	92.42		175.99	12,318.8	-1,664.8	-645.0	1.08	-1.04	-0.28	14.5	5.8
14,073.0	91.63		177.04	12,315.5	-1,757.6	-639.4	1.41	-0.85	1.13	11.5	10.7
14,167.0	91.63		179.59	12,312.8	-1,851.5	-636.6	2.71	0.00	2.71	9.1	12.8
14,261.0	89.60		178.62	12,311.8	-1,945.5	-635.1	2.39	-2.16	-1.03	8.4	13.6
14,354.0	88.99		178.80	12,312.9	-2,038.4	-633.0	0.68	-0.66	0.19	9.8	15.0



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3553.0usft
MD Reference: KB = 25' @ 3553.0usft
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)
	14,448.0	89.60	178.98	12,314.1	-2,132.4	-631.2	0.68	0.65	0.19	11.2	16.1
	14,541.0	91.63	179.15	12,313.1	-2,225.4	-629.7	2.19	2.18	0.18	10.5	16.9
	14,634.0	93.39	178.98	12,309.0	-2,318.3	-628.2	1.90	1.89	-0.18	6.7	17.8
	14,728.0	92.24	180.73	12,304.4	-2,412.2	-627.9	2.23	-1.22	1.86	2.3	17.3
	14,761.0	92.05	181.12	12,303.6	-2,435.1	-628.3	1.90	-0.85	1.70	1.5	16.8
TGT#1(Savage 2 State Com #704H)											
	14,821.0	91.45	182.31	12,301.4	-2,505.1	-630.4	1.90	-0.85	1.70	-0.1	14.1
	14,914.0	87.58	184.42	12,302.2	-2,597.9	-635.9	4.74	-4.16	2.27	1.3	8.0
	15,008.0	85.74	184.25	12,307.7	-2,691.5	-643.0	1.97	-1.96	-0.18	7.4	0.2
	15,102.0	87.23	182.67	12,313.4	-2,785.1	-648.6	2.31	1.59	-1.68	13.8	-6.1
	15,194.0	91.28	182.67	12,314.6	-2,877.0	-652.9	4.40	4.40	0.00	15.6	-11.1
	15,286.0	87.67	181.96	12,315.5	-2,970.9	-656.7	3.91	-3.84	-0.76	17.1	-15.6
	15,381.0	89.34	179.77	12,317.9	-3,063.8	-658.1	2.96	1.80	-2.35	20.2	-17.7
	15,475.0	92.59	179.50	12,316.3	-3,157.8	-657.5	3.47	3.46	-0.29	19.2	-17.8
	15,568.0	91.28	178.54	12,313.2	-3,250.7	-655.9	1.75	-1.41	-1.03	16.7	-16.9
	15,661.0	90.92	177.04	12,311.4	-3,343.6	-652.3	1.66	-0.39	-1.61	15.6	-14.0
	15,755.0	89.34	175.90	12,311.2	-3,437.5	-646.5	2.07	-1.68	-1.21	16.0	-8.9
	15,848.0	92.07	176.51	12,310.1	-3,530.2	-640.4	3.01	2.94	0.66	15.5	-3.4
	15,942.0	87.49	174.23	12,310.4	-3,623.9	-632.8	5.44	-4.87	-2.43	16.5	3.4
	16,035.0	88.55	172.03	12,313.6	-3,716.2	-621.7	2.62	1.14	-2.37	20.4	13.8
	16,129.0	92.68	171.68	12,312.6	-3,809.2	-608.4	4.41	4.39	-0.37	20.2	26.3
	16,223.0	97.08	174.49	12,304.6	-3,902.1	-597.1	5.55	4.68	2.99	12.9	37.0
	16,316.0	98.22	180.47	12,292.2	-3,994.2	-593.0	6.49	1.23	6.43	0.7	40.5
	16,377.4	95.02	184.50	12,285.2	-4,055.0	-595.7	8.35	-5.22	6.56	-6.1	37.3
TGT#2(Savage 2 State Com #704H)											
	16,410.0	93.30	186.62	12,282.8	-4,087.4	-598.8	8.35	-5.26	6.51	-8.2	33.9
	16,504.0	88.37	186.80	12,281.4	-4,180.8	-609.8	5.25	-5.24	0.19	-8.5	22.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3553.0usft
MD Reference: KB = 25' @ 3553.0usft
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)
	16,597.0	86.53	185.83	12,285.6	-4,273.1	-620.0	2.24	-1.98	-1.04	-3.5	11.4
	16,691.0	86.00	183.37	12,291.7	-4,366.6	-627.6	2.67	-0.56	-2.62	3.4	3.2
	16,784.0	86.00	182.31	12,298.2	-4,459.3	-632.2	1.14	0.00	-1.14	10.7	-2.1
	16,877.0	89.25	181.35	12,302.0	-4,552.1	-635.1	3.64	3.49	-1.03	15.3	-5.7
	16,971.0	90.48	179.85	12,302.3	-4,646.1	-636.1	2.06	1.31	-1.60	16.3	-7.4
	17,002.0	88.90	179.06	12,302.4	-4,677.1	-635.8	5.70	-5.10	-2.55	16.8	-7.4
Last MWD Survey (MD=17002.0')											
	17,196.6	88.90	179.06	12,306.2	-4,871.7	-632.6	0.00	0.00	0.00	22.2	-5.6
PBHL(Savage 2 State Com #704H)											
	17,197.0	88.90	179.06	12,306.2	-4,872.0	-632.6	0.00	0.00	0.00	22.2	-5.6
Projection to Bit (MD=17197.0')											

Design Annotations				Local Coordinates			
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment			
11,780.0	11,710.4	224.1	-837.9	KOP, MD:11780.0', TVD:11710.4', N/S:224.1', EW:-837.9', INC:4.00			
11,907.4	11,835.4	204.0	-828.5	FTP Crossing, MD:11907.4', TVD:11835.4', N/S:204.0', EW:-828.5', INC:18.71			
17,002.0	12,302.4	-4,677.1	-635.8	Last MWD Survey (MD=17002.0')			
17,197.0	12,306.2	-4,872.0	-632.6	Projection to Bit (MD=17197.0')			

Checked By: _____

Approved By: _____

Date: _____

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

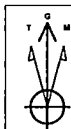
Signed Kay Maddox 7/15/2020
date



Lea County, NM (NAD 83 NME)

Savage 2 State Com #704H

Plan #2



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

Magnetic Field
Strength: 47864.6nT
Dip Angle: 65.97°
Date: 9/15/2018
Model: IGRF2016

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 0.37°

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: #704H

KB = 26' @ 3553.0usft 3528.0
Northing 424891.00 Easting 754616.00 Latitude 32° 9' 57.629 N Longitude 103° 38' 35.831 W

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	0.00	0.00	0.0	
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1515.3	8.31	287.93	1513.8	9.2	-28.6	2.00	287.93	-5.5	
4	6811.2	8.31	287.93	6754.2	244.8	-756.4	0.00	0.00	-146.2	
5	7226.4	0.00	0.00	7168.0	254.0	-785.0	2.00	180.00	-151.7	
6	11779.6	0.00	0.00	11721.2	254.0	-785.0	0.00	0.00	-151.7	
7	12229.6	45.00	159.55	12126.3	96.8	-726.4	10.00	159.55	-3.3	
8	12714.9	90.17	179.58	12308.2	-332.6	-660.6	10.00	27.20	414.2	
9	14817.0	90.17	179.58	12302.0	-2434.6	-645.1	0.00	0.00	2497.0	TGT#1(Savage 2 State Com #704H)
10	14826.0	90.38	179.58	12301.9	-2445.7	-645.0	2.00	-0.02	2508.0	
11	16435.8	90.39	179.58	12291.0	-4053.3	-633.1	0.00	0.00	4101.0	TGT#2(Savage 2 State Com #704H)
12	16440.8	90.49	179.58	12291.0	-4058.3	-633.0	2.00	0.00	4105.9	
13	17254.5	90.49	179.58	12284.0	-4872.0	-627.0	0.00	0.00	4912.2	PBHL(Savage 2 State Com #704H)

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 State Com #704H)	7288.0	254.0	-785.0	425055.00	753731.00
PBHL(Savage 2 State Com #704H)	12284.0	-4872.0	-627.0	419928.00	753889.00
TGT#1(Savage 2 State Com #704H)	12291.0	-4053.3	-631.1	420747.70	753882.93
TGT#2(Savage 2 State Com #704H)	12302.0	-2434.6	-645.1	422366.40	753870.93
FTP(Savage 2 State Com #704H)	12310.0	294.0	-655.0	425006.00	753851.00

