

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46339		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 722H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3529'

¹⁰Surface Location

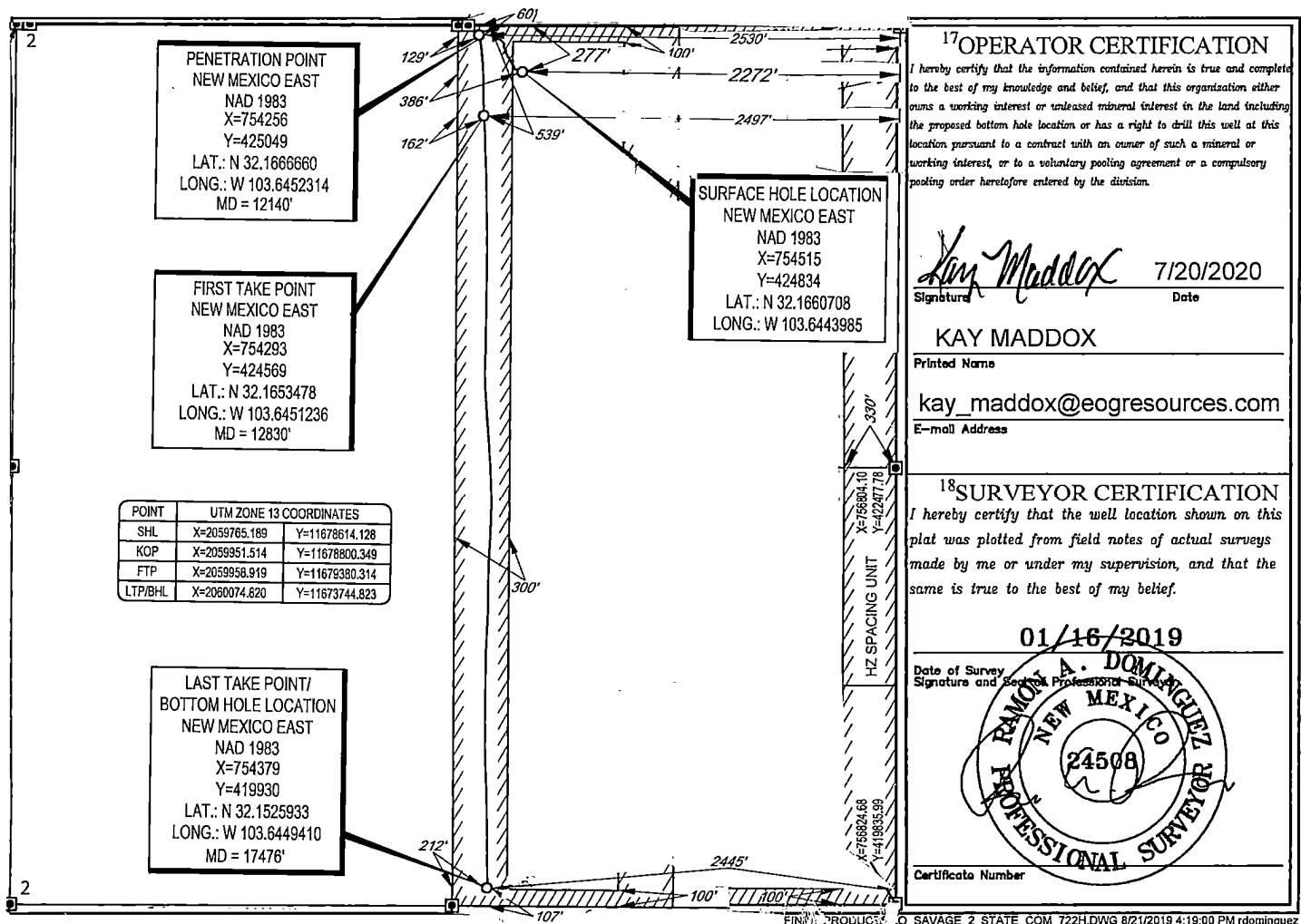
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	25-S	32-E	-	277'	NORTH	2272'	EAST	LEA

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
0	2	25-S	32-E	-	107'	SOUTH	2445'	EAST	LEA

¹² Dedicated Acres 322.76	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-7938
---	-------------------------------	----------------------------------	-------------------------------------

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 # 30-025-46339		
Operator Name: EOG RESOURCES, INC	Property Name: SAVAGE 2 STATE COM	Well Number 722H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	2	25S	32E		60	NORTH	2530	EAST	LEA
Latitude 32.1666660					Longitude 103.6452314				NAD 1983

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	2	25S	32E		539	NORTH	2497	EAST	LEA
Latitude 32.1653478					Longitude 103.6451236				NAD 1983

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	2	25S	32E		107	SOUTH	2445	EAST	LEA
Latitude 32.1526964					Longitude 103.6479770				NAD 1983

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



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#722H

OH

Design: OH

Midland PVA

19 October, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #722H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3554.0usft
Site:	Savage 2 State Corn	MD Reference:	KB = 25 @ 3554.0usft
Well:	#722H	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	Northing:	424,469.00 usft	Latitude:	32° 9' 54.412 N
Site Position:		Easting:	751,845.00 usft	Longitude:	103° 39' 10.929 W
From:	Map	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °
Position Uncertainty:	0.0 usft				

Well	#722H	Northing:	424,834.00 usft	Latitude:	32° 9' 57.856 N
Well Position	+N/-S	Easting:	754,515.00 usft	Longitude:	103° 38' 39.840 W
Position Uncertainty	+E/-W	Wellhead Elevation:	usft	Ground Level:	3,529.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	8/22/2019	6.75	59.97	47,671.30780376

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	181.82

Survey Program	Date	10/19/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
168.0	17,476.0	Drilltech MWD (OH)	MWD	OWSG MWD - Standard	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:				Well #722H				
Project: Lea County, NM (NAD 83 NME)		TVD Reference:				KB = 25 @ 3554.0usft				
Site: Savage 2 State Com		MD Reference:				KB = 25 @ 3554.0usft				
Well: #722H		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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
168.0	1.32	292.09	168.0	0.7	-1.8	0.79	0.79	0.00	-1.9	0.0
225.0	1.58	288.93	225.0	1.2	-3.1	0.48	0.46	-5.54	-3.4	-0.1
310.0	1.67	285.76	309.9	1.9	-5.4	0.15	0.11	-3.73	-5.8	-0.4
399.0	1.67	290.42	398.9	2.8	-7.9	0.15	0.00	5.24	-8.4	0.2
486.0	1.32	298.15	485.9	3.7	-10.0	0.46	-0.40	8.89	-10.5	1.5
578.0	1.58	282.25	577.8	4.4	-12.2	0.52	0.28	-17.28	-12.8	-1.8
671.0	1.58	283.48	670.8	5.0	-14.7	0.04	0.00	1.32	-15.4	-1.5
764.0	1.76	287.78	763.8	5.7	-17.3	0.24	0.19	4.62	-18.2	-0.2
857.0	1.76	293.67	856.7	6.8	-19.9	0.19	0.00	6.33	-21.0	1.8
950.0	1.58	295.52	949.7	7.9	-22.4	0.20	-0.19	1.99	-23.6	2.5
1,013.0	1.58	288.57	1,012.7	8.5	-24.0	0.30	0.00	-11.03	-25.5	-0.4
1,213.0	0.62	301.14	1,212.6	10.0	-27.5	0.49	-0.48	6.28	-28.7	5.7
1,312.0	0.44	298.77	1,311.6	10.4	-28.3	0.18	-0.18	-2.39	-29.9	4.5
1,406.0	0.53	291.21	1,405.6	10.8	-29.1	0.12	0.10	-8.04	-31.0	0.5
1,500.0	0.70	309.58	1,499.6	11.3	-29.9	0.27	0.18	19.54	-30.2	10.4
1,594.0	0.70	308.70	1,593.6	12.0	-30.8	0.01	0.00	-0.94	-31.5	9.9
1,688.0	0.62	310.81	1,687.6	12.7	-31.6	0.09	-0.09	2.24	-32.2	11.1
1,781.0	0.53	279.08	1,780.6	13.1	-32.4	0.35	-0.10	-34.12	-34.1	-7.8
1,875.0	0.62	261.15	1,874.6	13.1	-33.4	0.21	0.10	-19.07	-31.0	-18.1
1,968.0	0.79	262.65	1,967.6	12.9	-34.5	0.18	0.18	1.61	-32.6	-17.2
2,061.0	0.70	249.20	2,060.6	12.6	-35.7	0.21	-0.10	-14.46	-28.8	-24.5
2,155.0	0.62	248.23	2,154.6	12.2	-36.7	0.09	-0.09	-1.03	-29.5	-25.0
2,249.0	0.53	258.78	2,248.6	12.0	-37.6	0.15	-0.10	11.22	-34.5	-19.1
2,342.0	0.44	243.84	2,341.6	11.7	-38.3	0.17	-0.10	-16.06	-29.2	-27.4
2,436.0	3.96	330.15	2,435.5	14.4	-40.3	4.21	3.74	91.82	-32.5	27.8
2,530.0	6.42	329.36	2,529.1	21.7	-44.5	2.62	2.62	-0.84	-41.2	27.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #722H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3554.0usft
MD Reference: KB = 25 @ 3554.0usft
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)
	2,623.0	7.47	332.70	2,621.4	31.6	-50.0	1.21	1.13	3.59	-48.4	29.4
	2,717.0	6.95	331.11	2,714.7	42.0	-55.5	0.59	-0.55	-1.69	-55.5	26.6
	2,810.0	6.51	332.08	2,807.0	51.6	-60.7	0.49	-0.47	1.04	-58.3	25.9
	2,903.0	6.24	330.76	2,899.4	60.6	-65.6	0.33	-0.29	-1.42	-61.2	22.8
	2,998.0	5.72	328.39	2,993.9	69.2	-70.6	0.61	-0.55	-2.49	-63.8	18.7
	3,091.0	5.28	327.69	3,086.5	76.7	-75.4	0.48	-0.47	-0.75	-65.0	16.7
	3,184.0	5.10	323.12	3,179.1	83.7	-80.1	0.48	-0.19	-4.91	-66.4	10.6
	3,276.0	5.10	324.87	3,270.7	90.3	-84.9	0.17	0.00	1.90	-66.2	11.9
	3,369.0	4.84	324.17	3,363.4	96.8	-89.6	0.29	-0.28	-0.75	-66.3	10.4
	3,462.0	4.75	330.15	3,456.1	103.4	-93.8	0.55	-0.10	6.43	-64.7	16.1
	3,556.0	3.78	330.94	3,549.8	109.4	-97.3	1.03	-1.03	0.84	-63.4	15.3
	3,650.0	3.08	0.73	3,643.7	114.7	-98.7	2.01	-0.74	31.69	-46.6	40.9
	3,743.0	4.57	5.74	3,736.4	120.9	-98.3	1.64	1.60	5.39	-43.5	39.1
	3,836.0	5.01	333.57	3,829.1	126.2	-99.8	2.89	0.47	-34.59	-56.9	6.1
	3,930.0	5.10	326.02	3,922.8	135.3	-103.9	0.71	0.10	-8.03	-57.3	-2.9
	4,024.0	4.48	324.61	4,016.4	141.8	-108.4	0.67	-0.66	-1.50	-56.9	-5.2
	4,117.0	2.81	343.07	4,109.3	146.9	-111.2	2.17	-1.80	19.85	-54.0	10.9
	4,211.0	1.85	56.28	4,203.2	150.0	-110.6	3.07	-1.02	77.88	-8.4	48.9
	4,304.0	2.37	2.40	4,296.1	152.7	-109.2	2.12	0.56	-57.94	-41.3	15.3
	4,398.0	2.20	358.98	4,390.1	156.5	-109.2	0.23	-0.18	-3.64	-39.5	7.5
	4,492.0	1.93	51.27	4,484.0	159.3	-108.0	1.95	-0.29	55.63	-21.3	29.1
	4,586.0	1.49	352.38	4,578.0	161.5	-106.9	1.83	-0.47	-62.65	-31.1	-9.0
	4,679.0	3.43	336.83	4,670.9	165.2	-108.2	2.19	2.09	-16.72	-23.7	-19.7
	4,773.0	5.28	318.63	4,764.6	171.1	-112.1	2.43	1.97	-19.36	-15.2	-26.9
	4,867.0	4.92	313.98	4,858.2	177.1	-117.9	0.58	-0.38	-4.95	-13.2	-27.7
	4,961.0	4.48	309.76	4,951.9	182.2	-123.6	0.60	-0.47	-4.49	-10.7	-27.5
	5,054.0	4.48	307.73	5,044.6	186.8	-129.3	0.17	0.00	-2.18	-9.0	-26.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #722H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3554.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3554.0usft
Well:	#722H	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)
	5,148.0	4.22	307.03	5,138.4	191.1	-135.0	0.28	-0.28	-0.74	-7.8	-24.8
	5,241.0	5.01	323.99	5,231.1	196.5	-140.1	1.69	0.85	18.24	-14.0	-21.1
	5,334.0	5.28	327.07	5,323.7	203.3	-144.8	0.42	0.29	3.31	-15.4	-21.2
	5,428.0	4.75	324.79	5,417.3	210.2	-149.4	0.60	-0.56	-2.43	-14.6	-22.8
	5,521.0	4.66	322.94	5,510.0	216.3	-153.9	0.19	-0.10	-1.99	-13.4	-23.9
	5,615.0	4.48	329.09	5,603.7	222.5	-158.1	0.56	-0.19	6.54	-15.2	-23.3
	5,709.0	4.13	330.94	5,697.5	228.6	-161.6	0.40	-0.37	1.97	-15.0	-24.4
	5,802.0	4.48	354.76	5,790.2	235.2	-163.6	1.94	0.38	25.61	-23.7	-19.6
	5,896.0	4.40	358.01	5,883.9	242.4	-164.0	0.28	-0.09	3.46	-25.6	-23.2
	5,990.0	4.31	353.97	5,977.7	249.5	-164.5	0.34	-0.10	-4.30	-25.3	-29.1
	6,084.0	3.87	349.04	6,071.4	256.2	-165.5	0.60	-0.47	-5.24	-26.0	-33.5
	6,177.0	3.69	349.31	6,164.2	262.2	-166.6	0.19	-0.19	0.29	-31.4	-33.8
	6,271.0	3.17	15.06	6,258.0	267.7	-166.5	1.71	-0.55	27.39	-48.3	-15.5
	6,364.0	1.58	63.66	6,351.0	270.7	-164.7	2.62	-1.71	52.26	-46.5	28.0
	6,458.0	1.41	116.66	6,444.9	270.8	-162.5	1.43	-0.18	56.38	-7.6	55.0
	6,551.0	1.32	106.90	6,537.9	270.0	-160.5	0.27	-0.10	-10.49	-19.0	52.8
	6,645.0	1.32	104.62	6,631.9	269.4	-158.4	0.06	0.00	-2.43	-23.3	51.9
	6,738.0	1.14	94.60	6,724.9	269.0	-156.4	0.30	-0.19	-10.77	-33.9	46.9
	6,832.0	0.88	97.50	6,818.9	268.9	-154.8	0.28	-0.28	3.09	-33.2	48.6
	6,925.0	0.88	117.36	6,911.8	268.4	-153.4	0.33	0.00	21.35	-16.1	57.2
	7,019.0	0.79	115.61	7,005.8	267.8	-152.2	0.10	-0.10	-1.86	-19.2	56.7
	7,112.0	0.79	128.61	7,098.8	267.1	-151.1	0.19	0.00	13.98	-7.2	59.7
	7,205.0	0.35	150.41	7,191.8	266.5	-150.5	0.52	-0.47	23.44	14.6	58.3
	7,218.4	0.36	154.23	7,205.2	266.4	-150.4	0.19	0.07	28.62	18.4	57.2
	Brushty Top(Savage 2 SC #722H)										
	7,299.0	0.44	172.91	7,285.8	265.9	-150.3	0.19	0.10	23.16	35.2	48.4
	7,392.0	0.44	174.23	7,378.8	265.2	-150.2	0.01	0.00	1.42	35.6	47.6



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:									
Project: Lea County, NM (NAD 83 NME)		Well #722H									
Site: Savage 2 State Com		TVD Reference: KB = 25 @ 3554.0usft									
Well: #722H		MD Reference: KB = 25 @ 3554.0usft									
Wellbore: OH		Grid: Minimum Curvature									
Design: OH		Survey Calculation Method: EDM-5000.14									
Database:											
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)	
7,579.0	0.35	153.75	7,565.8	264.0	-149.9	0.09	-0.05	-10.95	15.4	56.8	
7,673.0	0.53	195.15	7,659.8	263.3	-149.9	0.38	0.19	44.04	48.5	32.6	
7,766.0	0.44	187.32	7,752.8	262.5	-150.0	0.12	-0.10	-8.42	42.8	38.8	
7,860.0	0.62	202.79	7,846.8	261.7	-150.3	0.24	0.19	16.46	50.8	26.1	
7,954.0	0.70	202.97	7,940.8	260.7	-150.7	0.09	0.09	0.19	49.7	25.9	
8,141.0	1.06	193.74	8,127.8	258.0	-151.6	0.21	0.19	-4.94	42.1	33.4	
8,234.0	1.23	198.66	8,220.8	256.2	-152.1	0.21	0.18	5.29	42.9	29.7	
8,327.0	1.32	210.18	8,313.7	254.3	-152.9	0.29	0.10	12.39	46.0	20.8	
8,514.0	1.41	222.13	8,500.7	250.7	-155.6	0.16	0.05	6.39	44.9	11.2	
8,607.0	1.49	228.63	8,593.6	249.1	-157.2	0.20	0.09	6.99	43.5	6.2	
8,700.0	1.67	228.90	8,686.6	247.4	-159.2	0.19	0.19	0.29	41.0	6.0	
8,793.0	1.58	232.76	8,779.6	245.7	-161.2	0.15	-0.10	4.15	38.6	3.3	
8,887.0	1.76	242.70	8,873.5	244.3	-163.5	0.36	0.19	10.57	35.9	-3.2	
8,980.0	1.76	255.97	8,966.5	243.3	-166.2	0.44	0.00	14.27	31.4	-11.0	
9,073.0	1.58	262.12	9,059.5	242.8	-168.8	0.27	-0.19	6.61	27.4	-14.1	
9,166.0	1.67	254.91	9,152.4	242.2	-171.4	0.24	0.10	-7.75	26.3	-10.8	
9,260.0	1.85	249.02	9,246.4	241.3	-174.2	0.27	0.19	-6.27	24.4	-8.1	
9,353.0	1.76	254.39	9,339.3	240.4	-176.9	0.21	-0.10	5.77	20.6	-10.2	
9,447.0	1.67	256.06	9,433.3	239.7	-179.7	0.11	-0.10	1.78	17.5	-10.8	
9,540.0	1.93	270.56	9,526.2	239.4	-182.5	0.56	0.28	15.59	11.3	-14.5	
9,634.0	1.85	279.17	9,620.2	239.6	-185.6	0.31	-0.09	9.16	5.9	-15.8	
9,728.0	2.29	284.27	9,714.1	240.3	-188.9	0.51	0.47	5.43	1.1	-16.1	
9,821.0	2.55	278.29	9,807.0	241.1	-192.8	0.39	0.28	-6.43	-1.1	-16.1	
9,915.0	2.64	263.88	9,900.9	241.2	-197.0	0.70	0.10	-15.33	-1.3	-16.4	
10,009.0	2.73	262.03	9,994.8	240.6	-201.4	0.13	0.10	-1.97	-5.1	-16.5	
10,103.0	2.64	261.86	10,088.7	240.0	-205.7	0.10	-0.10	-0.18	-9.5	-16.5	
10,196.0	2.37	254.91	10,181.7	239.2	-209.7	0.44	-0.29	-7.47	-11.5	-17.8	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:										Well #722H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference:										KB = 25 @ 3554.0usft	
Site: Savage 2 State Com		MD Reference:										KB = 25 @ 3554.0usft	
Well: #722H		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)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)			
10,289.0	2.46	258.78	10,274.6	238.3	-213.5	0.20	0.10	4.16	-16.6	-16.9			
10,477.0	1.58	268.27	10,462.5	237.5	-220.1	0.50	-0.47	5.05	-25.7	-13.2			
10,570.0	1.14	261.15	10,555.4	237.3	-222.3	0.51	-0.47	-7.66	-26.0	-16.5			
10,664.0	1.49	269.41	10,649.4	237.1	-224.4	0.42	0.37	8.79	-30.3	-12.4			
10,757.0	1.76	283.39	10,742.4	237.4	-227.0	0.51	0.29	15.03	-35.0	-4.5			
10,851.0	2.20	266.60	10,836.3	237.7	-230.2	0.77	0.47	-17.86	-35.4	-14.8			
10,944.0	2.02	261.33	10,929.2	237.3	-233.6	0.28	-0.19	-5.67	-37.3	-18.1			
11,038.0	2.11	265.20	11,023.2	236.9	-237.0	0.18	0.10	4.12	-41.8	-15.5			
11,131.0	2.55	262.47	11,116.1	236.5	-240.7	0.49	0.47	-2.94	-44.8	-17.5			
11,225.0	2.64	263.70	11,210.0	236.0	-245.0	0.11	0.10	1.31	-49.4	-16.5			
11,318.0	1.32	277.15	11,303.0	235.9	-248.2	1.50	-1.42	14.46	-55.1	-4.1			
11,412.0	2.11	303.52	11,396.9	237.0	-250.7	1.17	0.84	28.05	-53.9	21.3			
11,506.0	2.73	299.03	11,490.8	239.0	-254.1	0.69	0.66	-4.78	-59.3	16.9			
11,599.0	3.25	280.66	11,583.7	240.6	-258.6	1.17	0.56	-19.75	-66.4	-3.4			
11,737.0	3.87	248.41	11,721.4	239.6	-266.8	1.50	0.45	-23.37	-62.3	-40.4			
11,831.0	3.25	156.83	11,815.3	236.0	-268.7	5.45	-0.66	-97.43	39.4	-64.4			
11,924.0	4.04	153.05	11,908.1	230.6	-266.2	0.89	0.85	-4.06	37.6	-61.8			
12,018.0	4.48	156.04	12,001.9	224.3	-263.2	0.52	0.47	3.18	27.4	-63.5			
12,111.0	4.40	156.21	12,094.6	217.7	-260.3	0.09	-0.09	0.18	20.6	-63.3			
12,140.0	7.67	159.76	12,123.4	214.9	-259.1	11.35	11.29	12.23	15.7	-63.6			
KOP, MD:12140.0', TVD:12123.4', N/S:214.9', E/W:-259.1', INC:7.67													
12,205.0	15.04	162.10	12,187.1	202.8	-255.0	11.35	11.33	3.61	11.0	-60.6			
12,288.7	24.92	170.51	12,265.7	175.0	-248.8	12.26	11.80	10.04	0.8	-55.6			
FTP Crossing, MD:12288.7', TVD:12265.7', N/S:175.0', E/W:-248.8', INC:24.92													
12,298.0	26.03	171.06	12,274.1	171.0	-248.1	12.26	11.99	5.95	0.1	-55.0			
12,391.0	37.20	173.97	12,353.2	122.8	-242.0	12.12	12.01	3.13	-3.6	-49.2			



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Corn
Well: #722H
Wellbore: OH
Design: OH

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

Well #722H
KB = 25 @ 3554.0usft
KB = 25 @ 3554.0usft
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)
FTP(Savage 2 SC #722H)	12,484.0	51.62	175.64	12,419.4	58.1	-236.2	15.56	15.51	1.80	-8.2	-43.9
	12,578.0	67.80	177.20	12,466.7	-22.6	-231.3	17.27	17.21	1.66	-18.5	-39.5
	12,671.0	72.72	179.41	12,498.1	-110.1	-228.7	5.74	5.29	2.38	-26.7	-37.2
	12,766.0	74.83	177.39	12,524.6	-201.3	-226.2	3.02	2.22	-2.13	-19.9	-35.6
	12,860.0	78.08	176.34	12,546.7	-292.5	-221.2	3.62	3.46	-1.12	-0.6	-31.0
	12,953.0	88.64	176.95	12,557.4	-384.6	-215.8	11.37	11.35	0.66	10.5	-26.3
	13,047.0	88.90	177.74	12,559.4	-478.5	-211.4	0.88	0.28	0.84	13.2	-22.6
	13,140.0	88.37	175.64	12,561.6	-571.3	-206.0	2.33	-0.57	-2.26	16.2	-17.9
	13,234.0	91.63	178.98	12,561.6	-685.1	-201.6	4.96	3.47	3.55	16.9	-14.2
	13,327.0	92.33	178.10	12,558.4	-758.0	-199.3	1.21	0.75	-0.95	14.5	-12.6
	13,420.0	91.36	178.01	12,555.4	-850.9	-196.1	1.05	-1.04	-0.10	12.2	-10.1
	13,514.0	87.32	178.36	12,556.5	-944.9	-193.1	4.31	-4.30	0.37	14.1	-7.8
	13,607.0	91.36	179.94	12,557.6	-1,037.8	-191.7	4.66	4.34	1.70	15.9	-7.1
	13,700.0	90.48	180.21	12,556.1	-1,130.8	-191.9	0.99	-0.95	0.29	15.1	-7.9
	13,793.0	91.63	180.38	12,554.4	-1,223.8	-192.3	1.25	1.24	0.18	14.2	-9.1
	13,887.0	88.29	178.71	12,554.4	-1,317.8	-191.6	3.97	-3.55	-1.78	15.0	-9.0
	13,980.0	87.93	180.47	12,557.5	-1,410.7	-190.9	1.93	-0.39	1.89	18.8	-9.1
	14,073.0	86.70	180.21	12,561.9	-1,503.6	-191.5	1.35	-1.32	-0.28	23.9	-10.3
	14,167.0	88.90	180.21	12,565.5	-1,597.5	-191.8	2.34	2.34	0.00	28.2	-11.3
	14,261.0	89.08	180.65	12,567.1	-1,691.5	-192.5	0.51	0.19	0.47	30.7	-12.7
	14,355.0	89.52	180.73	12,568.3	-1,785.5	-193.7	0.48	0.47	0.09	32.6	-14.6
	14,448.0	90.66	176.51	12,568.1	-1,878.5	-191.4	4.70	1.23	-4.54	33.1	-13.0
	14,541.0	89.96	174.84	12,567.6	-1,971.2	-184.4	1.95	-0.75	-1.80	33.4	-6.7
	14,634.0	90.75	175.90	12,567.0	-2,063.9	-176.9	1.42	0.85	1.14	33.6	0.1
	14,728.0	91.80	175.20	12,565.0	-2,157.6	-169.6	1.34	1.12	-0.74	32.2	6.7
	14,821.0	90.92	174.05	12,562.7	-2,250.1	-160.9	1.56	-0.95	-1.24	30.8	14.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Savage 2 State Com
Well: #722H
Wellbore: OH
Design: OH

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

Well #722H
KB = 25 @ 3554.0usft
KB = 25 @ 3554.0usft
Grid
Minimum Curvature
EDM 5000.14

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)
14,915.0	90.04	177.83	12,562.0	-2,343.9	-154.3	4.13	-0.94	4.02	30.7	20.7
14,945.5	90.16	176.88	12,561.9	-2,374.3	-152.8	3.14	0.39	-3.12	30.9	21.9
IGT#1(Savage 2 SC #722H)										
15,008.0	90.40	174.93	12,561.6	-2,436.7	-148.4	3.14	0.39	-3.12	31.2	25.8
15,102.0	91.36	180.65	12,560.2	-2,530.6	-144.8	6.17	1.02	6.09	30.6	28.8
15,194.0	89.69	179.24	12,559.3	-2,622.6	-144.7	2.38	-1.82	-1.53	30.6	28.2
15,288.0	89.69	182.31	12,559.8	-2,716.5	-145.9	3.27	0.00	3.27	31.9	26.2
15,382.0	92.24	181.88	12,558.2	-2,810.5	-149.4	2.75	2.71	-0.46	31.2	22.1
15,475.0	92.42	181.61	12,554.5	-2,903.3	-152.2	0.35	0.19	-0.29	28.3	18.6
15,568.0	93.12	180.91	12,550.0	-2,996.2	-154.3	1.06	0.75	-0.75	24.6	15.9
15,660.0	87.23	179.94	12,549.7	-3,088.2	-154.9	6.49	-6.40	-1.05	25.2	14.5
15,754.0	86.26	180.03	12,555.0	-3,182.0	-154.9	1.04	-1.03	0.10	31.3	13.9
15,846.0	87.67	181.26	12,559.9	-3,273.9	-155.9	2.03	1.53	1.34	37.1	12.1
15,940.0	87.76	182.84	12,563.6	-3,367.7	-159.3	1.68	0.10	1.68	41.7	8.1
16,033.0	88.37	181.44	12,566.8	-3,460.6	-162.8	1.64	0.66	-1.51	45.7	3.9
16,127.0	90.75	180.47	12,567.5	-3,554.6	-164.3	2.73	2.53	-1.03	47.2	1.7
16,222.0	91.89	179.77	12,565.3	-3,649.6	-164.5	1.41	1.20	-0.74	45.9	0.7
16,315.0	92.42	179.41	12,561.8	-3,742.5	-163.9	0.69	0.57	-0.39	43.3	0.7
16,409.0	92.95	179.68	12,557.4	-3,836.4	-163.1	0.63	0.56	0.29	39.7	0.8
16,503.0	93.47	179.68	12,552.2	-3,930.2	-162.6	0.55	0.55	0.00	35.3	0.6
16,596.0	92.68	179.33	12,547.2	-4,022.1	-161.8	0.94	-0.86	-0.38	31.2	0.7
16,689.0	90.92	177.74	12,544.3	-4,116.0	-159.4	2.52	-1.87	-1.69	29.1	2.4
16,783.0	91.63	177.48	12,542.2	-4,209.9	-155.5	0.80	0.76	-0.28	27.9	5.6
16,876.0	90.92	177.48	12,540.1	-4,302.8	-151.4	0.76	-0.76	0.00	26.7	9.0
16,970.0	91.10	178.01	12,538.4	-4,396.7	-147.7	0.60	0.19	0.56	25.8	12.0
17,064.0	90.31	178.01	12,537.3	-4,490.6	-144.4	0.84	-0.84	0.00	25.5	14.6
17,158.0	88.29	178.89	12,538.4	-4,584.6	-141.9	2.34	-2.15	0.94	27.5	16.5



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #722H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3554.0usft
Site:	Savage 2 State Com	MD Reference:	KB = 25 @ 3554.0usft
Well:	#722H	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)
	17,252.0	88.90	178.89	12,540.7	-4,678.5	-140.1	0.65	0.65	0.00	30.7	17.6
	17,345.0	90.84	179.33	12,541.0	-4,771.5	-138.6	2.14	2.09	0.47	31.8	18.3
	17,418.0	88.29	178.98	12,541.5	-4,844.5	-137.6	3.53	-3.49	-0.48	33.0	18.9
Last MWD Survey (MD=17418.0')											
	17,474.1	88.29	178.98	12,543.2	-4,900.6	-136.6	0.00	0.00	0.00	35.2	19.5
PBHL(Savage 2 SC #722H)											
	17,476.0	88.29	178.98	12,543.2	-4,902.5	-136.5	0.00	0.00	0.00	35.2	19.5
Projection to Bit (MD=17476.0')											

Design Annotations				Local Coordinates		Comment
Measured Depth (usft)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)			
12,140.0	12,123.4	214.9	-259.1	KOP, MD:12140.0', TVD:12123.4', N/S:214.9', E/W:-259.1', INC:7.67		
12,288.7	12,265.7	175.0	-248.8	FTP Crossing, MD:12288.7', TVD:12265.7', N/S:175.0', E/W:-248.8', INC:24.92		
17,418.0	12,541.5	-4,844.5	-137.6	Last MWD Survey (MD=17418.0')		
17,476.0	12,543.2	-4,902.5	-136.5	Projection to Bit (MD=17476.0')		

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

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

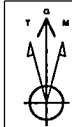
Kay Maddox 7/15/2020
Signed Date



Lea County, NM (NAD 83 NME)

Savage 2 State Com #722H

Plan #1



Azimuths to Grid North
True North: -0.37°
Magnetic North: 8.38°

Magnetic Field
Strength: 47671.3nT
Dip Angle: 59.97°
Date: 8/22/2019
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 0.38°
To convert a Magnetic Direction to a True Direction, Add 8.75° 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: #722H

KB = 26 @ 3554.0usft 3629.0
Northing 424834.00 Easting 764516.00 Latitude 32° 8' 57.855 N Longitude 103° 38' 39.840 W

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	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2750.1	5.00	319.23	2749.8	8.3	-7.1	2.00	316.23	-8.0	
4	5907.6	5.00	319.23	5895.2	216.7	-186.9	0.00	0.00	-210.7	
5	6157.7	0.00	0.00	6145.0	225.0	-194.0	2.00	180.00	-218.7	
6	12083.2	0.00	0.00	12070.5	225.0	-194.0	0.00	0.00	-218.7	
7	12837.0	90.46	179.58	12547.9	-256.3	-190.4	12.00	179.58	262.2	
8	14956.4	90.46	179.58	12531.0	-2375.6	-174.7	0.00	0.00	2380.0	TGT#1(Savage 2 SC #722H)
9	14959.6	90.52	179.58	12531.0	-2378.8	-174.7	2.00	0.00	2383.1	
10	17483.0	90.52	179.58	12508.0	-4902.0	-156.0	0.00	0.00	4904.5	PBHL(Savage 2 SC #722H)

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 #722H)	7205.0	225.0	-194.0	425059.00	764321.00
PBHL(Savage 2 SC #722H)	12508.0	-4902.0	-164.0	419532.00	764363.00
TGT#1(Savage 2 SC #722H)	12831.0	-2375.6	-174.7	424455.40	764340.27
FTP(Savage 2 SC #722H)	12561.0	175.0	-194.0	425009.00	764321.00

