

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 271735

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		2. OGRID Number 7377
4. Property Code 321651		3. API Number 30-025-76340
5. Property Name SAVAGE 2 STATE COM		6. Well No. 723H

7. Surface Location

UL - Lot B	Section 2	Township 25S	Range 32E	Lot Idn 2	Feet From 227	N/S Line N	Feet From 1780	E/W Line E	County Lea
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8. Proposed Bottom Hole Location

UL - Lot O	Section 2	Township 25S	Range 32E	Lot Idn O	Feet From 100	N/S Line S	Feet From 1610	E/W Line E	County Lea
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9. Pool Information

WC-025 G-09 S253309P;UPR WOLFCAMP	98180
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3535
16. Multiple N	17. Proposed Depth 17499	18. Formation Upper Wolfcamp	19. Contractor	20. Spud Date 9/16/2019
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	40	930	700	0
Int1	8.75	7.625	29.7	11185	1700	0
Prod	6.75	5.5	17	17499	800	10685

Casing/Cement Program: Additional Comments

As a contingency EOG respectfully requests the option to use the casing and cement program described in Design B of the drill plan. The NMOCD will be notified of EOG's election at spud.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature: _____ Printed Name: Electronically filed by Kay Maddox Title: Regulatory Agent Email Address: kay_maddox@eogresources.com Date: 9/3/2019 Phone: 432-686-3658	OIL CONSERVATION DIVISION Approved By: Paul F Kautz Title: Geologist Approved Date: 9/4/2019 Expiration Date: 9/4/2021 Conditions of Approval Attached
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GAS CAPTURE PLAN

Date: 9/4/2019

☒ Original

Operator & OGRID No.: [7377] EOG RESOURCES INC

☐ Amended - Reason for
Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
SAVAGE 2 STATE COM #723H	30-025-76340	B-2-25S-32E	0227N 1780E	3500	None	CTB already connected to EOG low pressure gathering system. Expected MMCF/D is +/-.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC Low Pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to Low Pressure gathering system. EOG RESOURCES INC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG RESOURCES INC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 13, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on LUCID ENERGY DELAWARE, LLC system at that time. Based on current information, it is EOG RESOURCES INC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 271735

PERMIT COMMENTS

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702		API Number: 30-025-76340
		Well: SAVAGE 2 STATE COM #723H

Created By	Comment	Comment Date
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Form APD Conditions

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

Permit 271735

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702	API Number: 30-025-76340
	Well: SAVAGE 2 STATE COM #723H

OCD Reviewer	Condition
pkautz	Will require a directional survey with the C-104
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD.
pkautz	Stage Tool 1) Must notify OCD Hobbs Office prior to running Stage Tool at 5753703186 2) If using Stage Tool on Surface casing, Stage Tool must be set greater than 350' from surface and a minimum of 200 feet above surface shoe. 3) When using a Stage Tool on Intermediate or Production Casing Stage must be a minimum of 50 feet below previous casing shoe.



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Savage 2 State Com

#723H

OH

Plan: Plan #0.1

Standard Planning Report

27 August, 2019

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #723H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3560.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

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

Well	#723H					
Well Position	+N/-S	419.0 usft	Northing:	424,888.00 usft	Latitude:	32° 9' 58.359 N
	+E/-W	3,162.0 usft	Easting:	755,007.00 usft	Longitude:	103° 38' 34.113 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,535.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/22/2019	6.75	59.97	47,671.51225479

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.61

Plan Survey Tool Program	Date	8/27/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,499.2 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,216.9	2.34	43.35	1,216.9	1.7	1.6	2.00	2.00	0.00	43.35	
7,132.0	2.34	43.35	7,127.1	177.3	167.4	0.00	0.00	0.00	0.00	
7,249.0	0.00	0.00	7,244.0	179.0	169.0	2.00	-2.00	0.00	180.00	
12,086.5	0.00	0.00	12,081.5	179.0	169.0	0.00	0.00	0.00	0.00	KOP(Savage 2 SC #7
12,836.5	90.00	179.58	12,559.0	-298.4	172.5	12.00	12.00	23.94	179.58	
17,499.2	90.00	179.58	12,559.0	-4,961.0	207.0	0.00	0.00	0.00	0.00	PBHL(Savage 2 SC #

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #723H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3560.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	2.00	43.35	1,200.0	1.3	1.2	-1.2	2.00	2.00	0.00
1,216.9	2.34	43.35	1,216.9	1.7	1.6	-1.7	2.00	2.00	0.00
1,300.0	2.34	43.35	1,299.9	4.2	4.0	-4.0	0.00	0.00	0.00
1,400.0	2.34	43.35	1,399.8	7.2	6.8	-6.9	0.00	0.00	0.00
1,500.0	2.34	43.35	1,499.7	10.1	9.6	-9.7	0.00	0.00	0.00
1,600.0	2.34	43.35	1,599.6	13.1	12.4	-12.6	0.00	0.00	0.00
1,700.0	2.34	43.35	1,699.6	16.1	15.2	-15.4	0.00	0.00	0.00
1,800.0	2.34	43.35	1,799.5	19.0	18.0	-18.3	0.00	0.00	0.00
1,900.0	2.34	43.35	1,899.4	22.0	20.8	-21.1	0.00	0.00	0.00
2,000.0	2.34	43.35	1,999.3	25.0	23.6	-24.0	0.00	0.00	0.00
2,100.0	2.34	43.35	2,099.2	27.9	26.4	-26.8	0.00	0.00	0.00
2,200.0	2.34	43.35	2,199.1	30.9	29.2	-29.7	0.00	0.00	0.00
2,300.0	2.34	43.35	2,299.1	33.9	32.0	-32.5	0.00	0.00	0.00
2,400.0	2.34	43.35	2,399.0	36.8	34.8	-35.4	0.00	0.00	0.00
2,500.0	2.34	43.35	2,498.9	39.8	37.6	-38.2	0.00	0.00	0.00
2,600.0	2.34	43.35	2,598.8	42.8	40.4	-41.1	0.00	0.00	0.00
2,700.0	2.34	43.35	2,698.7	45.7	43.2	-43.9	0.00	0.00	0.00
2,800.0	2.34	43.35	2,798.6	48.7	46.0	-46.8	0.00	0.00	0.00
2,900.0	2.34	43.35	2,898.6	51.7	48.8	-49.6	0.00	0.00	0.00
3,000.0	2.34	43.35	2,998.5	54.6	51.6	-52.4	0.00	0.00	0.00
3,100.0	2.34	43.35	3,098.4	57.6	54.4	-55.3	0.00	0.00	0.00
3,200.0	2.34	43.35	3,198.3	60.6	57.2	-58.1	0.00	0.00	0.00
3,300.0	2.34	43.35	3,298.2	63.5	60.0	-61.0	0.00	0.00	0.00
3,400.0	2.34	43.35	3,398.1	66.5	62.8	-63.8	0.00	0.00	0.00
3,500.0	2.34	43.35	3,498.1	69.5	65.6	-66.7	0.00	0.00	0.00
3,600.0	2.34	43.35	3,598.0	72.5	68.4	-69.5	0.00	0.00	0.00
3,700.0	2.34	43.35	3,697.9	75.4	71.2	-72.4	0.00	0.00	0.00
3,800.0	2.34	43.35	3,797.8	78.4	74.0	-75.2	0.00	0.00	0.00
3,900.0	2.34	43.35	3,897.7	81.4	76.8	-78.1	0.00	0.00	0.00
4,000.0	2.34	43.35	3,997.6	84.3	79.6	-80.9	0.00	0.00	0.00
4,100.0	2.34	43.35	4,097.6	87.3	82.4	-83.8	0.00	0.00	0.00
4,200.0	2.34	43.35	4,197.5	90.3	85.2	-86.6	0.00	0.00	0.00
4,300.0	2.34	43.35	4,297.4	93.2	88.0	-89.5	0.00	0.00	0.00
4,400.0	2.34	43.35	4,397.3	96.2	90.8	-92.3	0.00	0.00	0.00
4,500.0	2.34	43.35	4,497.2	99.2	93.6	-95.2	0.00	0.00	0.00
4,600.0	2.34	43.35	4,597.1	102.1	96.4	-98.0	0.00	0.00	0.00
4,700.0	2.34	43.35	4,697.1	105.1	99.2	-100.9	0.00	0.00	0.00
4,800.0	2.34	43.35	4,797.0	108.1	102.0	-103.7	0.00	0.00	0.00
4,900.0	2.34	43.35	4,896.9	111.0	104.8	-106.6	0.00	0.00	0.00
5,000.0	2.34	43.35	4,996.8	114.0	107.6	-109.4	0.00	0.00	0.00
5,100.0	2.34	43.35	5,096.7	117.0	110.4	-112.3	0.00	0.00	0.00
5,200.0	2.34	43.35	5,196.6	119.9	113.2	-115.1	0.00	0.00	0.00

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Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	2.34	43.35	5,296.6	122.9	116.0	-118.0	0.00	0.00	0.00
5,400.0	2.34	43.35	5,396.5	125.9	118.8	-120.8	0.00	0.00	0.00
5,500.0	2.34	43.35	5,496.4	128.8	121.6	-123.7	0.00	0.00	0.00
5,600.0	2.34	43.35	5,596.3	131.8	124.4	-126.5	0.00	0.00	0.00
5,700.0	2.34	43.35	5,696.2	134.8	127.2	-129.3	0.00	0.00	0.00
5,800.0	2.34	43.35	5,796.1	137.7	130.0	-132.2	0.00	0.00	0.00
5,900.0	2.34	43.35	5,896.1	140.7	132.8	-135.0	0.00	0.00	0.00
6,000.0	2.34	43.35	5,996.0	143.7	135.6	-137.9	0.00	0.00	0.00
6,100.0	2.34	43.35	6,095.9	146.6	138.4	-140.7	0.00	0.00	0.00
6,200.0	2.34	43.35	6,195.8	149.6	141.2	-143.6	0.00	0.00	0.00
6,300.0	2.34	43.35	6,295.7	152.6	144.1	-146.4	0.00	0.00	0.00
6,400.0	2.34	43.35	6,395.6	155.5	146.9	-149.3	0.00	0.00	0.00
6,500.0	2.34	43.35	6,495.6	158.5	149.7	-152.1	0.00	0.00	0.00
6,600.0	2.34	43.35	6,595.5	161.5	152.5	-155.0	0.00	0.00	0.00
6,700.0	2.34	43.35	6,695.4	164.4	155.3	-157.8	0.00	0.00	0.00
6,800.0	2.34	43.35	6,795.3	167.4	158.1	-160.7	0.00	0.00	0.00
6,900.0	2.34	43.35	6,895.2	170.4	160.9	-163.5	0.00	0.00	0.00
7,000.0	2.34	43.35	6,995.1	173.3	163.7	-166.4	0.00	0.00	0.00
7,100.0	2.34	43.35	7,095.1	176.3	166.5	-169.2	0.00	0.00	0.00
7,132.0	2.34	43.35	7,127.1	177.3	167.4	-170.1	0.00	0.00	0.00
7,200.0	0.98	43.35	7,195.0	178.7	168.7	-171.5	2.00	-2.00	0.00
7,249.0	0.00	0.00	7,244.0	179.0	169.0	-171.8	2.00	-2.00	0.00
7,300.0	0.00	0.00	7,295.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,395.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,495.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.0	179.0	169.0	-171.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,095.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,295.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,395.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,495.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,595.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,695.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,795.0	179.0	169.0	-171.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,895.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,995.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,095.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,195.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,295.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,400.0	0.00	0.00	9,395.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,495.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,595.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,695.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,800.0	0.00	0.00	9,795.0	179.0	169.0	-171.8	0.00	0.00	0.00
9,900.0	0.00	0.00	9,895.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,995.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,095.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,195.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,295.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,400.0	0.00	0.00	10,395.0	179.0	169.0	-171.8	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #723H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3560.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,500.0	0.00	0.00	10,495.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,595.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,700.0	0.00	0.00	10,695.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,800.0	0.00	0.00	10,795.0	179.0	169.0	-171.8	0.00	0.00	0.00
10,900.0	0.00	0.00	10,895.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,000.0	0.00	0.00	10,995.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,100.0	0.00	0.00	11,095.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,200.0	0.00	0.00	11,195.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,300.0	0.00	0.00	11,295.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,400.0	0.00	0.00	11,395.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,500.0	0.00	0.00	11,495.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,600.0	0.00	0.00	11,595.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,700.0	0.00	0.00	11,695.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,800.0	0.00	0.00	11,795.0	179.0	169.0	-171.8	0.00	0.00	0.00
11,900.0	0.00	0.00	11,895.0	179.0	169.0	-171.8	0.00	0.00	0.00
12,000.0	0.00	0.00	11,995.0	179.0	169.0	-171.8	0.00	0.00	0.00
12,086.5	0.00	0.00	12,081.5	179.0	169.0	-171.8	0.00	0.00	0.00
KOP(Savage 2 SC #723H)									
12,100.0	1.62	179.58	12,095.0	178.8	169.0	-171.6	12.00	12.00	0.00
12,125.0	4.62	179.58	12,120.0	177.4	169.0	-170.2	12.00	12.00	0.00
12,150.0	7.62	179.58	12,144.8	174.8	169.0	-167.6	12.00	12.00	0.00
12,175.0	10.62	179.58	12,169.5	170.8	169.1	-163.6	12.00	12.00	0.00
12,200.0	13.62	179.58	12,193.9	165.6	169.1	-158.4	12.00	12.00	0.00
12,225.0	16.62	179.58	12,218.1	159.1	169.1	-151.9	12.00	12.00	0.00
12,250.0	19.62	179.58	12,241.8	151.3	169.2	-144.1	12.00	12.00	0.00
12,275.0	22.62	179.58	12,265.1	142.3	169.3	-135.1	12.00	12.00	0.00
12,300.0	25.62	179.58	12,288.0	132.1	169.3	-124.9	12.00	12.00	0.00
12,325.0	28.62	179.58	12,310.2	120.7	169.4	-113.5	12.00	12.00	0.00
12,350.0	31.62	179.58	12,331.8	108.1	169.5	-101.0	12.00	12.00	0.00
12,375.0	34.62	179.58	12,352.8	94.5	169.6	-87.3	12.00	12.00	0.00
12,400.0	37.62	179.58	12,373.0	79.7	169.7	-72.6	12.00	12.00	0.00
12,425.0	40.62	179.58	12,392.4	64.0	169.9	-56.8	12.00	12.00	0.00
12,450.0	43.62	179.58	12,410.9	47.2	170.0	-40.1	12.00	12.00	0.00
12,475.0	46.62	179.58	12,428.5	29.5	170.1	-22.4	12.00	12.00	0.00
12,488.0	48.18	179.58	12,437.3	19.9	170.2	-12.8	12.00	12.00	0.00
FTP(Savage 2 SC #723H)									
12,500.0	49.62	179.58	12,445.2	10.9	170.2	-3.8	12.00	12.00	0.00
12,525.0	52.62	179.58	12,460.9	-8.6	170.4	15.7	12.00	12.00	0.00
12,550.0	55.62	179.58	12,475.6	-28.9	170.5	35.9	12.00	12.00	0.00
12,575.0	58.62	179.58	12,489.1	-49.8	170.7	56.9	12.00	12.00	0.00
12,600.0	61.62	179.58	12,501.6	-71.5	170.9	78.6	12.00	12.00	0.00
12,625.0	64.62	179.58	12,512.9	-93.8	171.0	100.9	12.00	12.00	0.00
12,650.0	67.62	179.58	12,523.0	-116.7	171.2	123.7	12.00	12.00	0.00
12,675.0	70.62	179.58	12,531.9	-140.0	171.4	147.0	12.00	12.00	0.00
12,700.0	73.62	179.58	12,539.6	-163.8	171.5	170.8	12.00	12.00	0.00
12,725.0	76.62	179.58	12,546.0	-188.0	171.7	195.0	12.00	12.00	0.00
12,750.0	79.62	179.58	12,551.2	-212.4	171.9	219.4	12.00	12.00	0.00
12,775.0	82.62	179.58	12,555.0	-237.1	172.1	244.1	12.00	12.00	0.00
12,800.0	85.62	179.58	12,557.6	-262.0	172.3	268.9	12.00	12.00	0.00
12,825.0	88.62	179.58	12,558.8	-287.0	172.4	293.9	12.00	12.00	0.00
12,836.5	90.00	179.58	12,559.0	-298.4	172.5	305.4	12.00	12.00	0.00
12,900.0	90.00	179.58	12,559.0	-362.0	173.0	368.9	0.00	0.00	0.00
13,000.0	90.00	179.58	12,559.0	-462.0	173.7	468.8	0.00	0.00	0.00
13,100.0	90.00	179.58	12,559.0	-562.0	174.5	568.7	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #723H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3560.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.58	12,559.0	-661.9	175.2	668.7	0.00	0.00	0.00
13,300.0	90.00	179.58	12,559.0	-761.9	176.0	768.6	0.00	0.00	0.00
13,400.0	90.00	179.58	12,559.0	-861.9	176.7	868.6	0.00	0.00	0.00
13,500.0	90.00	179.58	12,559.0	-961.9	177.4	968.5	0.00	0.00	0.00
13,600.0	90.00	179.58	12,559.0	-1,061.9	178.2	1,068.4	0.00	0.00	0.00
13,700.0	90.00	179.58	12,559.0	-1,161.9	178.9	1,168.4	0.00	0.00	0.00
13,800.0	90.00	179.58	12,559.0	-1,261.9	179.7	1,268.3	0.00	0.00	0.00
13,900.0	90.00	179.58	12,559.0	-1,361.9	180.4	1,368.3	0.00	0.00	0.00
14,000.0	90.00	179.58	12,559.0	-1,461.9	181.1	1,468.2	0.00	0.00	0.00
14,100.0	90.00	179.58	12,559.0	-1,561.9	181.9	1,568.1	0.00	0.00	0.00
14,200.0	90.00	179.58	12,559.0	-1,661.9	182.6	1,668.1	0.00	0.00	0.00
14,300.0	90.00	179.58	12,559.0	-1,761.9	183.3	1,768.0	0.00	0.00	0.00
14,400.0	90.00	179.58	12,559.0	-1,861.9	184.1	1,868.0	0.00	0.00	0.00
14,500.0	90.00	179.58	12,559.0	-1,961.9	184.8	1,967.9	0.00	0.00	0.00
14,600.0	90.00	179.58	12,559.0	-2,061.9	185.6	2,067.9	0.00	0.00	0.00
14,700.0	90.00	179.58	12,559.0	-2,161.9	186.3	2,167.8	0.00	0.00	0.00
14,800.0	90.00	179.58	12,559.0	-2,261.9	187.0	2,267.7	0.00	0.00	0.00
14,900.0	90.00	179.58	12,559.0	-2,361.9	187.8	2,367.7	0.00	0.00	0.00
15,000.0	90.00	179.58	12,559.0	-2,461.9	188.5	2,467.6	0.00	0.00	0.00
15,100.0	90.00	179.58	12,559.0	-2,561.9	189.3	2,567.6	0.00	0.00	0.00
15,200.0	90.00	179.58	12,559.0	-2,661.9	190.0	2,667.5	0.00	0.00	0.00
15,300.0	90.00	179.58	12,559.0	-2,761.9	190.7	2,767.4	0.00	0.00	0.00
15,400.0	90.00	179.58	12,559.0	-2,861.9	191.5	2,867.4	0.00	0.00	0.00
15,500.0	90.00	179.58	12,559.0	-2,961.9	192.2	2,967.3	0.00	0.00	0.00
15,600.0	90.00	179.58	12,559.0	-3,061.9	193.0	3,067.3	0.00	0.00	0.00
15,700.0	90.00	179.58	12,559.0	-3,161.9	193.7	3,167.2	0.00	0.00	0.00
15,800.0	90.00	179.58	12,559.0	-3,261.9	194.4	3,267.1	0.00	0.00	0.00
15,900.0	90.00	179.58	12,559.0	-3,361.9	195.2	3,367.1	0.00	0.00	0.00
16,000.0	90.00	179.58	12,559.0	-3,461.9	195.9	3,467.0	0.00	0.00	0.00
16,100.0	90.00	179.58	12,559.0	-3,561.9	196.7	3,567.0	0.00	0.00	0.00
16,200.0	90.00	179.58	12,559.0	-3,661.9	197.4	3,666.9	0.00	0.00	0.00
16,300.0	90.00	179.58	12,559.0	-3,761.9	198.1	3,766.9	0.00	0.00	0.00
16,400.0	90.00	179.58	12,559.0	-3,861.9	198.9	3,866.8	0.00	0.00	0.00
16,500.0	90.00	179.58	12,559.0	-3,961.9	199.6	3,966.7	0.00	0.00	0.00
16,600.0	90.00	179.58	12,559.0	-4,061.9	200.4	4,066.7	0.00	0.00	0.00
16,700.0	90.00	179.58	12,559.0	-4,161.9	201.1	4,166.6	0.00	0.00	0.00
16,800.0	90.00	179.58	12,559.0	-4,261.9	201.8	4,266.6	0.00	0.00	0.00
16,900.0	90.00	179.58	12,559.0	-4,361.8	202.6	4,366.5	0.00	0.00	0.00
17,000.0	90.00	179.58	12,559.0	-4,461.8	203.3	4,466.4	0.00	0.00	0.00
17,100.0	90.00	179.58	12,559.0	-4,561.8	204.0	4,566.4	0.00	0.00	0.00
17,200.0	90.00	179.58	12,559.0	-4,661.8	204.8	4,666.3	0.00	0.00	0.00
17,300.0	90.00	179.58	12,559.0	-4,761.8	205.5	4,766.3	0.00	0.00	0.00
17,400.0	90.00	179.58	12,559.0	-4,861.8	206.3	4,866.2	0.00	0.00	0.00
17,499.2	90.00	179.58	12,559.0	-4,961.0	207.0	4,965.3	0.00	0.00	0.00
PBHL(Savage 2 SC #723H)									

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #723H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3560.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3560.0usft
Site:	Savage 2 State Com	North Reference:	Grid
Well:	#723H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Savage 2 SC #723 - plan hits target center - Point	0.00	0.00	12,081.5	179.0	169.0	425,067.00	755,176.00	32° 10' 0.119 N	103° 38' 32.133 W
PBHL(Savage 2 SC #72 - plan hits target center - Point	0.00	0.00	12,559.0	-4,961.0	207.0	419,927.00	755,214.00	32° 9' 9.254 N	103° 38' 32.075 W
FTP(Savage 2 SC #723I - plan misses target center by 163.4usft at 12488.0usft MD (12437.3 TVD, 19.9 N, 170.2 E) - Point	0.00	0.00	12,559.0	129.0	169.0	425,017.00	755,176.00	32° 9' 59.625 N	103° 38' 32.137 W