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District IV
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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 271733

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

1. Operator Name and Address		2. OGRID Number
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		7377
		3. API Number 30-025-46338
4. Property Code 321651	5. Property Name SAVAGE 2 STATE COM	6. Well No. 721H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	2	25S	32E	3	527	N	1695	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	2	25S	32E	N	100	S	1955	W	Lea

9. Pool Information

WC-025 G-09 S253309P;UPR WOLFCAMP	98180

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3520
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	17454	Upper Wolfcamp		10/26/2019
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	870	700	0
Int1	8.75	7.625	29.7	11130	1700	0
Prod	6.75	5.5	17	17454	800	10630

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:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Kay Maddox	Approved By:	Paul F Kautz	
Title:	Regulatory Agent	Title:	Geologist	
Email Address:	kay_maddox@eogresources.com	Approved Date:	9/4/2019	Expiration Date: 9/4/2021
Date:	9/3/2019 Phone: 432-686-3658	Conditions of Approval Attached		

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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	[2]Pool Code	[3]Pool Name
30-025- 46338	98180	WC-025 G-09 S253309A; Upper Wolfcamp

[4]Property Code	[5]Property Name	[6]Well Number
321651	SAVAGE 2 STATE COM	721H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3520'

[10]Surface Location

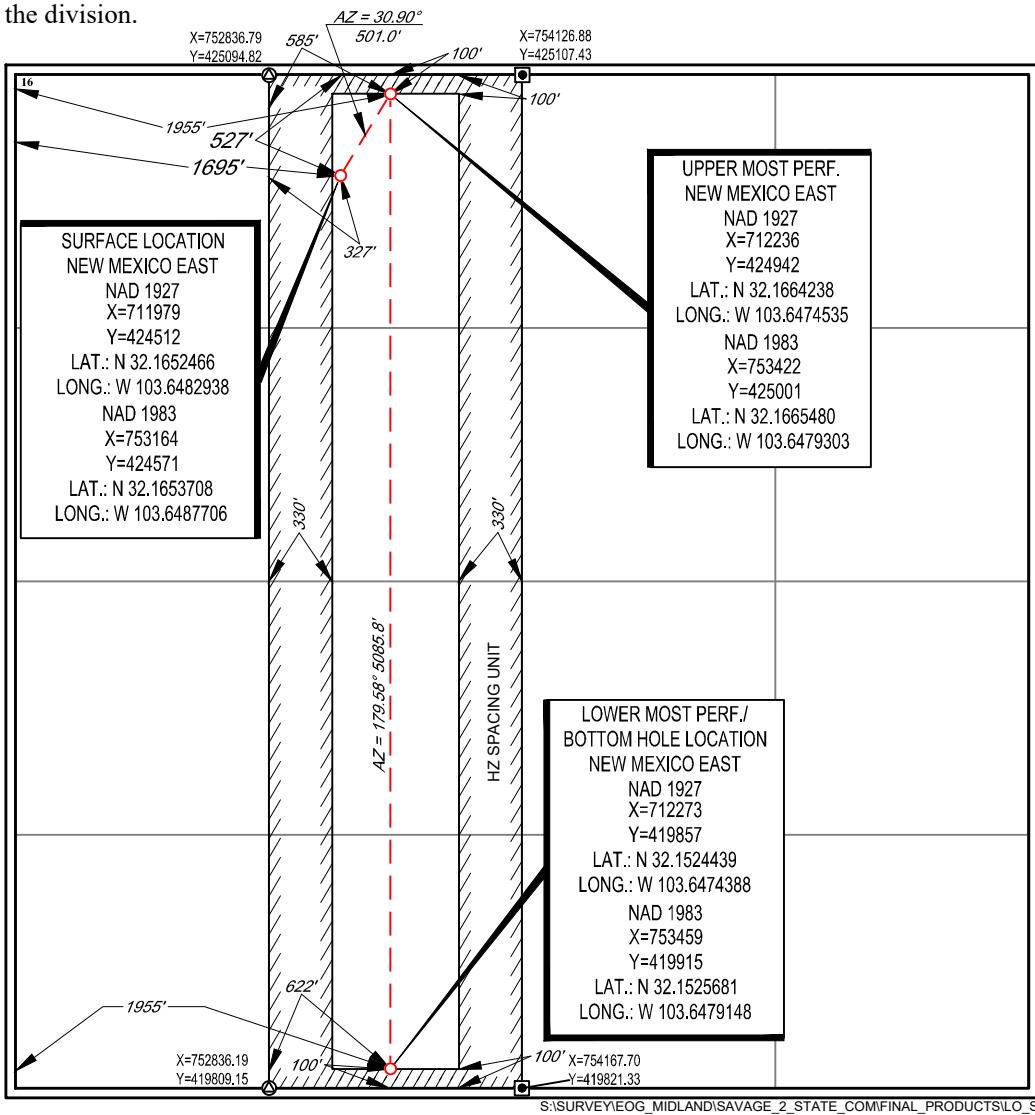
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	2	25-S	32-E	–	527'	NORTH	1695'	WEST	LEA

[11]Bottom 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	–	100'	SOUTH	1955'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
160.19			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Star L Harrell 8/28/19
Signature Date

Star L Harrell
Printed Name

star_harrell@eogresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

01/16/2019
Date of Survey
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ NEW MEXICO 24508 PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\SAVAGE_2_STATE_COM\FINAL_PRODUCTS\LO_SAVAGE_2_STATE_COM_721H-2.DWG 8/22/2019 11:00:58 AM rdominguez

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Oil Conservation Division
1220 S. St Francis Dr.
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GAS CAPTURE PLAN

Date: 9/4/2019

☒ Original

☐ Amended - Reason for Amendment:

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

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete 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 #721H	30-025-46338	C-2-25S-32E	0527N 1695W	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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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

PERMIT COMMENTS

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702	30-025-46338
	Well: SAVAGE 2 STATE COM #721H

Created By	Comment	Comment Date

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Santa Fe, NM 87505

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702	30-025-46338
	Well: SAVAGE 2 STATE COM #721H

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
#721H

OH

Plan: Plan #0.1

Standard Planning Report

27 August, 2019

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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 #721H

Well Position	**+N/-S**	102.0 usft	**Northing:**	424,571.00 usft	**Latitude:**	32° 9' 55.339 N
	+E/-W	1,319.0 usft	**Easting:**	753,164.00 usft	**Longitude:**	103° 38' 55.577 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,520.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/27/2019	6.75	59.97	47,669.09917218

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	176.37

Plan Survey Tool Program **Date** 8/27/2019

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,453.5	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	
1,364.8	5.30	28.26	1,364.4	10.8	5.8	2.00	2.00	0.00	28.26	
7,004.0	5.30	28.26	6,979.6	469.2	252.2	0.00	0.00	0.00	0.00	
7,268.8	0.00	0.00	7,244.0	480.0	258.0	2.00	-2.00	0.00	180.00	
12,044.8	0.00	0.00	12,020.0	480.0	258.0	0.00	0.00	0.00	0.00	KOP(Savage 2 SC #7
12,794.8	90.00	179.59	12,497.5	2.6	261.4	12.00	12.00	23.95	179.59	
17,453.5	90.00	179.59	12,497.5	-4,656.0	295.0	0.00	0.00	0.00	0.00	PBHL(Savage 2 SC #

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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	28.26	1,200.0	1.5	0.8	-1.5	2.00	2.00	0.00
1,300.0	4.00	28.26	1,299.8	6.1	3.3	-5.9	2.00	2.00	0.00
1,364.8	5.30	28.26	1,364.4	10.8	5.8	-10.4	2.00	2.00	0.00
1,400.0	5.30	28.26	1,399.5	13.6	7.3	-13.1	0.00	0.00	0.00
1,500.0	5.30	28.26	1,499.0	21.8	11.7	-21.0	0.00	0.00	0.00
1,600.0	5.30	28.26	1,598.6	29.9	16.1	-28.8	0.00	0.00	0.00
1,700.0	5.30	28.26	1,698.2	38.0	20.4	-36.7	0.00	0.00	0.00
1,800.0	5.30	28.26	1,797.8	46.2	24.8	-44.5	0.00	0.00	0.00
1,900.0	5.30	28.26	1,897.3	54.3	29.2	-52.3	0.00	0.00	0.00
2,000.0	5.30	28.26	1,996.9	62.4	33.5	-60.2	0.00	0.00	0.00
2,100.0	5.30	28.26	2,096.5	70.5	37.9	-68.0	0.00	0.00	0.00
2,200.0	5.30	28.26	2,196.1	78.7	42.3	-75.8	0.00	0.00	0.00
2,300.0	5.30	28.26	2,295.6	86.8	46.7	-83.7	0.00	0.00	0.00
2,400.0	5.30	28.26	2,395.2	94.9	51.0	-91.5	0.00	0.00	0.00
2,500.0	5.30	28.26	2,494.8	103.1	55.4	-99.4	0.00	0.00	0.00
2,600.0	5.30	28.26	2,594.4	111.2	59.8	-107.2	0.00	0.00	0.00
2,700.0	5.30	28.26	2,693.9	119.3	64.1	-115.0	0.00	0.00	0.00
2,800.0	5.30	28.26	2,793.5	127.5	68.5	-122.9	0.00	0.00	0.00
2,900.0	5.30	28.26	2,893.1	135.6	72.9	-130.7	0.00	0.00	0.00
3,000.0	5.30	28.26	2,992.6	143.7	77.2	-138.5	0.00	0.00	0.00
3,100.0	5.30	28.26	3,092.2	151.8	81.6	-146.4	0.00	0.00	0.00
3,200.0	5.30	28.26	3,191.8	160.0	86.0	-154.2	0.00	0.00	0.00
3,300.0	5.30	28.26	3,291.4	168.1	90.4	-162.0	0.00	0.00	0.00
3,400.0	5.30	28.26	3,390.9	176.2	94.7	-169.9	0.00	0.00	0.00
3,500.0	5.30	28.26	3,490.5	184.4	99.1	-177.7	0.00	0.00	0.00
3,600.0	5.30	28.26	3,590.1	192.5	103.5	-185.6	0.00	0.00	0.00
3,700.0	5.30	28.26	3,689.7	200.6	107.8	-193.4	0.00	0.00	0.00
3,800.0	5.30	28.26	3,789.2	208.7	112.2	-201.2	0.00	0.00	0.00
3,900.0	5.30	28.26	3,888.8	216.9	116.6	-209.1	0.00	0.00	0.00
4,000.0	5.30	28.26	3,988.4	225.0	120.9	-216.9	0.00	0.00	0.00
4,100.0	5.30	28.26	4,087.9	233.1	125.3	-224.7	0.00	0.00	0.00
4,200.0	5.30	28.26	4,187.5	241.3	129.7	-232.6	0.00	0.00	0.00
4,300.0	5.30	28.26	4,287.1	249.4	134.1	-240.4	0.00	0.00	0.00
4,400.0	5.30	28.26	4,386.7	257.5	138.4	-248.3	0.00	0.00	0.00
4,500.0	5.30	28.26	4,486.2	265.7	142.8	-256.1	0.00	0.00	0.00
4,600.0	5.30	28.26	4,585.8	273.8	147.2	-263.9	0.00	0.00	0.00
4,700.0	5.30	28.26	4,685.4	281.9	151.5	-271.8	0.00	0.00	0.00
4,800.0	5.30	28.26	4,785.0	290.0	155.9	-279.6	0.00	0.00	0.00
4,900.0	5.30	28.26	4,884.5	298.2	160.3	-287.4	0.00	0.00	0.00
5,000.0	5.30	28.26	4,984.1	306.3	164.6	-295.3	0.00	0.00	0.00
5,100.0	5.30	28.26	5,083.7	314.4	169.0	-303.1	0.00	0.00	0.00
5,200.0	5.30	28.26	5,183.3	322.6	173.4	-311.0	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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	5.30	28.26	5,282.8	330.7	177.7	-318.8	0.00	0.00	0.00
5,400.0	5.30	28.26	5,382.4	338.8	182.1	-326.6	0.00	0.00	0.00
5,500.0	5.30	28.26	5,482.0	347.0	186.5	-334.5	0.00	0.00	0.00
5,600.0	5.30	28.26	5,581.5	355.1	190.9	-342.3	0.00	0.00	0.00
5,700.0	5.30	28.26	5,681.1	363.2	195.2	-350.1	0.00	0.00	0.00
5,800.0	5.30	28.26	5,780.7	371.3	199.6	-358.0	0.00	0.00	0.00
5,900.0	5.30	28.26	5,880.3	379.5	204.0	-365.8	0.00	0.00	0.00
6,000.0	5.30	28.26	5,979.8	387.6	208.3	-373.7	0.00	0.00	0.00
6,100.0	5.30	28.26	6,079.4	395.7	212.7	-381.5	0.00	0.00	0.00
6,200.0	5.30	28.26	6,179.0	403.9	217.1	-389.3	0.00	0.00	0.00
6,300.0	5.30	28.26	6,278.6	412.0	221.4	-397.2	0.00	0.00	0.00
6,400.0	5.30	28.26	6,378.1	420.1	225.8	-405.0	0.00	0.00	0.00
6,500.0	5.30	28.26	6,477.7	428.3	230.2	-412.8	0.00	0.00	0.00
6,600.0	5.30	28.26	6,577.3	436.4	234.6	-420.7	0.00	0.00	0.00
6,700.0	5.30	28.26	6,676.8	444.5	238.9	-428.5	0.00	0.00	0.00
6,800.0	5.30	28.26	6,776.4	452.6	243.3	-436.4	0.00	0.00	0.00
6,900.0	5.30	28.26	6,876.0	460.8	247.7	-444.2	0.00	0.00	0.00
7,004.0	5.30	28.26	6,979.6	469.2	252.2	-452.3	0.00	0.00	0.00
7,100.0	3.38	28.26	7,075.3	475.6	255.6	-458.5	2.00	-2.00	0.00
7,200.0	1.38	28.26	7,175.2	479.3	257.6	-462.0	2.00	-2.00	0.00
7,268.8	0.00	0.00	7,244.0	480.0	258.0	-462.7	2.00	-2.00	0.00
7,300.0	0.00	0.00	7,275.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,375.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,475.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,575.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,675.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,775.2	480.0	258.0	-462.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,875.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,975.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,075.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,175.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,275.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,375.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,475.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,575.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,675.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,775.2	480.0	258.0	-462.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,875.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,975.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,075.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,175.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,275.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,375.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,475.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,575.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,675.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,775.2	480.0	258.0	-462.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,875.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,975.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,075.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,175.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,275.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,375.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,475.2	480.0	258.0	-462.7	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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)
10,600.0	0.00	0.00	10,575.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,700.0	0.00	0.00	10,675.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,800.0	0.00	0.00	10,775.2	480.0	258.0	-462.7	0.00	0.00	0.00
10,900.0	0.00	0.00	10,875.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,000.0	0.00	0.00	10,975.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,100.0	0.00	0.00	11,075.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,200.0	0.00	0.00	11,175.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,300.0	0.00	0.00	11,275.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,400.0	0.00	0.00	11,375.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,500.0	0.00	0.00	11,475.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,600.0	0.00	0.00	11,575.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,700.0	0.00	0.00	11,675.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,800.0	0.00	0.00	11,775.2	480.0	258.0	-462.7	0.00	0.00	0.00
11,900.0	0.00	0.00	11,875.2	480.0	258.0	-462.7	0.00	0.00	0.00
12,000.0	0.00	0.00	11,975.2	480.0	258.0	-462.7	0.00	0.00	0.00
12,044.8	0.00	0.00	12,020.0	480.0	258.0	-462.7	0.00	0.00	0.00
KOP(Savage 2 SC #721H)									
12,050.0	0.62	179.59	12,025.2	480.0	258.0	-462.7	12.00	12.00	0.00
12,075.0	3.62	179.59	12,050.2	479.0	258.0	-461.8	12.00	12.00	0.00
12,100.0	6.62	179.59	12,075.1	476.8	258.0	-459.5	12.00	12.00	0.00
12,125.0	9.62	179.59	12,099.8	473.3	258.0	-456.0	12.00	12.00	0.00
12,150.0	12.62	179.59	12,124.3	468.5	258.1	-451.2	12.00	12.00	0.00
12,175.0	15.62	179.59	12,148.6	462.4	258.1	-445.1	12.00	12.00	0.00
12,200.0	18.62	179.59	12,172.5	455.0	258.2	-437.8	12.00	12.00	0.00
12,225.0	21.62	179.59	12,195.9	446.4	258.2	-429.2	12.00	12.00	0.00
12,250.0	24.62	179.59	12,218.9	436.6	258.3	-419.4	12.00	12.00	0.00
12,275.0	27.62	179.59	12,241.4	425.6	258.4	-408.4	12.00	12.00	0.00
12,300.0	30.62	179.59	12,263.2	413.4	258.5	-396.3	12.00	12.00	0.00
12,325.0	33.62	179.59	12,284.4	400.1	258.6	-383.0	12.00	12.00	0.00
12,350.0	36.62	179.59	12,304.8	385.8	258.7	-368.6	12.00	12.00	0.00
12,375.0	39.62	179.59	12,324.5	370.3	258.8	-353.2	12.00	12.00	0.00
12,400.0	42.62	179.59	12,343.3	353.9	258.9	-336.8	12.00	12.00	0.00
12,425.0	45.62	179.59	12,361.3	336.5	259.0	-319.4	12.00	12.00	0.00
12,449.2	48.52	179.59	12,377.7	318.8	259.2	-301.8	12.00	12.00	0.00
FTP(Savage 2 SC #721H)									
12,450.0	48.62	179.59	12,378.3	318.2	259.2	-301.1	12.00	12.00	0.00
12,475.0	51.62	179.59	12,394.3	299.0	259.3	-282.0	12.00	12.00	0.00
12,500.0	54.62	179.59	12,409.3	279.0	259.4	-262.0	12.00	12.00	0.00
12,525.0	57.62	179.59	12,423.2	258.2	259.6	-241.3	12.00	12.00	0.00
12,550.0	60.62	179.59	12,436.1	236.8	259.8	-219.9	12.00	12.00	0.00
12,575.0	63.62	179.59	12,447.7	214.7	259.9	-197.8	12.00	12.00	0.00
12,600.0	66.62	179.59	12,458.3	192.0	260.1	-175.2	12.00	12.00	0.00
12,625.0	69.62	179.59	12,467.6	168.8	260.2	-152.0	12.00	12.00	0.00
12,650.0	72.62	179.59	12,475.7	145.2	260.4	-128.4	12.00	12.00	0.00
12,675.0	75.62	179.59	12,482.5	121.1	260.6	-104.4	12.00	12.00	0.00
12,700.0	78.62	179.59	12,488.1	96.7	260.8	-80.1	12.00	12.00	0.00
12,725.0	81.62	179.59	12,492.4	72.1	260.9	-55.5	12.00	12.00	0.00
12,750.0	84.62	179.59	12,495.4	47.3	261.1	-30.7	12.00	12.00	0.00
12,775.0	87.62	179.59	12,497.1	22.4	261.3	-5.8	12.00	12.00	0.00
12,794.8	90.00	179.59	12,497.5	2.6	261.4	14.0	12.00	12.00	0.00
12,800.0	90.00	179.59	12,497.5	-2.6	261.5	19.2	0.00	0.00	0.00
12,900.0	90.00	179.59	12,497.5	-102.6	262.2	119.0	0.00	0.00	0.00
13,000.0	90.00	179.59	12,497.5	-202.6	262.9	218.8	0.00	0.00	0.00
13,100.0	90.00	179.59	12,497.5	-302.6	263.6	318.7	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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	179.59	12,497.5	-402.6	264.4	418.5	0.00	0.00	0.00
13,300.0	90.00	179.59	12,497.5	-502.6	265.1	518.4	0.00	0.00	0.00
13,400.0	90.00	179.59	12,497.5	-602.6	265.8	618.2	0.00	0.00	0.00
13,500.0	90.00	179.59	12,497.5	-702.6	266.5	718.1	0.00	0.00	0.00
13,600.0	90.00	179.59	12,497.5	-802.6	267.2	817.9	0.00	0.00	0.00
13,700.0	90.00	179.59	12,497.5	-902.6	268.0	917.7	0.00	0.00	0.00
13,800.0	90.00	179.59	12,497.5	-1,002.6	268.7	1,017.6	0.00	0.00	0.00
13,900.0	90.00	179.59	12,497.5	-1,102.6	269.4	1,117.4	0.00	0.00	0.00
14,000.0	90.00	179.59	12,497.5	-1,202.6	270.1	1,217.3	0.00	0.00	0.00
14,100.0	90.00	179.59	12,497.5	-1,302.6	270.8	1,317.1	0.00	0.00	0.00
14,200.0	90.00	179.59	12,497.5	-1,402.6	271.6	1,417.0	0.00	0.00	0.00
14,300.0	90.00	179.59	12,497.5	-1,502.6	272.3	1,516.8	0.00	0.00	0.00
14,400.0	90.00	179.59	12,497.5	-1,602.6	273.0	1,616.6	0.00	0.00	0.00
14,500.0	90.00	179.59	12,497.5	-1,702.6	273.7	1,716.5	0.00	0.00	0.00
14,600.0	90.00	179.59	12,497.5	-1,802.6	274.4	1,816.3	0.00	0.00	0.00
14,700.0	90.00	179.59	12,497.5	-1,902.6	275.2	1,916.2	0.00	0.00	0.00
14,800.0	90.00	179.59	12,497.5	-2,002.6	275.9	2,016.0	0.00	0.00	0.00
14,900.0	90.00	179.59	12,497.5	-2,102.6	276.6	2,115.9	0.00	0.00	0.00
15,000.0	90.00	179.59	12,497.5	-2,202.6	277.3	2,215.7	0.00	0.00	0.00
15,100.0	90.00	179.59	12,497.5	-2,302.6	278.0	2,315.5	0.00	0.00	0.00
15,200.0	90.00	179.59	12,497.5	-2,402.6	278.8	2,415.4	0.00	0.00	0.00
15,300.0	90.00	179.59	12,497.5	-2,502.6	279.5	2,515.2	0.00	0.00	0.00
15,400.0	90.00	179.59	12,497.5	-2,602.6	280.2	2,615.1	0.00	0.00	0.00
15,500.0	90.00	179.59	12,497.5	-2,702.6	280.9	2,714.9	0.00	0.00	0.00
15,600.0	90.00	179.59	12,497.5	-2,802.6	281.6	2,814.8	0.00	0.00	0.00
15,700.0	90.00	179.59	12,497.5	-2,902.6	282.4	2,914.6	0.00	0.00	0.00
15,800.0	90.00	179.59	12,497.5	-3,002.5	283.1	3,014.4	0.00	0.00	0.00
15,900.0	90.00	179.59	12,497.5	-3,102.5	283.8	3,114.3	0.00	0.00	0.00
16,000.0	90.00	179.59	12,497.5	-3,202.5	284.5	3,214.1	0.00	0.00	0.00
16,100.0	90.00	179.59	12,497.5	-3,302.5	285.2	3,314.0	0.00	0.00	0.00
16,200.0	90.00	179.59	12,497.5	-3,402.5	286.0	3,413.8	0.00	0.00	0.00
16,300.0	90.00	179.59	12,497.5	-3,502.5	286.7	3,513.7	0.00	0.00	0.00
16,400.0	90.00	179.59	12,497.5	-3,602.5	287.4	3,613.5	0.00	0.00	0.00
16,500.0	90.00	179.59	12,497.5	-3,702.5	288.1	3,713.3	0.00	0.00	0.00
16,600.0	90.00	179.59	12,497.5	-3,802.5	288.9	3,813.2	0.00	0.00	0.00
16,700.0	90.00	179.59	12,497.5	-3,902.5	289.6	3,913.0	0.00	0.00	0.00
16,800.0	90.00	179.59	12,497.5	-4,002.5	290.3	4,012.9	0.00	0.00	0.00
16,900.0	90.00	179.59	12,497.5	-4,102.5	291.0	4,112.7	0.00	0.00	0.00
17,000.0	90.00	179.59	12,497.5	-4,202.5	291.7	4,212.6	0.00	0.00	0.00
17,100.0	90.00	179.59	12,497.5	-4,302.5	292.5	4,312.4	0.00	0.00	0.00
17,200.0	90.00	179.59	12,497.5	-4,402.5	293.2	4,412.2	0.00	0.00	0.00
17,300.0	90.00	179.59	12,497.5	-4,502.5	293.9	4,512.1	0.00	0.00	0.00
17,400.0	90.00	179.59	12,497.5	-4,602.5	294.6	4,611.9	0.00	0.00	0.00
17,453.5	90.00	179.59	12,497.5	-4,656.0	295.0	4,665.3	0.00	0.00	0.00
PBHL(Savage 2 SC #721H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #721H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3545.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3545.0usft
Site:	Savage 2 State Com	**North Reference:**	Grid
Well:	#721H	**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 #721 - plan hits target center - Point	0.00	0.00	12,020.0	480.0	258.0	425,051.00	753,422.00	32° 10' 0.072 N	103° 38' 52.540 W
FTP(Savage 2 SC #721I - plan misses target center by 163.5usft at 12449.2usft MD (12377.7 TVD, 318.8 N, 259.2 E) - Point	0.00	0.00	12,497.5	430.0	258.0	425,001.00	753,422.00	32° 9' 59.577 N	103° 38' 52.543 W
PBHL(Savage 2 SC #72 - plan hits target center - Point	0.00	0.00	12,497.5	-4,656.0	295.0	419,915.00	753,459.00	32° 9' 9.247 N	103° 38' 52.490 W