

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6172
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources
OIL CONSERVATION DIVISION
2220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO.	3002546755
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No.	320561
7. Lease Name or Unit Agreement Name	HEMLOCK 32 STATE
8. Well Number	204H
9. OGRID Number	7377
10. Pool name or Wildcat	59900 TRIPLE X; BONE SPRING
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	3666 GL

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
EOG RESOURCES

3. Address of Operator
P O BOX 2267, MIDLAND TX 79702

4. Well Location
Unit Letter N : 392 feet from the SOUTH line and 1927 feet from the WEST line
Section 32 Township 23S Range 33E NMPM County LEA CO, NM

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☒ P AND A ☐
CASING/CEMENT JOB ☒

OTHER: CEMENT CHANGE ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect the following changes:
Updated cement design to reflect R-111-P and ensure cement integrity in production string.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Emily Follis TITLE Sr. Regulatory Administrator DATE 01/30/2020

Type or print name Emily Follis E-mail address: emily_follis@eogresources.com PHONE: 432-848-9163
For State Use Only

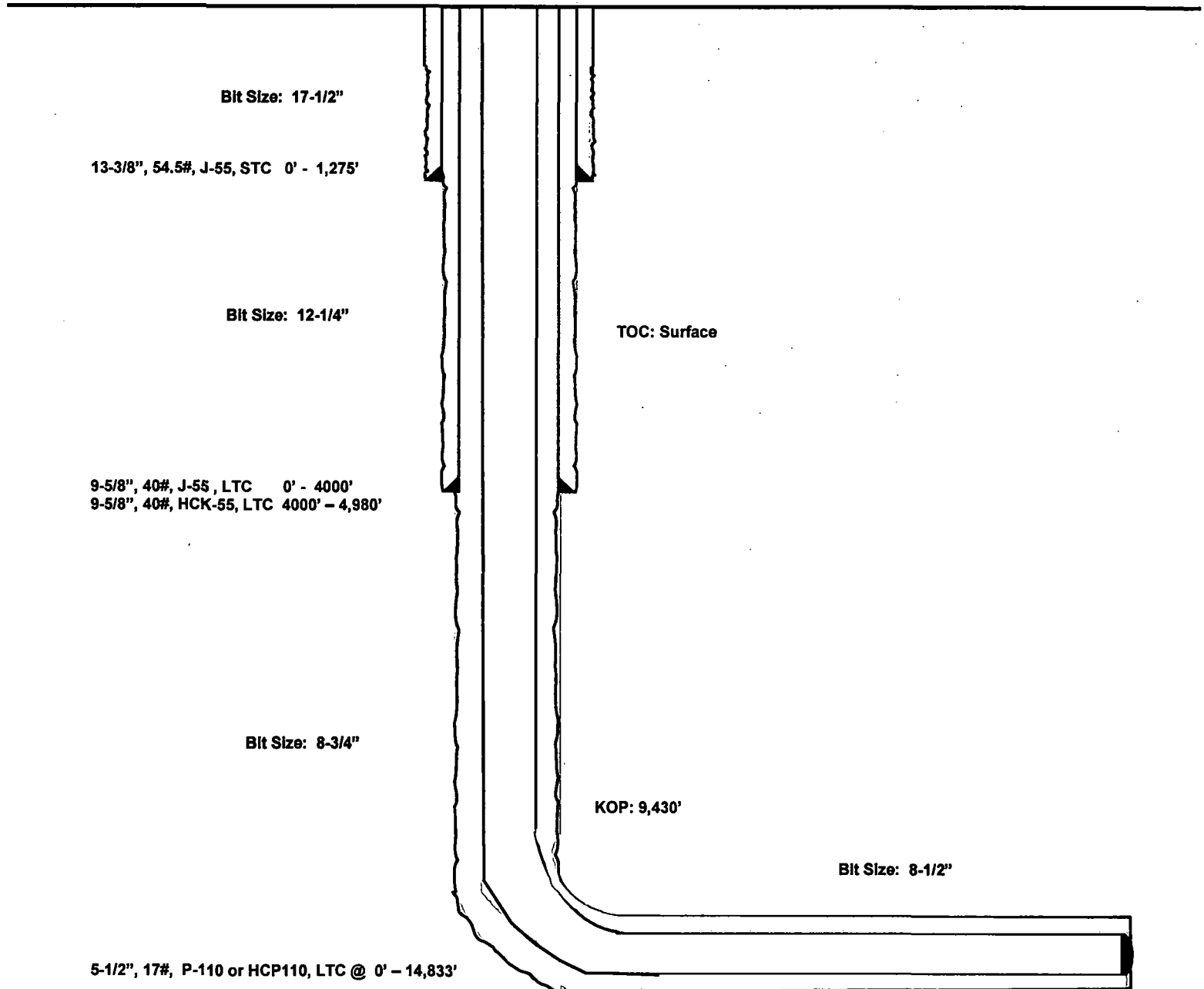
APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 02/03/2020
Conditions of Approval (if any):

Hemlock 32 State #204H
Lea County, New Mexico

392' FSL
1927' FWL
Section 32
T-23-S, R-33-E

Revised Wellbore
1/30/2020
API: 30-025-46755

KB: 3,691'
GL: 3,666'



Lateral: 14,833' MD, 9,885' TVD
BH Location: 100' FNL & 2309' FWL
Section 32
T-23-S, R-33-E

EOG RESOURCES, INC.
HEMLOCK 32 STATE #204H

Revised Permit Information:

Well Name: Hemlock 32 State #204H

Location:

SHL: 392' FSL & 1927' FWL, Section 32, T-23-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 2309' FWL, Section 32, T-23-S, R-33-E, Lea Co., N.M.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,275'	790	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	160	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
4,980'	500	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	350	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
14,833'	1,800	14.4	1.31	1 st Stage (Tail): Class H + 5% Salt (TOC @ 7,400')
	1,400	12.7	3.21	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ Surface)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hemlock 32 State

#204H

OH

Plan: Plan #0.1

Standard Planning Report

13 January, 2020



Planning Report

Database: EDM
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hemlock 32 State
Well: #204H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #204H
TVD Reference: KB = 25 @ 3691.0usft
MD Reference: KB = 25 @ 3691.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Hemlock 32 State			
Site Position:		Northing:	457,257.00 usft	Latitude: 32° 15' 17.825 N
From:	Map	Easting:	767,769.00 usft	Longitude: 103° 36' 3.080 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.39 °

Well	#204H			
Well Position	+N/-S	35.0 usft	Northing:	457,292.00 usft
	+E/-W	1,299.0 usft	Easting:	769,068.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 3,666.0 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	1/13/2020	6.69	60.05	47,687.28099517	

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	4.19

Plan Survey Tool Program	Date 1/13/2020				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	14,833.3 Plan #0.1 (OH)	EOG MWD+IFR1	MWD + IFR1	

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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,649.9	5.00	131.53	1,649.6	-7.2	8.2	2.00	2.00	0.00	131.53	
7,302.2	5.00	131.53	7,280.4	-333.8	376.8	0.00	0.00	0.00	0.00	
7,552.1	0.00	0.00	7,530.0	-341.0	385.0	2.00	-2.00	0.00	180.00	
9,429.6	0.00	0.00	9,407.5	-341.0	385.0	0.00	0.00	0.00	0.00	KOP(Hemlock 32 Sta
10,179.6	90.00	359.62	9,885.0	136.5	381.8	12.00	12.00	-0.05	359.62	
14,833.3	90.00	359.62	9,885.0	4,790.0	351.0	0.00	0.00	0.00	0.00	PBHL(Hemlock 32 Sta



Planning Report

Database: EDM
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hemlock 32 State
Well: #204H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #204H
TVD Reference: KB = 25 @ 3691.0usft
MD Reference: KB = 25 @ 3691.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	2.00	131.53	1,500.0	-1.2	1.3	-1.1	2.00	2.00	0.00
1,600.0	4.00	131.53	1,599.8	-4.6	5.2	-4.2	2.00	2.00	0.00
1,649.9	5.00	131.53	1,649.6	-7.2	8.2	-6.6	2.00	2.00	0.00
1,700.0	5.00	131.53	1,699.5	-10.1	11.4	-9.3	0.00	0.00	0.00
1,800.0	5.00	131.53	1,799.1	-15.9	17.9	-14.5	0.00	0.00	0.00
1,900.0	5.00	131.53	1,898.7	-21.7	24.5	-19.8	0.00	0.00	0.00
2,000.0	5.00	131.53	1,998.4	-27.4	31.0	-25.1	0.00	0.00	0.00
2,100.0	5.00	131.53	2,098.0	-33.2	37.5	-30.4	0.00	0.00	0.00
2,200.0	5.00	131.53	2,197.6	-39.0	44.0	-35.7	0.00	0.00	0.00
2,300.0	5.00	131.53	2,297.2	-44.8	50.6	-41.0	0.00	0.00	0.00
2,400.0	5.00	131.53	2,396.8	-50.6	57.1	-46.3	0.00	0.00	0.00
2,500.0	5.00	131.53	2,496.4	-56.3	63.6	-51.5	0.00	0.00	0.00
2,600.0	5.00	131.53	2,596.1	-62.1	70.1	-56.8	0.00	0.00	0.00
2,700.0	5.00	131.53	2,695.7	-67.9	76.7	-62.1	0.00	0.00	0.00
2,800.0	5.00	131.53	2,795.3	-73.7	83.2	-67.4	0.00	0.00	0.00
2,900.0	5.00	131.53	2,894.9	-79.4	89.7	-72.7	0.00	0.00	0.00
3,000.0	5.00	131.53	2,994.5	-85.2	96.2	-78.0	0.00	0.00	0.00
3,100.0	5.00	131.53	3,094.2	-91.0	102.7	-83.2	0.00	0.00	0.00
3,200.0	5.00	131.53	3,193.8	-96.8	109.3	-88.5	0.00	0.00	0.00
3,300.0	5.00	131.53	3,293.4	-102.6	115.8	-93.8	0.00	0.00	0.00
3,400.0	5.00	131.53	3,393.0	-108.3	122.3	-99.1	0.00	0.00	0.00
3,500.0	5.00	131.53	3,492.6	-114.1	128.8	-104.4	0.00	0.00	0.00
3,600.0	5.00	131.53	3,592.3	-119.9	135.4	-109.7	0.00	0.00	0.00
3,700.0	5.00	131.53	3,691.9	-125.7	141.9	-115.0	0.00	0.00	0.00
3,800.0	5.00	131.53	3,791.5	-131.4	148.4	-120.2	0.00	0.00	0.00
3,900.0	5.00	131.53	3,891.1	-137.2	154.9	-125.5	0.00	0.00	0.00
4,000.0	5.00	131.53	3,990.7	-143.0	161.4	-130.8	0.00	0.00	0.00
4,100.0	5.00	131.53	4,090.4	-148.8	168.0	-136.1	0.00	0.00	0.00
4,200.0	5.00	131.53	4,190.0	-154.6	174.5	-141.4	0.00	0.00	0.00
4,300.0	5.00	131.53	4,289.6	-160.3	181.0	-146.7	0.00	0.00	0.00
4,400.0	5.00	131.53	4,389.2	-166.1	187.5	-152.0	0.00	0.00	0.00
4,500.0	5.00	131.53	4,488.8	-171.9	194.1	-157.2	0.00	0.00	0.00
4,600.0	5.00	131.53	4,588.5	-177.7	200.6	-162.5	0.00	0.00	0.00
4,700.0	5.00	131.53	4,688.1	-183.4	207.1	-167.8	0.00	0.00	0.00
4,800.0	5.00	131.53	4,787.7	-189.2	213.6	-173.1	0.00	0.00	0.00
4,900.0	5.00	131.53	4,887.3	-195.0	220.2	-178.4	0.00	0.00	0.00
5,000.0	5.00	131.53	4,986.9	-200.8	226.7	-183.7	0.00	0.00	0.00
5,100.0	5.00	131.53	5,086.6	-206.5	233.2	-189.0	0.00	0.00	0.00
5,200.0	5.00	131.53	5,186.2	-212.3	239.7	-194.2	0.00	0.00	0.00



Planning Report

Database: EDM
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hemlock 32 State
Well: #204H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #204H
TVD Reference: KB = 25 @ 3691.0usft
MD Reference: KB = 25 @ 3691.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	5.00	131.53	5,285.8	-218.1	246.2	-199.5	0.00	0.00	0.00
5,400.0	5.00	131.53	5,385.4	-223.9	252.8	-204.8	0.00	0.00	0.00
5,500.0	5.00	131.53	5,485.0	-229.7	259.3	-210.1	0.00	0.00	0.00
5,600.0	5.00	131.53	5,584.7	-235.4	265.8	-215.4	0.00	0.00	0.00
5,700.0	5.00	131.53	5,684.3	-241.2	272.3	-220.7	0.00	0.00	0.00
5,800.0	5.00	131.53	5,783.9	-247.0	278.9	-225.9	0.00	0.00	0.00
5,900.0	5.00	131.53	5,883.5	-252.8	285.4	-231.2	0.00	0.00	0.00
6,000.0	5.00	131.53	5,983.1	-258.5	291.9	-236.5	0.00	0.00	0.00
6,100.0	5.00	131.53	6,082.8	-264.3	298.4	-241.8	0.00	0.00	0.00
6,200.0	5.00	131.53	6,182.4	-270.1	304.9	-247.1	0.00	0.00	0.00
6,300.0	5.00	131.53	6,282.0	-275.9	311.5	-252.4	0.00	0.00	0.00
6,400.0	5.00	131.53	6,381.6	-281.7	318.0	-257.7	0.00	0.00	0.00
6,500.0	5.00	131.53	6,481.2	-287.4	324.5	-262.9	0.00	0.00	0.00
6,600.0	5.00	131.53	6,580.9	-293.2	331.0	-268.2	0.00	0.00	0.00
6,700.0	5.00	131.53	6,680.5	-299.0	337.6	-273.5	0.00	0.00	0.00
6,800.0	5.00	131.53	6,780.1	-304.8	344.1	-278.8	0.00	0.00	0.00
6,900.0	5.00	131.53	6,879.7	-310.5	350.6	-284.1	0.00	0.00	0.00
7,000.0	5.00	131.53	6,979.3	-316.3	357.1	-289.4	0.00	0.00	0.00
7,100.0	5.00	131.53	7,079.0	-322.1	363.7	-294.7	0.00	0.00	0.00
7,200.0	5.00	131.53	7,178.6	-327.9	370.2	-299.9	0.00	0.00	0.00
7,302.2	5.00	131.53	7,280.4	-333.8	376.8	-305.3	0.00	0.00	0.00
7,400.0	3.04	131.53	7,377.9	-338.3	382.0	-309.5	2.00	-2.00	0.00
7,500.0	1.04	131.53	7,477.9	-340.7	384.6	-311.7	2.00	-2.00	0.00
7,552.1	0.00	0.00	7,530.0	-341.0	385.0	-312.0	2.00	-2.00	0.00
7,600.0	0.00	0.00	7,577.9	-341.0	385.0	-312.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,677.9	-341.0	385.0	-312.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,777.9	-341.0	385.0	-312.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,877.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,977.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,077.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,177.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,277.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,377.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,477.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,577.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,677.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,777.9	-341.0	385.0	-312.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,877.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,000.0	0.00	0.00	8,977.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,077.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,177.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,277.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,377.9	-341.0	385.0	-312.0	0.00	0.00	0.00
9,429.6	0.00	0.00	9,407.5	-341.0	385.0	-312.0	0.00	0.00	0.00
9,450.0	2.44	359.62	9,427.9	-340.6	385.0	-311.5	12.00	12.00	0.00
9,475.0	5.44	359.62	9,452.8	-338.8	385.0	-309.8	12.00	12.00	0.00
9,500.0	8.44	359.62	9,477.6	-335.8	385.0	-306.8	12.00	12.00	0.00
9,525.0	11.44	359.62	9,502.2	-331.5	384.9	-302.5	12.00	12.00	0.00
9,550.0	14.44	359.62	9,526.6	-325.9	384.9	-296.9	12.00	12.00	0.00
9,575.0	17.44	359.62	9,550.6	-319.0	384.9	-290.1	12.00	12.00	0.00
9,600.0	20.44	359.62	9,574.3	-310.9	384.8	-282.0	12.00	12.00	0.00
9,625.0	23.44	359.62	9,597.5	-301.6	384.7	-272.7	12.00	12.00	0.00
9,650.0	26.44	359.62	9,620.1	-291.0	384.7	-262.2	12.00	12.00	0.00
9,675.0	29.44	359.62	9,642.2	-279.3	384.6	-250.5	12.00	12.00	0.00



Planning Report

Database: EDM
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hemlock 32 State
 Well: #204H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #204H
 TVD Reference: KB = 25 @ 3691.0usft
 MD Reference: KB = 25 @ 3691.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
9,700.0	32.44	359.62	9,663.6	-266.5	384.5	-237.7	12.00	12.00	0.00
9,725.0	35.44	359.62	9,684.4	-252.5	384.4	-223.7	12.00	12.00	0.00
9,750.0	38.44	359.62	9,704.4	-237.5	384.3	-208.8	12.00	12.00	0.00
9,775.0	41.44	359.62	9,723.5	-221.4	384.2	-192.8	12.00	12.00	0.00
9,800.0	44.44	359.62	9,741.8	-204.4	384.1	-175.8	12.00	12.00	0.00
9,825.0	47.44	359.62	9,759.2	-186.5	384.0	-157.9	12.00	12.00	0.00
9,850.0	50.44	359.62	9,775.6	-167.6	383.9	-139.1	12.00	12.00	0.00
9,875.0	53.44	359.62	9,791.0	-147.9	383.7	-119.5	12.00	12.00	0.00
9,900.0	56.44	359.62	9,805.4	-127.5	383.6	-99.1	12.00	12.00	0.00
9,925.0	59.44	359.62	9,818.7	-106.3	383.4	-78.0	12.00	12.00	0.00
9,950.0	62.44	359.62	9,830.8	-84.4	383.3	-56.2	12.00	12.00	0.00
9,975.0	65.44	359.62	9,841.8	-62.0	383.2	-33.8	12.00	12.00	0.00
10,000.0	68.44	359.62	9,851.6	-39.0	383.0	-10.9	12.00	12.00	0.00
10,025.0	71.44	359.62	9,860.1	-15.5	382.8	12.5	12.00	12.00	0.00
10,050.0	74.44	359.62	9,867.5	8.4	382.7	36.4	12.00	12.00	0.00
10,075.0	77.44	359.62	9,873.5	32.7	382.5	60.5	12.00	12.00	0.00
10,100.0	80.44	359.62	9,878.3	57.2	382.4	85.0	12.00	12.00	0.00
10,125.0	83.44	359.62	9,881.8	81.9	382.2	109.7	12.00	12.00	0.00
10,150.0	86.44	359.62	9,884.0	106.8	382.0	134.5	12.00	12.00	0.00
10,175.0	89.44	359.62	9,884.9	131.8	381.9	159.4	12.00	12.00	0.00
10,179.6	90.00	359.62	9,885.0	136.5	381.8	164.0	12.00	12.00	0.00
10,200.0	90.00	359.62	9,885.0	156.8	381.7	184.3	0.00	0.00	0.00
10,300.0	90.00	359.62	9,885.0	256.8	381.0	284.0	0.00	0.00	0.00
10,400.0	90.00	359.62	9,885.0	356.8	380.4	383.7	0.00	0.00	0.00
10,500.0	90.00	359.62	9,885.0	456.8	379.7	483.3	0.00	0.00	0.00
10,600.0	90.00	359.62	9,885.0	556.8	379.1	583.0	0.00	0.00	0.00
10,700.0	90.00	359.62	9,885.0	656.8	378.4	682.7	0.00	0.00	0.00
10,800.0	90.00	359.62	9,885.0	756.8	377.7	782.4	0.00	0.00	0.00
10,900.0	90.00	359.62	9,885.0	856.8	377.1	882.1	0.00	0.00	0.00
11,000.0	90.00	359.62	9,885.0	956.8	376.4	981.8	0.00	0.00	0.00
11,100.0	90.00	359.62	9,885.0	1,056.8	375.7	1,081.4	0.00	0.00	0.00
11,200.0	90.00	359.62	9,885.0	1,156.8	375.1	1,181.1	0.00	0.00	0.00
11,300.0	90.00	359.62	9,885.0	1,256.8	374.4	1,280.8	0.00	0.00	0.00
11,400.0	90.00	359.62	9,885.0	1,356.8	373.7	1,380.5	0.00	0.00	0.00
11,500.0	90.00	359.62	9,885.0	1,456.8	373.1	1,480.2	0.00	0.00	0.00
11,600.0	90.00	359.62	9,885.0	1,556.8	372.4	1,579.8	0.00	0.00	0.00
11,700.0	90.00	359.62	9,885.0	1,656.8	371.8	1,679.5	0.00	0.00	0.00
11,800.0	90.00	359.62	9,885.0	1,756.8	371.1	1,779.2	0.00	0.00	0.00
11,900.0	90.00	359.62	9,885.0	1,856.8	370.4	1,878.9	0.00	0.00	0.00
12,000.0	90.00	359.62	9,885.0	1,956.8	369.8	1,978.6	0.00	0.00	0.00
12,100.0	90.00	359.62	9,885.0	2,056.8	369.1	2,078.3	0.00	0.00	0.00
12,200.0	90.00	359.62	9,885.0	2,156.8	368.4	2,177.9	0.00	0.00	0.00
12,300.0	90.00	359.62	9,885.0	2,256.8	367.8	2,277.6	0.00	0.00	0.00
12,400.0	90.00	359.62	9,885.0	2,356.8	367.1	2,377.3	0.00	0.00	0.00
12,500.0	90.00	359.62	9,885.0	2,456.8	366.5	2,477.0	0.00	0.00	0.00
12,600.0	90.00	359.62	9,885.0	2,556.8	365.8	2,576.7	0.00	0.00	0.00
12,700.0	90.00	359.62	9,885.0	2,656.8	365.1	2,676.3	0.00	0.00	0.00
12,800.0	90.00	359.62	9,885.0	2,756.8	364.5	2,776.0	0.00	0.00	0.00
12,900.0	90.00	359.62	9,885.0	2,856.8	363.8	2,875.7	0.00	0.00	0.00
13,000.0	90.00	359.62	9,885.0	2,956.8	363.1	2,975.4	0.00	0.00	0.00
13,100.0	90.00	359.62	9,885.0	3,056.8	362.5	3,075.1	0.00	0.00	0.00
13,200.0	90.00	359.62	9,885.0	3,156.8	361.8	3,174.8	0.00	0.00	0.00
13,300.0	90.00	359.62	9,885.0	3,256.8	361.2	3,274.4	0.00	0.00	0.00
13,400.0	90.00	359.62	9,885.0	3,356.8	360.5	3,374.1	0.00	0.00	0.00



Planning Report

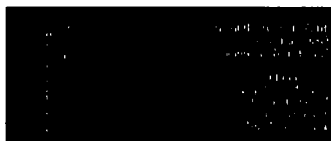
Database:	EDM	Local Co-ordinate Reference:	Well #204H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3691.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3691.0usft
Site:	Hemlock 32 State	North Reference:	Grid
Well:	#204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	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)
13,500.0	90.00	359.62	9,885.0	3,456.7	359.8	3,473.8	0.00	0.00	0.00
13,600.0	90.00	359.62	9,885.0	3,556.7	359.2	3,573.5	0.00	0.00	0.00
13,700.0	90.00	359.62	9,885.0	3,656.7	358.5	3,673.2	0.00	0.00	0.00
13,800.0	90.00	359.62	9,885.0	3,756.7	357.8	3,772.8	0.00	0.00	0.00
13,900.0	90.00	359.62	9,885.0	3,856.7	357.2	3,872.5	0.00	0.00	0.00
14,000.0	90.00	359.62	9,885.0	3,956.7	356.5	3,972.2	0.00	0.00	0.00
14,100.0	90.00	359.62	9,885.0	4,056.7	355.9	4,071.9	0.00	0.00	0.00
14,200.0	90.00	359.62	9,885.0	4,156.7	355.2	4,171.6	0.00	0.00	0.00
14,300.0	90.00	359.62	9,885.0	4,256.7	354.5	4,271.3	0.00	0.00	0.00
14,400.0	90.00	359.62	9,885.0	4,356.7	353.9	4,370.9	0.00	0.00	0.00
14,500.0	90.00	359.62	9,885.0	4,456.7	353.2	4,470.6	0.00	0.00	0.00
14,600.0	90.00	359.62	9,885.0	4,556.7	352.5	4,570.3	0.00	0.00	0.00
14,700.0	90.00	359.62	9,885.0	4,656.7	351.9	4,670.0	0.00	0.00	0.00
14,800.0	90.00	359.62	9,885.0	4,756.7	351.2	4,769.7	0.00	0.00	0.00
14,833.3	90.00	359.62	9,885.0	4,790.0	351.0	4,802.8	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Hemlock 32 State #1) - hit/miss target - Shape - Point	0.00	0.00	9,407.5	-341.0	385.0	456,951.00	769,453.00	32° 15' 14.683 N	103° 35' 43.495 W
FTP(Hemlock 32 State #2) - plan misses target center by 163.4usft at 9828.8usft MD (9761.8 TVD, -183.7 N, 384.0 E) - Point	0.00	0.00	9,885.0	-291.0	385.0	457,001.00	769,453.00	32° 15' 15.177 N	103° 35' 43.491 W
PBHL(Hemlock 32 State #3) - plan hits target center - Point	0.00	0.00	9,885.0	4,790.0	351.0	462,082.00	769,419.00	32° 16' 5.457 N	103° 35' 43.480 W



To convert a Magnetic Direction to a Grid Direction, Add 8.29°
 To convert a Magnetic Direction to a True Direction, Add 8.59° East
 To convert a True Direction to a Grid Direction, Subtract 0.30°

Lea County, NM (NAD 83 NME)

Hemlock 32 State #204H

Plan #0.1

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: #204H

KB = 25 @ 3691.0usft 3866.0
 Northing Easting Latitude Longitude
 457292.00 789068.00 32° 15' 18.023 N 103° 35' 47.951 W

SECTION DETAILS

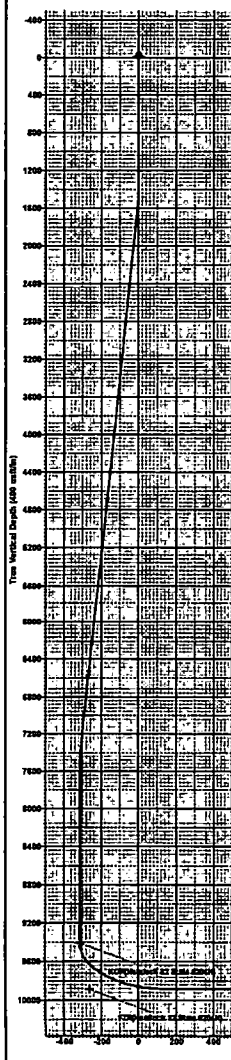
Loc	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	1649.9	5.00	131.53	1649.6	-7.2	8.2	2.00	131.53	-6.6	
4	7302.2	5.00	131.53	7280.4	-333.8	376.8	0.00	0.00	-305.3	
5	7652.1	0.00	0.00	7530.0	-341.0	385.0	2.00	180.00	-312.0	
6	9429.6	0.00	0.00	9407.5	-341.0	385.0	0.00	0.00	-312.0	KOP(Hemlock 32 State #204H)
7	10179.6	90.00	359.62	9885.0	136.5	381.8	12.00	359.62	164.0	
8	14833.3	90.00	359.62	9885.0	4790.0	351.0	0.00	0.00	4802.8	PBHL(Hemlock 32 State #204H)

CASING DETAILS

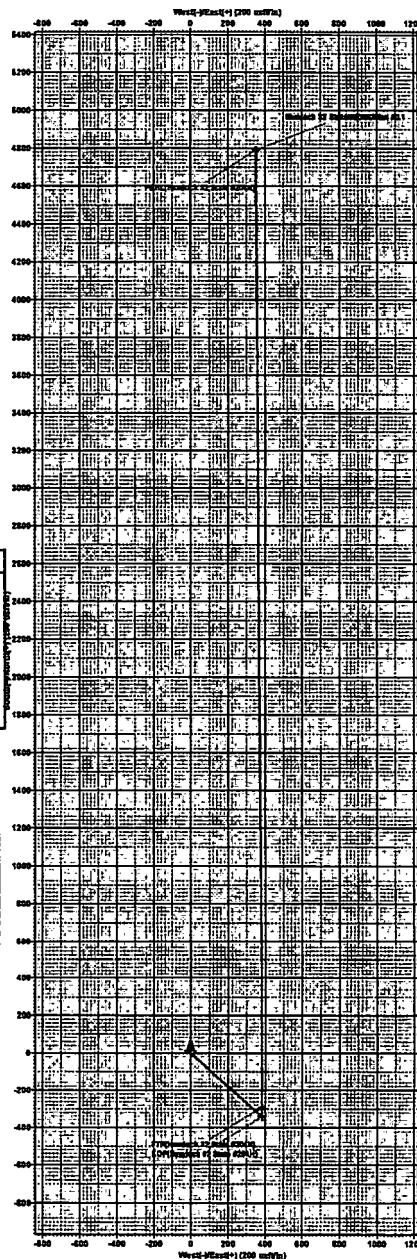
No casing data is available

WELLSBORI TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(Hemlock 32 State #204H)	9407.5	-341.0	385.0	458961.00	789483.00
PBHL(Hemlock 32 State #204H)	9885.0	4790.0	351.0	482262.00	789418.00
FTP(Hemlock 32 State #204H)	9885.0	-291.0	385.0	457701.00	789429.00



Vertical Section at 4.19° (200 units)



Horizontal Section at 4.19° (200 units)