

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) 748-1281 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-3144
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3466

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

HOBBS OCD
JAN 28 2015
RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- L12387	² Pool Code 96682	³ Pool Name Triste Draw; Bone Spring East
⁴ Property Code 314122	⁵ Property Name FRAZIER 34 STATE Com	⁶ Well Number #502H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3505'

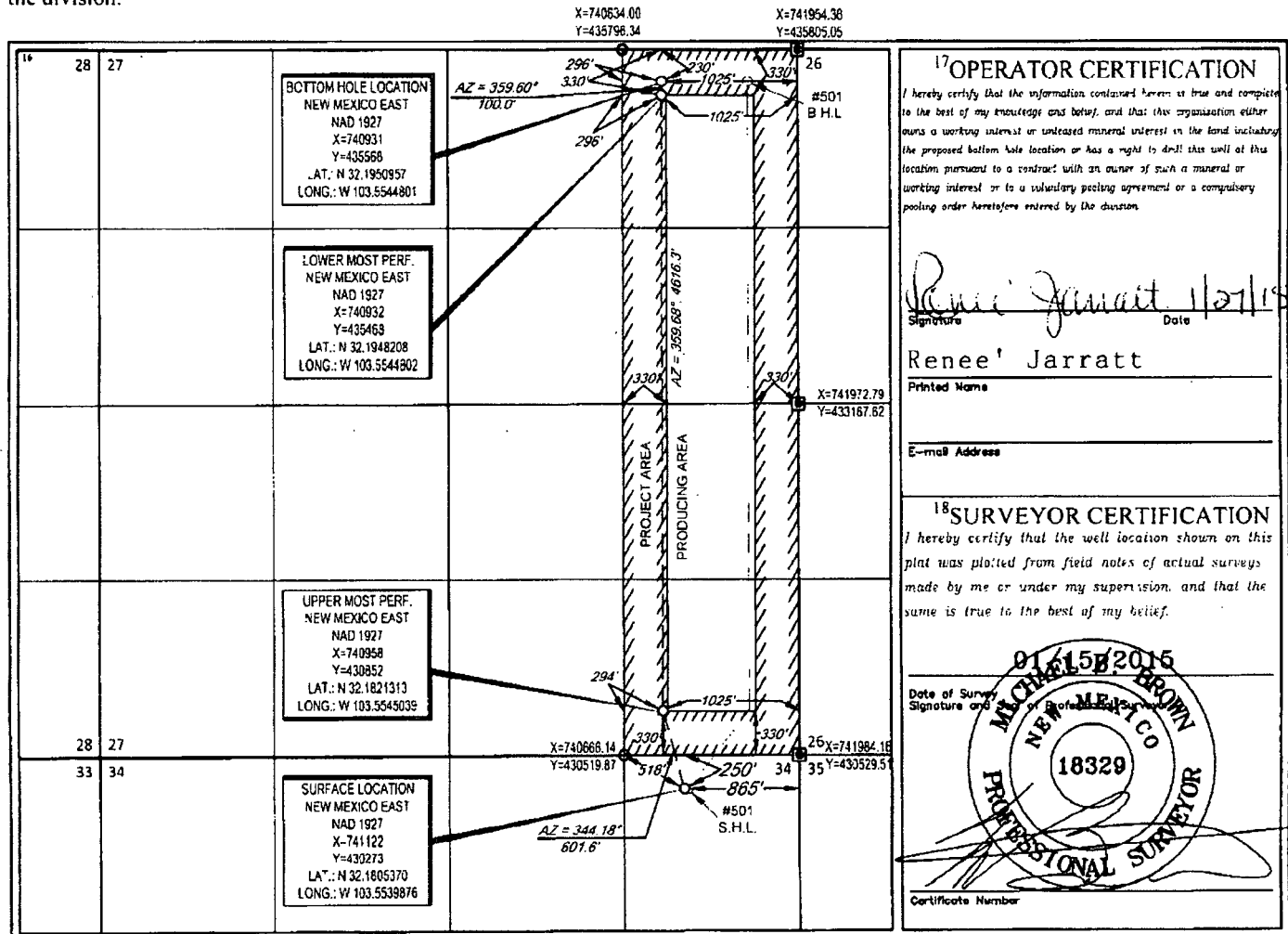
¹⁰Surface Location

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	24-S	33-E	-	250'	NORTH	865'	EAST	LEA

U.L. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	27	24-S	33-E	-	230'	NORTH	1025'	EAST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



S:\SURVEY\EOG_MIDLAND\FRAZIER_34_STATE\FINAL_PRODUCT\SILO_FRAZIER_34_STATE_502H_REV2.DWG 1/23/2015 2:19:25 PM svillagrana

JAN 29 2015

Permit Information:

30-025-42387

Well Name: Frazier 34 State Com No. 502H

Location:

SL: 250' FNL & 865' FEL, Section 34, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1025' FEL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1225'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 5000'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-15,927'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1225'	500	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,000'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
15,927'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4500')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1300	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1225'	Fresh - Gel	8.6-8.8	28-34	N/c
1205' - 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' - 10,309'	Cut Brine	8.4-9.0	28-34	N/c
10,309' - 15,927' Lateral	Cut Brine	9.0-9.5	40-42	8-10

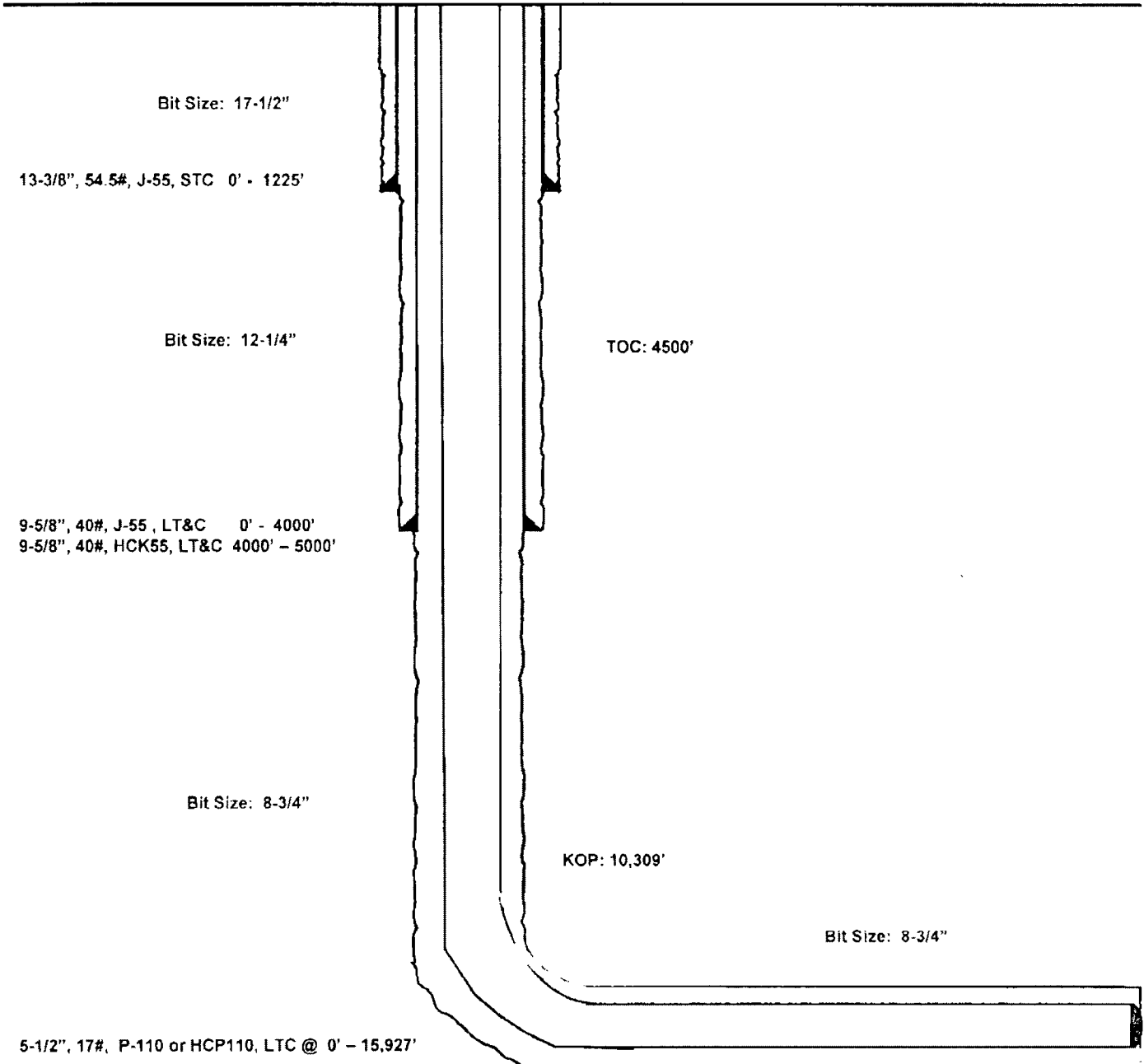
Frazier 34 State Com #502H
Lea County, New Mexico

250' FNL
865' FEL
Section 34
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,530'
GL: 3,505'



Lateral: 15,927' MD, 10,863' TVD

BH Location: 230' FNL & 1025' FEL
Section 27
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)

Frazier 34 State Com #502H

H&P 328

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: U.S. State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #502H

Ground Level: 3585.0
KB = 24 @ 3529 Depth (H&P 328)
Nothing 430773.00
Easting 741122.00
Latitude 37° 10' 48.931 N
Longitude 103° 33' 14.352 W

Azimuths to Grid North
True North: 0.41°
Magnetic North: 8.77°

Magnetic Field
Strength: 48142.8nT
Dip Angle: 85.05°
Date: 5/26/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction: Add 8.77°
To convert a Magnetic Direction to a True Direction: Add 7.18° East
To convert a True Direction to a Grid Direction: Subtract 0.42°

SECTION DETAILS

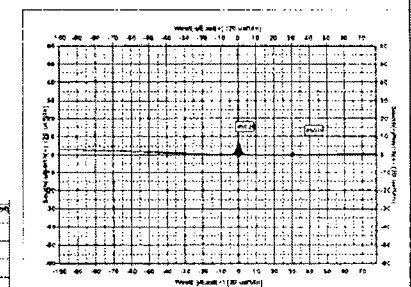
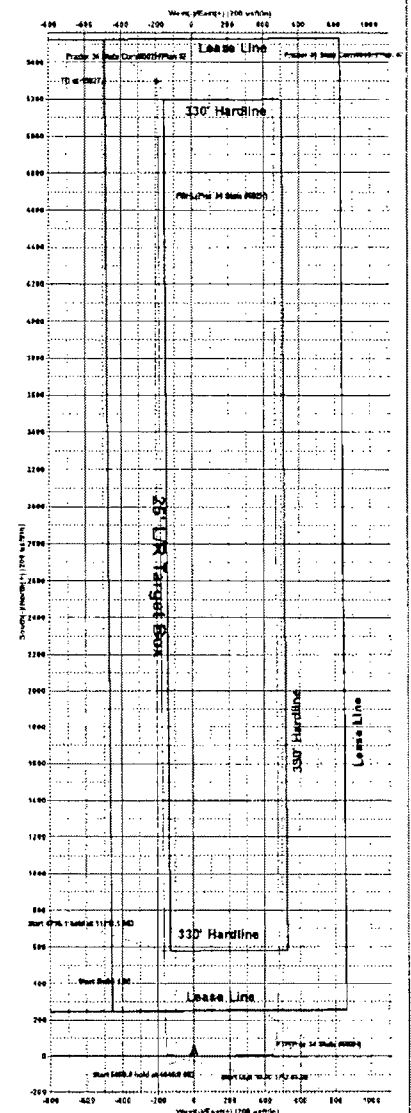
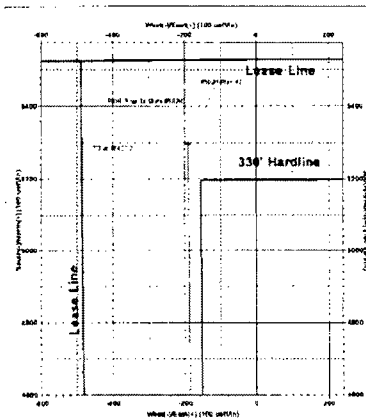
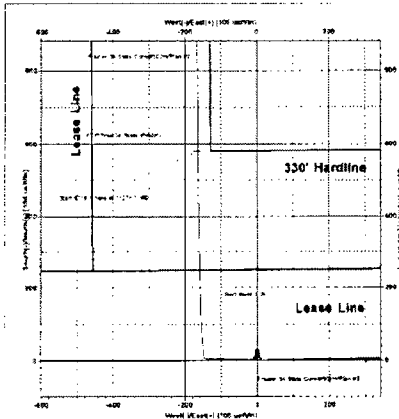
Sec	MD	Inc	Azi	TYD	+N/S	+E/W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4509.0	0.00	0.00	4509.0	0.0	0.0	0.00	0.00	0.0	
3	4646.0	1.46	271.62	4646.0	0.1	-1.9	1.00	271.62	0.4	
4	10309.6	1.46	271.62	10309.7	4.1	-146.1	0.00	0.00	34.6	
5	11211.1	90.20	359.67	10880.0	579.0	-164.0	10.00	88.05	600.5	FTP(Fraz 34 State #502H)
6	15927.2	90.20	359.67	10863.5	5295.0	-191.0	0.00	0.00	5218.0	PBHL(Fraz 34 State #502H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TYD	+N/S	+E/W	Nothing	Easting
PBHL(Fraz 34 State #502H)	10863.5	5295.0	-191.0	430773.00	740931.00
FTP(Fraz 34 State #502H)	10880.0	579.0	-164.0	430982.00	740968.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Frazier 34 State Com

#502H

OH

Plan: Plan #2

Standard Planning Report

26 January, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Frazier 34 State Com
Well: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
TVD Reference: KB = 24 @ 3529.0usft (H&P 328)
MD Reference: KB = 24 @ 3529.0usft (H&P 328)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Frazier 34 State Com			
Site Position:		Northing:	430,273.00 usft	Latitude: 32° 10' 49.929 N
From:	Map	Easting:	741,152.00 usft	Longitude: 103° 33' 14.003 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 °

Well	#502H			
Well Position	+N/-S	0.0 usft	Northing:	430,273.00 usft
	+E/-W	-30.0 usft	Easting:	741,122.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft
			Ground Level:	3,505.0 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	IGRF2015	3/26/2015	7.18	60.05
				Field Strength (nT) 48,143

Design	Plan #2			
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	347.94

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,646.0	1.46	271.62	4,646.0	0.1	-1.9	1.00	1.00	0.00	271.62	
10,309.6	1.46	271.62	10,307.7	4.1	-146.1	0.00	0.00	0.00	0.00	
11,211.1	90.20	359.67	10,880.0	579.0	-164.0	10.00	9.84	9.77	88.05	FTP(Fraz 34 State #5
15,927.2	90.20	359.67	10,863.5	5,295.0	-191.0	0.00	0.00	0.00	0.00	PBHL(Fraz 34 State #



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Frazier 34 State Com
Well: #502H
Wellbore: OH
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Local Co-ordinate Reference: Well #502H
TVD Reference: KB = 24 @ 3529.0usft (H&P 328)
MD Reference: KB = 24 @ 3529.0usft (H&P 328)
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)	Buird 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	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	271.62	4,600.0	0.0	-0.9	0.2	1.00	1.00	0.00
4,646.0	1.46	271.62	4,646.0	0.1	-1.9	0.4	1.00	1.00	0.00
4,700.0	1.46	271.62	4,700.0	0.1	-3.2	0.8	0.00	0.00	0.00
4,800.0	1.46	271.62	4,799.9	0.2	-5.8	1.4	0.00	0.00	0.00
4,900.0	1.46	271.62	4,899.9	0.2	-8.3	2.0	0.00	0.00	0.00
5,000.0	1.46	271.62	4,999.9	0.3	-10.9	2.6	0.00	0.00	0.00
5,100.0	1.46	271.62	5,099.8	0.4	-13.4	3.2	0.00	0.00	0.00
5,200.0	1.46	271.62	5,199.8	0.5	-16.0	3.8	0.00	0.00	0.00



EOG Resources, Inc.
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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	1.46	271.62	5,299.8	0.5	-18.5	4.4	0.00	0.00	0.00
5,400.0	1.46	271.62	5,399.7	0.6	-21.1	5.0	0.00	0.00	0.00
5,500.0	1.46	271.62	5,499.7	0.7	-23.6	5.6	0.00	0.00	0.00
5,600.0	1.46	271.62	5,599.7	0.7	-26.2	6.2	0.00	0.00	0.00
5,700.0	1.46	271.62	5,699.6	0.8	-28.7	6.8	0.00	0.00	0.00
5,800.0	1.46	271.62	5,799.6	0.9	-31.2	7.4	0.00	0.00	0.00
5,900.0	1.46	271.62	5,899.6	1.0	-33.8	8.0	0.00	0.00	0.00
6,000.0	1.46	271.62	5,999.5	1.0	-36.3	8.6	0.00	0.00	0.00
6,100.0	1.46	271.62	6,099.5	1.1	-38.9	9.2	0.00	0.00	0.00
6,200.0	1.46	271.62	6,199.5	1.2	-41.4	9.8	0.00	0.00	0.00
6,300.0	1.46	271.62	6,299.4	1.2	-44.0	10.4	0.00	0.00	0.00
6,400.0	1.46	271.62	6,399.4	1.3	-46.5	11.0	0.00	0.00	0.00
6,500.0	1.46	271.62	6,499.4	1.4	-49.1	11.6	0.00	0.00	0.00
6,600.0	1.46	271.62	6,599.3	1.5	-51.6	12.2	0.00	0.00	0.00
6,700.0	1.46	271.62	6,699.3	1.5	-54.2	12.8	0.00	0.00	0.00
6,800.0	1.46	271.62	6,799.3	1.6	-56.7	13.4	0.00	0.00	0.00
6,900.0	1.46	271.62	6,899.3	1.7	-59.3	14.0	0.00	0.00	0.00
7,000.0	1.46	271.62	6,999.2	1.7	-61.8	14.6	0.00	0.00	0.00
7,100.0	1.46	271.62	7,099.2	1.8	-64.4	15.2	0.00	0.00	0.00
7,200.0	1.46	271.62	7,199.2	1.9	-66.9	15.8	0.00	0.00	0.00
7,300.0	1.46	271.62	7,299.1	2.0	-69.4	16.4	0.00	0.00	0.00
7,400.0	1.46	271.62	7,399.1	2.0	-72.0	17.0	0.00	0.00	0.00
7,500.0	1.46	271.62	7,499.1	2.1	-74.5	17.6	0.00	0.00	0.00
7,600.0	1.46	271.62	7,599.0	2.2	-77.1	18.2	0.00	0.00	0.00
7,700.0	1.46	271.62	7,699.0	2.3	-79.6	18.8	0.00	0.00	0.00
7,800.0	1.46	271.62	7,799.0	2.3	-82.2	19.4	0.00	0.00	0.00
7,900.0	1.46	271.62	7,898.9	2.4	-84.7	20.1	0.00	0.00	0.00
8,000.0	1.46	271.62	7,998.9	2.5	-87.3	20.7	0.00	0.00	0.00
8,100.0	1.46	271.62	8,098.9	2.5	-89.8	21.3	0.00	0.00	0.00
8,200.0	1.46	271.62	8,198.8	2.6	-92.4	21.9	0.00	0.00	0.00
8,300.0	1.46	271.62	8,298.8	2.7	-94.9	22.5	0.00	0.00	0.00
8,400.0	1.46	271.62	8,398.8	2.8	-97.5	23.1	0.00	0.00	0.00
8,500.0	1.46	271.62	8,498.7	2.8	-100.0	23.7	0.00	0.00	0.00
8,600.0	1.46	271.62	8,598.7	2.9	-102.5	24.3	0.00	0.00	0.00
8,700.0	1.46	271.62	8,698.7	3.0	-105.1	24.9	0.00	0.00	0.00
8,800.0	1.46	271.62	8,798.6	3.0	-107.6	25.5	0.00	0.00	0.00
8,900.0	1.46	271.62	8,898.6	3.1	-110.2	26.1	0.00	0.00	0.00
9,000.0	1.46	271.62	8,998.6	3.2	-112.7	26.7	0.00	0.00	0.00
9,100.0	1.46	271.62	9,098.5	3.3	-115.3	27.3	0.00	0.00	0.00
9,200.0	1.46	271.62	9,198.5	3.3	-117.8	27.9	0.00	0.00	0.00
9,300.0	1.46	271.62	9,298.5	3.4	-120.4	28.5	0.00	0.00	0.00
9,400.0	1.46	271.62	9,398.4	3.5	-122.9	29.1	0.00	0.00	0.00
9,500.0	1.46	271.62	9,498.4	3.5	-125.5	29.7	0.00	0.00	0.00
9,600.0	1.46	271.62	9,598.4	3.6	-128.0	30.3	0.00	0.00	0.00
9,700.0	1.46	271.62	9,698.3	3.7	-130.6	30.9	0.00	0.00	0.00
9,800.0	1.46	271.62	9,798.3	3.8	-133.1	31.5	0.00	0.00	0.00
9,900.0	1.46	271.62	9,898.3	3.8	-135.7	32.1	0.00	0.00	0.00
10,000.0	1.46	271.62	9,998.2	3.9	-138.2	32.7	0.00	0.00	0.00
10,100.0	1.46	271.62	10,098.2	4.0	-140.7	33.3	0.00	0.00	0.00
10,200.0	1.46	271.62	10,198.2	4.1	-143.3	33.9	0.00	0.00	0.00
10,309.6	1.46	271.62	10,307.7	4.1	-146.1	34.6	0.00	0.00	0.00
10,350.0	4.34	340.07	10,348.1	5.6	-147.1	36.2	10.00	7.13	169.37
10,400.0	9.21	350.63	10,397.7	11.3	-148.4	42.1	10.00	9.73	21.10
10,450.0	14.17	353.88	10,446.7	21.4	-149.7	52.2	10.00	9.92	0.50



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Frazier 34 State Com
Well: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
TVD Reference: KB = 24 @ 3529.0usft (H&P 328)
MD Reference: KB = 24 @ 3529.0usft (H&P 328)
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)
10,500.0	19.15	355.46	10,494.6	35.6	-151.0	66.4	10.00	9.96	3.17
10,550.0	24.13	356.41	10,541.0	54.0	-152.3	84.6	10.00	9.98	1.90
10,600.0	29.12	357.05	10,585.7	76.4	-153.6	106.8	10.00	9.98	1.28
10,650.0	34.12	357.51	10,628.3	102.5	-154.8	132.6	10.00	9.99	0.93
10,700.0	39.11	357.87	10,668.4	132.3	-156.0	162.0	10.00	9.99	0.72
10,750.0	44.11	358.16	10,705.8	165.5	-157.2	194.7	10.00	9.99	0.58
10,800.0	49.11	358.40	10,740.1	201.8	-158.2	230.4	10.00	9.99	0.48
10,850.0	54.10	358.61	10,771.2	241.0	-159.3	268.9	10.00	9.99	0.42
10,900.0	59.10	358.79	10,798.7	282.7	-160.2	309.9	10.00	10.00	0.37
10,950.0	64.10	358.96	10,822.4	326.7	-161.1	353.1	10.00	10.00	0.33
11,000.0	69.10	359.11	10,842.3	372.5	-161.8	398.1	10.00	10.00	0.30
11,050.0	74.10	359.25	10,858.1	420.0	-162.5	444.6	10.00	10.00	0.28
11,100.0	79.10	359.39	10,869.7	468.6	-163.1	492.3	10.00	10.00	0.27
11,150.0	84.09	359.52	10,877.0	518.0	-163.6	540.8	10.00	10.00	0.26
11,200.0	89.09	359.64	10,879.9	567.9	-163.9	589.6	10.00	10.00	0.26
11,211.1	90.20	359.67	10,880.0	579.0	-164.0	600.5	10.00	10.00	0.25
FTP(Fraz 34 State #502H)									
11,300.0	90.20	359.67	10,879.7	667.9	-164.5	687.5	0.00	0.00	0.00
11,400.0	90.20	359.67	10,879.3	767.9	-165.1	785.4	0.00	0.00	0.00
11,500.0	90.20	359.67	10,879.0	867.9	-165.7	883.4	0.00	0.00	0.00
11,600.0	90.20	359.67	10,878.6	967.9	-166.2	981.3	0.00	0.00	0.00
11,700.0	90.20	359.67	10,878.3	1,067.9	-166.8	1,079.2	0.00	0.00	0.00
11,800.0	90.20	359.67	10,877.9	1,167.9	-167.4	1,177.1	0.00	0.00	0.00
11,900.0	90.20	359.67	10,877.6	1,267.9	-167.9	1,275.0	0.00	0.00	0.00
12,000.0	90.20	359.67	10,877.2	1,367.9	-168.5	1,372.9	0.00	0.00	0.00
12,100.0	90.20	359.67	10,876.9	1,467.9	-169.1	1,470.8	0.00	0.00	0.00
12,200.0	90.20	359.67	10,876.5	1,567.9	-169.7	1,568.7	0.00	0.00	0.00
12,300.0	90.20	359.67	10,876.2	1,667.9	-170.2	1,666.6	0.00	0.00	0.00
12,400.0	90.20	359.67	10,875.8	1,767.9	-170.8	1,764.5	0.00	0.00	0.00
12,500.0	90.20	359.67	10,875.5	1,867.9	-171.4	1,862.4	0.00	0.00	0.00
12,600.0	90.20	359.67	10,875.1	1,967.9	-172.0	1,960.4	0.00	0.00	0.00
12,700.0	90.20	359.67	10,874.8	2,067.9	-172.5	2,058.3	0.00	0.00	0.00
12,800.0	90.20	359.67	10,874.4	2,167.9	-173.1	2,156.2	0.00	0.00	0.00
12,900.0	90.20	359.67	10,874.1	2,267.9	-173.7	2,254.1	0.00	0.00	0.00
13,000.0	90.20	359.67	10,873.7	2,367.9	-174.2	2,352.0	0.00	0.00	0.00
13,100.0	90.20	359.67	10,873.4	2,467.9	-174.8	2,449.9	0.00	0.00	0.00
13,200.0	90.20	359.67	10,873.0	2,567.9	-175.4	2,547.8	0.00	0.00	0.00
13,300.0	90.20	359.67	10,872.7	2,667.9	-176.0	2,645.7	0.00	0.00	0.00
13,400.0	90.20	359.67	10,872.3	2,767.9	-176.5	2,743.6	0.00	0.00	0.00
13,500.0	90.20	359.67	10,872.0	2,867.9	-177.1	2,841.5	0.00	0.00	0.00
13,600.0	90.20	359.67	10,871.6	2,967.9	-177.7	2,939.4	0.00	0.00	0.00
13,700.0	90.20	359.67	10,871.3	3,067.9	-178.2	3,037.4	0.00	0.00	0.00
13,800.0	90.20	359.67	10,870.9	3,167.9	-178.8	3,135.3	0.00	0.00	0.00
13,900.0	90.20	359.67	10,870.6	3,267.8	-179.4	3,233.2	0.00	0.00	0.00
14,000.0	90.20	359.67	10,870.2	3,367.8	-180.0	3,331.1	0.00	0.00	0.00
14,100.0	90.20	359.67	10,869.9	3,467.8	-180.5	3,429.0	0.00	0.00	0.00
14,200.0	90.20	359.67	10,869.5	3,567.8	-181.1	3,526.9	0.00	0.00	0.00
14,300.0	90.20	359.67	10,869.2	3,667.8	-181.7	3,624.8	0.00	0.00	0.00
14,400.0	90.20	359.67	10,868.8	3,767.8	-182.3	3,722.7	0.00	0.00	0.00
14,500.0	90.20	359.67	10,868.5	3,867.8	-182.8	3,820.6	0.00	0.00	0.00
14,600.0	90.20	359.67	10,868.1	3,967.8	-183.4	3,918.5	0.00	0.00	0.00
14,700.0	90.20	359.67	10,867.8	4,067.8	-184.0	4,016.4	0.00	0.00	0.00
14,800.0	90.20	359.67	10,867.4	4,167.8	-184.5	4,114.4	0.00	0.00	0.00



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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)
14,900.0	90.20	359.67	10,867.1	4,267.8	-185.1	4,212.3	0.00	0.00	0.00
15,000.0	90.20	359.67	10,866.7	4,367.8	-185.7	4,310.2	0.00	0.00	0.00
15,100.0	90.20	359.67	10,866.4	4,467.8	-186.3	4,408.1	0.00	0.00	0.00
15,200.0	90.20	359.67	10,866.0	4,567.8	-186.8	4,506.0	0.00	0.00	0.00
15,300.0	90.20	359.67	10,865.7	4,667.8	-187.4	4,603.9	0.00	0.00	0.00
15,400.0	90.20	359.67	10,865.3	4,767.8	-188.0	4,701.8	0.00	0.00	0.00
15,500.0	90.20	359.67	10,865.0	4,867.8	-188.6	4,799.7	0.00	0.00	0.00
15,600.0	90.20	359.67	10,864.6	4,967.8	-189.1	4,897.6	0.00	0.00	0.00
15,700.0	90.20	359.67	10,864.3	5,067.8	-189.7	4,995.5	0.00	0.00	0.00
15,800.0	90.20	359.67	10,863.9	5,167.8	-190.3	5,093.4	0.00	0.00	0.00
15,900.0	90.20	359.67	10,863.6	5,267.8	-190.8	5,191.4	0.00	0.00	0.00
15,927.2	90.20	359.67	10,863.5	5,295.0	-191.0	5,218.0	0.00	0.00	0.00

PBHL(Fraz 34 State #502H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL(Fraz 34 State #502H)	0.00	0.00	10,863.5	5,295.0	-191.0	435,568.00	740,931.00	32° 11' 42.342 N	103° 33' 16.128 W
- plan hits target center									
- Point									
FTP(Fraz 34 State #502H)	0.00	0.00	10,880.0	579.0	-164.0	430,852.00	740,958.00	32° 10' 55.673 N	103° 33' 16.211 W
- plan hits target center									
- Point									