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) 334-6178
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
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-43500

5. Indicate Type of Lease STATE ■ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Persimmon 24 State Com

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

8. Well Number 501H

2. Name of Operator: EOG Resources, Inc.

9. OGRID Number 7377

3. Address of Operator: P.O. Box 2267 Midland, TX 79702

10. Pool name or Wildcat: Berry; Bone Spring, North

4. Well Location
Unit Letter I : 2367 feet from the South line and 440 feet from the East line
Section 24 Township 21S Range 33E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3756' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☒	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:		Change in APD	☐	OTHER:			☐

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 Resources requests an amendment to our approved APD for this well to reflect changes in SHL, BHL, and drilling of a pilot hole.

Change SHL from 2367' FSL & 440' FEL TO: 2364' FSL & 330' FEL, 24-21S-33E
Change BHL from 230' FSL & 440' FEL TO: 230' FSL & 330' FEL, 25-21S-33E

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 Stan Wagner TITLE Regulatory Analyst DATE 1/17/17

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: TITLE Petroleum Engineer DATE 01/25/17

Conditions of Approval (if any):

Revised Permit Information 1/17/17:

Well Name: Persimmon 24 State Com No. 501H

Location:
SL: 2364' FSL & 330' FEL, Section 24, T-21-S, R-33-E, Lea Co., N.M.
BHL: 230' FSL & 330' FEL, Section 25, T-21-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 – 1,994'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000'-5,200'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' – 18,475	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
1,994'	600	13.5	1.75	Class C + 2% CaCl2 + 4% Gel + 0.25 pps Celloflake
	300	14.8	1.34	Class C + 2% CaCl2
5,200'	1200	12.7	1.90	35:65 Poz:Class C + 6% Gel + 3% CaCl2 + 0.5% CPT-45 + 0.45% CPT-20
	450	14.8	1.33	Class C + 0.20% CPT-19
12,500'	125	18.0	0.90	250' Btm Hole Plug - Class 'H' + 1.20% CD-31 + 0.20% R-3 + 5.00% Salt (1.252 lb/sk)
10,200' – 10,800'	300	18.0	0.90	600' Sidetrack Plug - Class 'H' + 1.20% CD-31 + 0.20% R-3 + 5.00% Salt (1.252 lb/sk)
18,475'	750	11.0	3.21	50:50 Poz:Class H + 0.4% CPT-503P + 3.0% CPT-45 + 5.0% Gypsum + 5.0% Salt + 0.15% Citric Acid + 0.15% CPT-20A + 1.0% CPT-19
	1400	14.4	1.20	50:50 Poz:Class H + 0.25% CPT-503P + 0.80% CPT-16A + 0.20% CPT-35 + 0.40% CPT-49 + 0.25% CPT-20A

Mud Program:

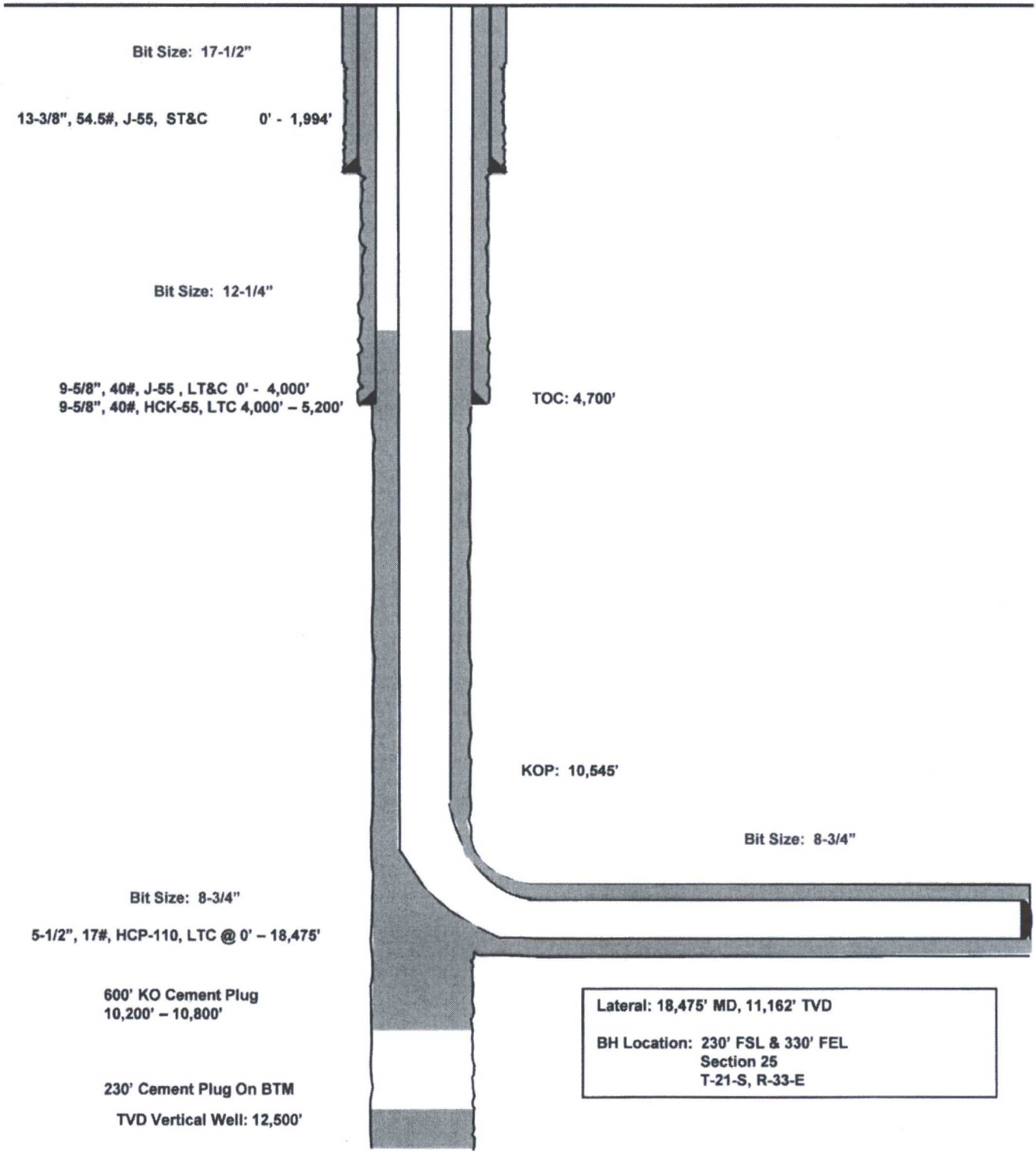
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,994'	Fresh - Gel	8.6-8.8	28-34	N/c
1,994' – 5,200'	Brine	8.8-10.0	28-34	N/c
5,200' – 12,500' Pilot Hole	Brine	8.8-10.0	28-34	N/c
10,545' – 18,475' Lateral	Brine	8.8-10.0	28-34	N/c

Persimmon 24 State Com #501H

2364' FSL
330' FEL
Section 24
T-21-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 1/17/17
API: 30-025-43500

KB: 3,782'
GL: 3,757'



eog resources

Lea County, NM (NAD 27 NME)

Persimmon 24 State Com #501H

Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Azimuths to Grid North
True North: -0.44°
Magnetic North: 6.56°

Magnetic Field
Strength: 48136.2snT
Dip Angle: 60.30°
Date: 12/13/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.56°
To convert a Magnetic Direction to a True Direction, Add 7.00° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

WELL DETAILS: #501H

Ground Level: 3757.0
KB = 25 @ 3782.0usft

Northing	Easting	Latitude	Longitude
533256.00	751435.00	32° 27' 48.216 N	103° 31' 8.246 W

SECTION DETAILS

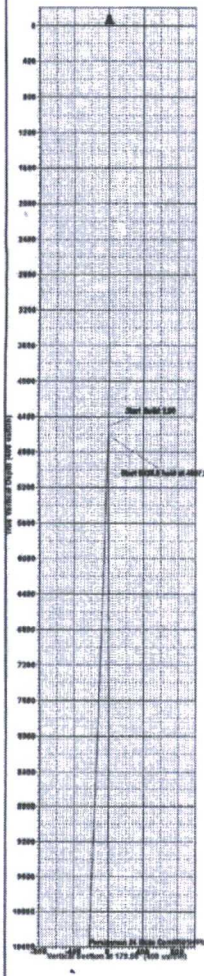
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4607.8	2.16	359.58	4607.8	2.0	0.0	2.00	359.58	-2.0	
4	10545.8	2.16	359.58	10541.6	225.5	-1.7	0.00	0.00	-225.5	
5	11305.5	89.00	179.56	11037.0	-243.3	1.9	12.00	179.98	243.3	
6	18475.5	89.00	179.56	11162.1	-7412.0	57.0	0.00	0.00	7411.4	PBHL (Persimmon 24 ST COM #501H

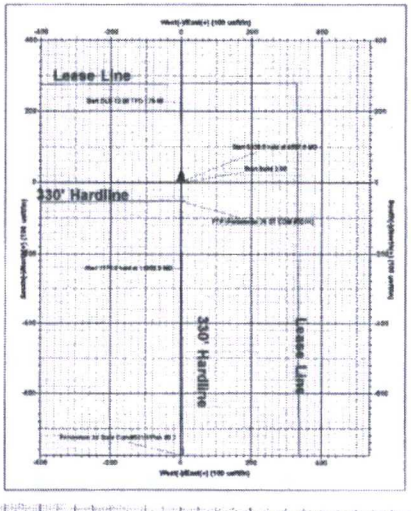
CASING DETAILS

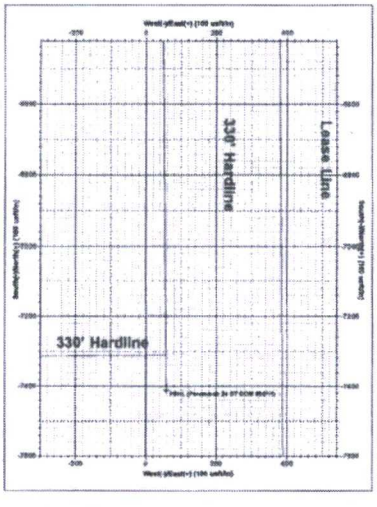
No casing data is available

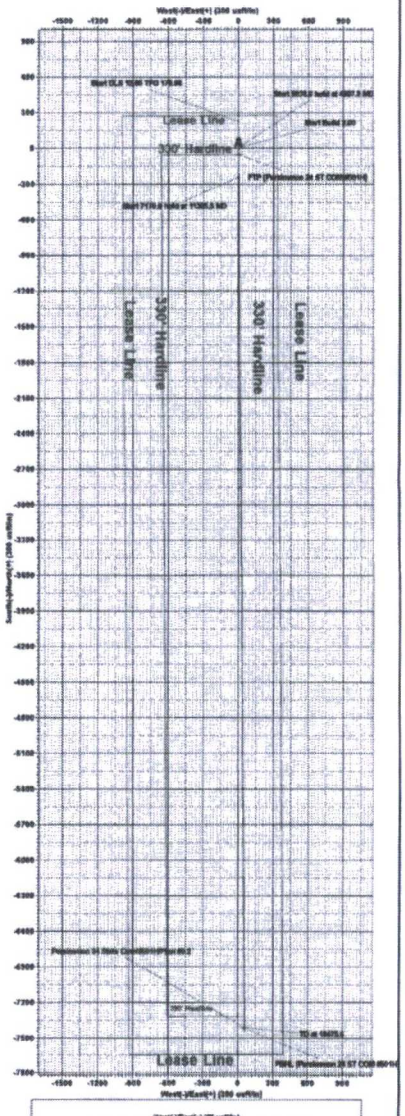
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

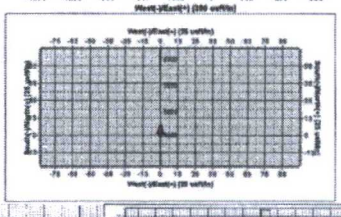
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Persimmon 24 ST COM #501H)	11162.1	-7412.0	57.0	525844.00	751492.00
FTP (Persimmon 24 ST COM #501H)	11037.0	-63.0	0.0	533203.00	751435.00

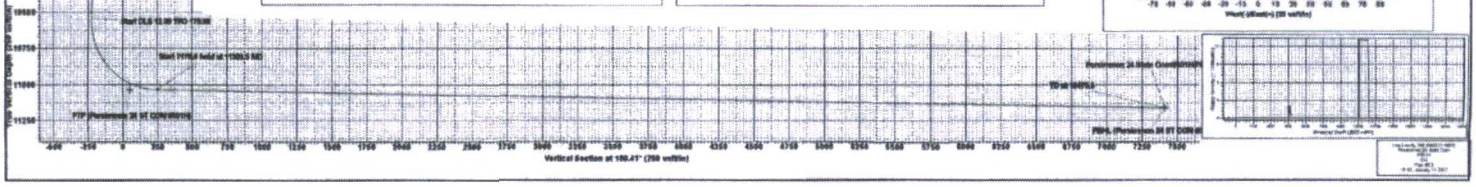












EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Persimmon 24 State Com
#501H

OH

Plan: Plan #0.2

Standard Planning Report

17 January, 2017

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	Persimmon 24 State Com				
Site Position:		**Northing:**	533,255.00 usft	**Latitude:**	32° 27' 48.215 N
From:	Map	**Easting:**	751,325.00 usft	**Longitude:**	103° 31' 6.530 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.44 °

Well	#501H					
Well Position	**+N/-S**	1.0 usft	**Northing:**	533,256.00 usft	**Latitude:**	32° 27' 48.216 N
	+E/-W	110.0 usft	**Easting:**	751,435.00 usft	**Longitude:**	103° 31' 5.246 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,757.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	12/13/2016	7.00	60.30	48,136

Design	Plan #0.2			
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	180.41

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	
4,607.8	2.16	359.58	4,607.8	2.0	0.0	2.00	2.00	0.00	359.58	
10,545.8	2.16	359.58	10,541.6	225.5	-1.7	0.00	0.00	0.00	0.00	
11,305.5	89.00	179.56	11,037.0	-243.3	1.9	12.00	11.43	23.69	179.98	
18,475.5	89.00	179.56	11,162.1	-7,412.0	57.0	0.00	0.00	0.00	0.00	PBHL (Persimmon 24

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	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
4,607.8	2.16	359.58	4,607.8	2.0	0.0	-2.0	2.00	2.00	0.00
4,700.0	2.16	359.58	4,699.9	5.5	0.0	-5.5	0.00	0.00	0.00
4,800.0	2.16	359.58	4,799.8	9.3	-0.1	-9.3	0.00	0.00	0.00
4,900.0	2.16	359.58	4,899.8	13.0	-0.1	-13.0	0.00	0.00	0.00
5,000.0	2.16	359.58	4,999.7	16.8	-0.1	-16.8	0.00	0.00	0.00
5,100.0	2.16	359.58	5,099.6	20.5	-0.2	-20.5	0.00	0.00	0.00
5,200.0	2.16	359.58	5,199.6	24.3	-0.2	-24.3	0.00	0.00	0.00
5,300.0	2.16	359.58	5,299.5	28.1	-0.2	-28.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
5,400.0	2.16	359.58	5,399.4	31.8	-0.2	-31.8	0.00	0.00	0.00
5,500.0	2.16	359.58	5,499.3	35.6	-0.3	-35.6	0.00	0.00	0.00
5,600.0	2.16	359.58	5,599.3	39.4	-0.3	-39.4	0.00	0.00	0.00
5,700.0	2.16	359.58	5,699.2	43.1	-0.3	-43.1	0.00	0.00	0.00
5,800.0	2.16	359.58	5,799.1	46.9	-0.3	-46.9	0.00	0.00	0.00
5,900.0	2.16	359.58	5,899.1	50.7	-0.4	-50.6	0.00	0.00	0.00
6,000.0	2.16	359.58	5,999.0	54.4	-0.4	-54.4	0.00	0.00	0.00
6,100.0	2.16	359.58	6,098.9	58.2	-0.4	-58.2	0.00	0.00	0.00
6,200.0	2.16	359.58	6,198.8	61.9	-0.5	-61.9	0.00	0.00	0.00
6,300.0	2.16	359.58	6,298.8	65.7	-0.5	-65.7	0.00	0.00	0.00
6,400.0	2.16	359.58	6,398.7	69.5	-0.5	-69.5	0.00	0.00	0.00
6,500.0	2.16	359.58	6,498.6	73.2	-0.5	-73.2	0.00	0.00	0.00
6,600.0	2.16	359.58	6,598.6	77.0	-0.6	-77.0	0.00	0.00	0.00
6,700.0	2.16	359.58	6,698.5	80.8	-0.6	-80.8	0.00	0.00	0.00
6,800.0	2.16	359.58	6,798.4	84.5	-0.6	-84.5	0.00	0.00	0.00
6,900.0	2.16	359.58	6,898.4	88.3	-0.6	-88.3	0.00	0.00	0.00
7,000.0	2.16	359.58	6,998.3	92.0	-0.7	-92.0	0.00	0.00	0.00
7,100.0	2.16	359.58	7,098.2	95.8	-0.7	-95.8	0.00	0.00	0.00
7,200.0	2.16	359.58	7,198.1	99.6	-0.7	-99.6	0.00	0.00	0.00
7,300.0	2.16	359.58	7,298.1	103.3	-0.8	-103.3	0.00	0.00	0.00
7,400.0	2.16	359.58	7,398.0	107.1	-0.8	-107.1	0.00	0.00	0.00
7,500.0	2.16	359.58	7,497.9	110.9	-0.8	-110.9	0.00	0.00	0.00
7,600.0	2.16	359.58	7,597.9	114.6	-0.8	-114.6	0.00	0.00	0.00
7,700.0	2.16	359.58	7,697.8	118.4	-0.9	-118.4	0.00	0.00	0.00
7,800.0	2.16	359.58	7,797.7	122.2	-0.9	-122.1	0.00	0.00	0.00
7,900.0	2.16	359.58	7,897.6	125.9	-0.9	-125.9	0.00	0.00	0.00
8,000.0	2.16	359.58	7,997.6	129.7	-1.0	-129.7	0.00	0.00	0.00
8,100.0	2.16	359.58	8,097.5	133.4	-1.0	-133.4	0.00	0.00	0.00
8,200.0	2.16	359.58	8,197.4	137.2	-1.0	-137.2	0.00	0.00	0.00
8,300.0	2.16	359.58	8,297.4	141.0	-1.0	-141.0	0.00	0.00	0.00
8,400.0	2.16	359.58	8,397.3	144.7	-1.1	-144.7	0.00	0.00	0.00
8,500.0	2.16	359.58	8,497.2	148.5	-1.1	-148.5	0.00	0.00	0.00
8,600.0	2.16	359.58	8,597.1	152.3	-1.1	-152.2	0.00	0.00	0.00
8,700.0	2.16	359.58	8,697.1	156.0	-1.1	-156.0	0.00	0.00	0.00
8,800.0	2.16	359.58	8,797.0	159.8	-1.2	-159.8	0.00	0.00	0.00
8,900.0	2.16	359.58	8,896.9	163.5	-1.2	-163.5	0.00	0.00	0.00
9,000.0	2.16	359.58	8,996.9	167.3	-1.2	-167.3	0.00	0.00	0.00
9,100.0	2.16	359.58	9,096.8	171.1	-1.3	-171.1	0.00	0.00	0.00
9,200.0	2.16	359.58	9,196.7	174.8	-1.3	-174.8	0.00	0.00	0.00
9,300.0	2.16	359.58	9,296.7	178.6	-1.3	-178.6	0.00	0.00	0.00
9,400.0	2.16	359.58	9,396.6	182.4	-1.3	-182.3	0.00	0.00	0.00
9,500.0	2.16	359.58	9,496.5	186.1	-1.4	-186.1	0.00	0.00	0.00
9,600.0	2.16	359.58	9,596.4	189.9	-1.4	-189.9	0.00	0.00	0.00
9,700.0	2.16	359.58	9,696.4	193.6	-1.4	-193.6	0.00	0.00	0.00
9,800.0	2.16	359.58	9,796.3	197.4	-1.5	-197.4	0.00	0.00	0.00
9,900.0	2.16	359.58	9,896.2	201.2	-1.5	-201.2	0.00	0.00	0.00
10,000.0	2.16	359.58	9,996.2	204.9	-1.5	-204.9	0.00	0.00	0.00
10,100.0	2.16	359.58	10,096.1	208.7	-1.5	-208.7	0.00	0.00	0.00
10,200.0	2.16	359.58	10,196.0	212.5	-1.6	-212.4	0.00	0.00	0.00
10,300.0	2.16	359.58	10,295.9	216.2	-1.6	-216.2	0.00	0.00	0.00
10,400.0	2.16	359.58	10,395.9	220.0	-1.6	-220.0	0.00	0.00	0.00
10,500.0	2.16	359.58	10,495.8	223.8	-1.6	-223.7	0.00	0.00	0.00
10,545.8	2.16	359.58	10,541.6	225.5	-1.7	-225.5	0.00	0.00	0.00
10,550.0	1.66	359.58	10,545.8	225.6	-1.7	-225.6	12.00	-12.00	0.13

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
10,575.0	1.34	179.53	10,570.8	225.7	-1.7	-225.7	12.00	-1.26	719.78
10,600.0	4.34	179.55	10,595.7	224.4	-1.7	-224.4	12.00	12.00	0.08
10,625.0	7.34	179.55	10,620.6	221.9	-1.6	-221.9	12.00	12.00	0.02
10,650.0	10.34	179.56	10,645.3	218.1	-1.6	-218.0	12.00	12.00	0.01
10,675.0	13.34	179.56	10,669.8	212.9	-1.6	-212.9	12.00	12.00	0.00
10,700.0	16.34	179.56	10,693.9	206.5	-1.5	-206.5	12.00	12.00	0.00
10,725.0	19.34	179.56	10,717.7	198.9	-1.5	-198.8	12.00	12.00	0.00
10,750.0	22.34	179.56	10,741.1	190.0	-1.4	-190.0	12.00	12.00	0.00
10,775.0	25.34	179.56	10,763.9	179.9	-1.3	-179.9	12.00	12.00	0.00
10,800.0	28.34	179.56	10,786.2	168.6	-1.2	-168.6	12.00	12.00	0.00
10,825.0	31.34	179.56	10,807.9	156.1	-1.1	-156.1	12.00	12.00	0.00
10,850.0	34.34	179.56	10,828.9	142.6	-1.0	-142.6	12.00	12.00	0.00
10,875.0	37.34	179.56	10,849.2	127.9	-0.9	-127.9	12.00	12.00	0.00
10,900.0	40.34	179.56	10,868.7	112.3	-0.8	-112.3	12.00	12.00	0.00
10,925.0	43.34	179.56	10,887.3	95.6	-0.7	-95.6	12.00	12.00	0.00
10,950.0	46.34	179.56	10,905.0	78.0	-0.5	-78.0	12.00	12.00	0.00
10,975.0	49.34	179.56	10,921.8	59.4	-0.4	-59.4	12.00	12.00	0.00
11,000.0	52.34	179.56	10,937.6	40.1	-0.2	-40.1	12.00	12.00	0.00
11,025.0	55.34	179.56	10,952.3	19.9	-0.1	-19.9	12.00	12.00	0.00
11,050.0	58.34	179.56	10,966.0	-1.1	0.1	1.1	12.00	12.00	0.00
11,075.0	61.34	179.56	10,978.6	-22.7	0.3	22.7	12.00	12.00	0.00
11,100.0	64.34	179.56	10,990.0	-44.9	0.4	44.9	12.00	12.00	0.00
11,125.0	67.34	179.56	11,000.2	-67.7	0.6	67.7	12.00	12.00	0.00
FTP (Persimmon 24 ST COM #501H)									
11,150.0	70.34	179.56	11,009.2	-91.0	0.8	91.0	12.00	12.00	0.00
11,175.0	73.34	179.56	11,017.0	-114.8	1.0	114.8	12.00	12.00	0.00
11,200.0	76.34	179.56	11,023.5	-138.9	1.1	138.9	12.00	12.00	0.00
11,225.0	79.34	179.56	11,028.8	-163.3	1.3	163.3	12.00	12.00	0.00
11,250.0	82.34	179.56	11,032.8	-188.0	1.5	188.0	12.00	12.00	0.00
11,275.0	85.34	179.56	11,035.5	-212.9	1.7	212.9	12.00	12.00	0.00
11,300.0	88.34	179.56	11,036.8	-237.8	1.9	237.8	12.00	12.00	0.00
11,305.5	89.00	179.56	11,037.0	-243.3	1.9	243.3	12.00	12.00	0.00
11,400.0	89.00	179.56	11,038.6	-337.8	2.7	337.8	0.00	0.00	0.00
11,500.0	89.00	179.56	11,040.4	-437.8	3.4	437.8	0.00	0.00	0.00
11,600.0	89.00	179.56	11,042.1	-537.8	4.2	537.7	0.00	0.00	0.00
11,700.0	89.00	179.56	11,043.9	-637.8	5.0	637.7	0.00	0.00	0.00
11,800.0	89.00	179.56	11,045.6	-737.7	5.7	737.7	0.00	0.00	0.00
11,900.0	89.00	179.56	11,047.3	-837.7	6.5	837.7	0.00	0.00	0.00
12,000.0	89.00	179.56	11,049.1	-937.7	7.3	937.6	0.00	0.00	0.00
12,100.0	89.00	179.56	11,050.8	-1,037.7	8.0	1,037.6	0.00	0.00	0.00
12,200.0	89.00	179.56	11,052.6	-1,137.7	8.8	1,137.6	0.00	0.00	0.00
12,300.0	89.00	179.56	11,054.3	-1,237.6	9.6	1,237.5	0.00	0.00	0.00
12,400.0	89.00	179.56	11,056.1	-1,337.6	10.4	1,337.5	0.00	0.00	0.00
12,500.0	89.00	179.56	11,057.8	-1,437.6	11.1	1,437.5	0.00	0.00	0.00
12,600.0	89.00	179.56	11,059.6	-1,537.6	11.9	1,537.5	0.00	0.00	0.00
12,700.0	89.00	179.56	11,061.3	-1,637.6	12.7	1,637.4	0.00	0.00	0.00
12,800.0	89.00	179.56	11,063.0	-1,737.6	13.4	1,737.4	0.00	0.00	0.00
12,900.0	89.00	179.56	11,064.8	-1,837.5	14.2	1,837.4	0.00	0.00	0.00
13,000.0	89.00	179.56	11,066.5	-1,937.5	15.0	1,937.4	0.00	0.00	0.00
13,100.0	89.00	179.56	11,068.3	-2,037.5	15.7	2,037.3	0.00	0.00	0.00
13,200.0	89.00	179.56	11,070.0	-2,137.5	16.5	2,137.3	0.00	0.00	0.00
13,300.0	89.00	179.56	11,071.8	-2,237.5	17.3	2,237.3	0.00	0.00	0.00
13,400.0	89.00	179.56	11,073.5	-2,337.4	18.0	2,337.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	89.00	179.56	11,075.3	-2,437.4	18.8	2,437.2	0.00	0.00	0.00
13,600.0	89.00	179.56	11,077.0	-2,537.4	19.6	2,537.2	0.00	0.00	0.00
13,700.0	89.00	179.56	11,078.8	-2,637.4	20.3	2,637.2	0.00	0.00	0.00
13,800.0	89.00	179.56	11,080.5	-2,737.4	21.1	2,737.2	0.00	0.00	0.00
13,900.0	89.00	179.56	11,082.2	-2,837.4	21.9	2,837.1	0.00	0.00	0.00
14,000.0	89.00	179.56	11,084.0	-2,937.3	22.6	2,937.1	0.00	0.00	0.00
14,100.0	89.00	179.56	11,085.7	-3,037.3	23.4	3,037.1	0.00	0.00	0.00
14,200.0	89.00	179.56	11,087.5	-3,137.3	24.2	3,137.0	0.00	0.00	0.00
14,300.0	89.00	179.56	11,089.2	-3,237.3	24.9	3,237.0	0.00	0.00	0.00
14,400.0	89.00	179.56	11,091.0	-3,337.3	25.7	3,337.0	0.00	0.00	0.00
14,500.0	89.00	179.56	11,092.7	-3,437.2	26.5	3,437.0	0.00	0.00	0.00
14,600.0	89.00	179.56	11,094.5	-3,537.2	27.2	3,536.9	0.00	0.00	0.00
14,700.0	89.00	179.56	11,096.2	-3,637.2	28.0	3,636.9	0.00	0.00	0.00
14,800.0	89.00	179.56	11,098.0	-3,737.2	28.8	3,736.9	0.00	0.00	0.00
14,900.0	89.00	179.56	11,099.7	-3,837.2	29.5	3,836.9	0.00	0.00	0.00
15,000.0	89.00	179.56	11,101.4	-3,937.2	30.3	3,936.8	0.00	0.00	0.00
15,100.0	89.00	179.56	11,103.2	-4,037.1	31.1	4,036.8	0.00	0.00	0.00
15,200.0	89.00	179.56	11,104.9	-4,137.1	31.9	4,136.8	0.00	0.00	0.00
15,300.0	89.00	179.56	11,106.7	-4,237.1	32.6	4,236.8	0.00	0.00	0.00
15,400.0	89.00	179.56	11,108.4	-4,337.1	33.4	4,336.7	0.00	0.00	0.00
15,500.0	89.00	179.56	11,110.2	-4,437.1	34.2	4,436.7	0.00	0.00	0.00
15,600.0	89.00	179.56	11,111.9	-4,537.0	34.9	4,536.7	0.00	0.00	0.00
15,700.0	89.00	179.56	11,113.7	-4,637.0	35.7	4,636.7	0.00	0.00	0.00
15,800.0	89.00	179.56	11,115.4	-4,737.0	36.5	4,736.6	0.00	0.00	0.00
15,900.0	89.00	179.56	11,117.2	-4,837.0	37.2	4,836.6	0.00	0.00	0.00
16,000.0	89.00	179.56	11,118.9	-4,937.0	38.0	4,936.6	0.00	0.00	0.00
16,100.0	89.00	179.56	11,120.6	-5,037.0	38.8	5,036.5	0.00	0.00	0.00
16,200.0	89.00	179.56	11,122.4	-5,136.9	39.5	5,136.5	0.00	0.00	0.00
16,300.0	89.00	179.56	11,124.1	-5,236.9	40.3	5,236.5	0.00	0.00	0.00
16,400.0	89.00	179.56	11,125.9	-5,336.9	41.1	5,336.5	0.00	0.00	0.00
16,500.0	89.00	179.56	11,127.6	-5,436.9	41.8	5,436.4	0.00	0.00	0.00
16,600.0	89.00	179.56	11,129.4	-5,536.9	42.6	5,536.4	0.00	0.00	0.00
16,700.0	89.00	179.56	11,131.1	-5,636.8	43.4	5,636.4	0.00	0.00	0.00
16,800.0	89.00	179.56	11,132.9	-5,736.8	44.1	5,736.4	0.00	0.00	0.00
16,900.0	89.00	179.56	11,134.6	-5,836.8	44.9	5,836.3	0.00	0.00	0.00
17,000.0	89.00	179.56	11,136.3	-5,936.8	45.7	5,936.3	0.00	0.00	0.00
17,100.0	89.00	179.56	11,138.1	-6,036.8	46.4	6,036.3	0.00	0.00	0.00
17,200.0	89.00	179.56	11,139.8	-6,136.8	47.2	6,136.3	0.00	0.00	0.00
17,300.0	89.00	179.56	11,141.6	-6,236.7	48.0	6,236.2	0.00	0.00	0.00
17,400.0	89.00	179.56	11,143.3	-6,336.7	48.7	6,336.2	0.00	0.00	0.00
17,500.0	89.00	179.56	11,145.1	-6,436.7	49.5	6,436.2	0.00	0.00	0.00
17,600.0	89.00	179.56	11,146.8	-6,536.7	50.3	6,536.2	0.00	0.00	0.00
17,700.0	89.00	179.56	11,148.6	-6,636.7	51.0	6,636.1	0.00	0.00	0.00
17,800.0	89.00	179.56	11,150.3	-6,736.6	51.8	6,736.1	0.00	0.00	0.00
17,900.0	89.00	179.56	11,152.1	-6,836.6	52.6	6,836.1	0.00	0.00	0.00
18,000.0	89.00	179.56	11,153.8	-6,936.6	53.3	6,936.1	0.00	0.00	0.00
18,100.0	89.00	179.56	11,155.5	-7,036.6	54.1	7,036.0	0.00	0.00	0.00
18,200.0	89.00	179.56	11,157.3	-7,136.6	54.9	7,136.0	0.00	0.00	0.00
18,300.0	89.00	179.56	11,159.0	-7,236.6	55.7	7,236.0	0.00	0.00	0.00
18,400.0	89.00	179.56	11,160.8	-7,336.5	56.4	7,335.9	0.00	0.00	0.00
18,475.5	89.00	179.56	11,162.1	-7,412.0	57.0	7,411.4	0.00	0.00	0.00
PBHL (Persimmon 24 ST COM #501H)									

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #501H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3782.0usft
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3782.0usft
Site:	Persimmon 24 State Com	**North Reference:**	Grid
Well:	#501H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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
FTP (Persimmon 24 ST - plan misses target center by 39.6usft at 11125.0usft MD (11000.2 TVD, -67.7 N, 0.6 E) - Point	0.00	0.00	11,037.0	-53.0	0.0	533,203.00	751,435.00	32° 27' 47.692 N	103° 31' 5.251 W
PBHL (Persimmon 24 S - plan hits target center - Point	0.00	0.00	11,162.1	-7,412.0	57.0	525,844.00	751,492.00	32° 26' 34.870 N	103° 31' 5.242 W