

Permit Information:

Well Name: Dragon 36 State No. 502H

HOBBS OCD**Location:**

SL: 555' FNL & 1145' FEL, Section 36, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 1380' FEL, Section 36, T-24-S, R-33-E, Lea Co., N.M.

MAR 31 2015**RECEIVED****Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1220'	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' - 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-15,977'	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
1220'	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
5,100'	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
15,977'	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 - 1220'	Fresh - Gel	8.6-8.8	28-34	N/c
1220' - 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' - 10,603'	Cut Brine	8.4-9.0	28-34	N/c
10,603' - 15,977' Lateral	Cut Brine	9.0-9.5	40-42	8-10

APR 08 2015

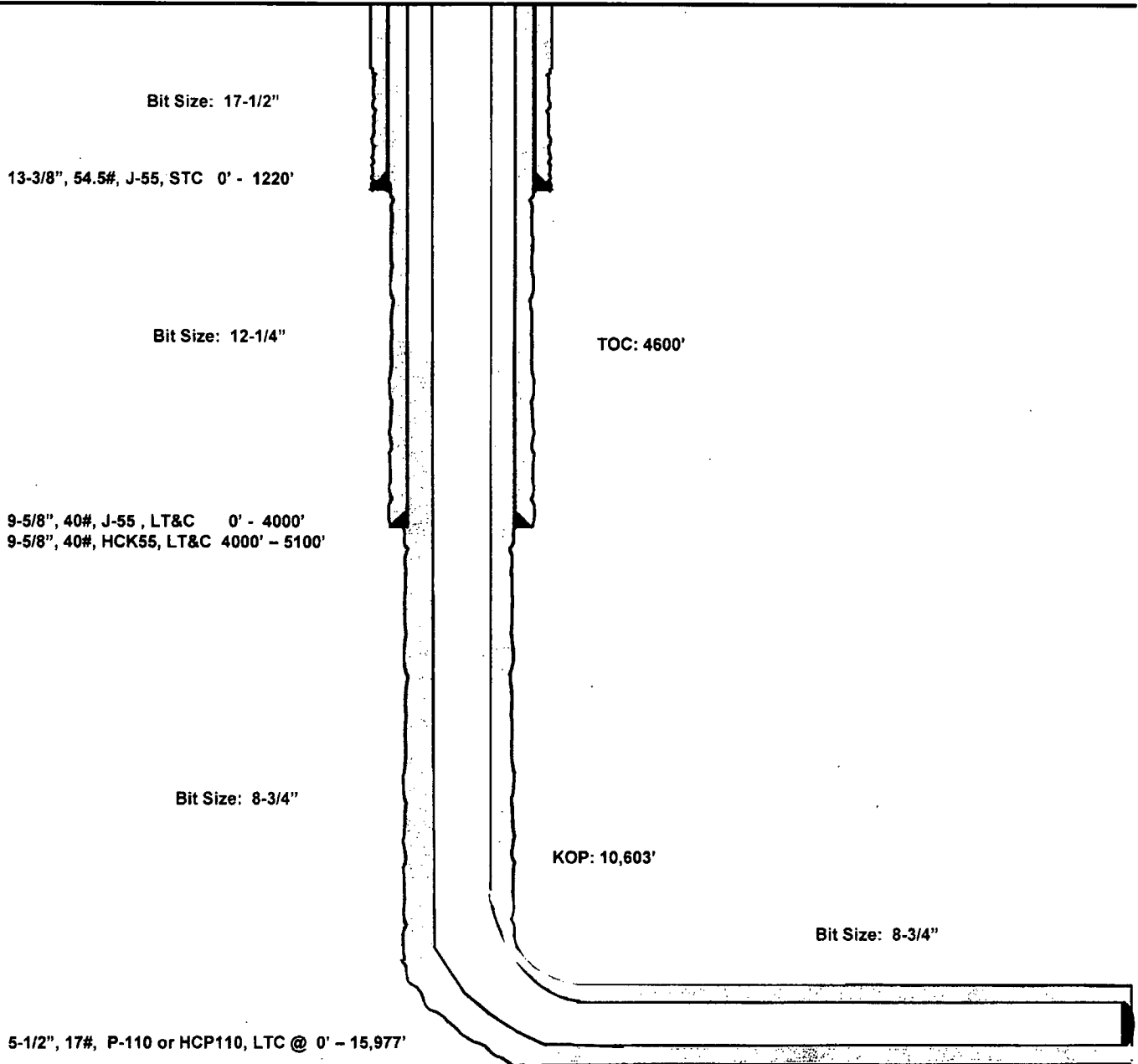
Dragon 36 State #502H
Lea County, New Mexico

555' FNL
1145' FEL
Section 36
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-*****

KB: 3,525'
GL: 3,500'



Lateral: 15,977' MD, 11,277' TVD

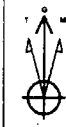
BH Location: 230' FSL & 1380' FEL
Section 36
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)
Dragon 36 State #502H
H&P 612
Plan #1

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: -0.43°
Magnetic North: 8.71°
Magnetic Field
Strength: 48124.7 nT
Dip Angle: 60.08°
Date: 8/8/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 9.71°
To convert a Magnetic Direction to a True Direction, Add 7.15° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #502H

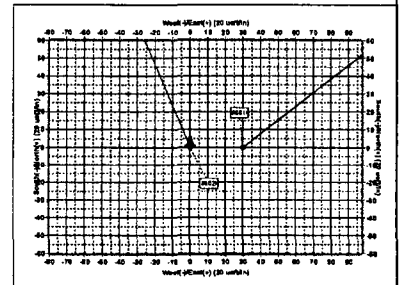
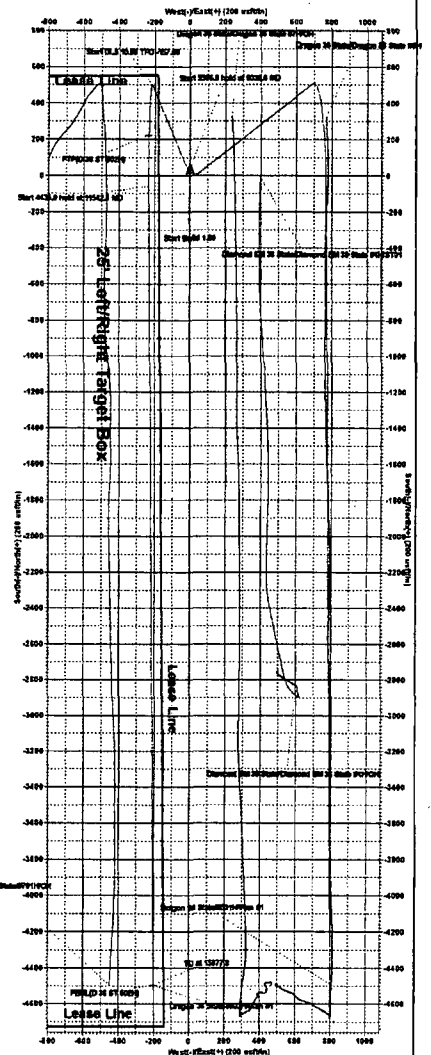
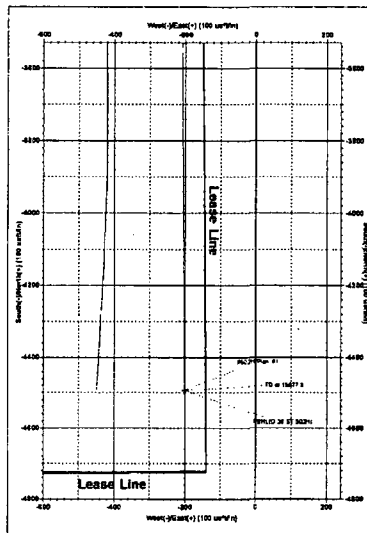
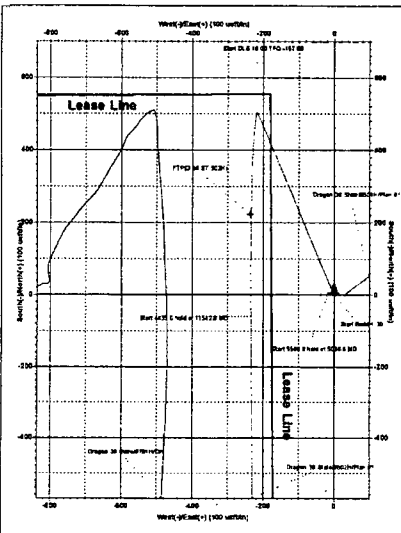
Ground Level: 3500.0
KB = 25 @ 3525 DASH (H&P 612)
Northing: 751413.0000 10 46.773 N
Easting: 103° 31' 14.858 W
Slot

SECTION DETAILS

Sec	MD	Inc	Alt	TVD	+W-S	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4800.0	0.00	0.00	4800.0	0.0	0.0	0.00	0.00	0.0		
3	5018.6	5.37	336.71	5035.8	23.1	-8.0	1.00	336.71	-22.6		
4	10803.4	8.37	336.71	10878.2	801.2	-316.5	0.00	0.00	-491.1		
5	11842.8	89.00	179.87	11200.0	-49.8	-233.0	10.00	-167.08	70.2		
6	15977.8	89.00	179.87	11277.4	-4434.0	-201.0	0.00	0.00	4495.6		PSHLID 36 ST 602H

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name: FTH(D 36 ST 602H)
TVD: 11200.0
Northing: 751413.00
Easting: 103° 31' 14.858 W
PSHLID 36 ST 602H
11277.4
-4434.0
-201.0
425835.00
781212.00
Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Dragon 36 State

#502H

OH

Plan: Plan #1

Standard Planning Report

31 March, 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: Dragon 36 State
Well: #502H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #502H
TVD Reference: KB = 25 @ 3525.0usft (H&P 612)
MD Reference: KB = 25 @ 3525.0usft (H&P 612)
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	Dragon 36 State			
Site Position:		Northing:	425,530.00 usft	Latitude: 32° 10' 2.209 N
From: Map		Easting:	751,878.00 usft	Longitude: 103° 31' 9.625 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.43 °

Well	#502H			
Well Position	+N/-S	4,500.0 usft	Northing:	430,030.00 usft
	+E/-W	-465.0 usft	Easting:	751,413.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,500.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/9/2015	7.15	60.06	48,125

Design	Plan #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	182.56

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	
5,036.6	5.37	336.71	5,035.8	23.1	-9.9	1.00	1.00	0.00	336.71	
10,603.4	5.37	336.71	10,578.2	501.2	-215.8	0.00	0.00	0.00	0.00	
11,542.8	89.00	179.57	11,200.0	-59.8	-233.9	10.00	8.90	-16.73	-157.08	
15,977.8	89.00	179.57	11,277.4	-4,494.0	-201.0	0.00	0.00	0.00	0.00	PBHL(D 36 ST 502H)



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 Design: Plan #1

Local Co-ordinate Reference: Well #502H
 TVD Reference: KB = 25 @ 3525.0usft (H&P 612)
 MD Reference: KB = 25 @ 3525.0usft (H&P 612)
 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	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	336.71	4,600.0	0.8	-0.3	-0.8	1.00	1.00	0.00
4,700.0	2.00	336.71	4,700.0	3.2	-1.4	-3.1	1.00	1.00	0.00
4,800.0	3.00	336.71	4,799.9	7.2	-3.1	-7.1	1.00	1.00	0.00
4,900.0	4.00	336.71	4,899.7	12.8	-5.5	-12.6	1.00	1.00	0.00
5,000.0	5.00	336.71	4,999.4	20.0	-8.6	-19.6	1.00	1.00	0.00
5,035.6	5.37	336.71	5,035.8	23.1	-9.9	-22.6	1.00	1.00	0.00
5,100.0	5.37	336.71	5,098.9	28.5	-12.3	-27.9	0.00	0.00	0.00
5,200.0	5.37	336.71	5,198.5	37.1	-16.0	-36.3	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)
5,300.0	5.37	336.71	5,298.1	45.7	-19.7	-44.8	0.00	0.00	0.00
5,400.0	5.37	336.71	5,397.6	54.3	-23.4	-53.2	0.00	0.00	0.00
5,500.0	5.37	336.71	5,497.2	62.9	-27.1	-61.6	0.00	0.00	0.00
5,600.0	5.37	336.71	5,596.7	71.5	-30.8	-70.0	0.00	0.00	0.00
5,700.0	5.37	336.71	5,696.3	80.0	-34.5	-78.4	0.00	0.00	0.00
5,800.0	5.37	336.71	5,795.9	88.6	-38.2	-86.8	0.00	0.00	0.00
5,900.0	5.37	336.71	5,895.4	97.2	-41.9	-95.3	0.00	0.00	0.00
6,000.0	5.37	336.71	5,995.0	105.8	-45.6	-103.7	0.00	0.00	0.00
6,100.0	5.37	336.71	6,094.6	114.4	-49.2	-112.1	0.00	0.00	0.00
6,200.0	5.37	336.71	6,194.1	123.0	-52.9	-120.5	0.00	0.00	0.00
6,300.0	5.37	336.71	6,293.7	131.6	-56.6	-128.9	0.00	0.00	0.00
6,400.0	5.37	336.71	6,393.2	140.2	-60.3	-137.3	0.00	0.00	0.00
6,500.0	5.37	336.71	6,492.8	148.8	-64.0	-145.7	0.00	0.00	0.00
6,600.0	5.37	336.71	6,592.4	157.3	-67.7	-154.2	0.00	0.00	0.00
6,700.0	5.37	336.71	6,691.9	165.9	-71.4	-162.6	0.00	0.00	0.00
6,800.0	5.37	336.71	6,791.5	174.5	-75.1	-171.0	0.00	0.00	0.00
6,900.0	5.37	336.71	6,891.1	183.1	-78.8	-179.4	0.00	0.00	0.00
7,000.0	5.37	336.71	6,990.6	191.7	-82.5	-187.8	0.00	0.00	0.00
7,100.0	5.37	336.71	7,090.2	200.3	-86.2	-196.2	0.00	0.00	0.00
7,200.0	5.37	336.71	7,189.7	208.9	-89.9	-204.7	0.00	0.00	0.00
7,300.0	5.37	336.71	7,289.3	217.5	-93.6	-213.1	0.00	0.00	0.00
7,400.0	5.37	336.71	7,388.9	226.1	-97.3	-221.5	0.00	0.00	0.00
7,500.0	5.37	336.71	7,488.4	234.6	-101.0	-229.9	0.00	0.00	0.00
7,600.0	5.37	336.71	7,588.0	243.2	-104.7	-238.3	0.00	0.00	0.00
7,700.0	5.37	336.71	7,687.5	251.8	-108.4	-246.7	0.00	0.00	0.00
7,800.0	5.37	336.71	7,787.1	260.4	-112.1	-255.1	0.00	0.00	0.00
7,900.0	5.37	336.71	7,886.7	269.0	-115.8	-263.6	0.00	0.00	0.00
8,000.0	5.37	336.71	7,986.2	277.6	-119.5	-272.0	0.00	0.00	0.00
8,100.0	5.37	336.71	8,085.8	286.2	-123.2	-280.4	0.00	0.00	0.00
8,200.0	5.37	336.71	8,185.4	294.8	-126.9	-288.8	0.00	0.00	0.00
8,300.0	5.37	336.71	8,284.9	303.4	-130.6	-297.2	0.00	0.00	0.00
8,400.0	5.37	336.71	8,384.5	311.9	-134.3	-305.6	0.00	0.00	0.00
8,500.0	5.37	336.71	8,484.0	320.5	-138.0	-314.0	0.00	0.00	0.00
8,600.0	5.37	336.71	8,583.6	329.1	-141.7	-322.5	0.00	0.00	0.00
8,700.0	5.37	336.71	8,683.2	337.7	-145.4	-330.9	0.00	0.00	0.00
8,800.0	5.37	336.71	8,782.7	346.3	-149.1	-339.3	0.00	0.00	0.00
8,900.0	5.37	336.71	8,882.3	354.9	-152.8	-347.7	0.00	0.00	0.00
9,000.0	5.37	336.71	8,981.8	363.5	-156.5	-356.1	0.00	0.00	0.00
9,100.0	5.37	336.71	9,081.4	372.1	-160.2	-364.5	0.00	0.00	0.00
9,200.0	5.37	336.71	9,181.0	380.7	-163.9	-373.0	0.00	0.00	0.00
9,300.0	5.37	336.71	9,280.5	389.2	-167.6	-381.4	0.00	0.00	0.00
9,400.0	5.37	336.71	9,380.1	397.8	-171.3	-389.8	0.00	0.00	0.00
9,500.0	5.37	336.71	9,479.7	406.4	-175.0	-398.2	0.00	0.00	0.00
9,600.0	5.37	336.71	9,579.2	415.0	-178.7	-406.6	0.00	0.00	0.00
9,700.0	5.37	336.71	9,678.8	423.6	-182.4	-415.0	0.00	0.00	0.00
9,800.0	5.37	336.71	9,778.3	432.2	-186.1	-423.4	0.00	0.00	0.00
9,900.0	5.37	336.71	9,877.9	440.8	-189.8	-431.9	0.00	0.00	0.00
10,000.0	5.37	336.71	9,977.5	449.4	-193.4	-440.3	0.00	0.00	0.00
10,100.0	5.37	336.71	10,077.0	458.0	-197.1	-448.7	0.00	0.00	0.00
10,200.0	5.37	336.71	10,176.6	466.5	-200.8	-457.1	0.00	0.00	0.00
10,300.0	5.37	336.71	10,276.2	475.1	-204.5	-465.5	0.00	0.00	0.00
10,400.0	5.37	336.71	10,375.7	483.7	-208.2	-473.9	0.00	0.00	0.00
10,500.0	5.37	336.71	10,475.3	492.3	-211.9	-482.4	0.00	0.00	0.00
10,603.4	5.37	336.71	10,578.2	501.2	-215.8	-491.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Dragon 36 State
Well: #502H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #502H
TVD Reference: KB = 25 @ 3525.0usft (H&P 612)
MD Reference: KB = 25 @ 3525.0usft (H&P 612)
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)
10,650.0	2.11	277.22	10,624.7	503.3	-217.5	-493.1	10.00	-6.99	-127.58
10,700.0	5.16	203.35	10,674.6	501.4	-219.3	-491.1	10.00	6.11	-147.75
10,750.0	9.94	191.54	10,724.2	495.1	-221.0	-484.7	10.00	9.56	-23.61
10,800.0	14.86	187.43	10,773.0	484.5	-222.7	-474.0	10.00	9.85	-8.22
10,850.0	19.82	185.34	10,820.7	469.7	-224.3	-459.2	10.00	9.92	-4.18
10,900.0	24.80	184.06	10,867.0	450.7	-225.9	-440.2	10.00	9.95	-2.56
10,950.0	29.79	183.19	10,911.4	427.9	-227.3	-417.3	10.00	9.97	-1.75
11,000.0	34.77	182.55	10,953.7	401.2	-228.6	-390.6	10.00	9.98	-1.28
11,050.0	39.76	182.05	10,993.4	371.0	-229.8	-360.3	10.00	9.98	-1.00
11,100.0	44.76	181.64	11,030.4	337.4	-230.9	-326.7	10.00	9.99	-0.81
11,150.0	49.75	181.31	11,064.4	300.7	-231.9	-290.0	10.00	9.99	-0.68
11,200.0	54.75	181.01	11,095.0	261.2	-232.7	-250.5	10.00	9.99	-0.58
11,250.0	59.74	180.76	11,122.0	219.1	-233.3	-208.5	10.00	9.99	-0.52
11,282.9	63.03	180.60	11,137.8	190.2	-233.6	-179.6	10.00	9.99	-0.47
FTP(D 36 ST 502H)									
11,300.0	64.74	180.52	11,145.3	174.9	-233.8	-164.3	10.00	9.99	-0.45
11,350.0	69.73	180.31	11,164.6	128.8	-234.1	-118.2	10.00	9.99	-0.43
11,400.0	74.73	180.11	11,179.9	81.2	-234.3	-70.7	10.00	9.99	-0.40
11,450.0	79.73	179.92	11,190.9	32.5	-234.3	-22.0	10.00	9.99	-0.38
11,500.0	84.72	179.73	11,197.7	-17.1	-234.2	27.5	10.00	9.99	-0.37
11,542.8	89.00	179.57	11,200.0	-59.8	-233.9	70.2	10.00	9.99	-0.37
11,600.0	89.00	179.57	11,201.0	-117.0	-233.5	127.3	0.00	0.00	0.00
11,700.0	89.00	179.57	11,202.8	-217.0	-232.7	227.1	0.00	0.00	0.00
11,800.0	89.00	179.57	11,204.5	-316.9	-232.0	327.0	0.00	0.00	0.00
11,900.0	89.00	179.57	11,206.3	-416.9	-231.3	426.8	0.00	0.00	0.00
12,000.0	89.00	179.57	11,208.0	-516.9	-230.5	526.7	0.00	0.00	0.00
12,100.0	89.00	179.57	11,209.8	-616.9	-229.8	626.5	0.00	0.00	0.00
12,200.0	89.00	179.57	11,211.5	-716.9	-229.0	726.4	0.00	0.00	0.00
12,300.0	89.00	179.57	11,213.2	-816.8	-228.3	826.2	0.00	0.00	0.00
12,400.0	89.00	179.57	11,215.0	-916.8	-227.5	926.1	0.00	0.00	0.00
12,500.0	89.00	179.57	11,216.7	-1,016.8	-226.8	1,025.9	0.00	0.00	0.00
12,600.0	89.00	179.57	11,218.5	-1,116.8	-226.1	1,125.8	0.00	0.00	0.00
12,700.0	89.00	179.57	11,220.2	-1,216.8	-225.3	1,225.6	0.00	0.00	0.00
12,800.0	89.00	179.57	11,222.0	-1,316.8	-224.6	1,325.5	0.00	0.00	0.00
12,900.0	89.00	179.57	11,223.7	-1,416.7	-223.8	1,425.3	0.00	0.00	0.00
13,000.0	89.00	179.57	11,225.5	-1,516.7	-223.1	1,525.2	0.00	0.00	0.00
13,100.0	89.00	179.57	11,227.2	-1,616.7	-222.3	1,625.0	0.00	0.00	0.00
13,200.0	89.00	179.57	11,228.9	-1,716.7	-221.6	1,724.9	0.00	0.00	0.00
13,300.0	89.00	179.57	11,230.7	-1,816.7	-220.9	1,824.7	0.00	0.00	0.00
13,400.0	89.00	179.57	11,232.4	-1,916.7	-220.1	1,924.6	0.00	0.00	0.00
13,500.0	89.00	179.57	11,234.2	-2,016.6	-219.4	2,024.4	0.00	0.00	0.00
13,600.0	89.00	179.57	11,235.9	-2,116.6	-218.6	2,124.3	0.00	0.00	0.00
13,700.0	89.00	179.57	11,237.7	-2,216.6	-217.9	2,224.1	0.00	0.00	0.00
13,800.0	89.00	179.57	11,239.4	-2,316.6	-217.2	2,324.0	0.00	0.00	0.00
13,900.0	89.00	179.57	11,241.2	-2,416.6	-216.4	2,423.8	0.00	0.00	0.00
14,000.0	89.00	179.57	11,242.9	-2,516.5	-215.7	2,523.7	0.00	0.00	0.00
14,100.0	89.00	179.57	11,244.6	-2,616.5	-214.9	2,623.5	0.00	0.00	0.00
14,200.0	89.00	179.57	11,246.4	-2,716.5	-214.2	2,723.4	0.00	0.00	0.00
14,300.0	89.00	179.57	11,248.1	-2,816.5	-213.4	2,823.2	0.00	0.00	0.00
14,400.0	89.00	179.57	11,249.9	-2,916.5	-212.7	2,923.1	0.00	0.00	0.00
14,500.0	89.00	179.57	11,251.6	-3,016.5	-212.0	3,022.9	0.00	0.00	0.00
14,600.0	89.00	179.57	11,253.4	-3,116.4	-211.2	3,122.8	0.00	0.00	0.00
14,700.0	89.00	179.57	11,255.1	-3,216.4	-210.5	3,222.6	0.00	0.00	0.00



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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)
14,800.0	89.00	179.57	11,256.9	-3,316.4	-209.7	3,322.5	0.00	0.00	0.00
14,900.0	89.00	179.57	11,258.6	-3,416.4	-209.0	3,422.3	0.00	0.00	0.00
15,000.0	89.00	179.57	11,260.3	-3,516.4	-208.3	3,522.2	0.00	0.00	0.00
15,100.0	89.00	179.57	11,262.1	-3,616.3	-207.5	3,622.0	0.00	0.00	0.00
15,200.0	89.00	179.57	11,263.8	-3,716.3	-206.8	3,721.9	0.00	0.00	0.00
15,300.0	89.00	179.57	11,265.6	-3,816.3	-206.0	3,821.7	0.00	0.00	0.00
15,400.0	89.00	179.57	11,267.3	-3,916.3	-205.3	3,921.6	0.00	0.00	0.00
15,500.0	89.00	179.57	11,269.1	-4,016.3	-204.5	4,021.4	0.00	0.00	0.00
15,600.0	89.00	179.57	11,270.8	-4,116.3	-203.8	4,121.3	0.00	0.00	0.00
15,700.0	89.00	179.57	11,272.6	-4,216.2	-203.1	4,221.1	0.00	0.00	0.00
15,800.0	89.00	179.57	11,274.3	-4,316.2	-202.3	4,320.9	0.00	0.00	0.00
15,900.0	89.00	179.57	11,276.0	-4,416.2	-201.6	4,420.8	0.00	0.00	0.00
15,977.8	89.00	179.57	11,277.4	-4,494.0	-201.0	4,498.5	0.00	0.00	0.00

PBHL(D 36 ST 502H)

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(D 36 ST 502H) - plan misses target center by 70.4usft at 11282.9usft MD (11137.8 TVD, 190.2 N, -233.6 E) - Point	0.00	0.00	11,200.0	223.0	-236.0	430,253.00	751,177.00	32° 10' 48.997 N	103° 31' 17.366 W
PBHL(D 36 ST 502H) - plan hits target center - Point	0.00	0.00	11,277.4	-4,494.0	-201.0	425,536.00	751,212.00	32° 10' 2.318 N	103° 31' 17.373 W