

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

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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.)		WELL API NO. 30-025-45744
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG RESOURCES		6. State Oil & Gas Lease No.
3. Address of Operator P O BOX 2267, MIDLAND TX 79702		7. Lease Name or Unit Agreement Name PYTHON 36 STATE COM
4. Well Location Unit Letter P 310 feet from the SOUTH line and 483 feet from the EAST line Section 36 Township 24S Range 32E NMPM County LEA		8. Well Number 745H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3521 GL		9. OGRID Number 7377
		10. Pool name or Wildcat 98180] WC-025 G-09 S253309P; UPR WC

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 ☐	BHL CHANGE ☐	OTHER: ☐	
OTHER: ☐			

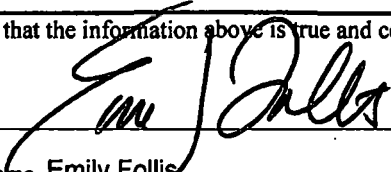
13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG respectfully requests an amendment to our approved APD for this well to reflect changes in the BHL and the casing design
Please see the attached

Spud Date:

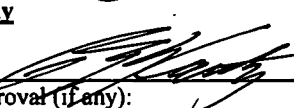
Rig Release Date:

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

SIGNATURE  TITLE Sr. Regulatory Administrator DATE 04/09/19

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

For State Use Only

APPROVED BY:  TITLE Petroleum Engineer DATE 04/22/19

Conditions of Approval (if any):

310' FSL
483' FEL
Section 36
T-24-S, R-32-E

Python 36 State #745H
Lea County, New Mexico

KB: 3,546'
GL: 3,521'

Revised Wellbore 4/8/2019
Design A

API: 30-025-45744

Bit Size: 12-1/4"
9-5/8", 40#, J-55, LTC 0' - 1,125'

Bit Size: 8-3/4"
7-5/8", 29.7#, HCP-110, FXL @ 0' - 11,305'

TOC: 10,805'

KOP: 12,408'

Bit Size: 6-3/4"
5-1/2", 17#, HCP-110, LTC @ 0' - 17,811'

Bit Size: 6-3/4"

Lateral: 17,811' MD, 12,881' TVD
BH Location: 100' FNL & 830' FEL
Section 36
T-24-S, R-32-E

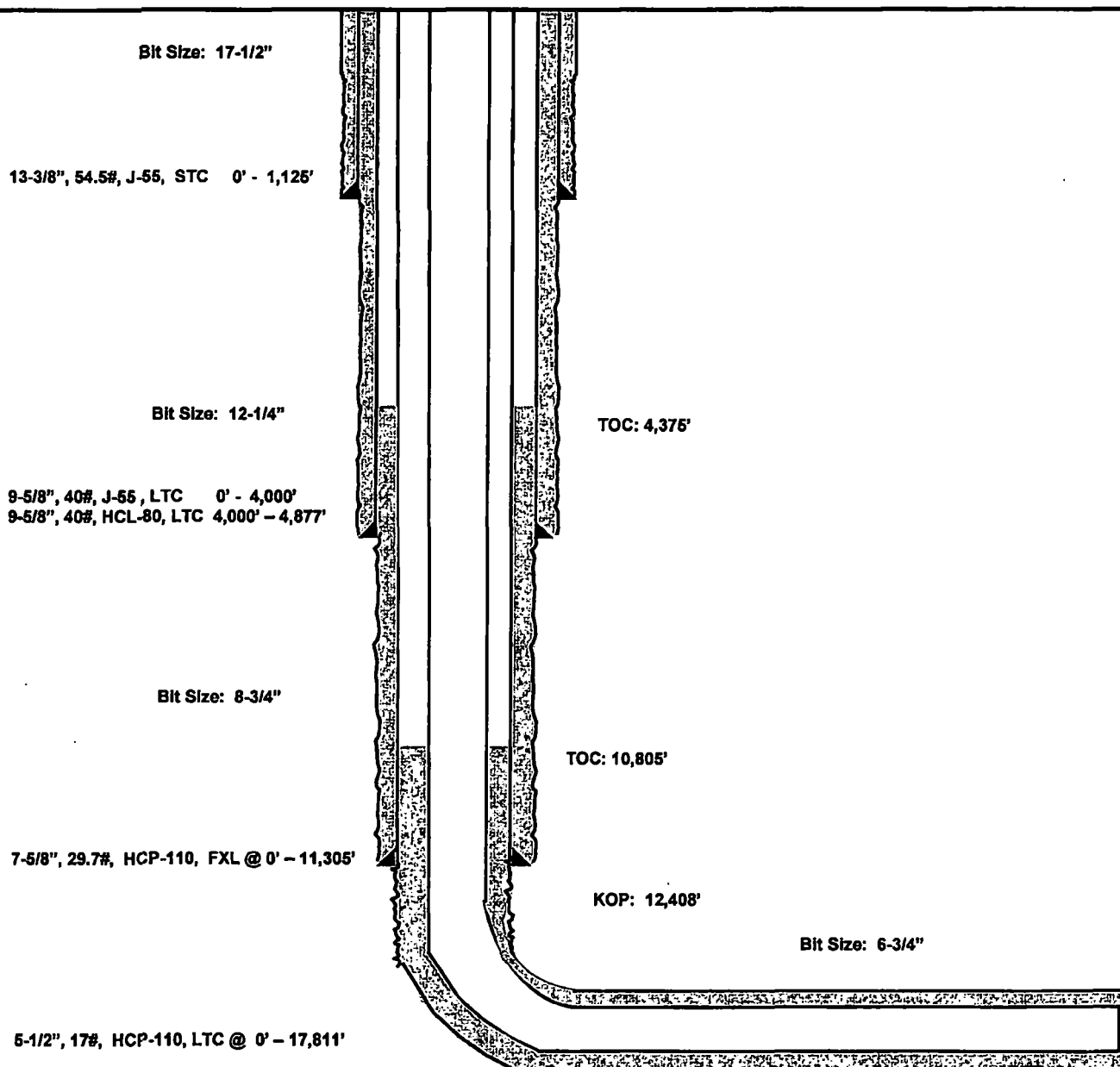
310' FSL
483' FEL
Section 36
T-24-S, R-32-E

EOG RESOURCES, INC.
PYTHON 36 STATE #745H

KB: 3,546'
GL: 3,521'

Revised Wellbore 4/8/2019
Design B

API: 30-025-45744



Lateral: 17,811' MD, 12,881' TVD
BH Location: 100' FNL & 630' FEL
Section 36
T-24-S, R-32-E

**EOG RESOURCES, INC.
PYTHON 36 STATE #745H**

Revised Permit Information 4/8/2019:

Well Name: Python 36 State #745H

Location:

SHL: 310' FSL & 483' FEL, Section 36, T-24-S, R-32-E, Lea Co., N.M.

BHL: 100' FNL & 630' FEL, Section 36, T-24-S, R-32-E, Lea Co., N.M.

Design A

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
12.25"	0 - 1,125'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
8.75"	0' - 11,305'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,811'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /sk	Slurry Description
1,125'	1,000	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)
	100	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,305'	600	14.2	1.11	1 st Stage (Tail): Class C + 5% Salt + (TOC @ 7,250')
	1,000	12.7	2.30	2 nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
17,811'	600	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,805')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,125'	Fresh - Gel	8.6-8.8	28-34	N/c
1,125' - 11,305'	Brine	8.8-10.0	28-34	N/c
11,305' - 12,408'	Oil Base	10.0-11.5	58-68	3 - 6
12,408' - 17,811' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

**EOG RESOURCES, INC.
PYTHON 36 STATE #745H**

Design B

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,125'	13.375"	54.5#	J-55	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' - 4,877'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0 - 11,305'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0'-17,811'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Slurry Description
1,125'	700	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	200	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,877'	900	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	350	14.8	1.32	Tail: Class C + 0.13% C-20
11,305'	275	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,375')
	100	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,811'	600	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,805')

As a contingency, EOG requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,282') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,125'	Fresh - Gel	8.6-8.8	28-34	N/c
1,125' - 4,877'	Brine	10.0-10.2	28-34	N/c
4,877' - 11,305'	Oil Base	8.7-9.4	58-68	N/c - 6
11,305' - 17,811' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

**EOG RESOURCES, INC.
PYTHON 36 STATE #745H**

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator
- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
PYTHON 36 STATE #745H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.
PYTHON 36 STATE #745H**

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office (432) 686-3600
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Company Drilling Consultants:

David Dominique	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

Drilling Engineer

Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256

Drilling Manager

Aj Dach	Office (432) 686-3751
	Cell (817) 480-1167

Drilling Superintendent

Domingo Lopez	Office (432) 686-3702
	Cell (432) 215-9452

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Python 36 State

#745H

76563

OH

Plan: Plan #0.1

Standard Planning Report

08 April, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3548.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3548.0usft
Site:	Python 36 State	North Reference:	Grid
Well:	#745H	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:	Python 36 State		
Site Position:		Northing:	425,475.00 usft
From:	Map	Easting:	760,394.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 10' 3.821 N
		Longitude:	103° 37' 31.398 W
		Grid Convergence:	0.38°

Well:	#745H		
Well Position	+N-S	12.0 usft	Northing:
	+E-W	1,237.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,521.0 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/21/2019	6.79
			59.98
			47,725.93606278

Design:	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			357.85

Plan Survey Tool Program	Date	4/8/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	17,811.0 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,092.1	1.84	208.96	3,092.1	-1.3	-0.7	2.00	2.00	0.00	208.96	
12,316.2	1.84	208.96	12,311.4	-260.7	-144.3	0.00	0.00	0.00	0.00	
12,408.3	0.00	0.01	12,403.5	-262.0	-145.0	2.00	-2.00	0.00	180.00	KOP (Python 36 State)
13,158.3	90.00	359.58	12,881.0	215.4	-148.5	12.00	12.00	-0.08	359.58	
17,811.0	90.00	359.58	12,881.0	4,888.0	-183.0	0.00	0.00	0.00	0.00	PBHL (Python 36 State)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3546.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3546.0usft
Site:	Python 36 State	North Reference:	Grid
Well:	#745H	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	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
3,092.1	1.84	208.96	3,092.1	-1.3	-0.7	-1.3	2.00	2.00	0.00
3,100.0	1.84	208.96	3,100.0	-1.5	-0.8	-1.5	0.00	0.00	0.00
3,200.0	1.84	208.96	3,199.9	-4.3	-2.4	-4.2	0.00	0.00	0.00
3,300.0	1.84	208.96	3,299.9	-7.1	-4.0	-7.0	0.00	0.00	0.00
3,400.0	1.84	208.96	3,399.8	-10.0	-5.5	-9.7	0.00	0.00	0.00
3,500.0	1.84	208.96	3,499.8	-12.8	-7.1	-12.5	0.00	0.00	0.00
3,600.0	1.84	208.96	3,599.7	-15.6	-8.6	-15.2	0.00	0.00	0.00
3,700.0	1.84	208.96	3,699.7	-18.4	-10.2	-18.0	0.00	0.00	0.00
3,800.0	1.84	208.96	3,799.6	-21.2	-11.7	-20.7	0.00	0.00	0.00
3,900.0	1.84	208.96	3,899.6	-24.0	-13.3	-23.5	0.00	0.00	0.00
4,000.0	1.84	208.96	3,999.5	-26.8	-14.8	-26.3	0.00	0.00	0.00
4,100.0	1.84	208.96	4,099.5	-29.6	-16.4	-29.0	0.00	0.00	0.00
4,200.0	1.84	208.96	4,199.4	-32.5	-18.0	-31.8	0.00	0.00	0.00
4,300.0	1.84	208.96	4,299.4	-35.3	-19.5	-34.5	0.00	0.00	0.00
4,400.0	1.84	208.96	4,399.3	-38.1	-21.1	-37.3	0.00	0.00	0.00
4,500.0	1.84	208.96	4,499.3	-40.9	-22.6	-40.0	0.00	0.00	0.00
4,600.0	1.84	208.96	4,599.2	-43.7	-24.2	-42.8	0.00	0.00	0.00
4,700.0	1.84	208.96	4,699.2	-46.5	-25.7	-45.5	0.00	0.00	0.00
4,800.0	1.84	208.96	4,799.1	-49.3	-27.3	-48.3	0.00	0.00	0.00
4,900.0	1.84	208.96	4,899.0	-52.1	-28.9	-51.0	0.00	0.00	0.00
5,000.0	1.84	208.96	4,999.0	-55.0	-30.4	-53.8	0.00	0.00	0.00
5,100.0	1.84	208.96	5,098.9	-57.8	-32.0	-56.5	0.00	0.00	0.00
5,200.0	1.84	208.96	5,198.9	-60.6	-33.5	-59.3	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3548.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3546.0usft
Site:	Python 38 State	North Reference:	Grid
Well:	#745H	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	1.84	208.86	5,288.6	-63.4	-35.1	-62.0	0.00	0.00	0.00
5,400.0	1.84	208.86	5,398.8	-66.2	-36.6	-64.8	0.00	0.00	0.00
5,500.0	1.84	208.86	5,498.7	-69.0	-38.2	-67.5	0.00	0.00	0.00
5,600.0	1.84	208.86	5,598.7	-71.8	-39.8	-70.3	0.00	0.00	0.00
5,700.0	1.84	208.86	5,698.6	-74.6	-41.3	-73.0	0.00	0.00	0.00
5,800.0	1.84	208.86	5,798.6	-77.4	-42.9	-75.8	0.00	0.00	0.00
5,900.0	1.84	208.86	5,898.5	-80.3	-44.4	-78.5	0.00	0.00	0.00
6,000.0	1.84	208.86	5,998.5	-83.1	-46.0	-81.3	0.00	0.00	0.00
6,100.0	1.84	208.86	6,098.4	-85.9	-47.5	-84.0	0.00	0.00	0.00
6,200.0	1.84	208.86	6,198.4	-88.7	-49.1	-86.8	0.00	0.00	0.00
6,300.0	1.84	208.86	6,298.3	-91.5	-50.6	-89.5	0.00	0.00	0.00
6,400.0	1.84	208.86	6,398.3	-94.3	-52.2	-92.3	0.00	0.00	0.00
6,500.0	1.84	208.86	6,498.2	-97.1	-53.8	-95.0	0.00	0.00	0.00
6,600.0	1.84	208.86	6,598.2	-99.9	-55.3	-97.8	0.00	0.00	0.00
6,700.0	1.84	208.86	6,698.1	-102.8	-56.9	-100.6	0.00	0.00	0.00
6,800.0	1.84	208.86	6,798.1	-105.6	-58.4	-103.3	0.00	0.00	0.00
6,900.0	1.84	208.86	6,898.0	-108.4	-60.0	-106.1	0.00	0.00	0.00
7,000.0	1.84	208.86	6,998.0	-111.2	-61.5	-108.8	0.00	0.00	0.00
7,100.0	1.84	208.86	7,097.9	-114.0	-63.1	-111.6	0.00	0.00	0.00
7,200.0	1.84	208.86	7,197.9	-116.8	-64.7	-114.3	0.00	0.00	0.00
7,300.0	1.84	208.86	7,297.8	-119.6	-66.2	-117.1	0.00	0.00	0.00
7,400.0	1.84	208.86	7,397.8	-122.4	-67.8	-119.8	0.00	0.00	0.00
7,500.0	1.84	208.86	7,497.7	-125.3	-69.3	-122.6	0.00	0.00	0.00
7,600.0	1.84	208.86	7,597.7	-128.1	-70.9	-125.3	0.00	0.00	0.00
7,700.0	1.84	208.86	7,697.6	-130.9	-72.4	-128.1	0.00	0.00	0.00
7,800.0	1.84	208.86	7,797.6	-133.7	-74.0	-130.8	0.00	0.00	0.00
7,900.0	1.84	208.86	7,897.5	-136.5	-75.5	-133.6	0.00	0.00	0.00
8,000.0	1.84	208.86	7,997.4	-139.3	-77.1	-136.3	0.00	0.00	0.00
8,100.0	1.84	208.86	8,097.4	-142.1	-78.7	-139.1	0.00	0.00	0.00
8,200.0	1.84	208.86	8,197.3	-144.9	-80.2	-141.8	0.00	0.00	0.00
8,300.0	1.84	208.86	8,297.3	-147.8	-81.8	-144.6	0.00	0.00	0.00
8,400.0	1.84	208.86	8,397.2	-150.6	-83.3	-147.3	0.00	0.00	0.00
8,500.0	1.84	208.86	8,497.2	-153.4	-84.9	-150.1	0.00	0.00	0.00
8,600.0	1.84	208.86	8,597.1	-156.2	-86.4	-152.8	0.00	0.00	0.00
8,700.0	1.84	208.86	8,697.1	-159.0	-88.0	-155.6	0.00	0.00	0.00
8,800.0	1.84	208.86	8,797.0	-161.8	-89.6	-158.3	0.00	0.00	0.00
8,900.0	1.84	208.86	8,897.0	-164.6	-91.1	-161.1	0.00	0.00	0.00
9,000.0	1.84	208.86	8,996.9	-167.4	-92.7	-163.8	0.00	0.00	0.00
9,100.0	1.84	208.86	9,096.9	-170.3	-94.2	-166.6	0.00	0.00	0.00
9,200.0	1.84	208.86	9,196.8	-173.1	-95.8	-169.3	0.00	0.00	0.00
9,300.0	1.84	208.86	9,296.8	-175.9	-97.3	-172.1	0.00	0.00	0.00
9,400.0	1.84	208.86	9,396.7	-178.7	-98.9	-174.9	0.00	0.00	0.00
9,500.0	1.84	208.86	9,496.7	-181.5	-100.5	-177.6	0.00	0.00	0.00
9,600.0	1.84	208.86	9,596.6	-184.3	-102.0	-180.4	0.00	0.00	0.00
9,700.0	1.84	208.86	9,696.6	-187.1	-103.6	-183.1	0.00	0.00	0.00
9,800.0	1.84	208.86	9,796.5	-189.9	-105.1	-185.9	0.00	0.00	0.00
9,900.0	1.84	208.86	9,896.5	-192.8	-106.7	-188.6	0.00	0.00	0.00
10,000.0	1.84	208.86	9,996.4	-195.6	-108.2	-191.4	0.00	0.00	0.00
10,100.0	1.84	208.86	10,096.4	-198.4	-109.8	-194.1	0.00	0.00	0.00
10,200.0	1.84	208.86	10,196.3	-201.2	-111.3	-196.9	0.00	0.00	0.00
10,300.0	1.84	208.86	10,296.3	-204.0	-112.9	-199.6	0.00	0.00	0.00
10,400.0	1.84	208.86	10,396.2	-206.8	-114.5	-202.4	0.00	0.00	0.00
10,500.0	1.84	208.86	10,496.2	-209.6	-116.0	-205.1	0.00	0.00	0.00
10,600.0	1.84	208.86	10,596.1	-212.4	-117.6	-207.9	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3546.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3546.0usft
Site:	Python 36 State	North Reference:	Grid
Well:	#745H	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)	
10,700.0	1.84	208.98	10,686.1	-215.3	-119.1	-210.6	0.00	0.00	0.00	
10,800.0	1.84	208.98	10,798.0	-218.1	-120.7	-213.4	0.00	0.00	0.00	
10,900.0	1.84	208.98	10,895.9	-220.9	-122.2	-216.1	0.00	0.00	0.00	
11,000.0	1.84	208.98	10,995.9	-223.7	-123.8	-218.9	0.00	0.00	0.00	
11,100.0	1.84	208.98	11,095.8	-226.5	-125.4	-221.6	0.00	0.00	0.00	
11,200.0	1.84	208.98	11,195.8	-229.3	-126.9	-224.4	0.00	0.00	0.00	
11,300.0	1.84	208.98	11,295.7	-232.1	-128.5	-227.1	0.00	0.00	0.00	
11,400.0	1.84	208.98	11,395.7	-234.9	-130.0	-229.9	0.00	0.00	0.00	
11,500.0	1.84	208.98	11,495.6	-237.8	-131.6	-232.6	0.00	0.00	0.00	
11,600.0	1.84	208.98	11,595.6	-240.6	-133.1	-235.4	0.00	0.00	0.00	
11,700.0	1.84	208.98	11,695.5	-243.4	-134.7	-238.1	0.00	0.00	0.00	
11,800.0	1.84	208.98	11,795.5	-246.2	-136.2	-240.9	0.00	0.00	0.00	
11,900.0	1.84	208.98	11,895.4	-249.0	-137.8	-243.6	0.00	0.00	0.00	
12,000.0	1.84	208.98	11,995.4	-251.8	-139.4	-246.4	0.00	0.00	0.00	
12,100.0	1.84	208.98	12,095.3	-254.6	-140.9	-249.2	0.00	0.00	0.00	
12,200.0	1.84	208.98	12,195.3	-257.4	-142.5	-251.9	0.00	0.00	0.00	
12,300.0	1.84	208.98	12,295.2	-260.2	-144.0	-254.7	0.00	0.00	0.00	
12,318.2	1.84	208.98	12,311.4	-260.7	-144.3	-255.1	0.00	0.00	0.00	
12,408.3	0.00	0.01	12,403.5	-262.0	-145.0	-256.4	2.00	-2.00	0.00	
12,425.0	2.00	359.58	12,420.2	-261.7	-145.0	-256.1	12.00	12.00	0.00	
12,450.0	5.00	359.58	12,445.1	-260.2	-145.0	-254.5	12.00	12.00	0.00	
12,475.0	8.00	359.58	12,470.0	-257.3	-145.0	-251.7	12.00	12.00	0.00	
12,500.0	11.00	359.58	12,494.8	-253.2	-145.1	-247.6	12.00	12.00	0.00	
12,525.0	14.00	359.58	12,519.0	-247.8	-145.1	-242.2	12.00	12.00	0.00	
12,550.0	17.00	359.58	12,543.1	-241.1	-145.2	-235.5	12.00	12.00	0.00	
12,575.0	20.00	359.58	12,568.8	-233.2	-145.2	-227.6	12.00	12.00	0.00	
12,600.0	23.00	359.58	12,590.1	-224.0	-145.3	-218.4	12.00	12.00	0.00	
12,625.0	26.00	359.58	12,612.8	-213.7	-145.4	-208.1	12.00	12.00	0.00	
12,650.0	29.00	359.58	12,635.0	-202.1	-145.4	-198.5	12.00	12.00	0.00	
12,675.0	32.00	359.58	12,658.5	-189.4	-145.5	-183.8	12.00	12.00	0.00	
12,700.0	35.00	359.58	12,677.4	-175.6	-145.6	-170.0	12.00	12.00	0.00	
12,725.0	38.00	359.58	12,697.5	-160.8	-145.7	-155.2	12.00	12.00	0.00	
12,750.0	41.00	359.58	12,716.8	-144.9	-145.9	-139.3	12.00	12.00	0.00	
12,775.0	44.00	359.58	12,735.2	-128.0	-146.0	-122.4	12.00	12.00	0.00	
12,800.0	47.00	359.58	12,752.7	-110.1	-146.1	-104.6	12.00	12.00	0.00	
12,825.0	50.00	359.58	12,769.3	-91.4	-146.3	-85.9	12.00	12.00	0.00	
12,850.0	53.00	359.58	12,784.8	-71.9	-146.4	-66.3	12.00	12.00	0.00	
12,875.0	56.00	359.58	12,799.4	-51.5	-146.6	-46.0	12.00	12.00	0.00	
12,900.0	59.00	359.58	12,812.8	-30.4	-146.7	-24.9	12.00	12.00	0.00	
12,925.0	62.00	359.58	12,825.1	-8.7	-146.9	-3.1	12.00	12.00	0.00	
12,950.0	65.00	359.58	12,836.2	13.7	-147.0	19.2	12.00	12.00	0.00	
12,975.0	68.00	359.58	12,846.2	38.6	-147.2	42.1	12.00	12.00	0.00	
13,000.0	71.00	359.58	12,855.0	60.0	-147.4	65.5	12.00	12.00	0.00	
13,025.0	74.00	359.58	12,862.5	83.9	-147.6	89.4	12.00	12.00	0.00	
13,050.0	77.00	359.58	12,868.7	108.1	-147.7	113.6	12.00	12.00	0.00	
13,075.0	80.00	359.58	12,873.7	132.6	-147.9	138.0	12.00	12.00	0.00	
13,100.0	83.00	359.58	12,877.4	157.3	-148.1	162.8	12.00	12.00	0.00	
13,125.0	86.00	359.58	12,879.8	182.2	-148.3	187.6	12.00	12.00	0.00	
13,150.0	89.00	359.58	12,880.9	207.2	-148.5	212.8	12.00	12.00	0.00	
13,158.3	90.00	359.58	12,881.0	215.4	-148.5	220.9	12.00	12.00	0.00	
13,200.0	90.00	359.58	12,881.0	257.2	-148.8	262.6	0.00	0.00	0.00	
13,300.0	90.00	359.58	12,881.0	357.1	-149.6	362.5	0.00	0.00	0.00	
13,400.0	90.00	359.58	12,881.0	457.1	-150.3	462.5	0.00	0.00	0.00	
13,500.0	90.00	359.58	12,881.0	557.1	-151.1	562.4	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3546.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3546.0usft
Site:	Python 36 State	North Reference:	Grid
Well:	#745H	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 (*1000usft)	Build Rate (*1000usft)	Turn Rate (*1000usft)
13,600.0	90.00	359.58	12,881.0	857.1	-151.8	862.4	0.00	0.00	0.00
13,700.0	90.00	359.58	12,881.0	757.1	-152.5	762.3	0.00	0.00	0.00
13,800.0	90.00	359.58	12,881.0	857.1	-153.3	862.3	0.00	0.00	0.00
13,900.0	90.00	359.58	12,881.0	957.1	-154.0	962.2	0.00	0.00	0.00
14,000.0	90.00	359.58	12,881.0	1,057.1	-154.8	1,062.2	0.00	0.00	0.00
14,100.0	90.00	359.58	12,881.0	1,157.1	-155.5	1,162.2	0.00	0.00	0.00
14,200.0	90.00	359.58	12,881.0	1,257.1	-156.3	1,262.1	0.00	0.00	0.00
14,300.0	90.00	359.58	12,881.0	1,357.1	-157.0	1,362.1	0.00	0.00	0.00
14,400.0	90.00	359.58	12,881.0	1,457.1	-157.7	1,462.0	0.00	0.00	0.00
14,500.0	90.00	359.58	12,881.0	1,557.1	-158.5	1,562.0	0.00	0.00	0.00
14,600.0	90.00	359.58	12,881.0	1,657.1	-159.2	1,661.9	0.00	0.00	0.00
14,700.0	90.00	359.58	12,881.0	1,757.1	-160.0	1,761.8	0.00	0.00	0.00
14,800.0	90.00	359.58	12,881.0	1,857.1	-160.7	1,861.8	0.00	0.00	0.00
14,900.0	90.00	359.58	12,881.0	1,957.1	-161.4	1,961.8	0.00	0.00	0.00
15,000.0	90.00	359.58	12,881.0	2,057.1	-162.2	2,061.7	0.00	0.00	0.00
15,100.0	90.00	359.58	12,881.0	2,157.1	-162.9	2,161.7	0.00	0.00	0.00
15,200.0	90.00	359.58	12,881.0	2,257.1	-163.7	2,261.7	0.00	0.00	0.00
15,300.0	90.00	359.58	12,881.0	2,357.1	-164.4	2,361.6	0.00	0.00	0.00
15,400.0	90.00	359.58	12,881.0	2,457.1	-165.1	2,461.6	0.00	0.00	0.00
15,500.0	90.00	359.58	12,881.0	2,557.1	-165.9	2,561.5	0.00	0.00	0.00
15,600.0	90.00	359.58	12,881.0	2,657.1	-166.6	2,661.5	0.00	0.00	0.00
15,700.0	90.00	359.58	12,881.0	2,757.1	-167.4	2,761.4	0.00	0.00	0.00
15,800.0	90.00	359.58	12,881.0	2,857.1	-168.1	2,861.4	0.00	0.00	0.00
15,900.0	90.00	359.58	12,881.0	2,957.1	-168.8	2,961.3	0.00	0.00	0.00
16,000.0	90.00	359.58	12,881.0	3,057.1	-169.6	3,061.3	0.00	0.00	0.00
16,100.0	90.00	359.58	12,881.0	3,157.1	-170.3	3,161.2	0.00	0.00	0.00
16,200.0	90.00	359.58	12,881.0	3,257.1	-171.1	3,261.2	0.00	0.00	0.00
16,300.0	90.00	359.58	12,881.0	3,357.1	-171.8	3,361.2	0.00	0.00	0.00
16,400.0	90.00	359.58	12,881.0	3,457.1	-172.5	3,461.1	0.00	0.00	0.00
16,500.0	90.00	359.58	12,881.0	3,557.1	-173.3	3,561.1	0.00	0.00	0.00
16,600.0	90.00	359.58	12,881.0	3,657.1	-174.0	3,661.0	0.00	0.00	0.00
16,700.0	90.00	359.58	12,881.0	3,757.1	-174.8	3,761.0	0.00	0.00	0.00
16,800.0	90.00	359.58	12,881.0	3,857.1	-175.5	3,860.9	0.00	0.00	0.00
16,900.0	90.00	359.58	12,881.0	3,957.1	-176.3	3,960.9	0.00	0.00	0.00
17,000.0	90.00	359.58	12,881.0	4,057.0	-177.0	4,060.8	0.00	0.00	0.00
17,100.0	90.00	359.58	12,881.0	4,157.0	-177.7	4,160.8	0.00	0.00	0.00
17,200.0	90.00	359.58	12,881.0	4,257.0	-178.5	4,260.7	0.00	0.00	0.00
17,300.0	90.00	359.58	12,881.0	4,357.0	-179.2	4,360.7	0.00	0.00	0.00
17,400.0	90.00	359.58	12,881.0	4,457.0	-180.0	4,460.7	0.00	0.00	0.00
17,500.0	90.00	359.58	12,881.0	4,557.0	-180.7	4,560.6	0.00	0.00	0.00
17,600.0	90.00	359.58	12,881.0	4,657.0	-181.4	4,660.6	0.00	0.00	0.00
17,700.0	90.00	359.58	12,881.0	4,757.0	-182.2	4,760.5	0.00	0.00	0.00
17,800.0	90.00	359.58	12,881.0	4,857.0	-182.9	4,860.5	0.00	0.00	0.00
17,811.0	90.00	359.58	12,881.0	4,888.0	-183.0	4,871.4	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #745H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3546.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3546.0usft
Site:	Python 36 State	North Reference:	Grid
Well:	#745H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

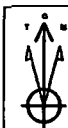
Design Targets									
Target Name	hits/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude Longitude
KOP (Python 36 State #		0.00	0.00	12,403.5	-262.0	-145.0	425,225.00	761,486.00	32° 10' 1.276 N 103° 37' 18.713 W
- plan hits target center									
- Polygon									
Point 1				12,403.5	50.0	-40.0	425,275.00	761,446.00	
Point 2				12,403.5	50.0	40.0	425,275.00	761,526.00	
Point 3				12,403.5	-30.0	40.0	425,195.00	761,526.00	
Point 4				12,403.5	-30.0	-40.0	425,195.00	761,446.00	
FTP (Python 36 State #7		0.00	0.00	12,881.0	-212.0	-145.0	425,275.00	761,486.00	32° 10' 1.771 N 103° 37' 18.708 W
- plan misses target center by 163.4usft at 12808.7usft MD (12758.6 TVD, -103.7 N, -146.2 E)									
- Point									
PBHL (Python 36 State :		90.00	359.57	12,881.0	4,868.0	-183.0	430,355.00	761,446.00	32° 10' 52.042 N 103° 37' 18.761 W
- plan hits target center									
- Rectangle (sides W60.0 H0.0 D5,070.0)									



Lea County, NM (NAD 83 NME)

Python 36 State #745H

Plan #0.1



Azimuths to Grid North
True North: -0.35°
Magnetic North: 5.41°
Magnetic Field
Strength: 4772 Gauss
Dip Angle: 69.35°
Date: 22/12/2015
Model: IGR2015

To convert a Magnetic Direction to a Grid Direction, Add 5.41°
To convert a Magnetic Direction to a True Direction, Add 5.79° East
To convert a True Direction to a Grid Direction, Subtract 0.35°

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: #745H

KB = 25' @ 3548.00ft 3521.0
Northing 425487.00 Easting 761631.00 Latitude 32° 37' 3.859 N Longitude 103° 37' 17.006 W

SECTION DETAILS

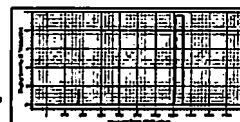
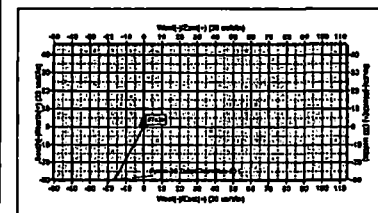
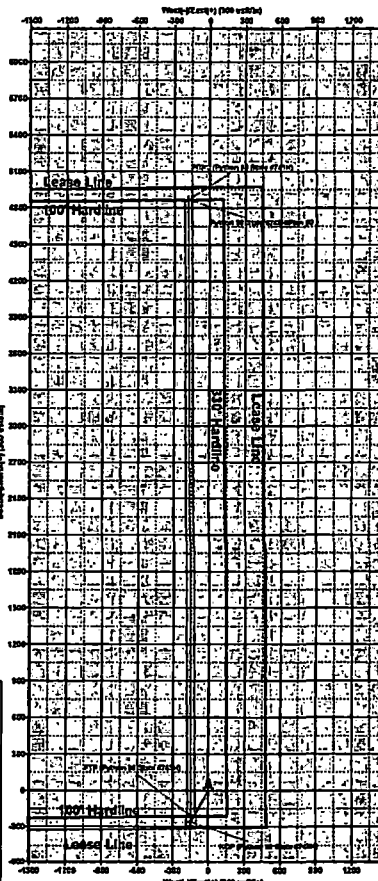
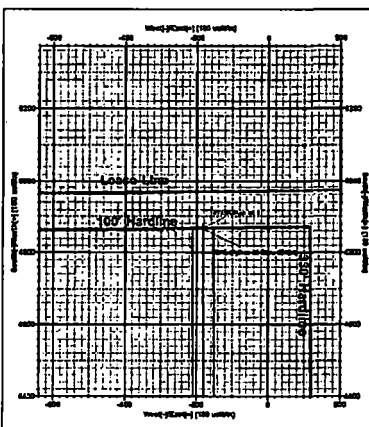
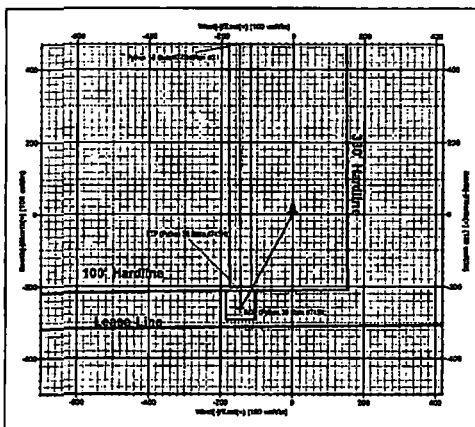
MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSoct	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3092.1	1.84	208.98	3092.1	-1.3	-0.7	2.00	208.98	-1.3	
12316.2	1.84	208.98	12311.4	-260.7	-144.3	0.00	0.00	-255.1	
12408.3	0.00	0.00	12403.5	-282.0	-145.0	2.00	180.00	-258.4	KOP (Python 36 State #745H)
13158.3	90.00	359.58	12881.0	215.4	-148.5	12.00	359.58	220.9	
17811.0	90.00	359.58	12881.0	4888.0	-183.0	0.00	0.00	4871.4	PBHL (Python 36 State #745H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

From	TVD	+N-S	+E-W	Northing	Easting
KOP (Python 36 State #745H)	12408.3	-282.0	-145.0	425278.00	761488.00
PTP (Python 36 State #745H)	12891.0	-312.0	-48.0	425278.00	761488.00
PBHL (Python 36 State #745H)	12891.0	4888.0	-183.0	425278.00	761448.00



Scale: 1 inch = 100 feet
North Arrow