

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) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3460

RECEIVED

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 41619	Pool Code 59900 DK	Name Triple X; Bone Spring
Property Code 40345	Property Name CERBERUS 35 STATE	Well Number #1H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3644'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	23-S	33-E	-	230'	SOUTH	380'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	35	23-S	33-E	-	230'	NORTH	380'	EAST	LEA

11 Dedicated Acres 160	12 Joint or Infill	13 Consolidation Code	14 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.

16 BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=746654 Y=461989 LAT.: N 32.2676031 LONG.: W 103.5353455 LOWER MOST PERF. NEW MEXICO EAST NAD 1927 X=746655 Y=461889 LAT.: N 32.2673282 LONG.: W 103.5353457 UPPER MOST PERF. NEW MEXICO EAST NAD 1927 X=746689 Y=457275 LAT.: N 32.2546465 LONG.: W 103.5353466 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=746690 Y=457175 LAT.: N 32.2543716 LONG.: W 103.5353463	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Stan Wagner</i> Date: 1/23/14 Printed Name: Stan Wagner E-mail Address: 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: 1/06/2014 Signature: <i>Michael A. Brown</i> Professional Surveyor Seal: MICHAEL A. BROWN, NEW MEXICO, 18329 Certificate Number:
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JAN 27 2014

30-025-41619

Permit Information:

Well Name: Cerberus 35 State No. 1H

Location:

SHL: 230' FSL & 380' FEL, Section 35, T-23-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 380' FEL, Section 35, T-23-S, R-33-E, Lea Co., N.M.

HOBBS OCD**JAN 24 2014****RECEIVED****Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,360'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,300'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-15,889'	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
1,360'	550	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)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,300'	850	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)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
15,889'	350	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 @ 4,800')
	400	11.9	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
	1700	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 - 1,360'	Fresh - Gel	8.6-8.8	28-34	N/c
1,360' - 5,300'	Brine	10.0-10.2	28-34	N/c
5,300' - 10,802'	Cut Brine	8.4-9.0	28-34	N/c
10,802' - 15,889' Lateral	Cut Brine	9.0-9.5	40-42	8-10

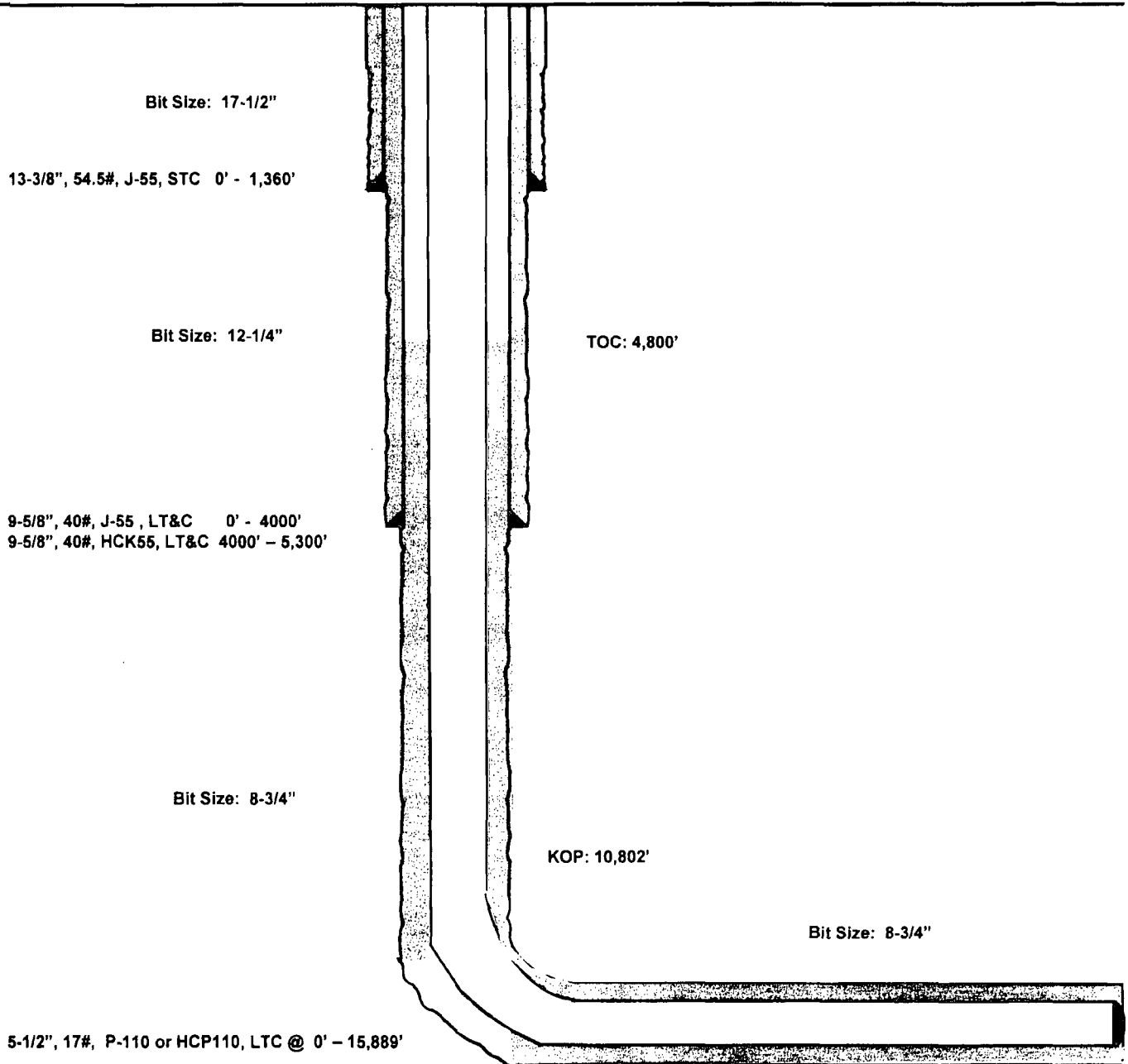
**Cerberus 35 State #1H
Lea County, New Mexico**

**230' FSL
380' FEL
Section 35
T-23-S, R-33-E**

Proposed Wellbore

API: 30-025-

**KB: 3,674'
GL: 3,644'**



Lateral: 15,889' MD, 11,280' TVD

**BH Location: 230' FNL & 380' FEL
Section 35
T-23-S, R-33-E**

NEXUS

DIRECTIONAL SOLUTIONS, L.P.



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.83°

Magnetic Field
Strength: 48377.7 nT
Dip Angle: 60.16°
Date: 1/16/2014
Model: IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 6.83°
To convert a True Direction to a Grid Direction, Subtract 0.43°

18 Jan, January 18, 2014

Nexus Directional Solutions
3925 CR 1285
Odessa, TX 79765

WELL DETAILS:

WELL @ 3674.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	457175.00	746690.00	32° 15' 15.734 N	103° 32' 7.245 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
10802.5	0.00	0.00	10802.5	0.0	0.0	0.00	0.00	0.0	KOP - 10802.5 MD, 0.00° INC, 0.00° AZI
11552.6	90.00	359.57	11280.0	477.5	-3.6	12.00	359.57	477.5	EOC- 11552.6 MD, 90.00° INC, 359.57° AZI
15889.2	90.00	359.57	11280.0	4814.0	-36.1	0.00	0.00	4814.1	TD at 15889.2

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Cerb 35 #1H)	10802.5	0.0	0.0	457175.00	746690.00
FTP(Cerb 35 #1H)	11095.0	100.0	-1.0	457275.00	746689.00
BHL(Cerb 35 #1H)	11280.0	4814.0	-36.0	461889.00	746654.00
EOC(Cerb 35 #1H)	11280.0	477.5	-3.6	457652.50	746686.40
LTP(Cerb 35 #1H)	11280.0	4714.0	-35.0	461889.00	746655.00

LEGEND

• Design #1

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

Local Origin: Well #1H, Grid North

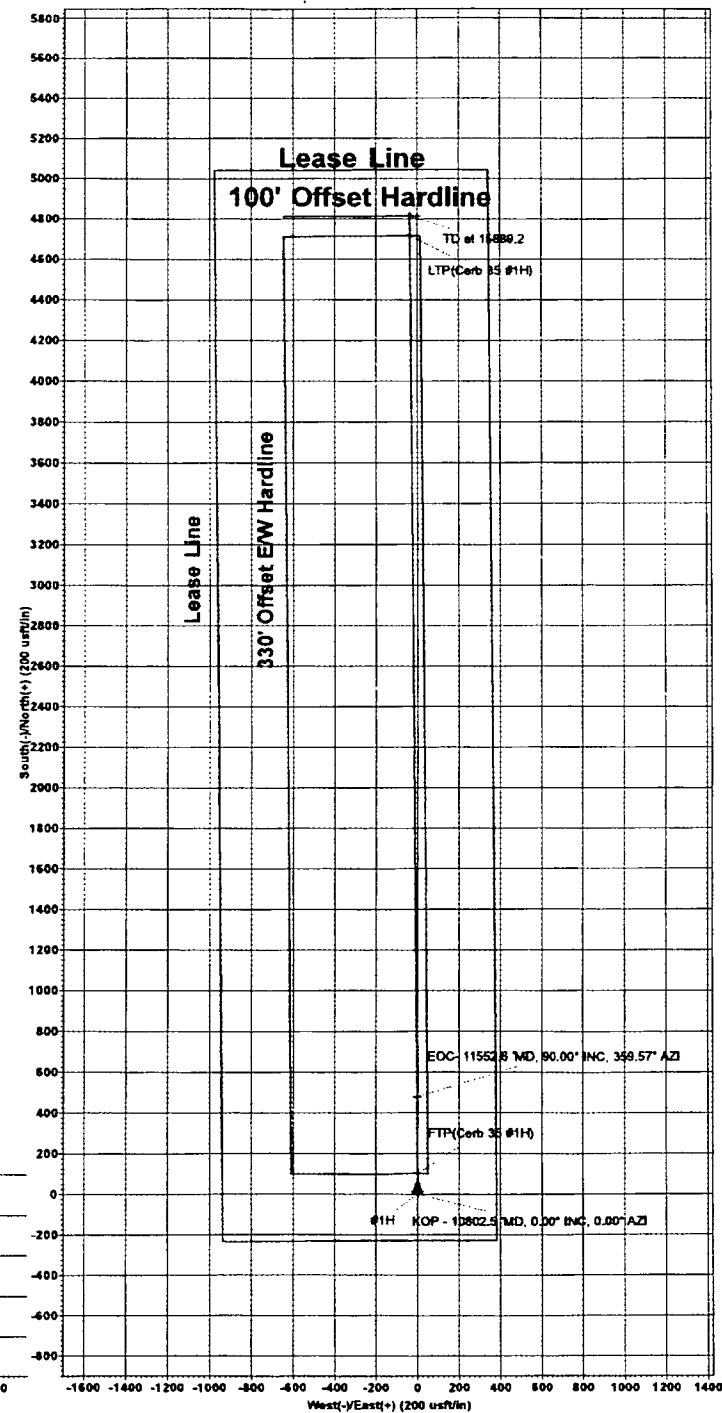
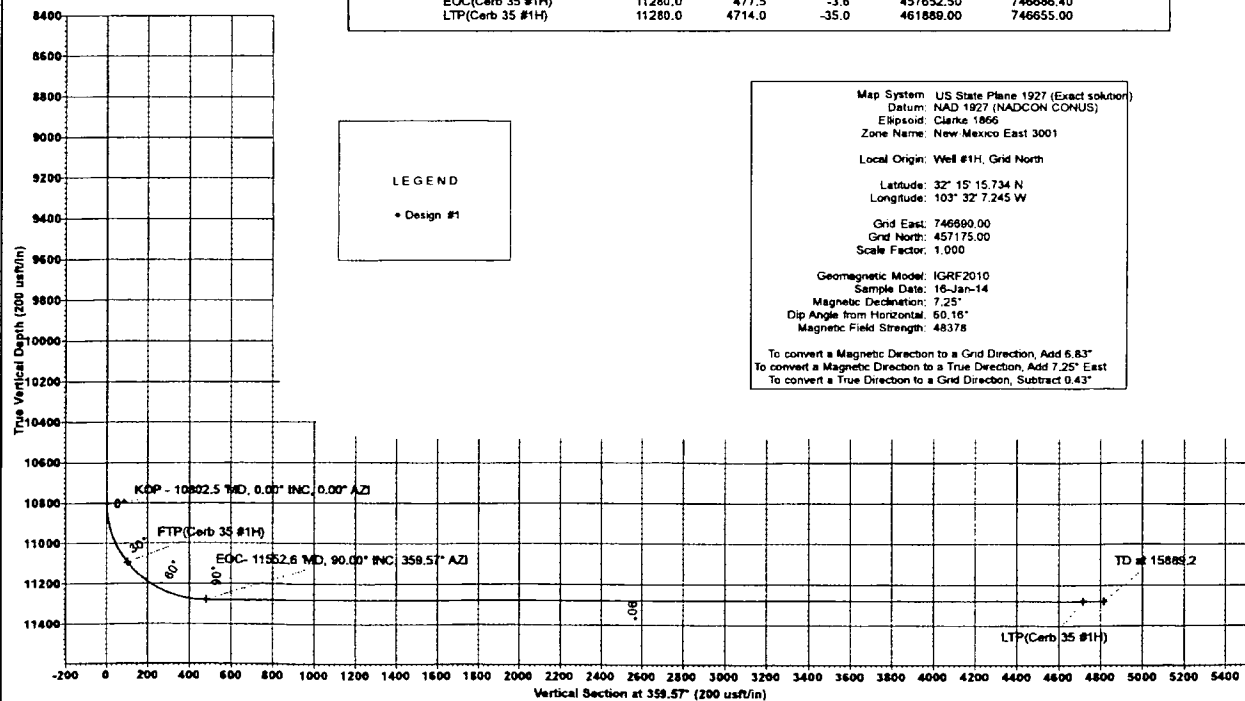
Latitude: 32° 15' 15.734 N
Longitude: 103° 32' 7.245 W

Grid East: 746690.00
Grid North: 457175.00
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 16-Jan-14

Magnetic Declination: 7.25°
Dip Angle from Horizontal: 60.16°
Magnetic Field Strength: 48378

To convert a Magnetic Direction to a Grid Direction, Add 6.83°
To convert a Magnetic Direction to a True Direction, Add 7.25° East
To convert a True Direction to a Grid Direction, Subtract 0.43°





EOG Resources, INC.

Lea County, NM

Cerberus 35 State

#1H

OH

Plan: Design #1

Standard Planning Report

16 January, 2014



Wellplanning Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources, INC.
Project: Lea County, NM
Site: Cerberus 35 State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3674.0usft (Original Well Elev)
MD Reference: WELL @ 3674.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM		
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	Cerberus 35 State			
Site Position:		Northing:	457,175.00 usft	Latitude: 32° 15' 15.734 N
From:	Map	Easting:	746,690.00 usft	Longitude: 103° 32' 7.245 W
Position Uncertainty:	3.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.43 °

Well	#1H			
Well Position	+N-S	0.0 usft	Northing: 457,175.00 usft	Latitude: 32° 15' 15.734 N
	+E-W	0.0 usft	Easting: 746,690.00 usft	Longitude: 103° 32' 7.245 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 3,644.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/16/2014	7.25	60.18	48,378

Design	Design #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	359.57

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	
10,802.5	0.00	0.00	10,802.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,552.6	90.00	359.57	11,280.0	477.5	-3.6	12.00	12.00	0.00	359.57	
15,889.2	90.00	359.57	11,280.0	4,814.0	-36.1	0.00	0.00	0.00	0.00	BHL(Cerb 35 #1H)



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Company: EOG Resources, INC.
Project: Lea County, NM
Site: Cerberus 35 State
Well: #1H
Wellbore: OH
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Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3674.0usft (Original Well Elev)
MD Reference: WELL @ 3674.0usft (Original Well Elev)
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	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Wellplanning Planning Report

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Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3674.0usft (Original Well Elev)
MD Reference: WELL @ 3674.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00



Wellplanning Planning Report

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Site: Cerberus 35 State
Well: #1H
Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3674.0usft (Original Well Elev)
MD Reference: WELL @ 3674.0usft (Original Well Elev)
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)
10,802.5	0.00	0.00	10,802.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP - 10802.6 °MD, 0.00° INC, 0.00° AZI - KOP(Cerb 35 #1H)									
10,825.0	2.70	359.57	10,825.0	0.5	0.0	0.5	12.00	12.00	0.00
10,850.0	5.70	359.57	10,849.9	2.4	0.0	2.4	12.00	12.00	0.00
10,875.0	8.70	359.57	10,874.7	5.5	0.0	5.5	12.00	12.00	0.00
10,900.0	11.70	359.57	10,899.3	9.9	-0.1	9.9	12.00	12.00	0.00
10,925.0	14.70	359.57	10,923.7	15.6	-0.1	15.6	12.00	12.00	0.00
10,950.0	17.70	359.57	10,947.7	22.6	-0.2	22.6	12.00	12.00	0.00
10,975.0	20.70	359.57	10,971.3	30.8	-0.2	30.8	12.00	12.00	0.00
11,000.0	23.70	359.57	10,994.4	40.3	-0.3	40.3	12.00	12.00	0.00
11,025.0	26.70	359.57	11,017.0	50.9	-0.4	50.9	12.00	12.00	0.00
11,050.0	29.70	359.57	11,039.1	62.7	-0.5	62.7	12.00	12.00	0.00
11,075.0	32.70	359.57	11,060.4	75.7	-0.6	75.7	12.00	12.00	0.00
11,100.0	35.70	359.57	11,081.1	89.7	-0.7	89.7	12.00	12.00	0.00
11,117.3	37.77	359.57	11,095.0	100.0	-0.8	100.0	12.00	12.00	0.00
FTP(Cerb 35 #1H)									
11,125.0	38.70	359.57	11,101.0	104.8	-0.8	104.8	12.00	12.00	0.00
11,150.0	41.70	359.57	11,120.1	121.0	-0.9	121.0	12.00	12.00	0.00
11,175.0	44.70	359.57	11,138.4	138.1	-1.0	138.1	12.00	12.00	0.00
11,200.0	47.70	359.57	11,155.7	156.1	-1.2	156.1	12.00	12.00	0.00
11,225.0	50.70	359.57	11,172.0	175.0	-1.3	175.0	12.00	12.00	0.00
11,250.0	53.70	359.57	11,187.3	194.8	-1.5	194.8	12.00	12.00	0.00
11,275.0	56.70	359.57	11,201.6	215.3	-1.6	215.3	12.00	12.00	0.00
11,300.0	59.70	359.57	11,214.8	236.5	-1.8	236.6	12.00	12.00	0.00
11,325.0	62.70	359.57	11,226.8	258.5	-1.9	258.5	12.00	12.00	0.00
11,350.0	65.70	359.57	11,237.7	281.0	-2.1	281.0	12.00	12.00	0.00
11,375.0	68.69	359.57	11,247.4	304.0	-2.3	304.0	12.00	12.00	0.00
11,400.0	71.69	359.57	11,255.8	327.5	-2.5	327.5	12.00	12.00	0.00
11,425.0	74.69	359.57	11,263.1	351.4	-2.6	351.5	12.00	12.00	0.00
11,450.0	77.69	359.57	11,269.0	375.7	-2.8	375.7	12.00	12.00	0.00
11,475.0	80.69	359.57	11,273.7	400.3	-3.0	400.3	12.00	12.00	0.00
11,500.0	83.69	359.57	11,277.1	425.0	-3.2	425.1	12.00	12.00	0.00
11,525.0	86.69	359.57	11,279.2	449.9	-3.4	450.0	12.00	12.00	0.00
11,550.0	89.69	359.57	11,280.0	474.9	-3.6	474.9	12.00	12.00	0.00
11,552.6	90.00	359.57	11,280.0	477.5	-3.6	477.5	11.94	11.94	0.00
EOC- 11552.6 °MD, 90.00° INC, 359.57° AZI - EOC(Cerb 35 #1H)									
11,600.0	90.00	359.57	11,280.0	524.9	-3.9	524.9	0.00	0.00	0.00
11,700.0	90.00	359.57	11,280.0	624.9	-4.7	624.9	0.00	0.00	0.00
11,800.0	90.00	359.57	11,280.0	724.9	-5.4	724.9	0.00	0.00	0.00
11,900.0	90.00	359.57	11,280.0	824.9	-6.2	824.9	0.00	0.00	0.00
12,000.0	90.00	359.57	11,280.0	924.9	-6.9	924.9	0.00	0.00	0.00
12,100.0	90.00	359.57	11,280.0	1,024.9	-7.7	1,024.9	0.00	0.00	0.00
12,200.0	90.00	359.57	11,280.0	1,124.9	-8.4	1,124.9	0.00	0.00	0.00
12,300.0	90.00	359.57	11,280.0	1,224.9	-9.2	1,224.9	0.00	0.00	0.00
12,400.0	90.00	359.57	11,280.0	1,324.9	-9.9	1,324.9	0.00	0.00	0.00
12,500.0	90.00	359.57	11,280.0	1,424.9	-10.7	1,424.9	0.00	0.00	0.00
12,600.0	90.00	359.57	11,280.0	1,524.9	-11.4	1,524.9	0.00	0.00	0.00
12,700.0	90.00	359.57	11,280.0	1,624.9	-12.2	1,624.9	0.00	0.00	0.00
12,800.0	90.00	359.57	11,280.0	1,724.9	-12.9	1,724.9	0.00	0.00	0.00
12,900.0	90.00	359.57	11,280.0	1,824.9	-13.7	1,824.9	0.00	0.00	0.00
13,000.0	90.00	359.57	11,280.0	1,924.9	-14.4	1,924.9	0.00	0.00	0.00
13,100.0	90.00	359.57	11,280.0	2,024.9	-15.2	2,024.9	0.00	0.00	0.00
13,200.0	90.00	359.57	11,280.0	2,124.9	-15.9	2,124.9	0.00	0.00	0.00



Wellplanning Planning Report

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Wellbore: OH
Design: Design #1

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3674.0usft (Original Well Elev)
MD Reference: WELL @ 3674.0usft (Original Well Elev)
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)
13,300.0	90.00	359.57	11,280.0	2,224.9	-16.7	2,224.9	0.00	0.00	0.00
13,400.0	90.00	359.57	11,280.0	2,324.9	-17.4	2,324.9	0.00	0.00	0.00
13,500.0	90.00	359.57	11,280.0	2,424.9	-18.2	2,424.9	0.00	0.00	0.00
13,600.0	90.00	359.57	11,280.0	2,524.9	-18.9	2,524.9	0.00	0.00	0.00
13,700.0	90.00	359.57	11,280.0	2,624.9	-19.7	2,624.9	0.00	0.00	0.00
13,800.0	90.00	359.57	11,280.0	2,724.9	-20.5	2,724.9	0.00	0.00	0.00
13,900.0	90.00	359.57	11,280.0	2,824.9	-21.2	2,824.9	0.00	0.00	0.00
14,000.0	90.00	359.57	11,280.0	2,924.9	-22.0	2,924.9	0.00	0.00	0.00
14,100.0	90.00	359.57	11,280.0	3,024.9	-22.7	3,024.9	0.00	0.00	0.00
14,200.0	90.00	359.57	11,280.0	3,124.9	-23.5	3,124.9	0.00	0.00	0.00
14,300.0	90.00	359.57	11,280.0	3,224.9	-24.2	3,224.9	0.00	0.00	0.00
14,400.0	90.00	359.57	11,280.0	3,324.9	-25.0	3,324.9	0.00	0.00	0.00
14,500.0	90.00	359.57	11,280.0	3,424.8	-25.7	3,424.9	0.00	0.00	0.00
14,600.0	90.00	359.57	11,280.0	3,524.8	-26.5	3,524.9	0.00	0.00	0.00
14,700.0	90.00	359.57	11,280.0	3,624.8	-27.2	3,624.9	0.00	0.00	0.00
14,800.0	90.00	359.57	11,280.0	3,724.8	-28.0	3,724.9	0.00	0.00	0.00
14,900.0	90.00	359.57	11,280.0	3,824.8	-28.7	3,824.9	0.00	0.00	0.00
15,000.0	90.00	359.57	11,280.0	3,924.8	-29.5	3,924.9	0.00	0.00	0.00
15,100.0	90.00	359.57	11,280.0	4,024.8	-30.2	4,024.9	0.00	0.00	0.00
15,200.0	90.00	359.57	11,280.0	4,124.8	-31.0	4,124.9	0.00	0.00	0.00
15,300.0	90.00	359.57	11,280.0	4,224.8	-31.7	4,224.9	0.00	0.00	0.00
15,400.0	90.00	359.57	11,280.0	4,324.8	-32.5	4,324.9	0.00	0.00	0.00
15,500.0	90.00	359.57	11,280.0	4,424.8	-33.2	4,424.9	0.00	0.00	0.00
15,600.0	90.00	359.57	11,280.0	4,524.8	-34.0	4,524.9	0.00	0.00	0.00
15,700.0	90.00	359.57	11,280.0	4,624.8	-34.7	4,624.9	0.00	0.00	0.00
15,789.2	90.00	359.57	11,280.0	4,714.0	-35.4	4,714.1	0.00	0.00	0.00
LTP(Cerb 35 #1H)									
15,800.0	90.00	359.57	11,280.0	4,724.8	-35.5	4,724.9	0.00	0.00	0.00
15,889.2	90.00	359.57	11,280.0	4,814.0	-36.1	4,814.1	0.00	0.00	0.00
TD at 15889.2 - BHL(Cerb 35 #1H)									

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
KOP(Cerb 35 #1H) - plan hits target center - Point	0.00	0.00	10,802.5	0.0	0.0	457,175.00	746,690.00	32° 15' 15.734 N	103° 32' 7.245 W
FTP(Cerb 35 #1H) - plan misses target center by 0.3usft at 11117.3usft MD (11095.0 TVD, 100.0 N, -0.8 E) - Point	0.00	0.00	11,095.0	100.0	-1.0	457,275.00	746,688.00	32° 15' 16.724 N	103° 32' 7.248 W
BHL(Cerb 35 #1H) - plan misses target center by 0.1usft at 15889.2usft MD (11280.0 TVD, 4814.0 N, -36.1 E) - Point	0.00	0.00	11,280.0	4,814.0	-36.0	461,989.00	746,654.00	32° 16' 3.373 N	103° 32' 7.247 W
LTP(Cerb 35 #1H) - plan misses target center by 0.4usft at 15789.2usft MD (11280.0 TVD, 4714.0 N, -35.4 E) - Point	0.00	0.00	11,280.0	4,714.0	-35.0	461,889.00	746,655.00	32° 16' 2.384 N	103° 32' 7.244 W
EOC(Cerb 35 #1H) - plan hits target center - Point	0.00	0.00	11,280.0	477.5	-3.6	457,652.50	746,688.40	32° 15' 20.460 N	103° 32' 7.246 W



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,802.5	10,802.5	0.0	0.0	KOP - 10802.5 'MD, 0.00° INC, 0.00° AZI
11,552.6	11,280.0	477.5	-3.6	EOC- 11552.6 'MD, 90.00° INC, 359.57° AZI
15,889.2	11,280.0	4,814.0	-36.1	TD at 15889.2