

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

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. 30-025-45272
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267, Midland, Texas 79702		7. Lease Name or Unit Agreement Name Yarrow 32 State Com
4. Well Location Unit Letter <u>O</u> : <u>393</u> feet from the <u>South</u> line and <u>1733</u> feet from the <u>East</u> line Section <u>32</u> <u>23S</u> Township <u>33E</u> Range <u>NMNM</u> Lea <u>County</u>		8. Well Number 704H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3672'		9. OGRID Number 7377
		10. Pool name or Wildcat WC-025 G-09 S243310P; Upr Wolfcamp

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: Delete Permit ☐		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 Inc, respectfully requests to amend the APD to change the BHL, casing, cement & mud design. Attached please find the following amended documents; C-102, the proposed wellbore diagram & proposed drilling/casing/cement/mud information.

BHL change to 100' FNL & 2,309' FEL.

Spud Date: 03/30/19

Rig Release Date:

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

SIGNATURE Star Harrell TITLE Sr Regulatory Specialist DATE 2/21/2019

Type or print name Star Harrell E-mail address: star_harrell@eogresources.com PHONE: 432-848-9161

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 02/22/19
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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) 476-3462

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

¹ API Number 30-025-45272		² Pool Code 98135	³ Pool Name WC-02 G-09 S243310P: Upper Wolfcamp
⁴ Property Code 322743	⁵ Property Name YARROW 32 STATE		⁶ Well Number #704H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3672'

¹⁰Surface Location

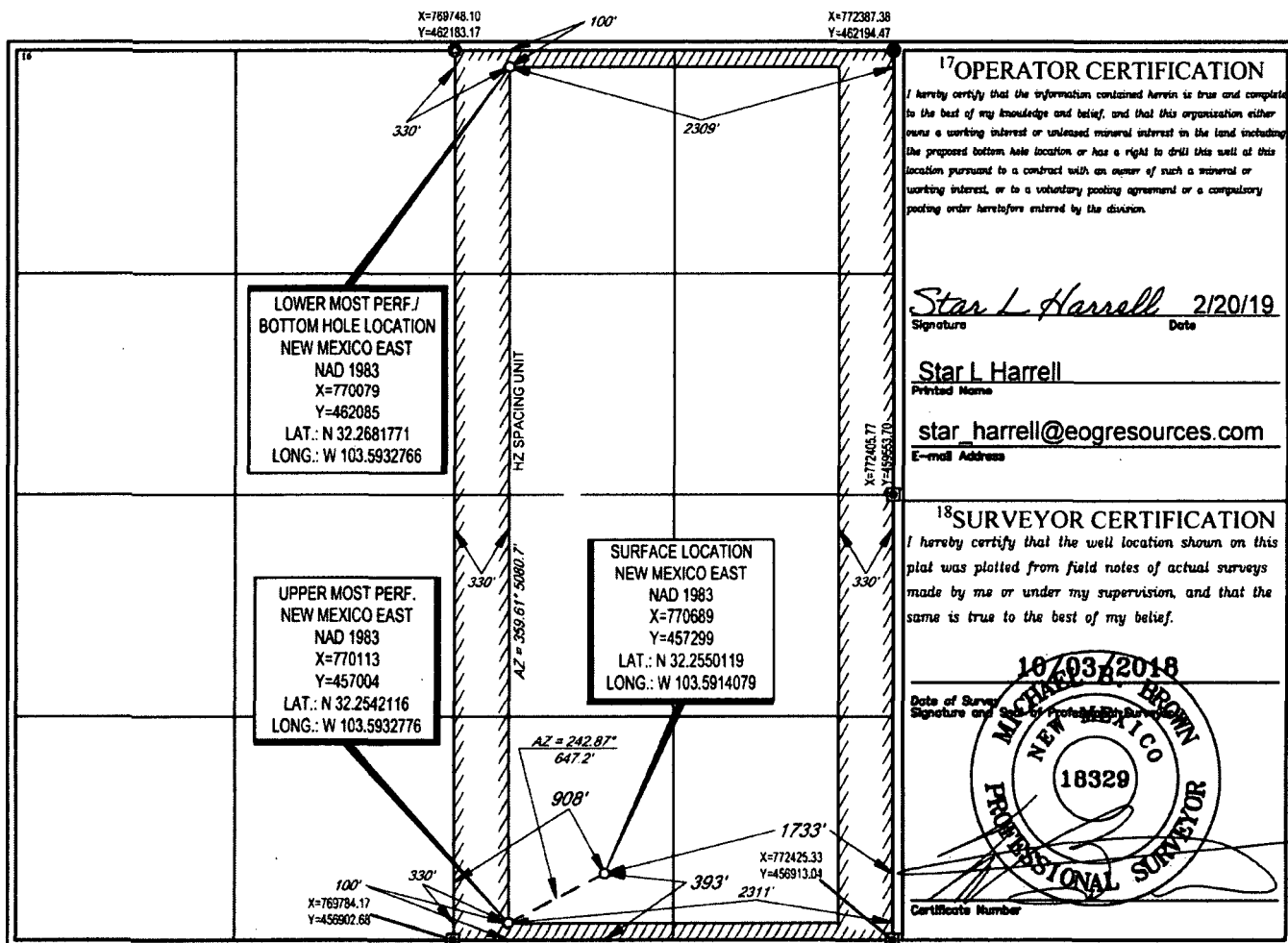
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	32	23-S	33-E	-	393'	SOUTH	1733'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	32	23-S	33-E	-	100'	NORTH	2309'	EAST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

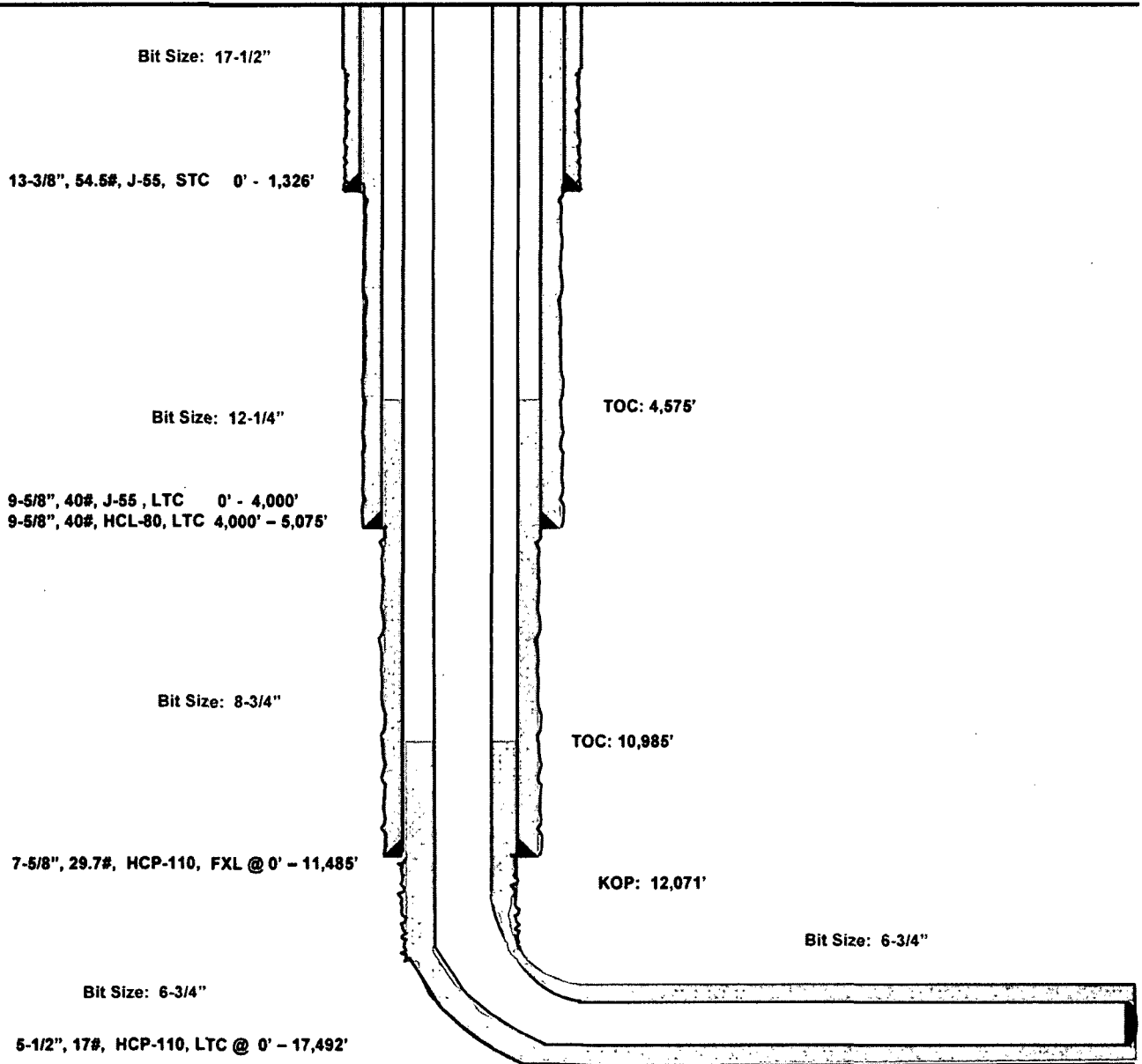


**Yarrow 32 State #704H
Lea County, New Mexico**

**393' FSL
1733' FEL
Section 32
T-23-S, R-33-E**

**Proposed Wellbore
Revised 1/31/19
API: 30-025-45272**

**KB: 3,697'
GL: 3,672'**



Lateral: 17,492' MD, 12,541' TVD

**BH Location: 100' FNL & 2309' FEL
Section 32
T-23-S, R-33-E**

Revised Permit Information 1/31/19:

Well Name: Yarrow 32 State No. 704H

Location:

SHL: 393' FSL & 1733' FEL, Section 32, T-23-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 2309' FEL, Section 32, T-23-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' - 1,326'	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' - 5,075'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0' - 11,485'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 17,492'	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
1,326'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ (TOC @ Surface)
	333	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)
5,075'	692	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)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,485'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,575')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
17,492'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,985')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' - 1,326'	Fresh - Gel	8.6-8.8	28-34	N/c
1,326' - 5,075'	Brine	10.0-10.2	28-34	N/c
5,075' - 11,485'	Oil Base	8.7-9.4	58-68	N/c - 6
11,485' - 17,492'	Oil Base	10.0-11.5	58-68	3 - 6
Lateral				



Lea County, NM (NAD 83 NME)

Yarrow 32 State #704H

Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Epscode: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #704H

KB = 25 @ 3497.00ft 3472.0
Northing 457299.00 Easting 770488.00 Latitude 32° 15' 18.042 N Longitude 103° 36' 29.074 W

SECTION DETAILS

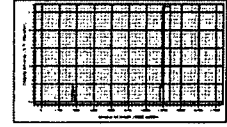
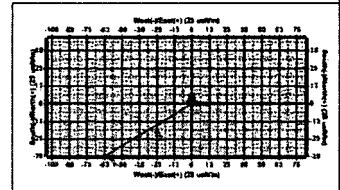
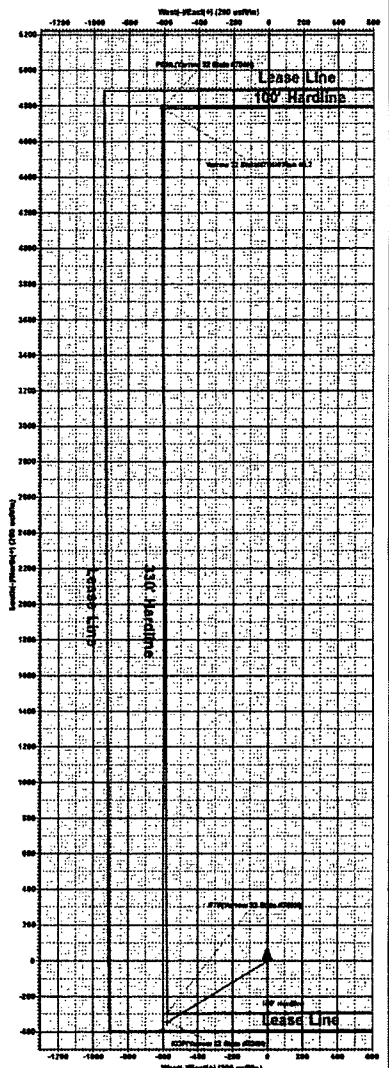
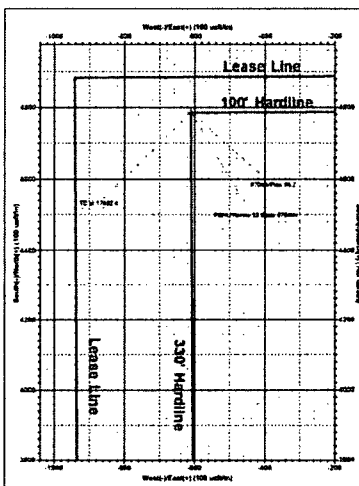
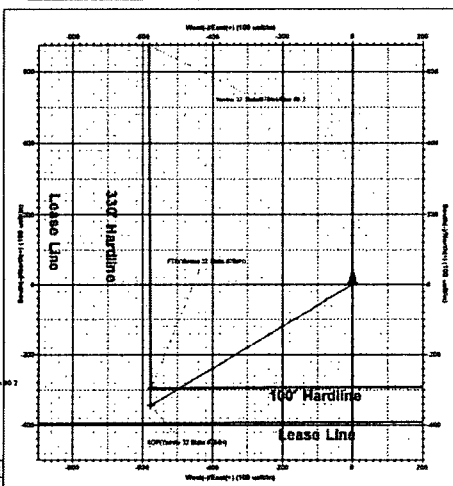
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3217.0	4.34	239.08	3216.8	-4.2	-7.0	2.00	239.08	-3.3	
4	11871.7	4.34	239.08	11848.7	-340.8	-569.0	0.00	0.00	-266.1	
5	12088.7	0.00	0.00	12063.5	-345.0	-576.0	2.00	180.00	-269.4	KOP(Yarrow 32 State #704H)
6	12838.7	90.00	359.62	12541.0	132.8	-679.2	12.00	359.62	204.6	
7	17482.4	90.00	359.62	12541.0	4786.0	-610.0	0.00	0.00	4624.7	PBHL(Yarrow 32 State #704H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Yarrow 32 State #704H)	12063.5	-345.0	-576.0	458264.00	770113.00
PBHL(Yarrow 32 State #704H)	12541.0	4786.0	-610.0	462088.00	770079.00
FTP(Yarrow 32 State #704H)	12541.0	-798.0	-616.0	457004.00	770113.00



Vertical Section at 362.74° (200 units)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#704H

OH

Plan: Plan #0.2

Standard Planning Report

31 January, 2019



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #704H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Yarrow 32 State				
Site Position:		Northing:	457,304.00 usft	Latitude:	32° 15' 18.011 N
From:	Map	Easting:	771,862.00 usft	Longitude:	103° 35' 15.414 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.40°

Well	#704H				
Well Position	+N/-S	-5.0 usft	Northing:	457,299.00 usft	Latitude: 32° 15' 18.042 N
	+E/-W	-1,173.0 usft	Easting:	770,689.00 usft	Longitude: 103° 35' 29.074 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	3,672.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	10/16/2018	6.82	60.07	47,815.68105255

Design	Plan #0.2				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	352.74	

Plan Survey Tool Program	Date 1/31/2019				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1 0.0	17,492.4	Plan #0.2 (OH)	MWD		
			OWSG MWD - Standard		

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
3,217.0	4.34	239.08	3,216.8	-4.2	-7.0	2.00	2.00	0.00	239.08	
11,871.7	4.34	239.08	11,846.7	-340.8	-569.0	0.00	0.00	0.00	0.00	
12,088.7	0.00	0.00	12,063.5	-345.0	-576.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,838.7	90.00	359.62	12,541.0	132.5	-579.2	12.00	12.00	-0.05	359.62	
17,492.4	90.00	359.62	12,541.0	4,786.0	-610.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 State



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #704H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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	2.00	239.08	3,100.0	-0.9	-1.5	-0.7	2.00	2.00	0.00
3,200.0	4.00	239.08	3,199.8	-3.6	-6.0	-2.8	2.00	2.00	0.00
3,217.0	4.34	239.08	3,216.8	-4.2	-7.0	-3.3	2.00	2.00	0.00
3,300.0	4.34	239.08	3,299.6	-7.4	-12.4	-5.8	0.00	0.00	0.00
3,400.0	4.34	239.08	3,399.3	-11.3	-18.9	-8.9	0.00	0.00	0.00
3,500.0	4.34	239.08	3,499.0	-15.2	-25.4	-11.9	0.00	0.00	0.00
3,600.0	4.34	239.08	3,598.7	-19.1	-31.9	-14.9	0.00	0.00	0.00
3,700.0	4.34	239.08	3,698.4	-23.0	-38.4	-18.0	0.00	0.00	0.00
3,800.0	4.34	239.08	3,798.1	-26.9	-44.9	-21.0	0.00	0.00	0.00
3,900.0	4.34	239.08	3,897.8	-30.8	-51.4	-24.0	0.00	0.00	0.00
4,000.0	4.34	239.08	3,997.5	-34.7	-57.9	-27.1	0.00	0.00	0.00
4,100.0	4.34	239.08	4,097.3	-38.6	-64.4	-30.1	0.00	0.00	0.00
4,200.0	4.34	239.08	4,197.0	-42.4	-70.9	-33.1	0.00	0.00	0.00
4,300.0	4.34	239.08	4,296.7	-46.3	-77.4	-36.2	0.00	0.00	0.00
4,400.0	4.34	239.08	4,396.4	-50.2	-83.9	-39.2	0.00	0.00	0.00
4,500.0	4.34	239.08	4,496.1	-54.1	-90.3	-42.3	0.00	0.00	0.00
4,600.0	4.34	239.08	4,595.8	-58.0	-96.8	-45.3	0.00	0.00	0.00
4,700.0	4.34	239.08	4,695.5	-61.9	-103.3	-48.3	0.00	0.00	0.00
4,800.0	4.34	239.08	4,795.3	-65.8	-109.8	-51.4	0.00	0.00	0.00
4,900.0	4.34	239.08	4,895.0	-69.7	-116.3	-54.4	0.00	0.00	0.00
5,000.0	4.34	239.08	4,994.7	-73.6	-122.8	-57.4	0.00	0.00	0.00
5,100.0	4.34	239.08	5,094.4	-77.4	-129.3	-60.5	0.00	0.00	0.00
5,200.0	4.34	239.08	5,194.1	-81.3	-135.8	-63.5	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #704H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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)
5,300.0	4.34	239.08	5,293.8	-85.2	-142.3	-66.5	0.00	0.00	0.00
5,400.0	4.34	239.08	5,393.5	-89.1	-148.8	-69.6	0.00	0.00	0.00
5,500.0	4.34	239.08	5,493.2	-93.0	-155.3	-72.6	0.00	0.00	0.00
5,600.0	4.34	239.08	5,593.0	-96.9	-161.8	-75.7	0.00	0.00	0.00
5,700.0	4.34	239.08	5,692.7	-100.8	-168.3	-78.7	0.00	0.00	0.00
5,800.0	4.34	239.08	5,792.4	-104.7	-174.7	-81.7	0.00	0.00	0.00
5,900.0	4.34	239.08	5,892.1	-108.6	-181.2	-84.8	0.00	0.00	0.00
6,000.0	4.34	239.08	5,991.8	-112.4	-187.7	-87.8	0.00	0.00	0.00
6,100.0	4.34	239.08	6,091.5	-116.3	-194.2	-90.8	0.00	0.00	0.00
6,200.0	4.34	239.08	6,191.2	-120.2	-200.7	-93.9	0.00	0.00	0.00
6,300.0	4.34	239.08	6,291.0	-124.1	-207.2	-96.9	0.00	0.00	0.00
6,400.0	4.34	239.08	6,390.7	-128.0	-213.7	-100.0	0.00	0.00	0.00
6,500.0	4.34	239.08	6,490.4	-131.9	-220.2	-103.0	0.00	0.00	0.00
6,600.0	4.34	239.08	6,590.1	-135.8	-226.7	-106.0	0.00	0.00	0.00
6,700.0	4.34	239.08	6,689.8	-139.7	-233.2	-109.1	0.00	0.00	0.00
6,800.0	4.34	239.08	6,789.5	-143.6	-239.7	-112.1	0.00	0.00	0.00
6,900.0	4.34	239.08	6,889.2	-147.4	-246.2	-115.1	0.00	0.00	0.00
7,000.0	4.34	239.08	6,988.9	-151.3	-252.7	-118.2	0.00	0.00	0.00
7,100.0	4.34	239.08	7,088.7	-155.2	-259.1	-121.2	0.00	0.00	0.00
7,200.0	4.34	239.08	7,188.4	-159.1	-265.6	-124.2	0.00	0.00	0.00
7,300.0	4.34	239.08	7,288.1	-163.0	-272.1	-127.3	0.00	0.00	0.00
7,400.0	4.34	239.08	7,387.8	-166.9	-278.6	-130.3	0.00	0.00	0.00
7,500.0	4.34	239.08	7,487.5	-170.8	-285.1	-133.4	0.00	0.00	0.00
7,600.0	4.34	239.08	7,587.2	-174.7	-291.6	-136.4	0.00	0.00	0.00
7,700.0	4.34	239.08	7,686.9	-178.6	-298.1	-139.4	0.00	0.00	0.00
7,800.0	4.34	239.08	7,786.6	-182.4	-304.6	-142.5	0.00	0.00	0.00
7,900.0	4.34	239.08	7,886.4	-186.3	-311.1	-145.5	0.00	0.00	0.00
8,000.0	4.34	239.08	7,986.1	-190.2	-317.6	-148.5	0.00	0.00	0.00
8,100.0	4.34	239.08	8,085.8	-194.1	-324.1	-151.6	0.00	0.00	0.00
8,200.0	4.34	239.08	8,185.5	-198.0	-330.6	-154.6	0.00	0.00	0.00
8,300.0	4.34	239.08	8,285.2	-201.9	-337.1	-157.6	0.00	0.00	0.00
8,400.0	4.34	239.08	8,384.9	-205.8	-343.6	-160.7	0.00	0.00	0.00
8,500.0	4.34	239.08	8,484.6	-209.7	-350.0	-163.7	0.00	0.00	0.00
8,600.0	4.34	239.08	8,584.4	-213.6	-356.5	-166.8	0.00	0.00	0.00
8,700.0	4.34	239.08	8,684.1	-217.4	-363.0	-169.8	0.00	0.00	0.00
8,800.0	4.34	239.08	8,783.8	-221.3	-369.5	-172.8	0.00	0.00	0.00
8,900.0	4.34	239.08	8,883.5	-225.2	-376.0	-175.9	0.00	0.00	0.00
9,000.0	4.34	239.08	8,983.2	-229.1	-382.5	-178.9	0.00	0.00	0.00
9,100.0	4.34	239.08	9,082.9	-233.0	-389.0	-181.9	0.00	0.00	0.00
9,200.0	4.34	239.08	9,182.6	-236.9	-395.5	-185.0	0.00	0.00	0.00
9,300.0	4.34	239.08	9,282.3	-240.8	-402.0	-188.0	0.00	0.00	0.00
9,400.0	4.34	239.08	9,382.1	-244.7	-408.5	-191.1	0.00	0.00	0.00
9,500.0	4.34	239.08	9,481.8	-248.5	-415.0	-194.1	0.00	0.00	0.00
9,600.0	4.34	239.08	9,581.5	-252.4	-421.5	-197.1	0.00	0.00	0.00
9,700.0	4.34	239.08	9,681.2	-256.3	-428.0	-200.2	0.00	0.00	0.00
9,800.0	4.34	239.08	9,780.9	-260.2	-434.4	-203.2	0.00	0.00	0.00
9,900.0	4.34	239.08	9,880.6	-264.1	-440.9	-206.2	0.00	0.00	0.00
10,000.0	4.34	239.08	9,980.3	-268.0	-447.4	-209.3	0.00	0.00	0.00
10,100.0	4.34	239.08	10,080.1	-271.9	-453.9	-212.3	0.00	0.00	0.00
10,200.0	4.34	239.08	10,179.8	-275.8	-460.4	-215.3	0.00	0.00	0.00
10,300.0	4.34	239.08	10,279.5	-279.7	-466.9	-218.4	0.00	0.00	0.00
10,400.0	4.34	239.08	10,379.2	-283.5	-473.4	-221.4	0.00	0.00	0.00
10,500.0	4.34	239.08	10,478.9	-287.4	-479.9	-224.5	0.00	0.00	0.00
10,600.0	4.34	239.08	10,578.6	-291.3	-486.4	-227.5	0.00	0.00	0.00



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 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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)
10,700.0	4.34	239.08	10,678.3	-295.2	-492.9	-230.5	0.00	0.00	0.00
10,800.0	4.34	239.08	10,778.0	-299.1	-499.4	-233.6	0.00	0.00	0.00
10,900.0	4.34	239.08	10,877.8	-303.0	-505.9	-236.6	0.00	0.00	0.00
11,000.0	4.34	239.08	10,977.5	-306.9	-512.4	-239.6	0.00	0.00	0.00
11,100.0	4.34	239.08	11,077.2	-310.8	-518.8	-242.7	0.00	0.00	0.00
11,200.0	4.34	239.08	11,176.9	-314.7	-525.3	-245.7	0.00	0.00	0.00
11,300.0	4.34	239.08	11,276.6	-318.5	-531.8	-248.7	0.00	0.00	0.00
11,400.0	4.34	239.08	11,376.3	-322.4	-538.3	-251.8	0.00	0.00	0.00
11,500.0	4.34	239.08	11,476.0	-326.3	-544.8	-254.8	0.00	0.00	0.00
11,600.0	4.34	239.08	11,575.8	-330.2	-551.3	-257.9	0.00	0.00	0.00
11,700.0	4.34	239.08	11,675.5	-334.1	-557.8	-260.9	0.00	0.00	0.00
11,800.0	4.34	239.08	11,775.2	-338.0	-564.3	-263.9	0.00	0.00	0.00
11,871.7	4.34	239.08	11,846.7	-340.8	-569.0	-266.1	0.00	0.00	0.00
11,900.0	3.77	239.08	11,874.9	-341.8	-570.7	-266.9	2.00	-2.00	0.00
12,000.0	1.77	239.08	11,974.8	-344.3	-574.8	-268.9	2.00	-2.00	0.00
12,088.7	0.00	0.00	12,063.5	-345.0	-576.0	-269.4	2.00	-2.00	0.00
KOP(Yarrow 32 State #704H)									
12,100.0	1.35	359.62	12,074.8	-344.9	-576.0	-269.3	12.00	12.00	0.00
12,125.0	4.35	359.62	12,099.7	-343.6	-576.0	-268.0	12.00	12.00	0.00
12,150.0	7.35	359.62	12,124.6	-341.1	-576.0	-265.5	12.00	12.00	0.00
12,175.0	10.35	359.62	12,149.3	-337.2	-576.1	-261.7	12.00	12.00	0.00
12,200.0	13.35	359.62	12,173.8	-332.1	-576.1	-256.6	12.00	12.00	0.00
12,225.0	16.35	359.62	12,197.9	-325.7	-576.1	-250.2	12.00	12.00	0.00
12,250.0	19.35	359.62	12,221.7	-318.0	-576.2	-242.6	12.00	12.00	0.00
12,275.0	22.35	359.62	12,245.1	-309.1	-576.2	-233.8	12.00	12.00	0.00
12,300.0	25.35	359.62	12,267.9	-299.0	-576.3	-223.8	12.00	12.00	0.00
12,325.0	28.35	359.62	12,290.2	-287.7	-576.4	-212.5	12.00	12.00	0.00
12,350.0	31.35	359.62	12,311.9	-275.3	-576.5	-200.2	12.00	12.00	0.00
12,375.0	34.35	359.62	12,332.9	-261.7	-576.6	-186.7	12.00	12.00	0.00
12,400.0	37.35	359.62	12,353.2	-247.1	-576.6	-172.2	12.00	12.00	0.00
12,425.0	40.35	359.62	12,372.6	-231.4	-576.8	-156.6	12.00	12.00	0.00
12,450.0	43.35	359.62	12,391.3	-214.7	-576.9	-140.1	12.00	12.00	0.00
12,475.0	46.35	359.62	12,409.0	-197.1	-577.0	-122.6	12.00	12.00	0.00
12,491.0	48.27	359.62	12,419.8	-185.3	-577.1	-110.9	12.00	12.00	0.00
FTP(Yarrow 32 State #704H)									
12,500.0	49.35	359.62	12,425.8	-178.6	-577.1	-104.2	12.00	12.00	0.00
12,525.0	52.35	359.62	12,441.5	-159.2	-577.2	-84.9	12.00	12.00	0.00
12,550.0	55.35	359.62	12,456.3	-139.0	-577.4	-64.9	12.00	12.00	0.00
12,575.0	58.35	359.62	12,470.0	-118.1	-577.5	-44.1	12.00	12.00	0.00
12,600.0	61.35	359.62	12,482.5	-96.5	-577.6	-22.6	12.00	12.00	0.00
12,625.0	64.35	359.62	12,493.9	-74.2	-577.8	-0.6	12.00	12.00	0.00
12,650.0	67.35	359.62	12,504.1	-51.4	-577.9	22.1	12.00	12.00	0.00
12,675.0	70.35	359.62	12,513.2	-28.1	-578.1	45.2	12.00	12.00	0.00
12,700.0	73.35	359.62	12,521.0	-4.3	-578.3	68.8	12.00	12.00	0.00
12,725.0	76.35	359.62	12,527.5	19.8	-578.4	92.8	12.00	12.00	0.00
12,750.0	79.35	359.62	12,532.7	44.2	-578.6	117.0	12.00	12.00	0.00
12,775.0	82.35	359.62	12,536.7	68.9	-578.7	141.5	12.00	12.00	0.00
12,800.0	85.35	359.62	12,539.4	93.8	-578.9	166.2	12.00	12.00	0.00
12,825.0	88.35	359.62	12,540.8	118.7	-579.1	191.0	12.00	12.00	0.00
12,838.7	90.00	359.62	12,541.0	132.5	-579.2	204.6	12.00	12.00	0.00
12,900.0	90.00	359.62	12,541.0	193.7	-579.6	265.4	0.00	0.00	0.00
13,000.0	90.00	359.62	12,541.0	293.7	-580.2	364.7	0.00	0.00	0.00
13,100.0	90.00	359.62	12,541.0	393.7	-580.9	464.0	0.00	0.00	0.00
13,200.0	90.00	359.62	12,541.0	493.7	-581.6	563.3	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)
13,300.0	90.00	359.62	12,541.0	593.7	-582.2	662.6	0.00	0.00	0.00
13,400.0	90.00	359.62	12,541.0	693.7	-582.9	761.8	0.00	0.00	0.00
13,500.0	90.00	359.62	12,541.0	793.7	-583.5	861.1	0.00	0.00	0.00
13,600.0	90.00	359.62	12,541.0	893.7	-584.2	960.4	0.00	0.00	0.00
13,700.0	90.00	359.62	12,541.0	993.7	-584.9	1,059.7	0.00	0.00	0.00
13,800.0	90.00	359.62	12,541.0	1,093.7	-585.5	1,159.0	0.00	0.00	0.00
13,900.0	90.00	359.62	12,541.0	1,193.7	-586.2	1,258.2	0.00	0.00	0.00
14,000.0	90.00	359.62	12,541.0	1,293.7	-586.9	1,357.5	0.00	0.00	0.00
14,100.0	90.00	359.62	12,541.0	1,393.7	-587.5	1,456.8	0.00	0.00	0.00
14,200.0	90.00	359.62	12,541.0	1,493.7	-588.2	1,556.1	0.00	0.00	0.00
14,300.0	90.00	359.62	12,541.0	1,593.7	-588.8	1,655.3	0.00	0.00	0.00
14,400.0	90.00	359.62	12,541.0	1,693.7	-589.5	1,754.6	0.00	0.00	0.00
14,500.0	90.00	359.62	12,541.0	1,793.7	-590.2	1,853.9	0.00	0.00	0.00
14,600.0	90.00	359.62	12,541.0	1,893.7	-590.8	1,953.2	0.00	0.00	0.00
14,700.0	90.00	359.62	12,541.0	1,993.7	-591.5	2,052.5	0.00	0.00	0.00
14,800.0	90.00	359.62	12,541.0	2,093.7	-592.2	2,151.7	0.00	0.00	0.00
14,900.0	90.00	359.62	12,541.0	2,193.7	-592.8	2,251.0	0.00	0.00	0.00
15,000.0	90.00	359.62	12,541.0	2,293.7	-593.5	2,350.3	0.00	0.00	0.00
15,100.0	90.00	359.62	12,541.0	2,393.7	-594.1	2,449.6	0.00	0.00	0.00
15,200.0	90.00	359.62	12,541.0	2,493.7	-594.8	2,548.9	0.00	0.00	0.00
15,300.0	90.00	359.62	12,541.0	2,593.7	-595.5	2,648.1	0.00	0.00	0.00
15,400.0	90.00	359.62	12,541.0	2,693.7	-596.1	2,747.4	0.00	0.00	0.00
15,500.0	90.00	359.62	12,541.0	2,793.7	-596.8	2,846.7	0.00	0.00	0.00
15,600.0	90.00	359.62	12,541.0	2,893.7	-597.5	2,946.0	0.00	0.00	0.00
15,700.0	90.00	359.62	12,541.0	2,993.7	-598.1	3,045.3	0.00	0.00	0.00
15,800.0	90.00	359.62	12,541.0	3,093.7	-598.8	3,144.5	0.00	0.00	0.00
15,900.0	90.00	359.62	12,541.0	3,193.7	-599.4	3,243.8	0.00	0.00	0.00
16,000.0	90.00	359.62	12,541.0	3,293.6	-600.1	3,343.1	0.00	0.00	0.00
16,100.0	90.00	359.62	12,541.0	3,393.6	-600.8	3,442.4	0.00	0.00	0.00
16,200.0	90.00	359.62	12,541.0	3,493.6	-601.4	3,541.7	0.00	0.00	0.00
16,300.0	90.00	359.62	12,541.0	3,593.6	-602.1	3,640.9	0.00	0.00	0.00
16,400.0	90.00	359.62	12,541.0	3,693.6	-602.8	3,740.2	0.00	0.00	0.00
16,500.0	90.00	359.62	12,541.0	3,793.6	-603.4	3,839.5	0.00	0.00	0.00
16,600.0	90.00	359.62	12,541.0	3,893.6	-604.1	3,938.8	0.00	0.00	0.00
16,700.0	90.00	359.62	12,541.0	3,993.6	-604.7	4,038.0	0.00	0.00	0.00
16,800.0	90.00	359.62	12,541.0	4,093.6	-605.4	4,137.3	0.00	0.00	0.00
16,900.0	90.00	359.62	12,541.0	4,193.6	-606.1	4,236.6	0.00	0.00	0.00
17,000.0	90.00	359.62	12,541.0	4,293.6	-606.7	4,335.9	0.00	0.00	0.00
17,100.0	90.00	359.62	12,541.0	4,393.6	-607.4	4,435.2	0.00	0.00	0.00
17,200.0	90.00	359.62	12,541.0	4,493.6	-608.1	4,534.4	0.00	0.00	0.00
17,300.0	90.00	359.62	12,541.0	4,593.6	-608.7	4,633.7	0.00	0.00	0.00
17,400.0	90.00	359.62	12,541.0	4,693.6	-609.4	4,733.0	0.00	0.00	0.00
17,492.4	90.00	359.62	12,541.0	4,786.0	-610.0	4,824.7	0.00	0.00	0.00

PBHL(Yarrow 32 State #704H)



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Design: Plan #0.2

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MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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(Yarrow 32 State #7 - plan hits target center - Point	0.00	0.01	12,063.5	-345.0	-576.0	456,954.00	770,113.00	32° 15' 14.667 N	103° 35' 35.809 W
PBHL(Yarrow 32 State # - plan hits target center - Point	0.00	0.01	12,541.0	4,786.0	-610.0	462,085.00	770,079.00	32° 16' 5.442 N	103° 35' 35.793 W
FTP(Yarrow 32 State #7 - plan misses target center by 163.4usft at 12491.0usft MD (12419.8 TVD, -185.3 N, -577.1 E) - Point	0.00	0.00	12,541.0	-295.0	-576.0	457,004.00	770,113.00	32° 15' 15.162 N	103° 35' 35.805 W