

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

HOBBS OCD

AUG 16 2018

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. DOGWOOD 23 FED COM 705H
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		9. API Well No. 30-025-44096-00-X1
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-686-3689	10. Field and Pool or Exploratory Area RED HILLS-WOLFCAMP, WEST (GAS)
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T26S R33E SESW 194FSL 2422FWL 32.022228 N Lat, 103.543823 W Lon		11. County or Parish, State LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG Resources requests an amendment to our approved APD for this well to reflect changes in BHL and a 4-string casing design as attached.

Change BHL to: 100' FNL & 1965' FWL NWNE-14-26S-33E

Carlsbad Field Office
OCD Hobbs

All previous COA shall apply.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #430258 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 08/09/2018 (18PP1616SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/07/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

KZ

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
District II
511 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) 476-3462

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 30-025-44096		² Pool Code 98097	³ Pool Name Sanders Tank; Upper Wolfcamp
⁴ Property Code 319664	⁵ Property Name DOGWOOD 23 FED COM		⁶ Well Number #705H
⁷ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3305'

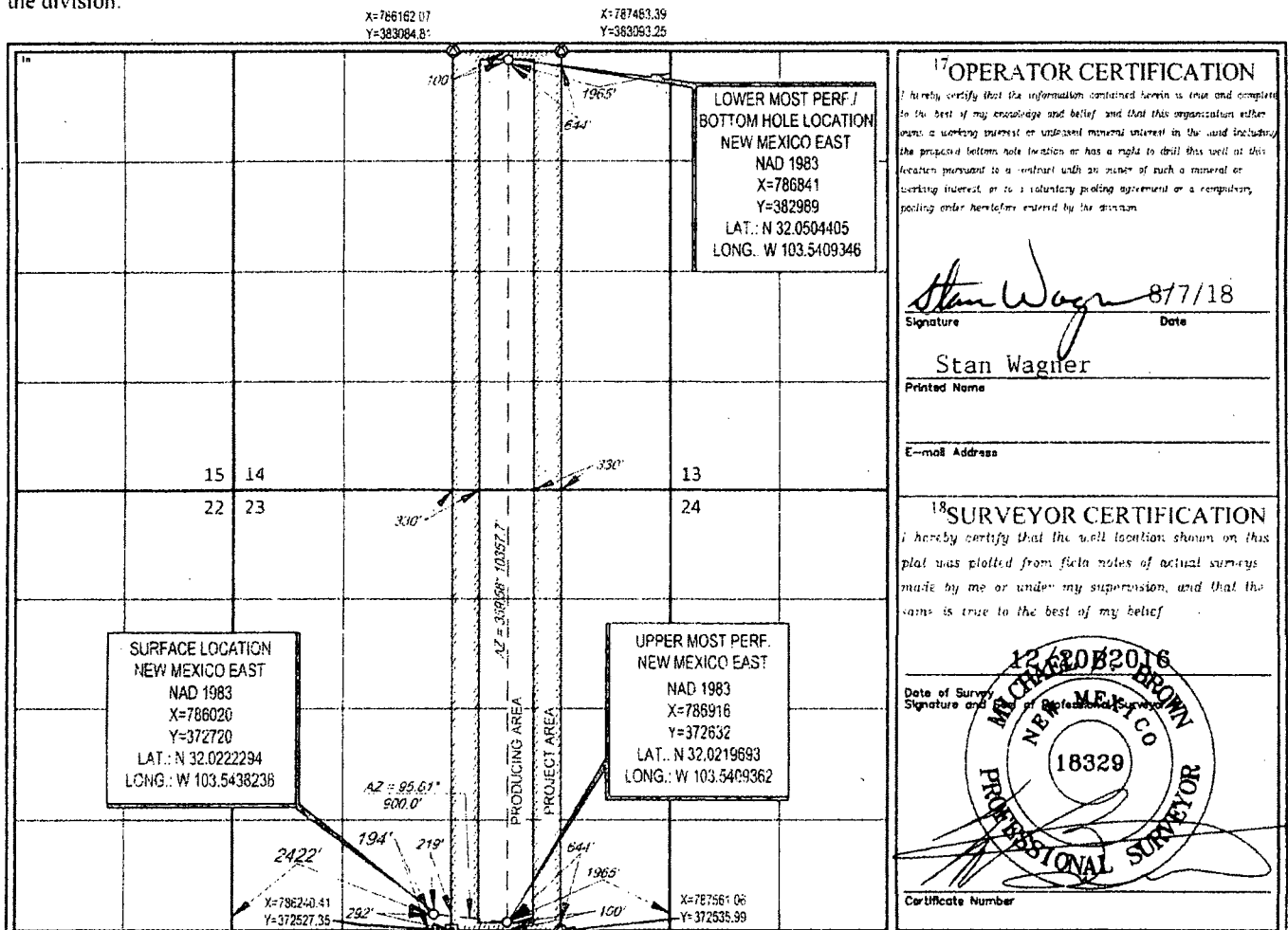
¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	23	26-S	33-E	-	194'	SOUTH	2422'	WEST	LEA

U/L or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
B	14	26-S	33-E	-	100'	NORTH	1965'	EAST	LEA

¹² Dedicated Acres 320.00	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.



¹⁷OPERATOR 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.

Stan Wagner 8/7/18
Signature Date

Stan Wagner
Printed Name

E-mail Address

¹⁸SURVEYOR 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.

12/20/2016
Date of Survey
Signature and Seal of Professional Surveyor
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

Revised Permit Information 8/7/18:

Well Name: Dogwood 23 Fed Com No. 705H

Location:

SL: 194' FSL & 2422' FWL, Section 23, T-26-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1965' FEL, Section 14, T-26-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 - 1,020'	13.375"	54.5#	J55	LTC	1.125	1.25	1.60
12.25"	0 - 3,850'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	3,850' - 4,850'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 - 11,525'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.60
6.75"	0' - 11,025'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,025' - 22,755'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to wave the centralizer requirements for the 7-5/8" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Variance is also requested to waive the annular clearance requirements for the 5-1/2" casing by 7-5/8" casing annulus to the proposed top of cement.

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,010'	600	13.5	1.73	9.13	Lead: 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	6.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
9-5/8" 4,850'	1780	12.7	2.20	11.64	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	200	16.0	1.12	4.75	Tail: Class C + 0.13% C-20
7-5/8" 11,525'	340	11.5	2.72	15.70	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,350')
	210	16.0	1.12	4.74	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
5-1/2" 22,755'	950	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,025')

Mud Program:

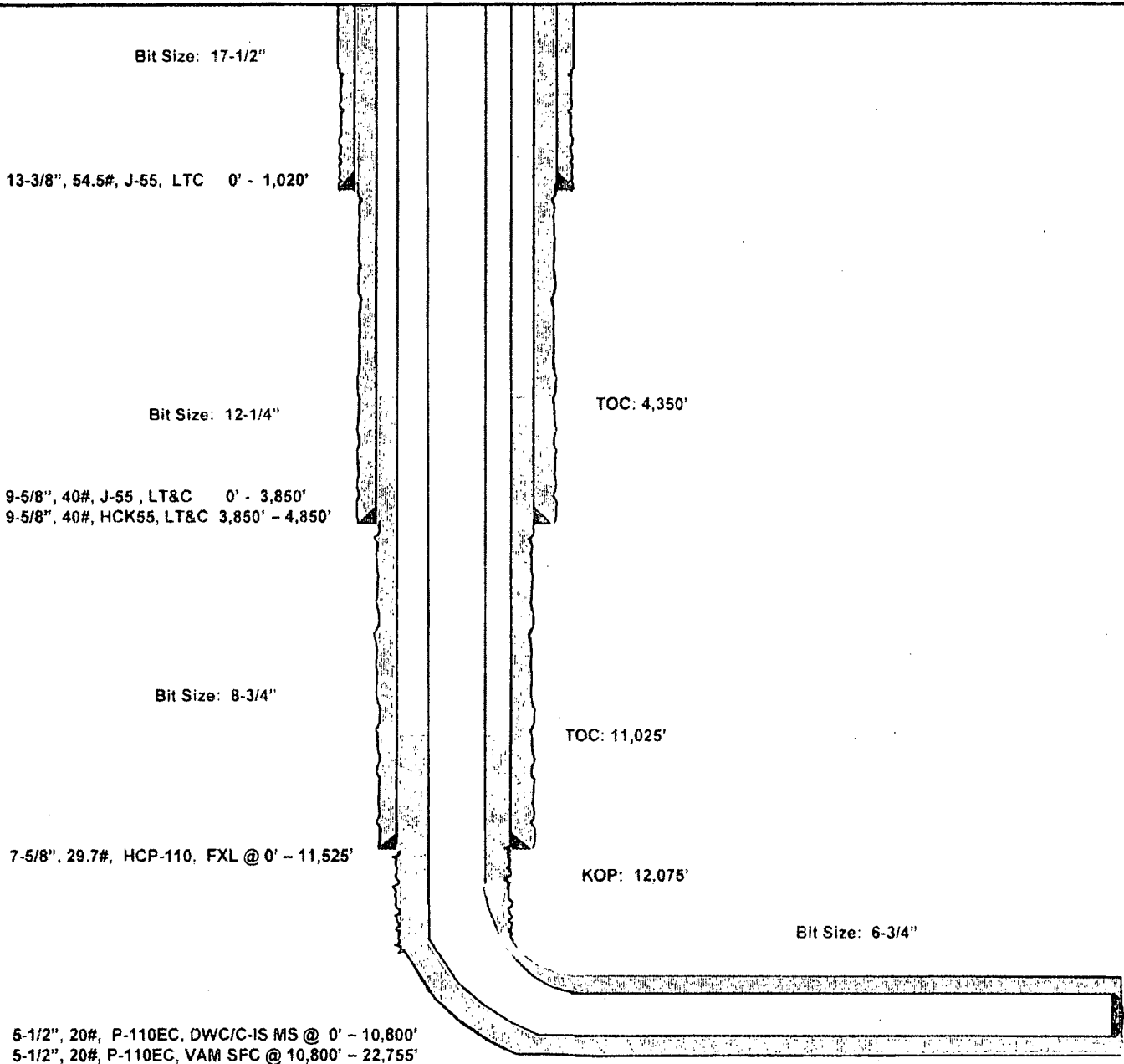
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,010'	Fresh - Gel	8.6-8.8	28-34	N/c
1,010' - 4,850'	Brine	10.0-10.2	28-34	N/c
4,850' - 11,525'	Oil Base	8.7-9.4	58-68	N/c - 6
11,525' - 22,755' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

Dogwood 23 Fed Com #705H

194' FSL
2422' FWL
Section 23
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 8/7/18
API: 30-025-44096

KB: 3,330'
GL: 3,305'



Lateral: 22,755' MD, 12,500' TVD
Upper Most Perf:
100' FSL & 1965' FEL Sec. 23
Lower Most Perf:
100' FNL & 1965' FEL Sec. 14
BH Location: 100' FNL & 1965' FEL
Section 14
T-26-S, R-33-E



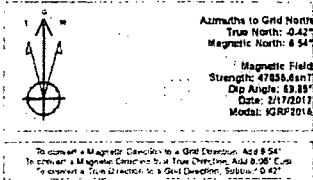
Lea County, NM (NAD 83 NME)
Dogwood 23 Fed Com #705H
Plan #0.2

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: #705H

Ground Level: 3305.0
KB = 25' @ 3310.0ush
Northings: 830320.00 Easting: 166010.00
Latitude: 32° 1' 20.028 N Longitude: 103° 32' 37.770 W



SECTION DETAILS

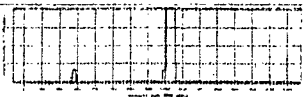
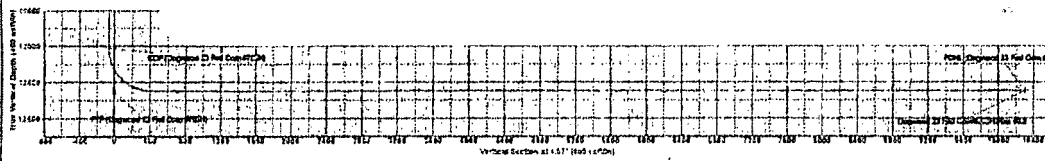
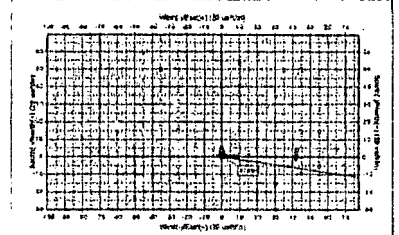
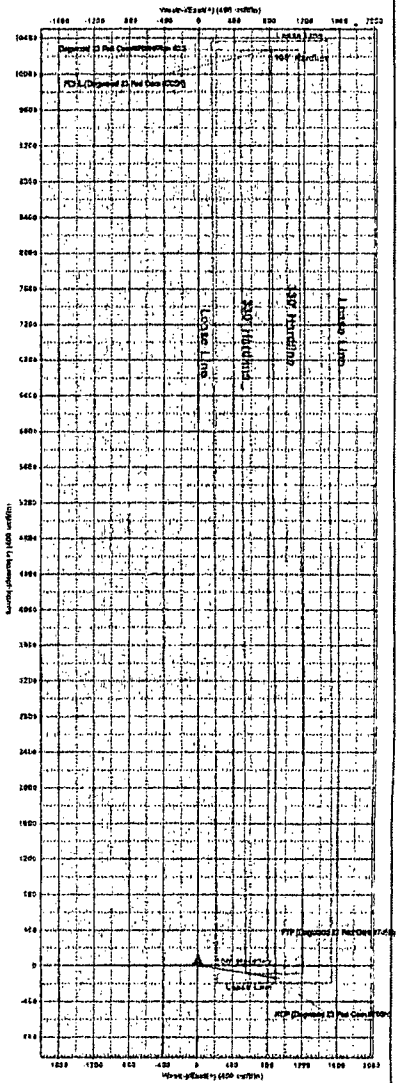
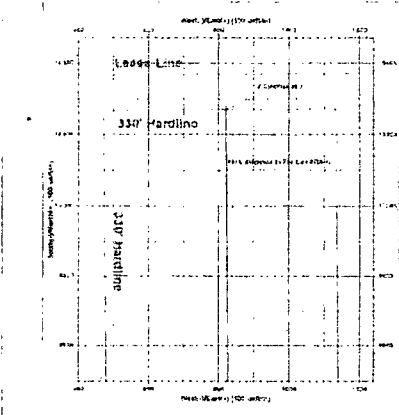
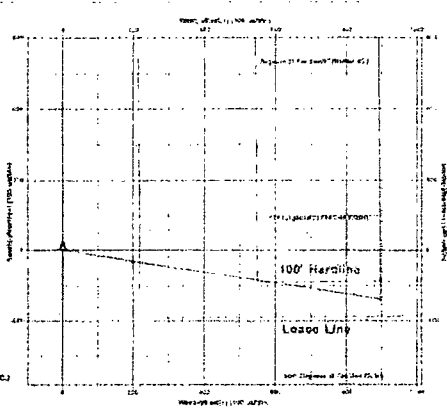
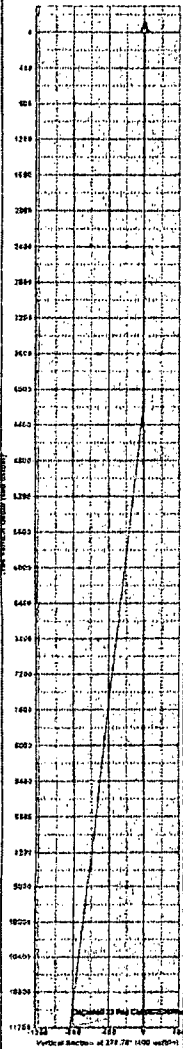
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSeal	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4130.4	6.73	98.76	4335.6	-3.0	19.5	2.00	98.76	-1.4	
4	11738.6	6.73	98.76	11685.9	-135.0	876.5	0.00	0.00	-64.7	
5	12075.0	0.00	0.00	12022.5	-138.0	896.0	2.00	180.00	-66.2	KOP (Dogwood 23 Fed Com #705H)
6	12825.0	90.00	359.59	12500.0	339.3	892.6	12.00	359.59	409.5	
7	22754.8	90.00	359.59	12500.0	10289.0	821.0	0.00	0.00	10301.8	PBHL (Dogwood 23 Fed Com #705H)

SASING DETAILS

No. Sasing Date is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northings	Eastings
KOP (Dogwood 23 Fed Com #705H)	12022.5	-138.0	896.0	377682.00	786316.00
PTD (Dogwood 23 Fed Com #705H)	12600.0	-81.0	656.0	377612.00	786316.00
PBHL (Dogwood 23 Fed Com #705H)	12500.0	10289.0	821.0	382828.00	786341.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#705H

OH

Plan: Plan #0.2

Standard Planning Report

07 August, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3330.0usft
MD Reference: KB = 25' @ 3330.0usft
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	Dogwood 23 Fed Com		
Site Position:	Northing:	372,741.00 usft	Latitude: 32° 1' 20.069 N
From: Map	Easting:	788,311.00 usft	Longitude: 103° 32' 11.158 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16"	Grid Convergence: 0.42°

Well	#705H		
Well Position	+N/-S	-21.0 usft	Latitude: 32° 1' 20.028 N
	+E/-W	-2,291.0 usft	Longitude: 103° 32' 37.770 W
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 3,305.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/17/2017	6.96
			59.89
			47,855.57958345

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S (usft)	Direction (°)
	0.0	0.0	4.57

Plan Survey Tool Program	Date 8/7/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	22,754.8 Plan #0.2 (OH)	MWD
			OWSG MWD - Standard

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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,336.4	6.73	98.76	4,335.6	-3.0	19.5	2.00	2.00	0.00	98.76	
11,738.6	6.73	98.76	11,686.9	-135.0	876.5	0.00	0.00	0.00	0.00	
12,075.0	0.00	0.01	12,022.5	-138.0	896.0	2.00	-2.00	0.00	180.00	KOP (Dogwood 23 Fe
12,825.0	90.00	359.59	12,500.0	339.5	892.6	12.00	12.00	-0.06	359.59	
22,754.8	90.00	359.59	12,500.0	10,269.0	821.0	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dogwood 23 Fed Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3330.0usft
 MD Reference: KB = 25' @ 3330.0usft
 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)	Bulld 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	2.00	98.76	4,100.0	-0.3	1.7	-0.1	2.00	2.00	0.00
4,200.0	4.00	98.76	4,199.8	-1.1	6.9	-0.5	2.00	2.00	0.00
4,300.0	6.00	98.76	4,299.5	-2.4	15.5	-1.1	2.00	2.00	0.00
4,336.4	6.73	98.76	4,335.6	-3.0	19.5	-1.4	2.00	2.00	0.00
4,400.0	6.73	98.76	4,398.8	-4.1	26.9	-2.0	0.00	0.00	0.00
4,500.0	6.73	98.76	4,498.1	-5.9	38.4	-2.8	0.00	0.00	0.00
4,600.0	6.73	98.76	4,597.4	-7.7	50.0	-3.7	0.00	0.00	0.00
4,700.0	6.73	98.76	4,696.7	-9.5	61.6	-4.5	0.00	0.00	0.00
4,800.0	6.73	98.76	4,796.0	-11.3	73.2	-5.4	0.00	0.00	0.00
4,900.0	6.73	98.76	4,895.3	-13.1	84.8	-6.3	0.00	0.00	0.00
5,000.0	6.73	98.76	4,994.7	-14.8	96.3	-7.1	0.00	0.00	0.00
5,100.0	6.73	98.76	5,094.0	-16.6	107.9	-8.0	0.00	0.00	0.00
5,200.0	6.73	98.76	5,193.3	-18.4	119.5	-8.8	0.00	0.00	0.00



Planning Report

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 Site: Dogwood 23 Fed Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3330.0usft
 MD Reference: KB = 25' @ 3330.0usft
 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	6.73	98.76	5,292.6	-20.2	131.1	-9.7	0.00	0.00	0.00
5,400.0	6.73	98.76	5,391.9	-22.0	142.6	-10.5	0.00	0.00	0.00
5,500.0	6.73	98.76	5,491.2	-23.8	154.2	-11.4	0.00	0.00	0.00
5,600.0	6.73	98.76	5,590.5	-25.5	165.8	-12.2	0.00	0.00	0.00
5,700.0	6.73	98.76	5,689.8	-27.3	177.4	-13.1	0.00	0.00	0.00
5,800.0	6.73	98.76	5,789.2	-29.1	188.9	-14.0	0.00	0.00	0.00
5,900.0	6.73	98.76	5,888.5	-30.9	200.5	-14.8	0.00	0.00	0.00
6,000.0	6.73	98.76	5,987.8	-32.7	212.1	-15.7	0.00	0.00	0.00
6,100.0	6.73	98.76	6,087.1	-34.5	223.7	-16.5	0.00	0.00	0.00
6,200.0	6.73	98.76	6,186.4	-36.2	235.3	-17.4	0.00	0.00	0.00
6,300.0	6.73	98.76	6,285.7	-38.0	246.8	-18.2	0.00	0.00	0.00
6,400.0	6.73	98.76	6,385.0	-39.8	258.4	-19.1	0.00	0.00	0.00
6,500.0	6.73	98.76	6,484.3	-41.6	270.0	-19.9	0.00	0.00	0.00
6,600.0	6.73	98.76	6,583.6	-43.4	281.6	-20.8	0.00	0.00	0.00
6,700.0	6.73	98.76	6,683.0	-45.2	293.1	-21.6	0.00	0.00	0.00
6,800.0	6.73	98.76	6,782.3	-46.9	304.7	-22.5	0.00	0.00	0.00
6,900.0	6.73	98.76	6,881.6	-48.7	316.3	-23.4	0.00	0.00	0.00
7,000.0	6.73	98.76	6,980.9	-50.5	327.9	-24.2	0.00	0.00	0.00
7,100.0	6.73	98.76	7,080.2	-52.3	339.5	-25.1	0.00	0.00	0.00
7,200.0	6.73	98.76	7,179.5	-54.1	351.0	-25.9	0.00	0.00	0.00
7,300.0	6.73	98.76	7,278.8	-55.8	362.6	-26.8	0.00	0.00	0.00
7,400.0	6.73	98.76	7,378.1	-57.6	374.2	-27.6	0.00	0.00	0.00
7,500.0	6.73	98.76	7,477.4	-59.4	385.8	-28.5	0.00	0.00	0.00
7,600.0	6.73	98.76	7,576.8	-61.2	397.3	-29.3	0.00	0.00	0.00
7,700.0	6.73	98.76	7,676.1	-63.0	408.9	-30.2	0.00	0.00	0.00
7,800.0	6.73	98.76	7,775.4	-64.8	420.5	-31.0	0.00	0.00	0.00
7,900.0	6.73	98.76	7,874.7	-66.5	432.1	-31.9	0.00	0.00	0.00
8,000.0	6.73	98.76	7,974.0	-68.3	443.7	-32.8	0.00	0.00	0.00
8,100.0	6.73	98.76	8,073.3	-70.1	455.2	-33.6	0.00	0.00	0.00
8,200.0	6.73	98.76	8,172.6	-71.9	466.8	-34.5	0.00	0.00	0.00
8,300.0	6.73	98.76	8,271.9	-73.7	478.4	-35.3	0.00	0.00	0.00
8,400.0	6.73	98.76	8,371.3	-75.5	490.0	-36.2	0.00	0.00	0.00
8,500.0	6.73	98.76	8,470.6	-77.2	501.5	-37.0	0.00	0.00	0.00
8,600.0	6.73	98.76	8,569.9	-79.0	513.1	-37.9	0.00	0.00	0.00
8,700.0	6.73	98.76	8,669.2	-80.8	524.7	-38.7	0.00	0.00	0.00
8,800.0	6.73	98.76	8,768.5	-82.6	536.3	-39.6	0.00	0.00	0.00
8,900.0	6.73	98.76	8,867.8	-84.4	547.9	-40.4	0.00	0.00	0.00
9,000.0	6.73	98.76	8,967.1	-86.2	559.4	-41.3	0.00	0.00	0.00
9,100.0	6.73	98.76	9,066.4	-87.9	571.0	-42.2	0.00	0.00	0.00
9,200.0	6.73	98.76	9,165.7	-89.7	582.6	-43.0	0.00	0.00	0.00
9,300.0	6.73	98.76	9,265.1	-91.5	594.2	-43.9	0.00	0.00	0.00
9,400.0	6.73	98.76	9,364.4	-93.3	605.7	-44.7	0.00	0.00	0.00
9,500.0	6.73	98.76	9,463.7	-95.1	617.3	-45.6	0.00	0.00	0.00
9,600.0	6.73	98.76	9,563.0	-96.9	628.9	-46.4	0.00	0.00	0.00
9,700.0	6.73	98.76	9,662.3	-98.6	640.5	-47.3	0.00	0.00	0.00
9,800.0	6.73	98.76	9,761.6	-100.4	652.1	-48.1	0.00	0.00	0.00
9,900.0	6.73	98.76	9,860.9	-102.2	663.6	-49.0	0.00	0.00	0.00
10,000.0	6.73	98.76	9,960.2	-104.0	675.2	-49.9	0.00	0.00	0.00
10,100.0	6.73	98.76	10,059.5	-105.8	686.8	-50.7	0.00	0.00	0.00
10,200.0	6.73	98.76	10,158.9	-107.6	698.4	-51.6	0.00	0.00	0.00
10,300.0	6.73	98.76	10,258.2	-109.3	709.9	-52.4	0.00	0.00	0.00
10,400.0	6.73	98.76	10,357.5	-111.1	721.5	-53.3	0.00	0.00	0.00
10,500.0	6.73	98.76	10,456.8	-112.9	733.1	-54.1	0.00	0.00	0.00
10,600.0	6.73	98.76	10,556.1	-114.7	744.7	-55.0	0.00	0.00	0.00



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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	6.73	98.76	10,655.4	-116.5	756.3	-55.8	0.00	0.00	0.00
10,800.0	6.73	98.76	10,754.7	-118.3	767.8	-56.7	0.00	0.00	0.00
10,900.0	6.73	98.76	10,854.0	-120.0	779.4	-57.5	0.00	0.00	0.00
11,000.0	6.73	98.76	10,953.3	-121.8	791.0	-58.4	0.00	0.00	0.00
11,100.0	6.73	98.76	11,052.7	-123.6	802.6	-59.3	0.00	0.00	0.00
11,200.0	6.73	98.76	11,152.0	-125.4	814.1	-60.1	0.00	0.00	0.00
11,300.0	6.73	98.76	11,251.3	-127.2	825.7	-61.0	0.00	0.00	0.00
11,400.0	6.73	98.76	11,350.6	-129.0	837.3	-61.8	0.00	0.00	0.00
11,500.0	6.73	98.76	11,449.9	-130.7	848.9	-62.7	0.00	0.00	0.00
11,600.0	6.73	98.76	11,549.2	-132.5	860.5	-63.5	0.00	0.00	0.00
11,700.0	6.73	98.76	11,648.5	-134.3	872.0	-64.4	0.00	0.00	0.00
11,738.6	6.73	98.76	11,686.9	-135.0	876.5	-64.7	0.00	0.00	0.00
11,800.0	5.50	98.76	11,747.9	-136.0	883.0	-65.2	2.00	-2.00	0.00
11,900.0	3.50	98.76	11,847.6	-137.2	890.7	-65.8	2.00	-2.00	0.00
12,000.0	1.50	98.76	11,947.5	-137.9	895.0	-66.1	2.00	-2.00	0.00
12,075.0	0.00	0.01	12,022.5	-138.0	896.0	-66.2	2.00	-2.00	0.00
KOP (Dogwood 23 Fed Com #705H)									
12,100.0	3.00	359.59	12,047.5	-137.3	896.0	-65.5	12.00	12.00	0.00
12,125.0	6.00	359.59	12,072.4	-135.4	896.0	-63.5	12.00	12.00	0.00
12,150.0	9.00	359.59	12,097.2	-132.1	896.0	-60.3	12.00	12.00	0.00
12,175.0	12.00	359.59	12,121.8	-127.6	895.9	-55.8	12.00	12.00	0.00
12,200.0	15.00	359.59	12,146.1	-121.7	895.9	-49.9	12.00	12.00	0.00
12,225.0	18.00	359.59	12,170.0	-114.6	895.8	-42.9	12.00	12.00	0.00
12,250.0	21.00	359.59	12,193.6	-106.3	895.8	-34.6	12.00	12.00	0.00
12,275.0	24.00	359.59	12,216.7	-96.7	895.7	-25.0	12.00	12.00	0.00
12,300.0	27.00	359.59	12,239.3	-86.0	895.6	-14.3	12.00	12.00	0.00
12,325.0	30.00	359.59	12,261.2	-74.0	895.5	-2.4	12.00	12.00	0.00
12,350.0	33.00	359.59	12,282.5	-61.0	895.4	10.6	12.00	12.00	0.00
12,375.0	36.00	359.59	12,303.1	-46.8	895.3	24.7	12.00	12.00	0.00
12,400.0	39.00	359.59	12,323.0	-31.6	895.2	39.8	12.00	12.00	0.00
12,425.0	42.00	359.59	12,342.0	-15.4	895.1	56.0	12.00	12.00	0.00
12,450.0	45.00	359.59	12,360.1	1.8	895.0	73.2	12.00	12.00	0.00
12,475.0	48.00	359.59	12,377.3	20.0	894.9	91.2	12.00	12.00	0.00
FTP (Dogwood 23 Fed Com #705H)									
12,500.0	51.00	359.59	12,393.6	39.0	894.7	110.2	12.00	12.00	0.00
12,525.0	54.00	359.59	12,408.8	58.8	894.6	129.9	12.00	12.00	0.00
12,550.0	57.00	359.59	12,422.9	79.4	894.4	150.4	12.00	12.00	0.00
12,575.0	60.00	359.59	12,436.0	100.7	894.3	171.7	12.00	12.00	0.00
12,600.0	63.00	359.59	12,447.9	122.7	894.1	193.6	12.00	12.00	0.00
12,625.0	66.00	359.59	12,458.7	145.2	894.0	216.0	12.00	12.00	0.00
12,650.0	69.00	359.59	12,468.2	168.3	893.8	239.0	12.00	12.00	0.00
12,675.0	72.00	359.59	12,476.6	191.9	893.6	262.5	12.00	12.00	0.00
12,700.0	75.00	359.59	12,483.7	215.9	893.4	286.4	12.00	12.00	0.00
12,725.0	78.00	359.59	12,489.5	240.2	893.3	310.6	12.00	12.00	0.00
12,750.0	81.00	359.59	12,494.1	264.8	893.1	335.1	12.00	12.00	0.00
12,775.0	84.00	359.59	12,497.3	289.5	892.9	359.8	12.00	12.00	0.00
12,800.0	87.00	359.59	12,499.3	314.5	892.7	384.6	12.00	12.00	0.00
12,825.0	90.00	359.59	12,500.0	339.5	892.6	409.5	12.00	12.00	0.00
12,900.0	90.00	359.59	12,500.0	414.4	892.0	484.2	0.00	0.00	0.00
13,000.0	90.00	359.59	12,500.0	514.4	891.3	523.8	0.00	0.00	0.00
13,100.0	90.00	359.59	12,500.0	614.4	890.6	563.5	0.00	0.00	0.00
13,200.0	90.00	359.59	12,500.0	714.4	889.9	583.1	0.00	0.00	0.00
13,300.0	90.00	359.59	12,500.0	814.4	889.1	582.7	0.00	0.00	0.00
13,400.0	90.00	359.59	12,500.0	914.4	888.4	582.3	0.00	0.00	0.00



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13,500.0	90.00	359.59	12,500.0	1,014.4	887.7	1,081.9	0.00	0.00	0.00
13,600.0	90.00	359.59	12,500.0	1,114.4	887.0	1,181.6	0.00	0.00	0.00
13,700.0	90.00	359.59	12,500.0	1,214.4	886.3	1,281.2	0.00	0.00	0.00
13,800.0	90.00	359.59	12,500.0	1,314.4	885.5	1,380.8	0.00	0.00	0.00
13,900.0	90.00	359.59	12,500.0	1,414.4	884.8	1,480.4	0.00	0.00	0.00
14,000.0	90.00	359.59	12,500.0	1,514.4	884.1	1,580.1	0.00	0.00	0.00
14,100.0	90.00	359.59	12,500.0	1,614.4	883.4	1,679.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,500.0	1,714.4	882.7	1,779.3	0.00	0.00	0.00
14,300.0	90.00	359.59	12,500.0	1,814.4	881.9	1,878.9	0.00	0.00	0.00
14,400.0	90.00	359.59	12,500.0	1,914.4	881.2	1,978.5	0.00	0.00	0.00
14,500.0	90.00	359.59	12,500.0	2,014.4	880.5	2,078.2	0.00	0.00	0.00
14,600.0	90.00	359.59	12,500.0	2,114.4	879.8	2,177.8	0.00	0.00	0.00
14,700.0	90.00	359.59	12,500.0	2,214.4	879.0	2,277.4	0.00	0.00	0.00
14,800.0	90.00	359.59	12,500.0	2,314.4	878.3	2,377.0	0.00	0.00	0.00
14,900.0	90.00	359.59	12,500.0	2,414.4	877.6	2,476.7	0.00	0.00	0.00
15,000.0	90.00	359.59	12,500.0	2,514.4	876.9	2,576.3	0.00	0.00	0.00
15,100.0	90.00	359.59	12,500.0	2,614.4	876.2	2,675.9	0.00	0.00	0.00
15,200.0	90.00	359.59	12,500.0	2,714.4	875.4	2,775.5	0.00	0.00	0.00
15,300.0	90.00	359.59	12,500.0	2,814.4	874.7	2,875.1	0.00	0.00	0.00
15,400.0	90.00	359.59	12,500.0	2,914.4	874.0	2,974.8	0.00	0.00	0.00
15,500.0	90.00	359.59	12,500.0	3,014.4	873.3	3,074.4	0.00	0.00	0.00
15,600.0	90.00	359.59	12,500.0	3,114.4	872.6	3,174.0	0.00	0.00	0.00
15,700.0	90.00	359.59	12,500.0	3,214.4	871.8	3,273.6	0.00	0.00	0.00
15,800.0	90.00	359.59	12,500.0	3,314.4	871.1	3,373.2	0.00	0.00	0.00
15,900.0	90.00	359.59	12,500.0	3,414.4	870.4	3,472.9	0.00	0.00	0.00
16,000.0	90.00	359.59	12,500.0	3,514.4	869.7	3,572.5	0.00	0.00	0.00
16,100.0	90.00	359.59	12,500.0	3,614.4	869.0	3,672.1	0.00	0.00	0.00
16,200.0	90.00	359.59	12,500.0	3,714.4	868.2	3,771.7	0.00	0.00	0.00
16,300.0	90.00	359.59	12,500.0	3,814.4	867.5	3,871.4	0.00	0.00	0.00
16,400.0	90.00	359.59	12,500.0	3,914.4	866.8	3,971.0	0.00	0.00	0.00
16,500.0	90.00	359.59	12,500.0	4,014.3	866.1	4,070.6	0.00	0.00	0.00
16,600.0	90.00	359.59	12,500.0	4,114.3	865.4	4,170.2	0.00	0.00	0.00
16,700.0	90.00	359.59	12,500.0	4,214.3	864.6	4,269.8	0.00	0.00	0.00
16,800.0	90.00	359.59	12,500.0	4,314.3	863.9	4,369.5	0.00	0.00	0.00
16,900.0	90.00	359.59	12,500.0	4,414.3	863.2	4,469.1	0.00	0.00	0.00
17,000.0	90.00	359.59	12,500.0	4,514.3	862.5	4,568.7	0.00	0.00	0.00
17,100.0	90.00	359.59	12,500.0	4,614.3	861.8	4,668.3	0.00	0.00	0.00
17,200.0	90.00	359.59	12,500.0	4,714.3	861.0	4,768.0	0.00	0.00	0.00
17,300.0	90.00	359.59	12,500.0	4,814.3	860.3	4,867.6	0.00	0.00	0.00
17,400.0	90.00	359.59	12,500.0	4,914.3	859.6	4,967.2	0.00	0.00	0.00
17,500.0	90.00	359.59	12,500.0	5,014.3	858.9	5,066.8	0.00	0.00	0.00
17,600.0	90.00	359.59	12,500.0	5,114.3	858.1	5,166.4	0.00	0.00	0.00
17,700.0	90.00	359.59	12,500.0	5,214.3	857.4	5,266.1	0.00	0.00	0.00
17,800.0	90.00	359.59	12,500.0	5,314.3	856.7	5,365.7	0.00	0.00	0.00
17,900.0	90.00	359.59	12,500.0	5,414.3	856.0	5,465.3	0.00	0.00	0.00
18,000.0	90.00	359.59	12,500.0	5,514.3	855.3	5,564.9	0.00	0.00	0.00
18,100.0	90.00	359.59	12,500.0	5,614.3	854.5	5,664.6	0.00	0.00	0.00
18,200.0	90.00	359.59	12,500.0	5,714.3	853.8	5,764.2	0.00	0.00	0.00
18,300.0	90.00	359.59	12,500.0	5,814.3	853.1	5,863.8	0.00	0.00	0.00
18,400.0	90.00	359.59	12,500.0	5,914.3	852.4	5,963.4	0.00	0.00	0.00
18,500.0	90.00	359.59	12,500.0	6,014.3	851.7	6,063.0	0.00	0.00	0.00
18,600.0	90.00	359.59	12,500.0	6,114.3	850.9	6,162.7	0.00	0.00	0.00
18,700.0	90.00	359.59	12,500.0	6,214.3	850.2	6,262.3	0.00	0.00	0.00
18,800.0	90.00	359.59	12,500.0	6,314.3	849.5	6,361.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dogwood 23 Fed Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3330.0usft
 MD Reference: KB = 25' @ 3330.0usft
 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)
18,900.0	90.00	359.59	12,500.0	6,414.3	848.8	6,461.5	0.00	0.00	0.00
19,000.0	90.00	359.59	12,500.0	6,514.3	848.1	6,561.2	0.00	0.00	0.00
19,100.0	90.00	359.59	12,500.0	6,614.3	847.3	6,660.8	0.00	0.00	0.00
19,200.0	90.00	359.59	12,500.0	6,714.3	846.6	6,760.4	0.00	0.00	0.00
19,300.0	90.00	359.59	12,500.0	6,814.3	845.9	6,860.0	0.00	0.00	0.00
19,400.0	90.00	359.59	12,500.0	6,914.3	845.2	6,959.6	0.00	0.00	0.00
19,500.0	90.00	359.59	12,500.0	7,014.3	844.5	7,059.3	0.00	0.00	0.00
19,600.0	90.00	359.59	12,500.0	7,114.3	843.7	7,158.9	0.00	0.00	0.00
19,700.0	90.00	359.59	12,500.0	7,214.3	843.0	7,258.5	0.00	0.00	0.00
19,800.0	90.00	359.59	12,500.0	7,314.3	842.3	7,358.1	0.00	0.00	0.00
19,900.0	90.00	359.59	12,500.0	7,414.3	841.6	7,457.7	0.00	0.00	0.00
20,000.0	90.00	359.59	12,500.0	7,514.3	840.9	7,557.4	0.00	0.00	0.00
20,100.0	90.00	359.59	12,500.0	7,614.3	840.1	7,657.0	0.00	0.00	0.00
20,200.0	90.00	359.59	12,500.0	7,714.3	839.4	7,756.6	0.00	0.00	0.00
20,300.0	90.00	359.59	12,500.0	7,814.3	838.7	7,856.2	0.00	0.00	0.00
20,400.0	90.00	359.59	12,500.0	7,914.2	838.0	7,955.9	0.00	0.00	0.00
20,500.0	90.00	359.59	12,500.0	8,014.2	837.2	8,055.5	0.00	0.00	0.00
20,600.0	90.00	359.59	12,500.0	8,114.2	836.5	8,155.1	0.00	0.00	0.00
20,700.0	90.00	359.59	12,500.0	8,214.2	835.8	8,254.7	0.00	0.00	0.00
20,800.0	90.00	359.59	12,500.0	8,314.2	835.1	8,354.3	0.00	0.00	0.00
20,900.0	90.00	359.59	12,500.0	8,414.2	834.4	8,454.0	0.00	0.00	0.00
21,000.0	90.00	359.59	12,500.0	8,514.2	833.6	8,553.6	0.00	0.00	0.00
21,100.0	90.00	359.59	12,500.0	8,614.2	832.9	8,653.2	0.00	0.00	0.00
21,200.0	90.00	359.59	12,500.0	8,714.2	832.2	8,752.8	0.00	0.00	0.00
21,300.0	90.00	359.59	12,500.0	8,814.2	831.5	8,852.5	0.00	0.00	0.00
21,400.0	90.00	359.59	12,500.0	8,914.2	830.8	8,952.1	0.00	0.00	0.00
21,500.0	90.00	359.59	12,500.0	9,014.2	830.0	9,051.7	0.00	0.00	0.00
21,600.0	90.00	359.59	12,500.0	9,114.2	829.3	9,151.3	0.00	0.00	0.00
21,700.0	90.00	359.59	12,500.0	9,214.2	828.6	9,250.9	0.00	0.00	0.00
21,800.0	90.00	359.59	12,500.0	9,314.2	827.9	9,350.6	0.00	0.00	0.00
21,900.0	90.00	359.59	12,500.0	9,414.2	827.2	9,450.2	0.00	0.00	0.00
22,000.0	90.00	359.59	12,500.0	9,514.2	826.4	9,549.8	0.00	0.00	0.00
22,100.0	90.00	359.59	12,500.0	9,614.2	825.7	9,649.4	0.00	0.00	0.00
22,200.0	90.00	359.59	12,500.0	9,714.2	825.0	9,749.1	0.00	0.00	0.00
22,300.0	90.00	359.59	12,500.0	9,814.2	824.3	9,848.7	0.00	0.00	0.00
22,400.0	90.00	359.59	12,500.0	9,914.2	823.6	9,948.3	0.00	0.00	0.00
22,500.0	90.00	359.59	12,500.0	10,014.2	822.8	10,047.9	0.00	0.00	0.00
22,600.0	90.00	359.59	12,500.0	10,114.2	822.1	10,147.5	0.00	0.00	0.00
22,700.0	90.00	359.59	12,500.0	10,214.2	821.4	10,247.2	0.00	0.00	0.00
22,754.8	90.00	359.59	12,500.0	10,269.0	821.0	10,301.8	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #705H)



Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3330.0usft
MD Reference: KB = 25' @ 3330.0usft
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 (Dogwood 23 Fed C - plan hits target center - Point	0.00	0.01	12,022.5	-138.0	896.0	372,582.00	786,916.00	32° 1' 18.597 N	103° 32' 27.375 W
PBHL (Dogwood 23 Fed - plan hits target center - Point	0.00	0.00	12,500.0	10,269.0	821.0	382,989.00	786,841.00	32° 3' 1.584 N	103° 32' 27.359 W
FTP (Dogwood 23 Fed C - plan misses target center by 163.4usft at 12475.0usft MD (12377.3 TVD, 20.0 N, 894.9 E) - Point	0.00	0.01	12,500.0	-88.0	896.0	372,632.00	786,916.00	32° 1' 19.092 N	103° 32' 27.371 W