

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural
Resources

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 1/18/2021	
⁴ API Number 30 - 025-46511	⁵ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP		⁶ Pool Code 98180 KZ
⁷ Property Code 326336	⁸ Property Name ICY 18 FEDERAL		⁹ Well Number 709H

II. 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
B	18	25S	33E		200	NORTH	1650	EAST	LEA

¹¹ Bottom Hole Location SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	19	25S	33E		2532	NORTH	1640	EAST	LEA
¹² Lse Code	¹³ Producing Method Code FLOWING	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
372812	EOGRM	OIL
151618	ENTERPRISE FIELD SERVICES	GAS
298751	REGENCY FIELD SERVICES	GAS
36785	DCP MIDSTREAM	GAS

IV. Well Completion Data

²¹ Spud Date 11/27/2019	²² Ready Date 01/18/2020	²³ TD 19,998	²⁴ PBTD 19,971	²⁵ Perforations 12686-19971	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
12 1/2		9 5/8"		1170'	
8 3/4"		7 5/8"		11,736'	
6 3/4"		5 1/2"		19,983'	
				790 SXS CL H TOC 12,180' CBL	

V. Well Test Data

³¹ Date New Oil 01/18/2021	³² Gas Delivery Date 01/18/2021	³³ Test Date 01/28/2021	³⁴ Test Length 24 HRS	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 815
³⁷ Choke Size 104	³⁸ Oil 3269	³⁹ Water 6265	⁴⁰ Gas 7332		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kay Maddox			OIL CONSERVATION DIVISION		
Printed name: Kay Maddox			Approved by: PATRICIA MARTINEZ		
Title: SENIOR REGULATORY SPECIALIST			Title: LM II		
E-mail Address: kay_maddox@eogresources.com			Approval Date: 4/5/2021		
Date: 02/12/2021			Request for NMOCD extension of time to file BLM-approved form 3160-4 within 10 days to NMOCD after BLM approval.		
Phone: 432-638-8475					

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) 476-3462

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 30-025-46511	² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP
⁴ Property Code 326336	⁵ Property Name ICY 18 FED	⁶ Well Number #709H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3487'

¹⁰Surface Location

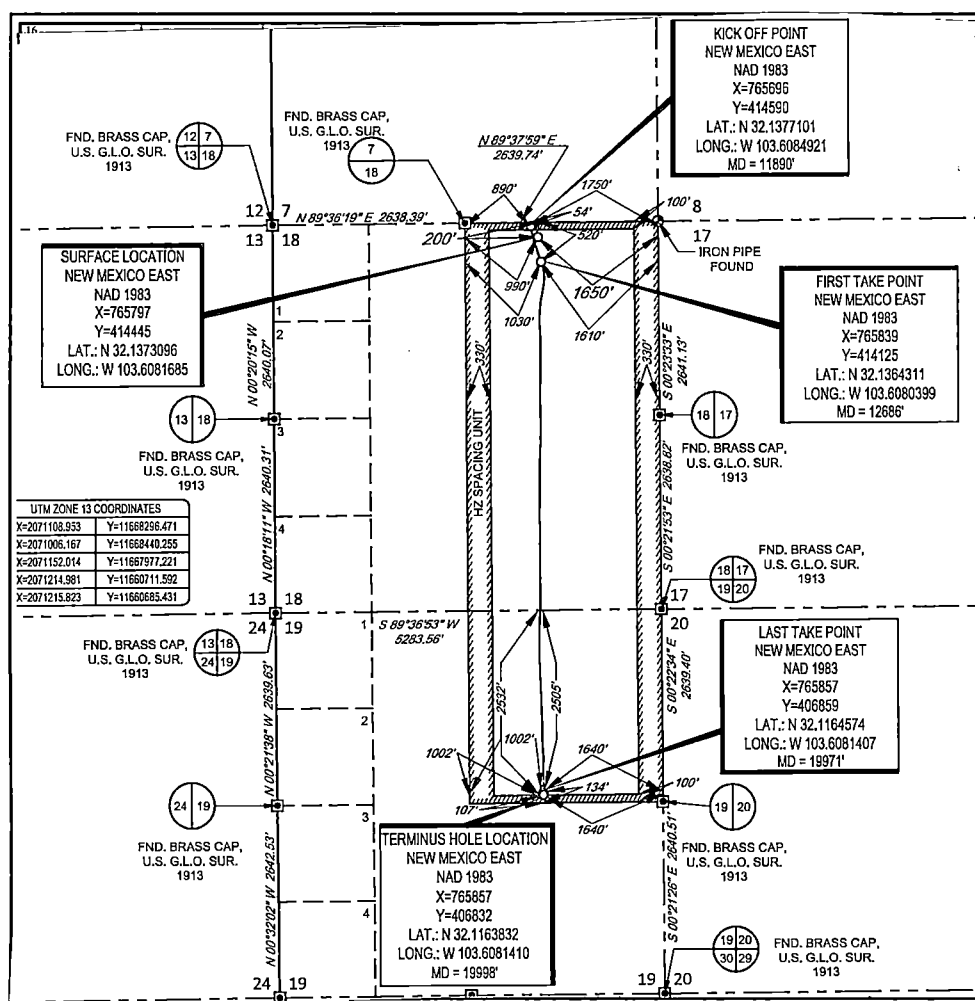
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	25-S	33-E	-	200'	NORTH	1650'	EAST	LEA

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
G	19	25-S	33-E	-	2532'	NORTH	1640'	EAST	LEA

¹² Dedicated Acres 480	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 unleased 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.

Kay Maddox 02/11/2021
Signature Date

KAY MADDOX
Printed Name

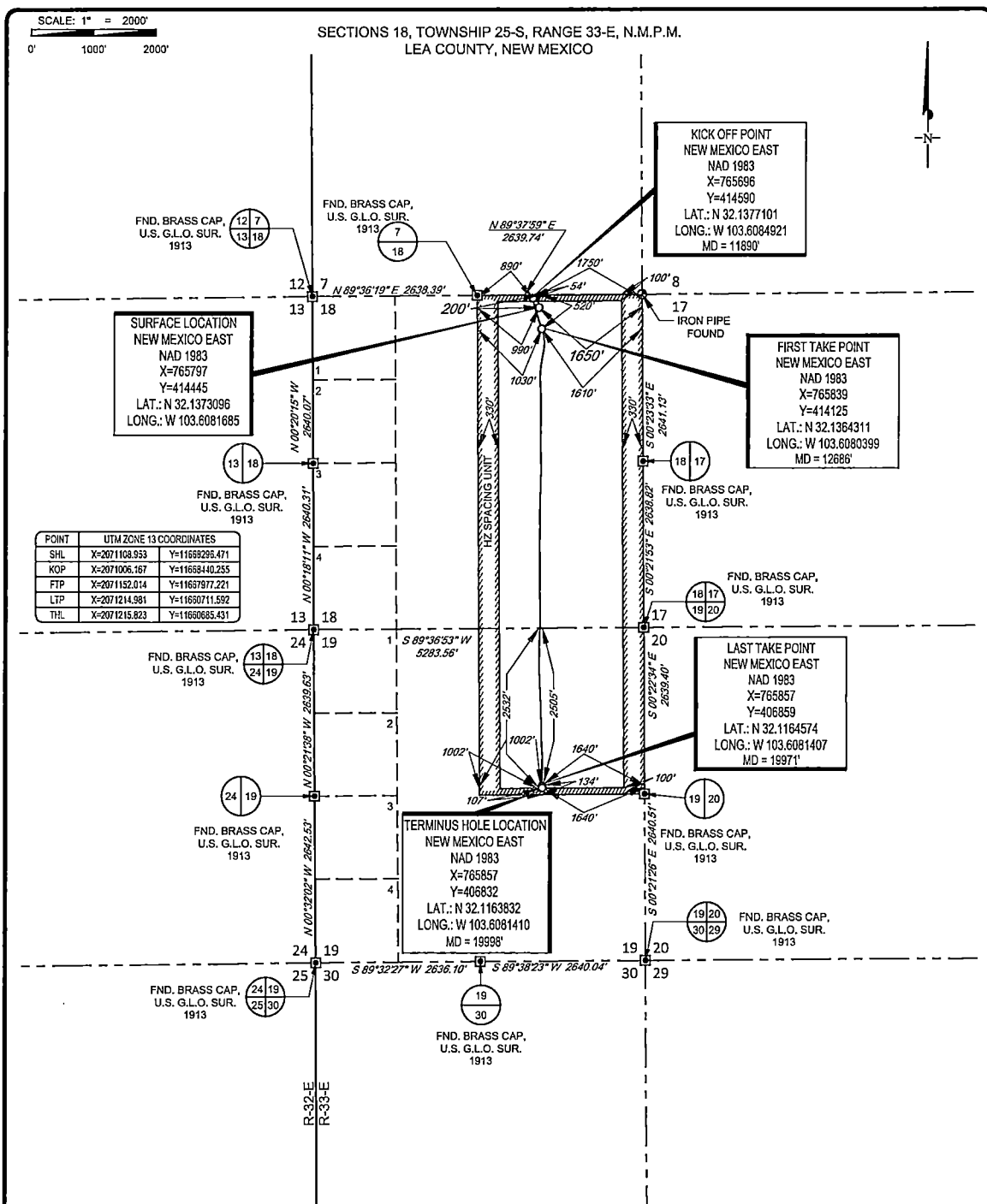
kay_maddox@eogresources.com
E-mail Address

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.

08/01/2018
Date of Survey
Signature and Seal of Professional Surveyor
MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR
Certificate Number

S:\SURVEY\EOG_MIDLAND\ICY_18_FED\FINAL_PRODUCTS\ILO_ICY_18_FED_709H_REV1.DWG 12/21/2018 9:39:16 AM kanthony



LEASE NAME & WELL NO.: ICY 18 FED #709H

SECTION 18 TWP 25-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3487'

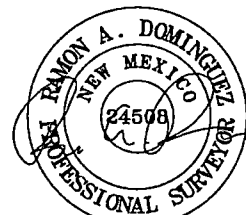
DESCRIPTION 200' FNL & 1650' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGGRAPHIC.COM

eoog resources, inc.



Ramon A. Dominguez, P.S. No. 24508
FEBRUARY 25, 2020

ICy 18 FED #709H AS-COMplete		REVISION:	NOTES:
DATE:	02/27/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
FILE:	AD_ICY_18_FED_709H		2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
DRAWN BY:	JLS		3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.
SHEET:	1 OF 1		4. ADJOINER INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.

S:\SURVEY\EOG_MIDLAND\ICY_18_FED\FINAL_PRODUCTS\AD_ICY_18_FED_709H.DWG 3/17/2020 7:07:31 AM eochas



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Icy 18 Fed

#709H

OH

Design: OH

Midland PVA

08 January, 2020

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3512.0usft
Site:	Icy 18 Fed	MD Reference:	KB = 25 @ 3512.0usft
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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	Icy 18 Fed		
Site Position:		Northing:	414,414.00 usft
From:	Map	Easting:	762,703.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 14.217 N
		Longitude:	103° 37' 5.391 W
		Grid Convergence:	0.38 °

Well		#709H				
Well Position	+N/-S	0.0 usft	Northing:	414,445.00 usft	Latitude:	32° 8' 14.319 N
	+E/-W	0.0 usft	Easting:	765,797.00 usft	Longitude:	103° 36' 29.406 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,487.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/8/2019	6.70	59.94	47,628.01513719

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	179.62	

Survey Program	Date	1/8/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
192.0	19,998.0	Driltech (OH)	EOG MWD+IFR1	MWD + IFR1	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
192.0	1.32	123.45	192.0	-1.2	1.8	0.69	0.69	0.00	-2.2	0.0
306.0	1.76	127.05	305.9	-3.0	4.3	0.39	0.39	3.16	-5.3	0.2
393.0	1.67	124.50	392.9	-4.5	6.4	0.14	-0.10	-2.93	-7.9	-0.1
482.0	0.44	163.61	481.9	-5.6	7.6	1.53	-1.38	43.94	-7.5	5.7
668.0	0.62	255.11	667.9	-6.5	6.8	0.41	0.10	49.19	4.9	8.1
855.0	0.88	234.54	854.9	-7.6	4.7	0.20	0.14	-11.00	-0.6	8.9
949.0	0.79	225.05	948.9	-8.5	3.6	0.18	-0.10	-10.10	-3.4	8.6
1,043.0	0.44	205.18	1,042.8	-9.3	3.0	0.43	-0.37	-21.14	-7.1	6.7
1,112.0	0.62	210.55	1,111.8	-9.8	2.7	0.27	0.26	7.78	-7.1	7.4
1,209.0	1.23	227.95	1,208.8	-11.0	1.7	0.69	0.63	17.94	-6.1	9.3
1,303.0	1.32	237.97	1,302.8	-12.2	0.0	0.26	0.10	10.66	-6.5	10.4
1,396.0	1.41	239.99	1,395.8	-13.4	-1.9	0.11	0.10	2.17	-8.3	10.7
1,490.0	1.41	239.37	1,489.8	-14.5	-3.9	0.02	0.00	-0.66	-10.7	10.6
1,582.0	1.41	235.59	1,581.7	-15.8	-5.8	0.10	0.00	-4.11	-13.7	9.7
1,675.0	1.41	238.85	1,674.7	-17.0	-7.7	0.09	0.00	3.51	-15.4	10.6
1,769.0	1.93	246.32	1,768.7	-18.2	-10.1	0.60	0.55	7.95	-16.6	12.6
1,862.0	1.85	253.35	1,861.6	-19.3	-13.0	0.26	-0.09	7.56	-18.0	14.8
1,955.0	1.85	256.51	1,954.6	-20.1	-15.9	0.11	0.00	3.40	-20.1	15.8
2,049.0	2.20	257.22	2,048.5	-20.8	-19.1	0.37	0.37	0.76	-23.3	16.1
2,143.0	2.37	263.37	2,142.4	-21.5	-22.8	0.32	0.18	6.54	-25.2	18.7
2,236.0	2.46	268.03	2,235.3	-21.7	-26.7	0.23	0.10	5.01	-27.5	20.8
2,330.0	2.46	270.40	2,329.3	-21.8	-30.8	0.11	0.00	2.52	-30.6	22.0
2,424.0	2.46	272.68	2,423.2	-21.7	-34.8	0.10	0.00	2.43	-33.7	23.3
2,518.0	2.29	276.99	2,517.1	-21.4	-38.7	0.26	-0.18	4.59	-35.8	25.9
2,611.0	2.11	278.31	2,610.0	-20.9	-42.2	0.20	-0.19	1.42	-38.7	26.8
2,705.0	2.29	279.89	2,704.0	-20.3	-45.8	0.20	0.19	1.68	-41.6	27.9



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,799.0	2.29	286.57	2,797.9	-19.5	-49.4	0.28	0.00	7.11	-41.8	32.8
2,892.0	2.29	292.02	2,890.8	-18.2	-52.9	0.23	0.00	5.86	-42.2	36.8
2,985.0	2.29	295.80	2,983.7	-16.7	-56.3	0.16	0.00	4.06	-43.4	39.6
3,079.0	2.20	302.04	3,077.7	-15.0	-59.6	0.28	-0.10	6.64	-42.5	44.3
3,172.0	2.02	317.24	3,170.6	-12.8	-62.2	0.63	-0.19	16.34	-32.8	54.4
3,266.0	2.02	326.47	3,264.5	-10.2	-64.2	0.35	0.00	9.82	-26.9	59.2
3,358.0	2.20	332.10	3,356.5	-7.3	-65.9	0.30	0.20	6.12	-24.4	61.7
3,452.0	2.20	331.13	3,450.4	-4.1	-67.7	0.04	0.00	-1.03	-29.0	61.2
3,546.0	2.46	330.43	3,544.3	-0.8	-69.5	0.28	0.28	-0.74	-33.6	60.9
3,639.0	2.29	325.07	3,637.2	2.5	-71.6	0.30	-0.18	-5.76	-43.0	57.3
3,733.0	2.29	329.55	3,731.2	5.6	-73.6	0.19	0.00	4.77	-42.1	60.6
3,826.0	2.11	358.99	3,824.1	8.9	-74.6	1.22	-0.19	31.66	-10.2	74.4
3,920.0	2.37	10.33	3,918.0	12.6	-74.3	0.55	0.28	12.06	0.9	75.3
4,014.0	2.37	8.66	4,012.0	16.4	-73.6	0.07	0.00	-1.78	-5.1	75.2
4,107.0	2.20	13.41	4,104.9	20.1	-72.9	0.27	-0.18	5.11	-2.6	75.6
4,201.0	1.85	26.06	4,198.8	23.2	-71.8	0.60	-0.37	13.46	10.7	74.7
4,294.0	2.29	61.31	4,291.8	25.4	-69.5	1.42	0.47	37.90	48.8	55.7
4,388.0	2.90	81.17	4,385.7	26.7	-65.5	1.15	0.65	21.13	60.6	36.5
4,480.0	2.64	71.77	4,477.6	27.7	-61.2	0.57	-0.28	-10.22	49.5	45.5
4,573.0	3.34	91.63	4,570.4	28.3	-56.5	1.33	0.75	21.35	57.2	26.7
4,666.0	3.96	109.65	4,663.3	27.1	-50.7	1.39	0.67	19.38	56.9	8.5
4,759.0	4.75	78.97	4,756.0	26.8	-43.9	2.61	0.85	-32.99	37.9	34.8
4,852.0	5.54	51.55	4,848.6	30.3	-36.6	2.75	0.85	-29.48	10.0	46.2
4,946.0	6.60	34.68	4,942.1	37.6	-30.0	2.20	1.13	-17.95	-11.0	44.0
5,039.0	6.77	28.61	5,034.5	46.8	-24.4	0.78	0.18	-6.53	-21.0	39.0
5,133.0	6.60	27.47	5,127.8	56.5	-19.2	0.23	-0.18	-1.21	-24.7	34.2
5,226.0	6.68	26.06	5,220.2	66.1	-14.4	0.20	0.09	-1.52	-27.5	29.1



Midland PVA

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Site: Icy 18 Fed
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,319.0	6.95	22.02	5,312.6	76.1	-9.9	0.59	0.29	-4.34	-31.5	23.0
5,412.0	6.60	21.67	5,404.9	86.3	-5.8	0.38	-0.38	-0.38	-33.6	19.1
5,506.0	6.60	19.65	5,498.3	96.4	-2.0	0.25	0.00	-2.15	-35.9	14.4
5,599.0	6.51	16.22	5,590.7	106.5	1.3	0.43	-0.10	-3.69	-37.9	9.1
5,692.0	6.68	14.99	5,683.1	116.8	4.2	0.24	0.18	-1.32	-39.4	5.6
5,786.0	7.03	14.11	5,776.4	127.7	7.0	0.39	0.37	-0.94	-41.2	2.4
5,879.0	6.07	9.19	5,868.8	138.0	9.1	1.19	-1.03	-5.29	-42.3	-3.2
5,972.0	4.57	6.38	5,961.4	146.6	10.3	1.64	-1.61	-3.02	-41.0	-6.7
6,066.0	3.34	16.92	6,055.2	152.9	11.6	1.51	-1.31	11.21	-38.7	-1.3
6,160.0	2.90	19.91	6,149.0	157.8	13.2	0.50	-0.47	3.18	-36.7	-1.8
6,253.0	2.81	13.67	6,241.9	162.2	14.5	0.35	-0.10	-6.71	-36.5	-7.1
6,347.0	1.58	47.60	6,335.8	165.3	16.0	1.85	-1.31	36.10	-36.4	14.6
6,441.0	1.32	64.91	6,429.8	166.6	17.9	0.54	-0.28	18.41	-32.7	25.2
6,534.0	1.32	57.87	6,522.8	167.7	19.8	0.17	0.00	-7.57	-37.7	20.8
6,627.0	1.32	54.01	6,615.8	168.9	21.6	0.10	0.00	-4.15	-41.1	18.2
6,721.0	1.06	42.76	6,709.7	170.1	23.1	0.37	-0.28	-11.97	-45.8	9.6
6,814.0	1.23	32.22	6,802.7	171.6	24.2	0.29	0.18	-11.33	-48.6	0.9
6,908.0	0.88	18.15	6,896.7	173.2	24.9	0.46	-0.37	-14.97	-49.1	-11.2
7,001.0	0.79	6.73	6,989.7	174.5	25.2	0.20	-0.10	-12.28	-47.2	-20.8
7,095.0	0.62	352.49	7,083.7	175.6	25.2	0.26	-0.18	-15.15	-41.8	-32.0
7,188.0	0.53	351.17	7,176.7	176.5	25.1	0.10	-0.10	-1.42	-42.0	-32.9
7,282.0	0.44	330.78	7,270.7	177.3	24.9	0.21	-0.10	-21.69	-28.6	-45.7
7,375.0	0.44	301.42	7,363.7	177.8	24.4	0.24	0.00	-31.57	-3.2	-54.0
7,468.0	0.79	292.11	7,456.7	178.2	23.5	0.39	0.38	-10.01	4.5	-53.9
7,556.3	0.87	305.11	7,544.9	178.8	22.4	0.23	0.10	14.73	-9.0	-53.4
Brushy Top(ICY 18 Fed #709H)										
7,561.0	0.88	305.73	7,549.7	178.9	22.3	0.23	0.12	13.11	-9.6	-53.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,655.0	0.79	298.79	7,643.7	179.6	21.2	0.14	-0.10	-7.38	-4.5	-54.1
7,749.0	0.70	293.43	7,737.6	180.1	20.1	0.12	-0.10	-5.70	-0.6	-54.4
7,842.0	0.70	294.22	7,830.6	180.6	19.0	0.01	0.00	0.85	-2.5	-54.4
7,935.0	0.62	271.28	7,923.6	180.8	18.0	0.29	-0.09	-24.67	17.9	-51.3
8,028.0	0.70	251.33	8,016.6	180.7	17.0	0.26	0.09	-21.45	33.2	-42.3
8,121.0	0.79	245.17	8,109.6	180.2	15.8	0.13	0.10	-6.62	36.4	-38.5
8,215.0	1.14	241.57	8,203.6	179.5	14.4	0.38	0.37	-3.83	37.1	-36.2
8,402.0	1.32	232.34	8,390.6	177.3	11.1	0.14	0.10	-4.94	38.5	-30.1
8,495.0	1.49	229.79	8,483.5	175.9	9.3	0.19	0.18	-2.74	37.5	-28.4
8,589.0	1.58	228.39	8,577.5	174.2	7.4	0.10	0.10	-1.49	35.7	-27.5
8,682.0	1.76	226.01	8,670.5	172.4	5.4	0.21	0.19	-2.56	34.1	-26.0
8,775.0	1.93	224.08	8,763.4	170.3	3.3	0.19	0.18	-2.08	31.9	-24.9
8,869.0	1.93	224.61	8,857.4	168.0	1.1	0.02	0.00	0.56	28.5	-25.2
8,962.0	1.93	224.43	8,950.3	165.8	-1.1	0.01	0.00	-0.19	25.5	-25.1
9,055.0	2.02	228.48	9,043.3	163.6	-3.4	0.18	0.10	4.35	20.4	-26.7
9,149.0	1.76	240.52	9,137.2	161.8	-5.9	0.50	-0.28	12.81	11.3	-30.1
9,243.0	1.93	246.58	9,231.2	160.4	-8.6	0.28	0.18	6.45	5.1	-30.9
9,336.0	1.93	256.16	9,324.1	159.4	-11.6	0.35	0.00	10.30	-3.2	-31.1
9,429.0	2.29	257.92	9,417.0	158.7	-14.9	0.39	0.39	1.89	-7.6	-30.9
9,523.0	2.29	257.66	9,511.0	157.9	-18.6	0.01	0.00	-0.28	-11.2	-31.0
9,616.0	1.85	257.30	9,603.9	157.1	-21.9	0.47	-0.47	-0.39	-14.4	-31.1
9,710.0	1.93	266.27	9,697.8	156.7	-24.9	0.33	0.09	9.54	-22.1	-28.2
9,803.0	2.11	282.44	9,790.8	157.0	-28.2	0.64	0.19	17.39	-32.3	-20.5
9,895.0	2.46	290.35	9,882.7	158.0	-31.7	0.51	0.38	8.60	-38.5	-15.6
9,989.0	2.81	291.23	9,976.6	159.5	-35.7	0.37	0.37	0.94	-43.0	-15.0
10,082.0	2.90	285.08	10,069.5	161.0	-40.1	0.34	0.10	-6.61	-45.8	-19.8
10,175.0	2.90	279.54	10,162.4	162.0	-44.7	0.30	0.00	-5.96	-48.4	-24.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
10,269.0	2.81	271.98	10,256.3	162.5	-49.3	0.41	-0.10	-8.04	-49.4	-30.8	
10,363.0	3.96	257.74	10,350.1	161.9	-54.8	1.51	1.22	-15.15	-45.8	-42.6	
10,458.0	3.43	263.63	10,444.9	160.8	-60.8	0.69	-0.56	6.20	-56.0	-37.3	
10,551.0	2.29	259.06	10,537.8	160.2	-65.4	1.25	-1.23	-4.91	-57.5	-41.9	
10,645.0	1.14	230.06	10,631.7	159.2	-68.0	1.50	-1.22	-30.85	-32.6	-65.4	
10,738.0	1.14	247.11	10,724.7	158.3	-69.6	0.36	0.00	18.33	-52.2	-52.7	
10,832.0	0.88	232.87	10,818.7	157.5	-71.0	0.38	-0.28	-15.15	-39.2	-64.2	
11,019.0	1.14	276.20	11,005.7	156.8	-74.0	0.42	0.14	23.17	-75.5	-18.8	
11,112.0	1.23	244.03	11,098.7	156.5	-75.8	0.71	0.10	-34.59	-55.7	-56.6	
11,206.0	1.14	225.22	11,192.6	155.4	-77.4	0.42	-0.10	-20.01	-36.3	-71.8	
11,299.0	1.67	237.79	11,285.6	154.0	-79.2	0.66	0.57	13.52	-53.3	-62.0	
11,393.0	2.90	244.74	11,379.5	152.2	-82.5	1.34	1.31	7.39	-64.2	-54.9	
11,487.0	2.81	256.86	11,473.4	150.7	-86.9	0.65	-0.10	12.89	-78.9	-39.7	
11,579.0	2.64	255.72	11,565.3	149.7	-91.1	0.19	-0.18	-1.24	-82.5	-41.3	
11,673.0	2.02	243.86	11,659.2	148.4	-94.7	0.83	-0.66	-12.62	-76.0	-57.8	
11,812.0	1.93	258.62	11,798.2	146.9	-99.2	0.37	-0.06	10.62	-92.9	-35.9	
11,890.0	2.51	201.78	11,876.1	145.0	-101.1	2.79	0.75	-72.87	-23.2	-98.6	
KOP, MD:11890.0', TVD:11876.1',N/S:145.0', E/W:-101.1', INC:2.51											
11,905.0	2.81	195.43	11,891.1	144.4	-101.4	2.79	1.98	-42.34	-12.8	-100.6	
11,999.0	16.00	163.52	11,983.7	129.6	-98.3	14.57	14.03	-33.95	32.6	-91.9	
12,085.4	26.38	160.83	12,064.1	100.0	-88.6	12.06	12.01	-3.11	23.8	-84.5	
FTP Crossing, MD:12085.4', TVD:12064.1',N/S:100.0', E/W:-88.6', INC:26.38											
12,092.0	27.17	160.71	12,070.0	97.2	-87.6	12.06	12.03	-1.89	23.0	-83.8	
12,185.0	29.90	167.83	12,151.7	54.5	-75.7	4.69	2.94	7.66	8.3	-74.9	
12,278.0	37.37	166.42	12,229.1	4.3	-64.2	8.08	8.03	-1.52	13.2	-62.6	
12,345.0	41.57	165.03	12,280.8	-36.9	-53.6	6.40	6.26	-2.07	20.7	-50.7	
FTP(ICY 18 Fed #709H)											



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,372.0	43.26	164.54	12,300.7	-54.5	-48.9	6.40	6.28	-1.83	24.5	-45.3
12,431.0	52.76	162.43	12,340.2	-96.5	-36.3	16.32	16.10	-3.58	31.7	-31.6
12,465.0	55.13	161.81	12,360.2	-122.6	-27.9	7.12	6.97	-1.82	35.1	-23.1
12,559.0	67.97	159.62	12,404.9	-200.4	-0.6	13.81	13.66	-2.33	44.0	2.8
12,588.0	78.26	158.39	12,413.3	-226.3	9.4	35.71	35.48	-4.24	44.8	11.6
12,658.0	92.86	161.73	12,418.7	-291.7	33.1	21.39	20.86	4.77	39.8	31.2
12,751.0	91.98	162.52	12,414.8	-380.2	61.6	1.27	-0.95	0.85	34.5	58.3
12,844.0	89.43	167.44	12,413.6	-469.9	85.7	5.96	-2.74	5.29	32.3	82.5
12,937.0	87.41	183.08	12,416.2	-562.3	93.3	16.95	-2.17	16.82	34.8	89.7
13,031.0	96.81	190.82	12,412.7	-655.4	82.0	12.94	10.00	8.23	30.0	78.3
13,124.0	97.25	190.99	12,401.4	-746.0	64.6	0.51	0.47	0.18	18.9	60.2
13,218.0	96.29	189.32	12,390.3	-837.9	48.1	2.04	-1.02	-1.78	8.4	42.9
13,311.0	94.97	187.74	12,381.2	-929.4	34.4	2.21	-1.42	-1.70	-0.2	28.4
13,404.0	92.77	183.70	12,374.9	-1,021.7	25.1	4.94	-2.37	-4.34	-6.1	18.5
13,497.0	88.99	178.34	12,373.4	-1,114.6	23.5	7.05	-4.06	-5.76	-7.3	16.3
13,590.0	89.78	177.20	12,374.4	-1,207.6	27.1	1.49	0.85	-1.23	-6.1	19.3
13,684.0	90.48	178.34	12,374.2	-1,301.5	30.8	1.42	0.74	1.21	-6.2	22.3
13,778.0	88.46	178.87	12,375.1	-1,395.4	33.0	2.22	-2.15	0.56	-5.2	24.0
13,871.0	87.32	179.13	12,378.5	-1,488.4	34.7	1.26	-1.23	0.28	-1.6	25.0
13,964.0	86.88	178.60	12,383.2	-1,581.2	36.5	0.74	-0.47	-0.57	3.2	26.2
14,058.0	88.11	179.74	12,387.3	-1,675.1	37.9	1.78	1.31	1.21	7.5	27.0
14,152.0	89.78	181.77	12,389.1	-1,769.1	36.6	2.80	1.78	2.16	9.4	25.1
14,245.0	88.46	181.15	12,390.5	-1,862.1	34.3	1.57	-1.42	-0.67	11.0	22.1
14,338.0	91.28	180.89	12,390.7	-1,955.0	32.6	3.05	3.03	-0.28	11.3	19.9
14,432.0	91.89	180.54	12,388.1	-2,049.0	31.4	0.75	0.65	-0.37	8.9	18.1
14,524.0	91.19	180.01	12,385.6	-2,140.9	31.0	0.95	-0.76	-0.58	6.6	17.0
14,616.0	91.54	179.39	12,383.4	-2,232.9	31.5	0.77	0.38	-0.67	4.5	16.9



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,710.0	90.66	177.46	12,381.6	-2,326.9	34.1	2.26	-0.94	-2.05	2.9	18.9
14,803.0	89.08	177.55	12,381.9	-2,419.8	38.1	1.70	-1.70	0.10	3.2	22.3
14,897.0	92.68	180.01	12,380.4	-2,513.7	40.1	4.64	3.83	2.62	1.9	23.7
14,992.0	93.91	180.45	12,374.9	-2,608.6	39.7	1.37	1.29	0.46	-3.4	22.7
15,086.0	91.80	182.73	12,370.3	-2,702.4	37.1	3.30	-2.24	2.43	-7.9	19.4
15,175.2	90.53	182.99	12,368.4	-2,791.4	32.7	1.45	-1.42	0.29	-9.6	14.4
TGT#1(ICY 18 Fed #709H)										
15,179.0	90.48	183.00	12,368.4	-2,795.3	32.5	1.45	-1.42	0.29	-9.6	14.2
15,273.0	88.72	182.03	12,369.1	-2,889.2	28.3	2.14	-1.87	-1.03	-8.5	9.5
15,366.0	88.64	181.41	12,371.2	-2,982.1	25.6	0.67	-0.09	-0.67	-6.0	6.0
15,460.0	88.55	181.06	12,373.5	-3,076.0	23.5	0.38	-0.10	-0.37	-3.3	3.4
15,553.0	88.72	180.18	12,375.7	-3,169.0	22.5	0.96	0.18	-0.95	-0.6	1.8
15,647.0	89.16	180.10	12,377.5	-3,263.0	22.3	0.48	0.47	-0.09	1.5	0.9
15,741.0	90.75	180.10	12,377.5	-3,357.0	22.1	1.69	1.69	0.00	2.0	0.2
15,835.0	88.64	180.45	12,378.0	-3,451.0	21.7	2.28	-2.24	0.37	2.9	-0.9
15,928.0	89.34	180.89	12,379.7	-3,544.0	20.6	0.89	0.75	0.47	4.9	-2.6
16,022.0	87.76	181.24	12,382.1	-3,637.9	18.8	1.72	-1.68	0.37	7.7	-5.0
16,115.0	86.88	180.10	12,386.4	-3,730.8	17.8	1.55	-0.95	-1.23	12.4	-6.7
16,209.0	90.04	179.57	12,388.9	-3,824.8	18.0	3.41	3.36	-0.56	15.4	-7.0
16,302.0	92.33	179.48	12,387.0	-3,917.7	18.8	2.46	2.46	-0.10	13.9	-6.9
16,396.0	91.71	178.69	12,383.7	-4,011.6	20.3	1.07	-0.66	-0.84	10.9	-6.0
16,488.0	92.15	179.39	12,380.6	-4,103.6	21.8	0.90	0.48	0.76	8.2	-5.1
16,581.0	89.96	180.01	12,378.9	-4,196.6	22.3	2.45	-2.35	0.67	6.9	-5.2
16,675.0	91.80	181.24	12,377.4	-4,290.5	21.3	2.35	1.96	1.31	5.9	-6.8
16,769.0	87.76	179.92	12,377.8	-4,384.5	20.3	4.52	-4.30	-1.40	6.7	-8.4
16,862.0	85.74	178.60	12,383.1	-4,477.3	21.5	2.59	-2.17	-1.42	12.3	-7.8
16,956.0	85.38	178.16	12,390.4	-4,571.0	24.2	0.60	-0.38	-0.47	20.0	-5.8



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,049.0	90.84	179.66	12,393.4	-4,663.9	26.0	6.09	5.87	1.61	23.5	-4.6
17,143.0	88.72	179.30	12,393.8	-4,757.9	26.8	2.29	-2.26	-0.38	24.2	-4.4
17,237.0	89.25	179.57	12,395.4	-4,851.9	27.7	0.63	0.56	0.29	26.3	-4.1
17,330.0	90.84	180.10	12,395.4	-4,944.9	28.0	1.80	1.71	0.57	26.6	-4.4
17,424.0	93.03	181.85	12,392.2	-5,038.8	26.4	2.98	2.33	1.86	23.9	-6.6
17,500.8	92.53	182.73	12,388.5	-5,115.5	23.3	1.32	-0.66	1.15	20.5	-10.2
TGT#2(ICY 18 Fed #709H)										
17,517.0	92.42	182.92	12,387.8	-5,131.6	22.5	1.32	-0.66	1.15	19.9	-11.1
17,610.0	91.98	183.80	12,384.2	-5,224.4	17.1	1.06	-0.47	0.95	16.8	-17.1
17,714.0	90.13	181.34	12,382.3	-5,328.3	12.4	2.96	-1.78	-2.37	15.3	-22.5
17,796.0	90.13	179.93	12,382.1	-5,410.3	11.5	1.72	0.00	-1.72	15.5	-24.0
17,890.0	91.19	179.84	12,381.0	-5,504.2	11.7	1.13	1.13	-0.10	14.9	-24.4
17,983.0	89.69	179.93	12,380.3	-5,597.2	11.9	1.62	-1.61	0.10	14.6	-24.8
18,075.0	91.63	180.37	12,379.3	-5,689.2	11.7	2.16	2.11	0.48	14.0	-25.7
18,169.0	89.16	177.47	12,378.6	-5,783.2	13.4	4.05	-2.63	-3.09	13.8	-24.5
18,263.0	88.29	176.50	12,380.7	-5,877.0	18.4	1.39	-0.93	-1.03	16.4	-20.2
18,356.0	90.04	177.82	12,382.1	-5,969.9	23.0	2.36	1.88	1.42	18.2	-16.2
18,463.0	90.75	178.35	12,381.3	-6,076.8	26.6	0.83	0.66	0.50	17.9	-13.3
18,557.0	88.37	178.26	12,382.0	-6,170.8	29.3	2.53	-2.53	-0.10	19.1	-11.2
18,651.0	88.46	177.73	12,384.6	-6,264.7	32.6	0.57	0.10	-0.56	22.2	-8.5
18,744.0	88.11	177.38	12,387.4	-6,357.6	36.6	0.53	-0.38	-0.38	25.4	-5.2
18,838.0	89.78	177.56	12,389.2	-6,451.5	40.7	1.79	1.78	0.19	27.6	-1.6
18,932.0	90.57	178.52	12,388.9	-6,545.4	44.0	1.32	0.84	1.02	27.7	1.0
19,025.0	91.71	178.26	12,387.0	-6,638.3	46.6	1.26	1.23	-0.28	26.3	3.0
19,120.0	92.42	178.61	12,383.6	-6,733.2	49.2	0.83	0.75	0.37	23.4	4.9
19,214.0	92.15	178.79	12,379.8	-6,827.2	51.3	0.35	-0.29	0.19	20.1	6.5
19,307.0	91.36	178.08	12,377.0	-6,920.1	53.8	1.14	-0.85	-0.76	17.7	8.4

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Icy 18 Fed
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3512.0usft
MD Reference: KB = 25 @ 3512.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,400.0	89.78	176.77	12,376.1	-7,013.0	58.0	2.21	-1.70	-1.41	17.2	11.9
19,494.0	89.34	178.00	12,376.8	-7,106.9	62.3	1.39	-0.47	1.31	18.4	15.6
19,587.0	91.19	183.09	12,376.4	-7,199.8	61.4	5.82	1.99	5.47	18.4	14.1
19,680.0	89.96	180.37	12,375.4	-7,292.8	58.6	3.21	-1.32	-2.92	17.9	10.7
19,773.0	91.28	179.58	12,374.4	-7,385.8	58.6	1.65	1.42	-0.85	17.3	10.1
19,866.0	90.04	179.75	12,373.3	-7,478.7	59.2	1.35	-1.33	0.18	16.7	10.1
Last MWD Survey (MD=19866.0')										
19,997.2	90.04	179.75	12,373.3	-7,610.0	59.8	0.00	0.00	0.00	17.3	9.8
PBHL(ICY 18 Fed #709H)										
19,998.0	90.04	179.75	12,373.3	-7,610.7	59.8	0.00	0.00	0.00	17.3	9.8
Projection to Bit (MD=19998.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,890.0	11,876.1	145.0	-101.1	KOP, MD:11890.0', TVD:11876.1', N/S:145.0', E/W:-101.1', INC:2.51
12,085.4	12,064.1	100.0	-88.6	FTP Crossing, MD:12085.4', TVD:12064.1', N/S:100.0', E/W:-88.6', INC:26.38
19,866.0	12,373.3	-7,478.7	59.2	Last MWD Survey (MD=19866.0')
19,998.0	12,373.3	-7,610.7	59.8	Projection to Bit (MD=19998.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 02/09/2021



Lea County, NM (NAD 83 NME)

Icy 18 Fed #709H

Plan #1

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

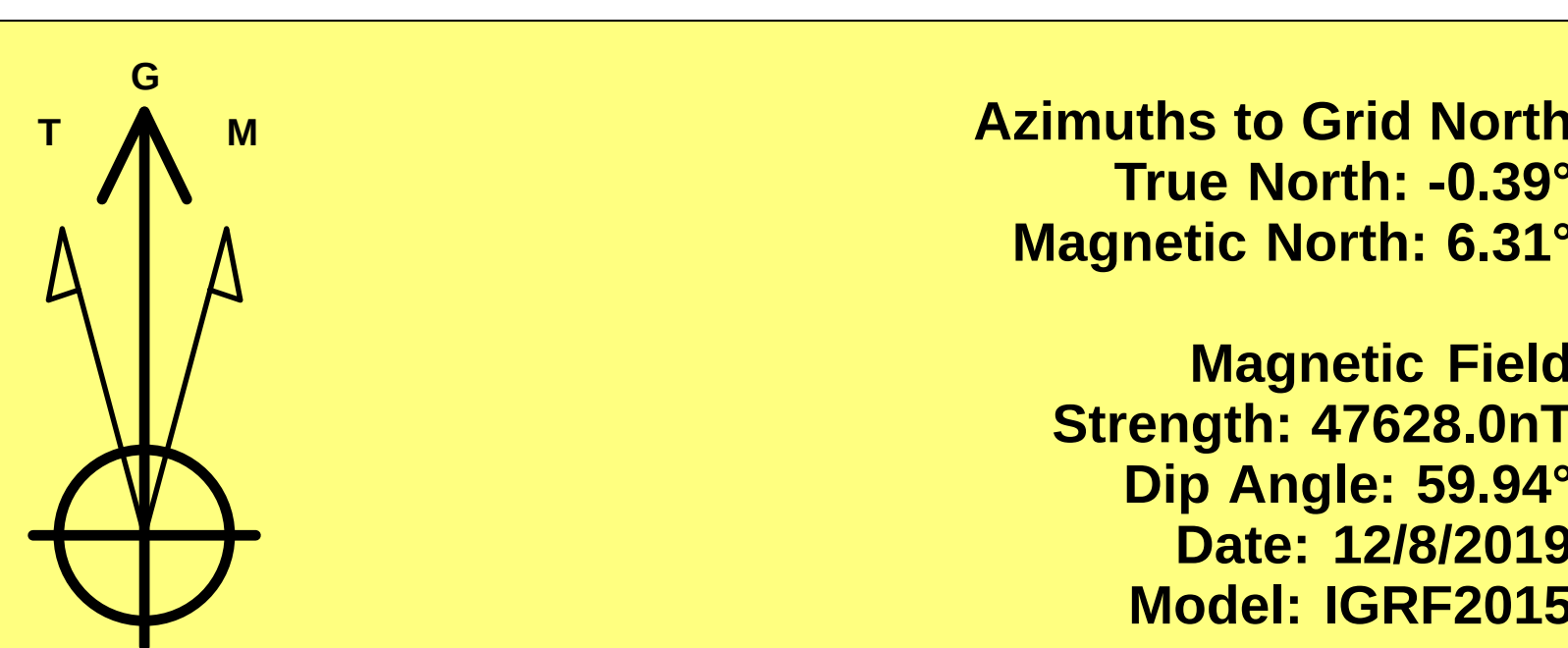
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #709H

KB = 25 @ 3512.0usft
Northing 414445.00 Easting 765797.00 Latitude 32° 8' 14.319 N Longitude 103° 36' 29.406 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	4800.0	0.00	0.00	4800.0	0.0	0.0	0.00	0.00	0.0	
3	5100.1	6.00	359.56	5099.5	15.7	-0.1	2.00	359.56	-15.7	
4	6043.2	6.00	359.56	6037.5	114.3	-0.9	0.00	0.00	-114.3	
5	6343.3	0.00	0.00	6337.0	130.0	-1.0	2.00	180.00	-130.0	
6	11910.8	0.00	0.00	11904.5	130.0	-1.0	0.00	0.00	-130.0	
7	12661.5	90.09	179.62	12382.0	-348.2	2.2	12.00	179.62	348.2	
8	15104.3	90.09	179.62	12378.0	-2790.9	18.2	0.00	0.00	2791.0	TGT#1(ICY 18 Fed #709H)
9	15112.0	90.25	179.62	12378.0	-2798.6	18.3	2.00	0.00	2798.6	
10	17428.3	90.25	179.62	12368.0	-5114.9	33.6	0.00	0.00	5115.0	TGT#2(ICY 18 Fed #709H)
11	17429.8	90.28	179.62	12368.0	-5116.3	33.6	2.00	0.00	5116.4	
12	19923.5	90.28	179.62	12356.0	-7610.0	50.0	0.00	0.00	7610.2	PBHL(ICY 18 Fed #709H)



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.31°

Magnetic Field
Strength: 47628.0nT
Dip Angle: 59.94°
Date: 12/8/2019
Model: IGRF2015

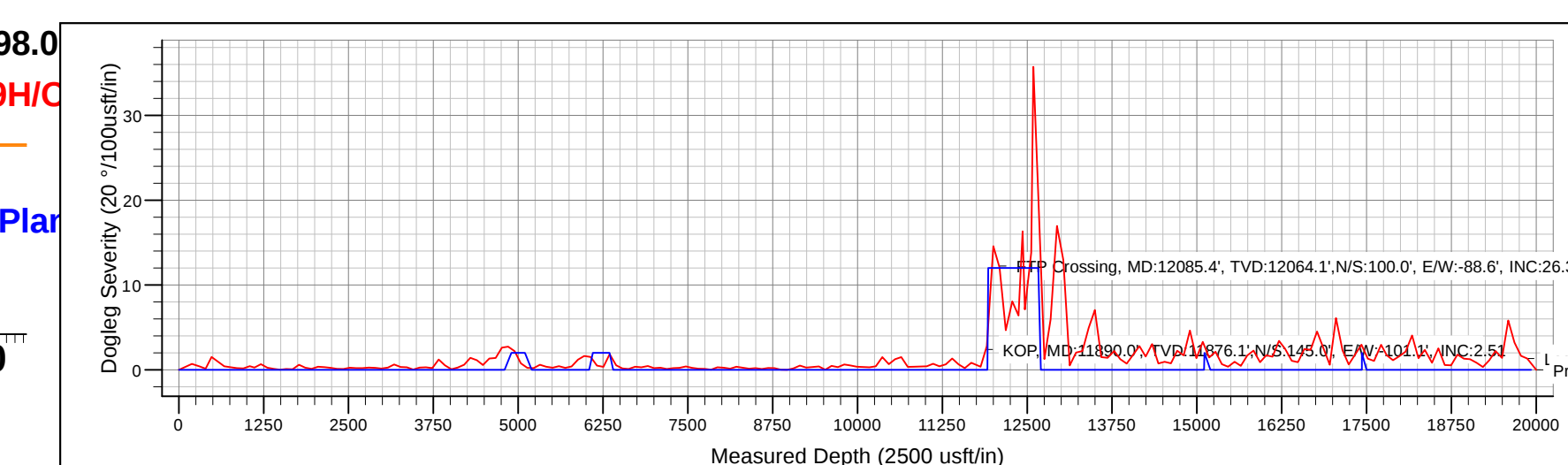
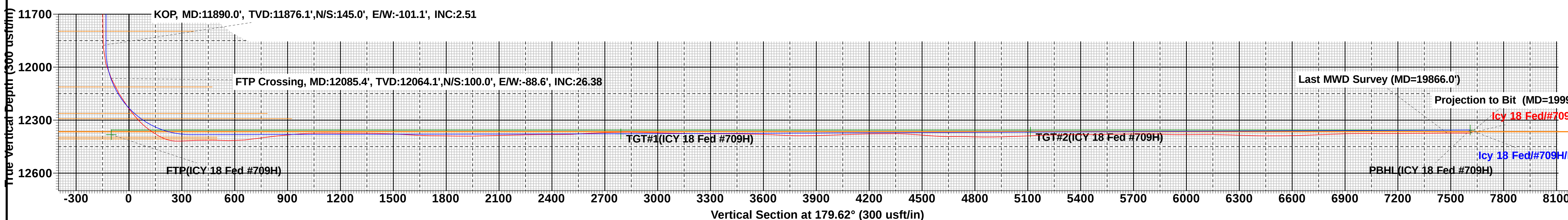
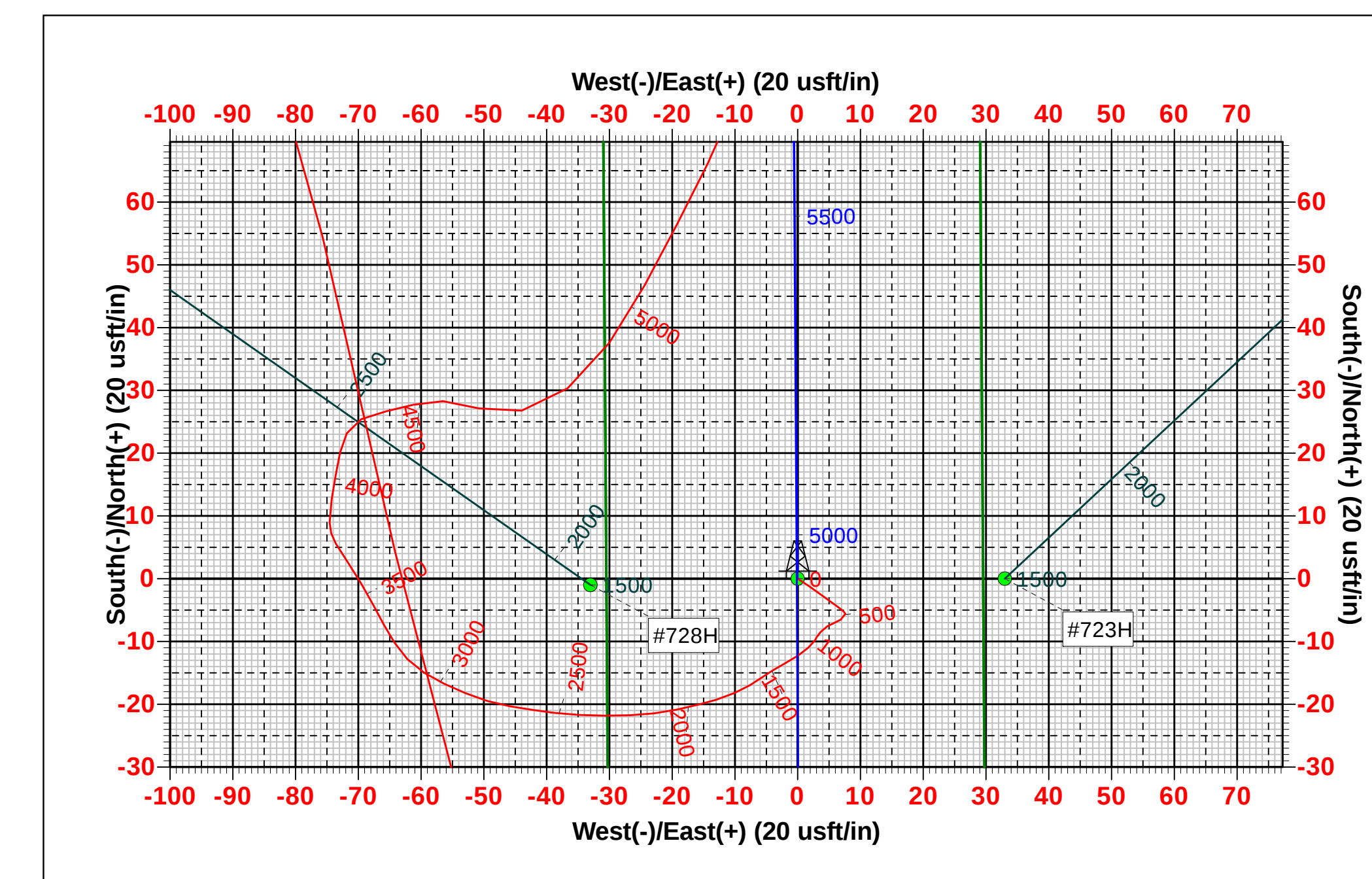
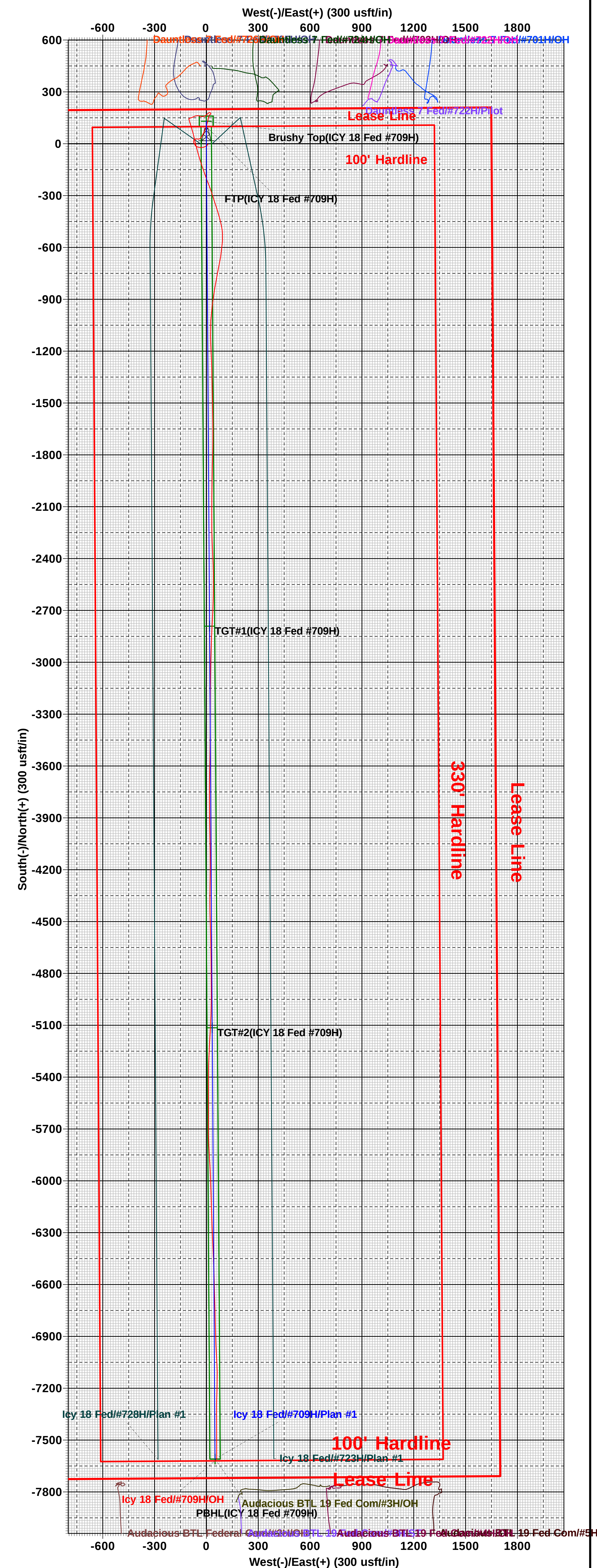
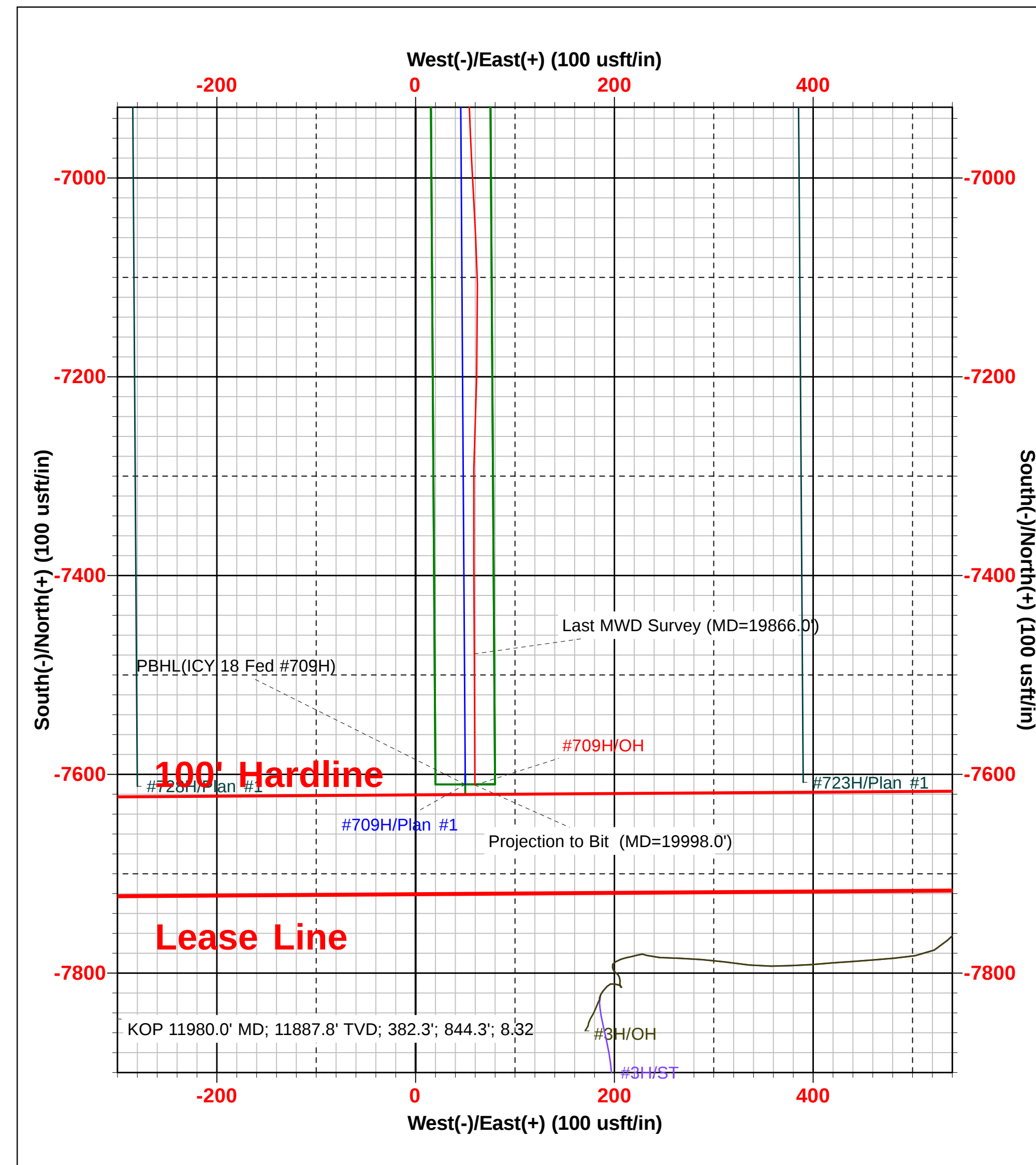
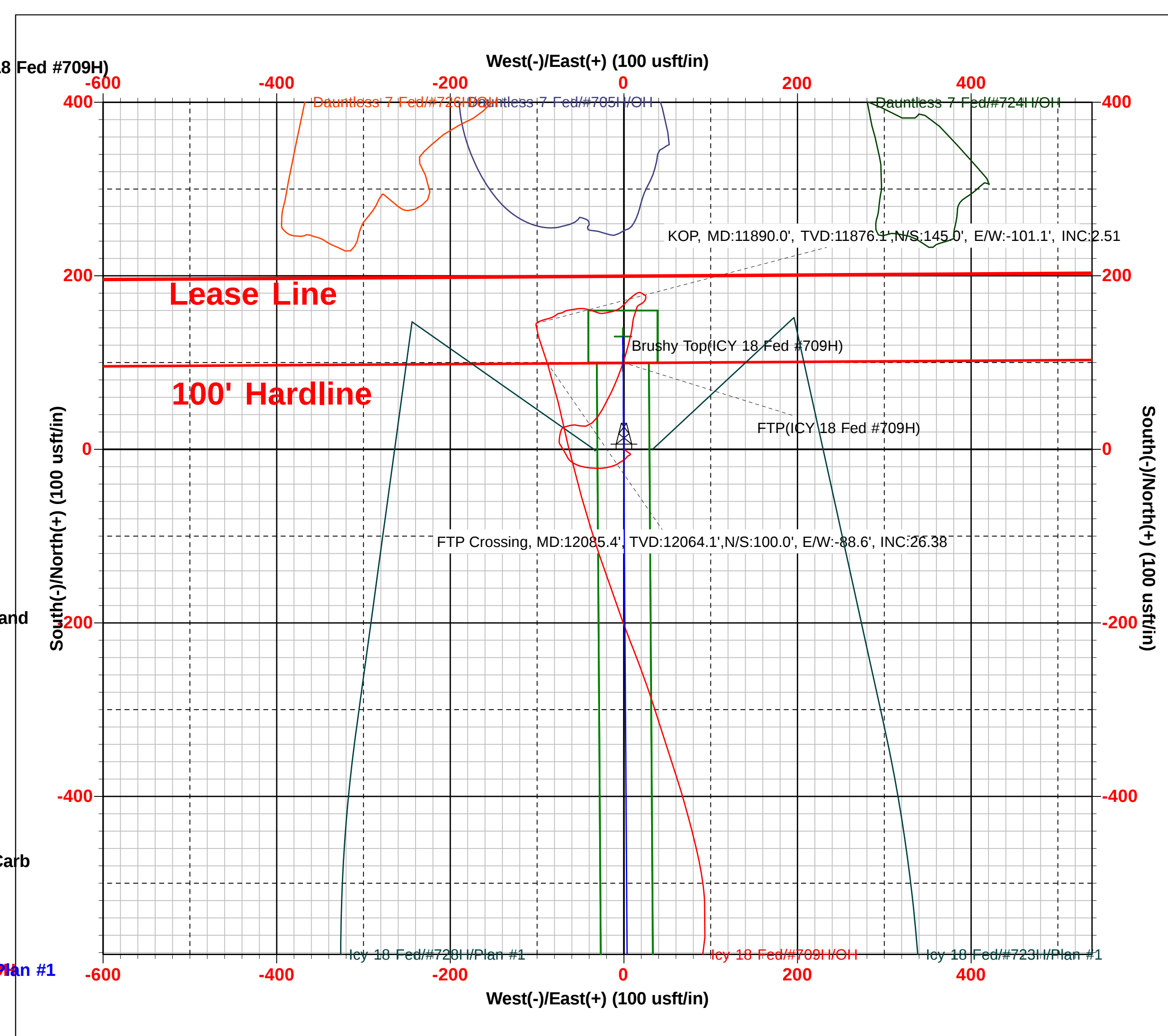
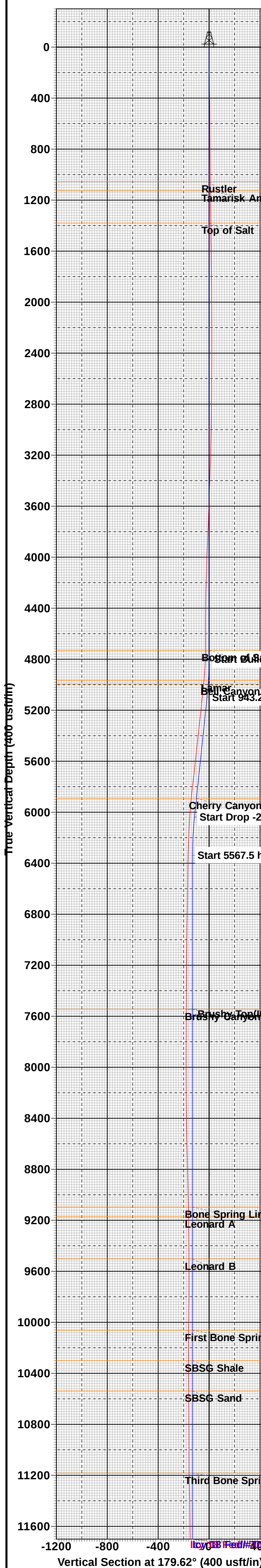
To convert a Magnetic Direction to a Grid Direction, Add 6.31°
To convert a Magnetic Direction to a True Direction, Add 6.70° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(ICY 18 Fed #709H)	7545.0	130.0	-1.0	414575.00	765796.00
PBHL(ICY 18 Fed #709H)	12356.0	-7610.0	50.0	406835.00	765847.00
TGT#2(ICY 18 Fed #709H)	12368.0	-5114.9	33.6	409330.10	765830.56
TGT#1(ICY 18 Fed #709H)	12378.0	-2790.9	18.2	411654.10	765815.25
FTP(ICY 18 Fed #709H)	12382.0	100.0	-1.0	414545.00	765796.00



Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Well Name: ICY 18 FED	Well Location: T25S / R33E / SEC 18 / NWNE / 32.1373096 / -103.6081685	County or Parish/State: LEA / NM
Well Number: 709H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM110838	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002546511	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Subsequent Report

Type of Submission: Subsequent Report

Type of Action: Hydraulic Fracturing

Date Sundry Submitted: 02/24/2021

Time Sundry Submitted: 08:31

Date Operation Actually Began: 01/18/2021

Actual Procedure: The Date of First production for this well is 01/18/2021 12/31/2019 RIG RELEASED 01/17/2020 MIRU TEST VOID TO 5000 PSI, SEALS AND FLANGES TO 8500 PSI 02/04/2020 BEGIN PERF AND FRAC 02/18/2020 FINISH 27 STAGES PERF & FRAC, 12,686 – 19,971' W/ 3 1/8" 1614 SHOTS, FRAC W/ 19,226,150 LBS PROPPANT + 304,388 BBLs LOAD FLUID 02/21/2020 DRILLED OUT PLUGS AND CLEAN OUT WELLBORE 01/18/2021 OPENED WELL TO FLOWBACK – DATE OF FIRST PRODUCTION

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: MADDOX

Signed on: FEB 24, 2021 08:30 AM

Name: EOG RESOURCES INCORPORATED

Title: Regulatory Specialist

Street Address: 1111 BAGBY SKY LOBBY2

City: HOUSTON **State:** TX

Phone: (713) 651-7000

Email address:

Field Representative

Representative Name: KAY MADDOX

Street Address:

City: **State:** **Zip:**

Phone: (432)638-8475

Email address: KAY_MADDOX@EOGRESOURCES.COM

Well Name: IGY 18 PED

Well Location: T25S / R33E / SEC 18 /
NWNE / 32.1373096 / -103.6081685

County or Parish/State: LEA /
NM

Well Number: 709H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM110838

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002546511

Well Status: Approved Application for
Permit to Drill

Operator: EOG RESOURCES
INCORPORATED

BLM Point of Contact

BLM POC Name: Jonathon W Shepard

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345972

BLM POC Email Address: jshepard@blm.gov

Disposition: Accepted

Disposition Date: 02/24/2021

Signature: Jonathon Shepard

CONFIDENTIAL

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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-105 Revised August 1, 2011					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name ICY 18 FEDERAL		
								6. Well Number: 709H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator EOG RESOURCES INC							9. OGRID 7377			
10. Address of Operator PO BOX 2267 MIDLAND, TEXAS 79702							11. Pool name or Wildcat WC025 G09 S253309P; UPPER WOLFCAMP			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	B	18	25S	33E		200	NORTH	1650	EAST	LEA
BH:	G	19	25S	33E		2532'	NORTH	1640	EAST	LEA
13. Date Spudded 11/27/2019	14. Date T.D. Reached 12/30/2019		15. Date Rig Released 12/31/2019			16. Date Completed (Ready to Produce) 01/18/2021		17. Elevations (DF and RKB, RT, GR, etc.) 3487' GR		
18. Total Measured Depth of Well MD 19,998' TVD 12,373'			19. Plug Back Measured Depth MD 19,971' TVD 12,373'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name WOLFCAMP 12,686 - 19,971'										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
9 5/8"		40# J-55		1,170'		12 1/4"		485 CL C/CIRC		
7 5/8"		29.7# ECP 110		11,736'		8 3/4"		1580 CL C & H/46'		
5 1/2"		20# HCP 110		19,983'		6 3/4"		790 CL H TOC12,180'		CBL
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
12,686- 19,971' 3 1/8", 1614 holes						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						12,686 - 19,971'		FRAC W/19,226,150 lbs proppant, 304,388 bbls load fld		
28. PRODUCTION										
Date First Production 1/18/2021		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Flowing				Well Status (<i>Prod. or Shut-in</i>) Producing				
Date of Test 01/28/2021	Hours Tested 24	Choke Size 104	Prod'n For Test Period	Oil - Bbl 3269	Gas - MCF 7332	Water - Bbl. 6265	Gas - Oil Ratio 2243			
Flow Tubing Press.	Casing Pressure 815	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>) 48				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) SOLD								30. Test Witnessed By		
31. List Attachments C-102, C-104, C-103, Directional Survey, H spacing, Gas capture										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD 1927 1983										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Signature Kay Maddox Name Kay Maddox Title Senior Regulatory Specialist Date 02/22/2021 E-mail Address kay_maddox@eogresources.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico			Northwestern New Mexico				
T. Anhy	Rustler	1055'	T. Canyon	Brushy	7,545'	T. Ojo Alamo	T. Penn A "
T. Salt		1380'	T. Strawn			T. Kirtland	T. Penn. "B"
B. Salt		4731'	T. Atoka			T. Fruitland	T. Penn. "C"
T. Yates			T. Miss			T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers			T. Devonian			T. Cliff House	T. Leadville
T. Queen			T. Silurian			T. Menefee	T. Madison
T. Grayburg			T. Montoya			T. Point Lookout	T. Elbert
T. San Andres			T. Simpson			T. Mancos	T. McCracken
T. Glorieta			T. McKee			T. Gallup	T. Ignacio Otzte
T. Paddock			T. Ellenburger			Base Greenhorn	T. Granite
T. Blinebry			T. Gr. Wash			T. Dakota	
T. Tubb			T. Delaware Sand			T. Morrison	
T. Drinkard			T. Bone Springs			T. Todilto	
T. Abo			T. 1st BS Sand	10,063'		T. Entrada	
T. Wolfcamp		12,262'	T. 2nd BS Sand	10,538'		T. Wingate	
T. Penn			T. 3rd BS Sand	11,797'		T. Chinle	
T. Cisco (Bough C)			T.			T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 02/11/2021

☐ Original Operator & OGRID No.: EOG Resources Inc 7377
☒ Amended - Reason for Amendment: NEWLY COMPLETED WELL

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
ICY 18 FEDERAL #709H	30-025-46511	18-25S-33E	200' FNL & 1650' FEL	7132	190 mcf total flared	New Well

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ENTERPRISE and will be connected to EOG Resources Inc low/high pressure gathering system located in LEA County, New Mexico. It will require N/A' of pipeline to connect the facility to low/high pressure gathering system. EOG Resources Inc provides (periodically) to ENTERPRISE a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, EOG Resources Inc and ENTERPRISE have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ENTERPRISE Processing Plant located in LEA County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on ENTERPRISE system at that time. Based on current information, it is EOG Resources Inc belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 18844

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	18844	Action Type:	C-104C
OCD Reviewer									Condition
plmartinez									None