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	[2]Pool Code	[3]Pool Name
30-025-49689	98180	WC-025 G-09 S253309P; Upper Wolfcamp

[4]Property Code	[5]Property Name	[6]Well Number
322428	FEARLESS 23 FED COM	725H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3429'

[10]Surface Location

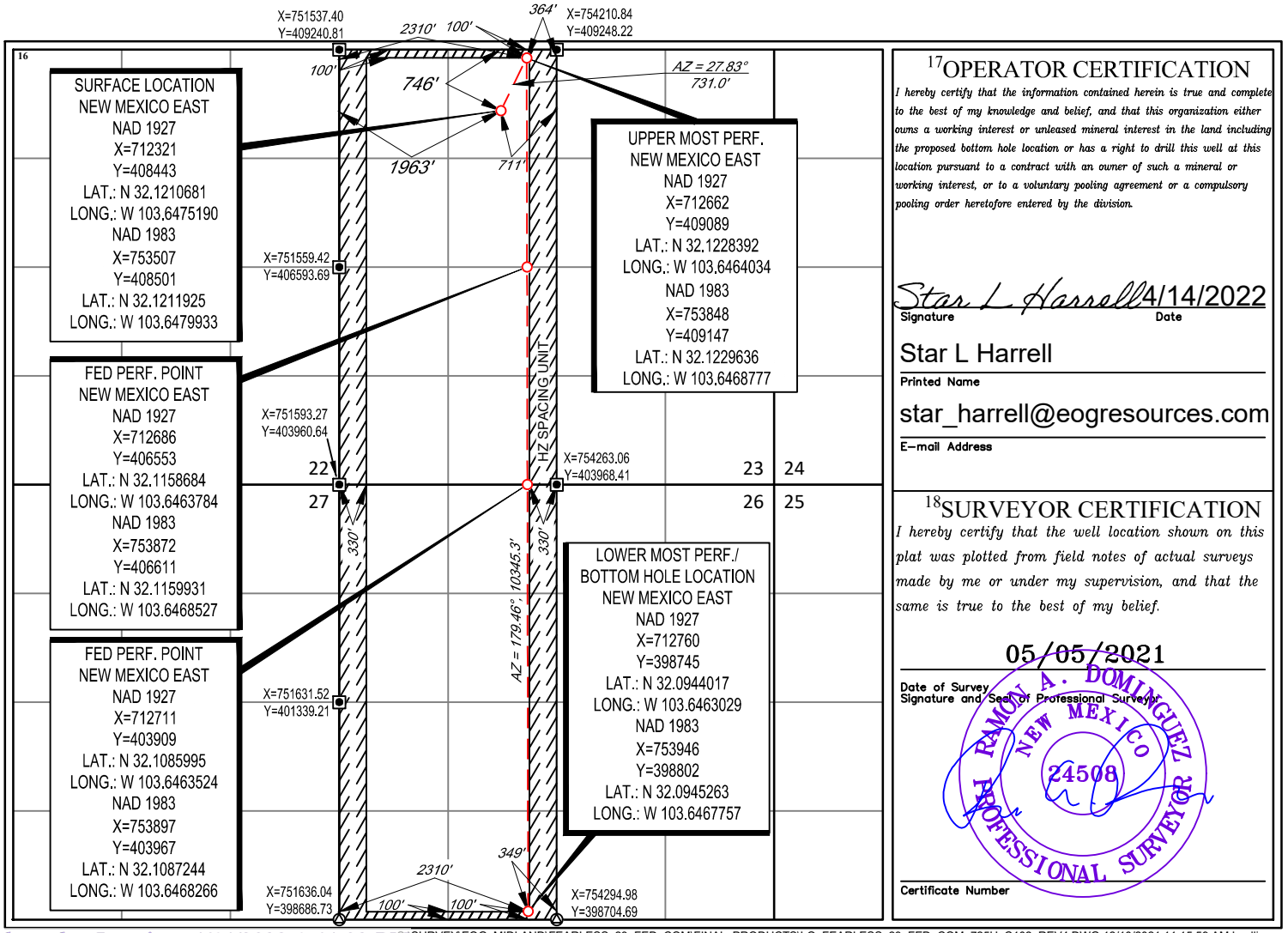
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	23	25-S	32-E	-	746'	NORTH	1963'	WEST	LEA

[11]Bottom 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
N	26	25-S	32-E	-	100'	SOUTH	2310'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640.00			

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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.

Star L Harrell 4/14/2022
Signature Date

Star L Harrell
Printed Name

star_harrell@eogresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

05/05/2021
Date of Survey
Signature and Seal of Professional Surveyor:

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

Certificate Number

eog resources

Fearless 23 Fed Com 725H

Revised Permit Information 04/12/2022:

Well Name: Fearless 23 Fed Com 725H

Location: SHL: 745' FNL & 1963' FWL, Section 23, T-25-S, R-32-E, Lea Co., N.M.
BHL: 100' FSL & 2310' FWL, Section 26, T-25-S, R-32-E, Lea Co., N.M.

Casing Design A

Hole Size	Interval MD From (ft)	Interval MD To (ft)	Interval TVD From (ft)	Interval TVD To (ft)	Csg OD	Weight	Grade	Conn
12-1/4"	0	890	0	890	9-5/8"	36#	J-55	LTC
8-3/4"	0	10,970	0	10,920	7-5/8"	29.7#	HCP-110	FXL
6-3/4"	0	10,470	0	10,420	5-1/2"	20#	P110-EC	DWC/C IS MS
6-3/4"	10,470	10,970	10,420	10,920	5-1/2"	20#	P110-EC	Vam Sprint SF
6-3/4"	10,970	22,298	10,920	12,178	5-1/2"	20#	P110-EC	DWC/C IS MS

Variance is requested to waive the centralizer requirements for the 7-5/8" 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 waive any centralizer requirements for the 5-1/2" 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.

EOG requests permission to allow deviation from the 0.422'' annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422'' between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422'' is acceptable for the production open hole section.

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
890' 9-5/8"	260	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	80	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate (TOC @ 690')
10,970' 7-5/8"	470	14.2	1.11	1st Stage (Tail): Class C + 0.6% Halad-9 + 0.45% HR-601 + 3% Microbond (TOC @ 6,993')
	1190	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
22,298' 5-1/2"	1010	14.2	1.31	Lead: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond (TOC @ 10,470')

eog resources

Fearless 23 Fed Com 725H

Additive	Purpose
Bentonite Gel	Lightweight/Lost circulation prevention
Calcium Chloride	Accelerator
Cello-flake	Lost circulation prevention
Sodium Metasilicate	Accelerator
MagOx	Expansive agent
Pre-Mag-M	Expansive agent
Sodium Chloride	Accelerator
FL-62	Fluid loss control
Halad-344	Fluid loss control
Halad-9	Fluid loss control
HR-601	Retarder
Microbond	Expansive Agent

EOG requests variance from minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (7,193') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If necessary, a top out consisting of 195 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. Top will be verified by Echo-meter.

EOG will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 890'	Fresh - Gel	8.6-8.8	28-34	N/c
890' – 10,970'	Brine	10.0-10.2	28-34	N/c
10,970’ – 11,638'	Oil Base	8.7-9.4	58-68	N/c - 6
11,638’ – 22,298’	Oil Base	10.0-14.0	58-68	4 - 6

eog resources

Fearless 23 Fed Com 725H

Wellhead:

EOG Resources Inc. (EOG) respectfully requests a variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.i) to allow a testing schedule of the blow out preventer (BOP) and blow out prevention equipment (BOPE) to include the following:

- Full BOPE test at first installation on the pad.
- Full BOPE test every 30 days per Onshore Order No. 2.
- Function test BOP elements per Onshore Order No. 2.
- Break testing BOP and BOPE coupled with batch drilling operations and production sections that do not penetrate the Wolfcamp or deeper formations.
- After the well section is cemented the BOP will be disconnected from the wellhead and walked with the rig to another well on the pad. The cemented well will be secured with a blind flange and a pressure gauge for monitoring.

eog resources

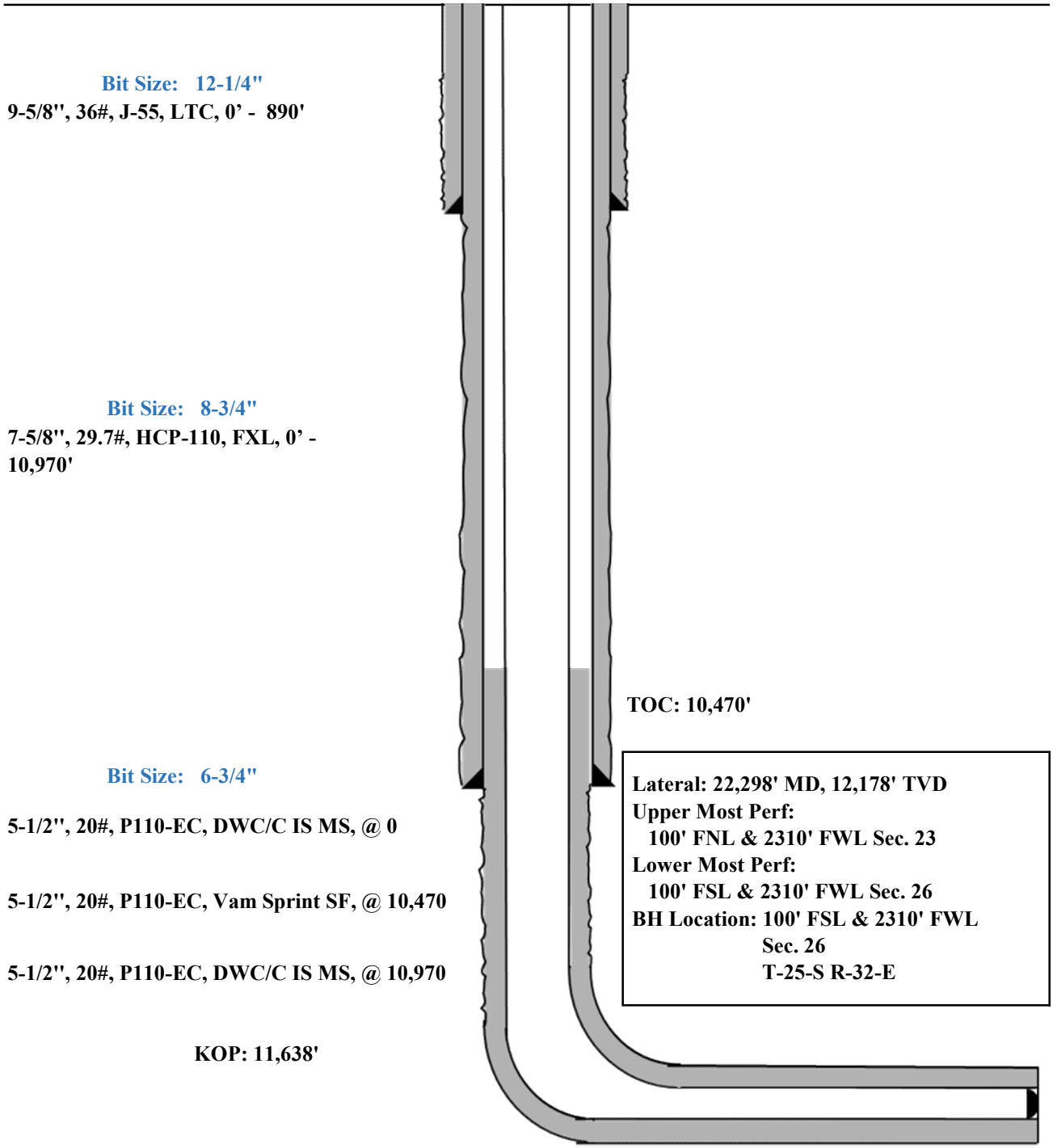
Fearless 23 Fed Com 725H

745' FNL
1963' FWL
Section 23
T-25-S, R-32-E

Revised Wellbore

API: 30-025-49689

KB: 3454'
GL: 3429'



Lea County, NM (NAD 83 NME)

Fearless 23 Fed Com #725H

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: #725H

3429.0

KB = 26' @ 3455.0usft

Northing	Easting	Latitude	Longitude
408501.00	753507.00	32° 7' 16.297 N	103° 38' 52.776 W

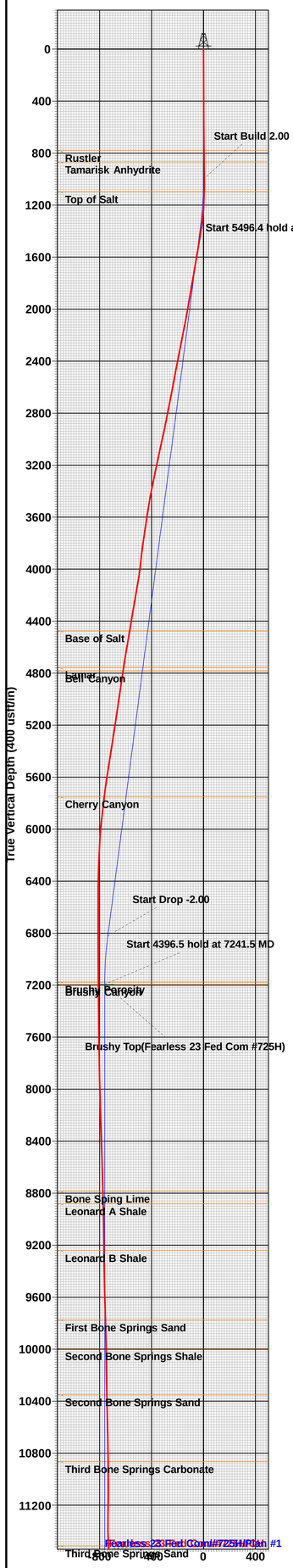
Azimuths to Grid North
True North: -0.36°
Magnetic North: 6.13°

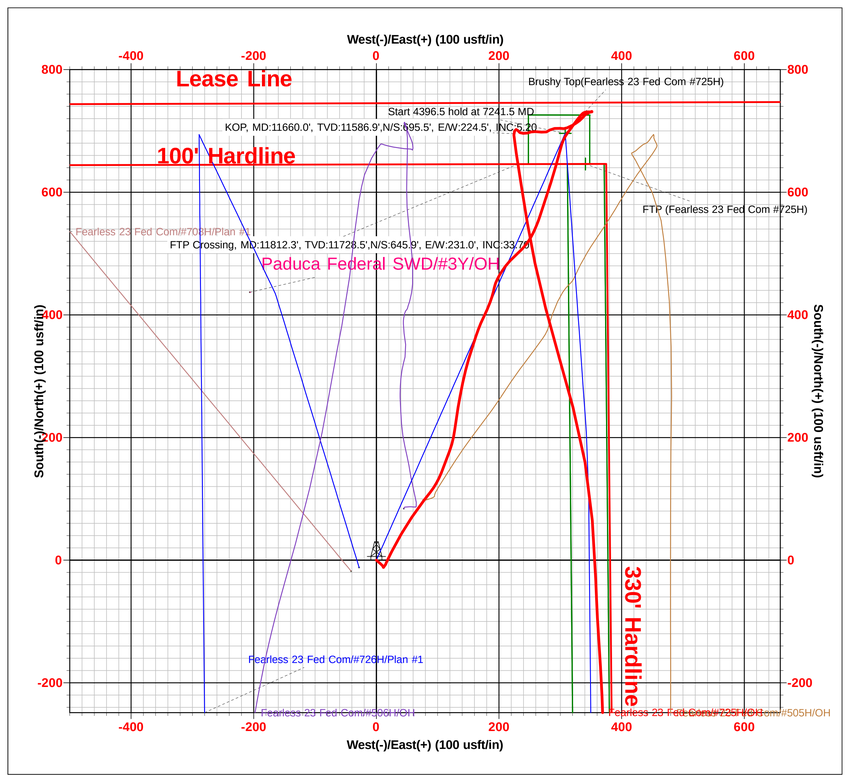
Magnetic Field
Strength: 47355.5nT
Dip Angle: 59.77°
Date: 2/15/2022
Model: IGRF2020

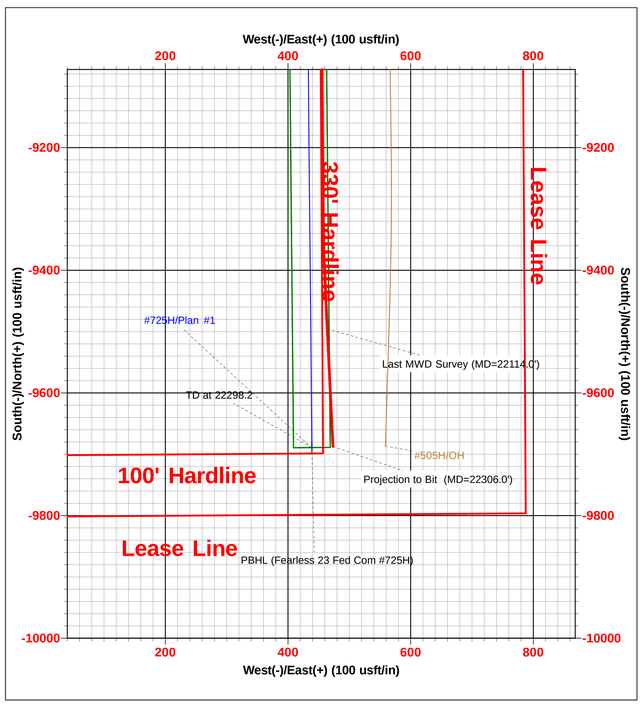
To convert a Magnetic Direction to a Grid Direction, Add 6.13°
To convert a Magnetic Direction to a True Direction, Add 6.49° East
To convert a True Direction to a Grid Direction, Subtract 0.36°

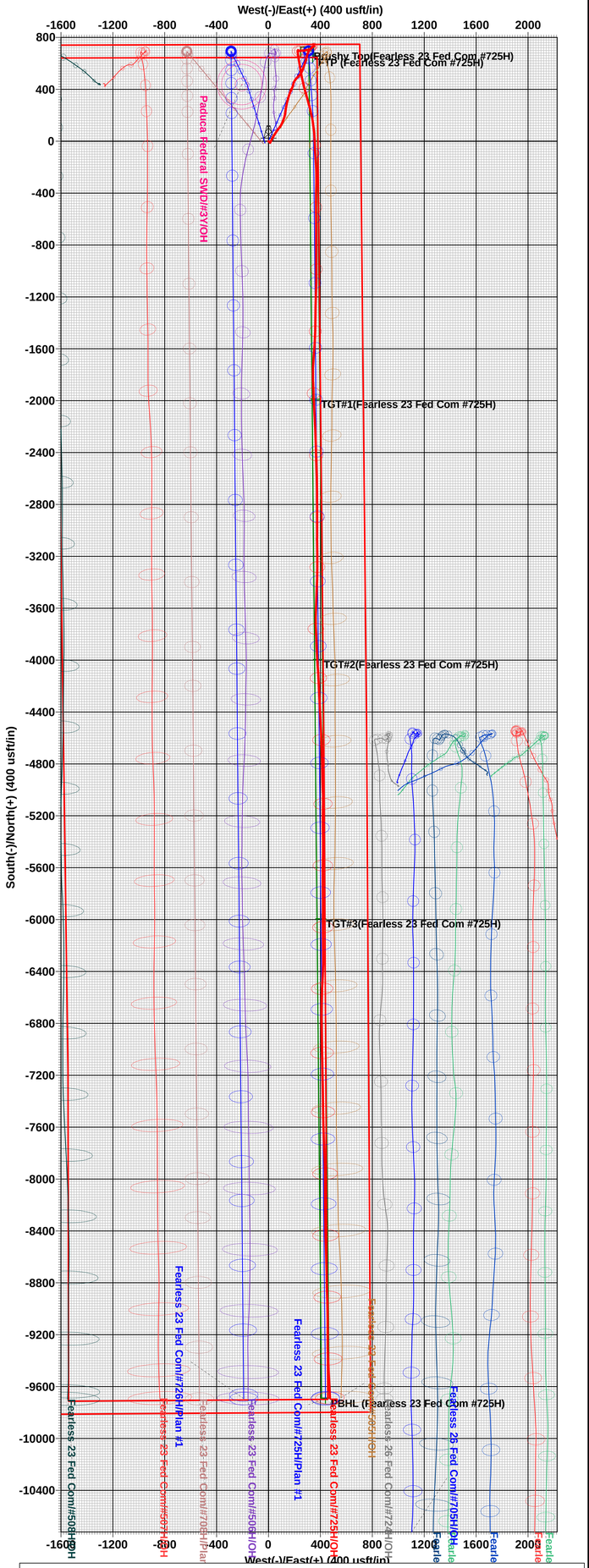
SECTION DETAILS

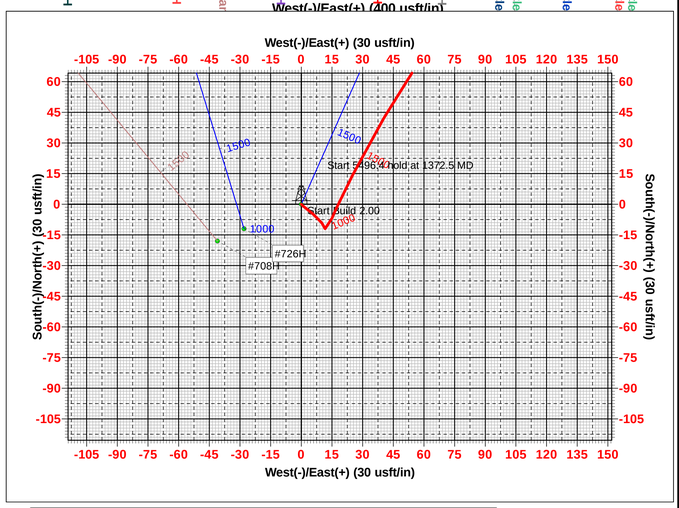
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0		
3	1372.5	7.45	23.87	1371.5	22.1	9.8	2.00	23.87	-21.7		
4	6869.0	7.45	23.87	6821.5	673.9	298.2	0.00	0.00	-659.7		
5	7241.5	0.00	0.00	7193.0	696.0	308.0	2.00	180.00	-681.3	Brushy Top(Fearless 23 Fed Com #725H)	
6	11638.0	0.00	0.00	11589.5	696.0	308.0	0.00	0.00	-681.3		
7	12387.3	89.92	175.95	12067.0	220.4	341.7	12.00	175.95	-204.7		
8	12504.4	89.92	179.46	12067.1	103.4	346.4	3.00	89.98	-87.7		
9	14596.7	89.92	179.46	12070.0	-1988.8	366.0	0.00	0.00	2003.3	TGT#1(Fearless 23 Fed Com #725H)	
10	14611.4	89.63	179.46	12070.1	-2003.5	366.1	2.00	-179.05	2018.0		
11	16602.9	89.63	179.46	12083.0	-3994.8	385.0	0.00	0.00	4008.1	TGT#2(Fearless 23 Fed Com #725H)	
12	16618.7	89.31	179.46	12083.1	-4010.6	385.1	2.00	179.81	4024.0		
13	18602.3	89.31	179.46	12107.0	-5994.0	403.9	0.00	0.00	6006.1	TGT#3(Fearless 23 Fed Com #725H)	
14	18622.9	88.90	179.46	12107.3	-6014.6	404.1	2.00	-179.64	6026.8		
15	22298.2	88.90	179.46	12178.0	-9689.0	439.0	0.00	0.00	9698.9	PBHL (Fearless 23 Fed Com #725H)	

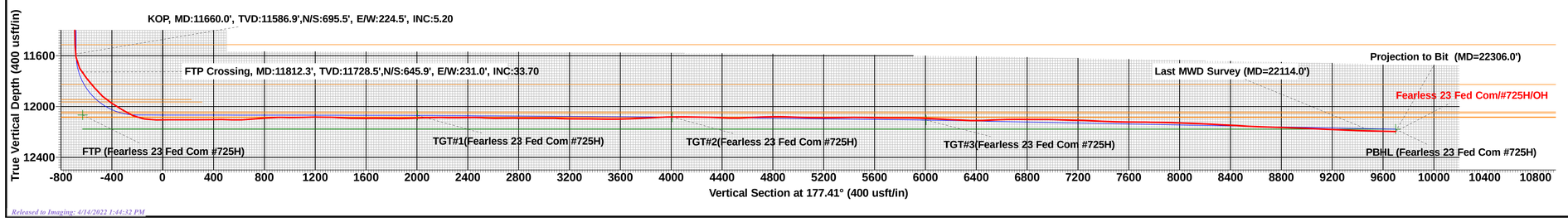


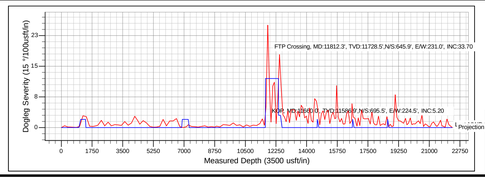












Lea County, NM (NAD 83 NME)
Fearless 23 Fed Com
#725H
OH
Plan #1
13:29, February 03 2022

Jordan Kessler

To: Powell, Brandon, EMNRD
Cc: justin.wrinkle@state.nm.us; Patrick Padilla
Subject: Explanation for submission of C-102/drilling location update

EOG is submitting the attached C-102 to show the updated location of the subject well. The federal sundry showing the well's updated location will be filed with the BLM following drilling, pursuant to the BLM's request that the as-drilled and final location may be submitted via sundry so long as the location is within the quarter quarter section and orthodox. The purpose of BLM's guidance and policy is to consolidate sundry filings into a single, as-drilled approval.

Thanks,
Jordan

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

CONDITIONS

Action 98599

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 98599
	Action Type: [C-102] Well Location & Acreage Plat (C-102)

CONDITIONS

Created By	Condition	Condition Date
pkautz	previous COA's still apply	4/14/2022