

Submit a 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

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-48648
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 331158
7. Lease Name or Unit Agreement Name Sherpa 12 State Com
8. Well Number 711H
9. OGRID Number 7377
10. Pool name or Wildcat 98220 Purple Sage; Wolfcamp (Gas)

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator EOG Resources, Inc.	
3. Address of Operator P.O. Box 2267, Midland, Texas 79702	
4. Well Location Unit Letter <u>A</u> : <u>631</u> feet from the <u>North</u> line and <u>1285</u> feet from the East line Section <u>12</u> <u>25S</u> Township <u>27E</u> Range <u>NMNM</u> Lea <u>Lea</u> County <u>County</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3076' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☒ PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐ DOWNHOLE COMMINGLE ☐ CLOSED-LOOP SYSTEM ☐ OTHER: ☐		SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ P AND A ☐ CASING/CEMENT JOB ☐ OTHER: ☐	
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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 respectfully requests an amendment to our approved APD for this well to reflect the following changes:

Update casing and cement program to current design.

Spud Date: Rig Release Date:

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

SIGNATURE Star L Harrell TITLE Sr Regulatory Specialist DATE 12/16/2021

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

For State Use Only

APPROVED BY: John Garcia TITLE Petroleum Engineer DATE 12/16/2021

Conditions of Approval (if any):

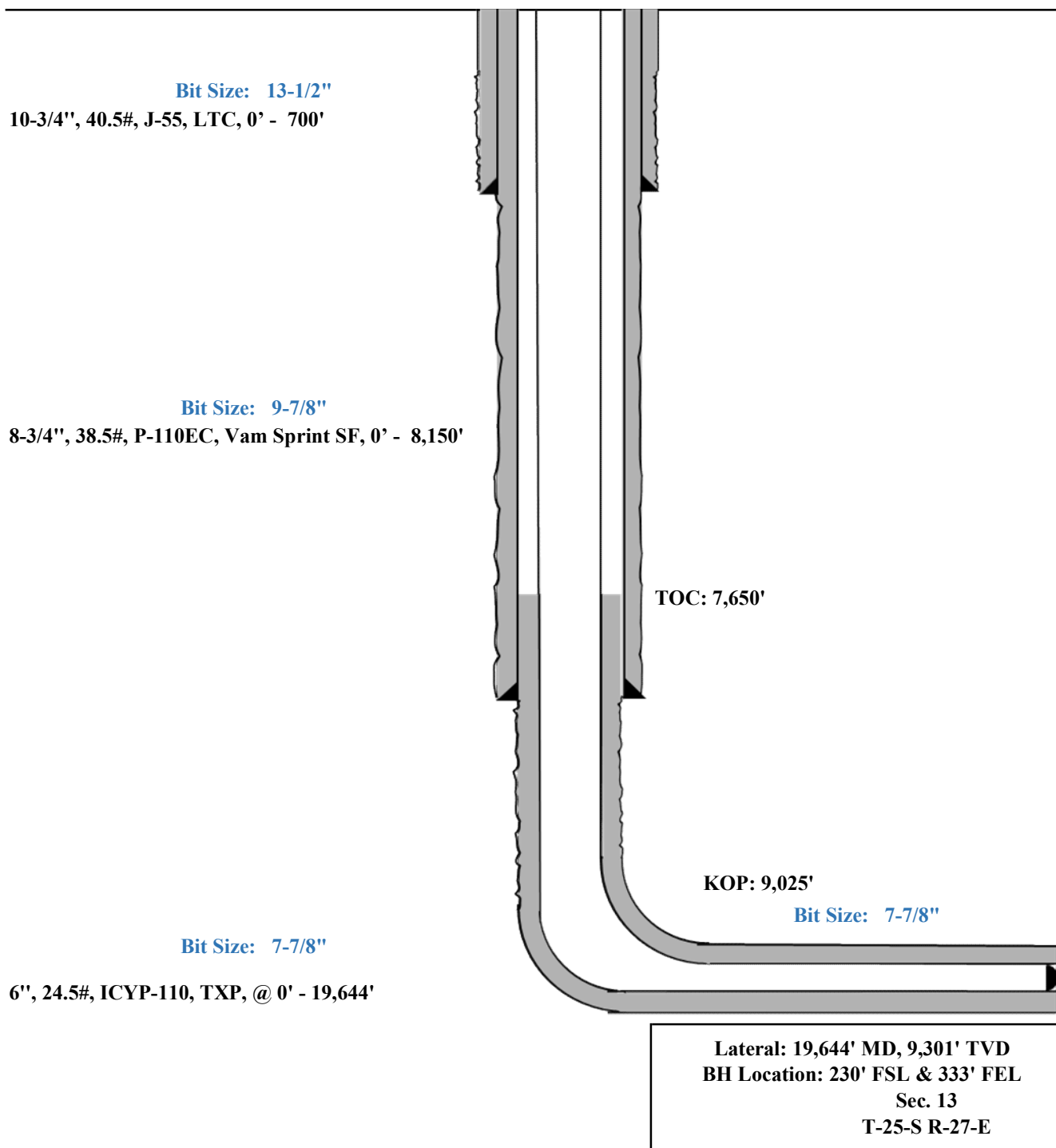


Sherpa 12 State Com #711H
Eddy County, New Mexico
Revised Wellbore
Design A

631' FNL
1284' FEL
Section 12
T-25-S, R-27-E

KB: 3101'
GL: 3076'

API: 30-015-48648



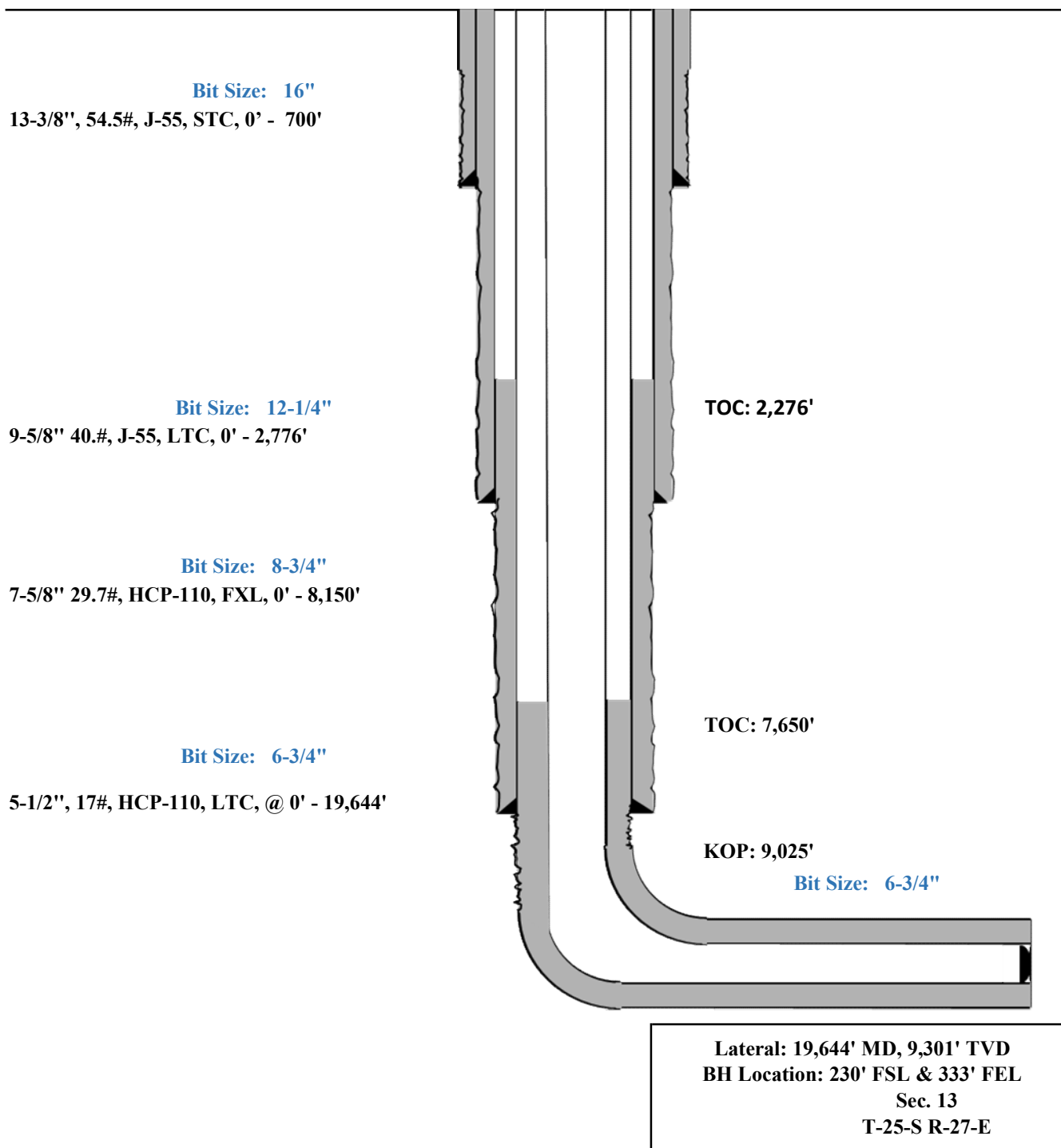


Sherpa 12 State Com #711H
Eddy County, New Mexico
Revised Wellbore
Design B

631' FNL
1284' FEL
Section 12
T-25-S, R-27-E

KB: 3101'
GL: 3076'

API: 30-015-48648





Sherpa 12 State Com #711H

Permit Information:

Well Name: Sherpa 12 State Com #711H

Location:

SHL: 631' FNL & 1284' FEL, Section 12, T-25-S, R-27-E, Eddy Co., N.M.

BHL: 230' FSL & 333' FEL, Section 13, T-25-S, R-27-E, Eddy Co., N.M.

Design A

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	Dfmin Tension
13.5"	0' - 700'	10.75"	40.5#	J-55	LTC	1.125	1.25	1.6
9.875"	0' - 8,150'	8.75"	38.5#	P-110EC	Vam Sprint SF	1.125	1.25	1.6
7.875"	0' - 19,644'	6"	24.5#	ICYP-110	TXP	1.125	1.25	1.6

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
700'	220	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	90	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
8,150'	530	14.2	1.11	1st Stage (Tail): Class C + 5% Salt (TOC @ 4,208')
	1000	14.8	1.5	2nd Stage (Bradenhead squeeze): Class C + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (TOC @ surface)
19,644'	1710	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 7,650')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 700'	Fresh - Gel	8.6-8.8	28-34	N/c
700' – 8,150'	Brine	10.0-10.2	28-34	N/c
8,150' – 9,025'	Oil Base	8.7-9.4	58-68	N/c - 6
9,025' – 19,644' Lateral	Oil Base	10.0-14.0	58-68	4 - 6



Sherpa 12 State Com #711H

Design B**CASING PROGRAM**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DFmin Collapse	DFmin Burst	DFmin Tension
16"	0' - 700'	13.375"	54.5#	J-55	STC	1.125	1.25	1.6
12.25"	0' - 2,776'	9.625"	40#	J-55	LTC	1.125	1.25	1.6
8.75"	0' - 8,150'	7.625"	29.7#	HCP-110	FXL	1.125	1.25	1.6
6.75"	0' - 19,644'	5.5"	17#	HCP-110	FXL	1.125	1.25	1.6

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
700'	210	13.5	1.73	Lead: Class C + 4.0% Bentonite Gel + 2.0% CaCl ₂ (TOC @ Surface)
	100	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
2,776'	410	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)
	180	10.8	1.32	Tail: Class C + 0.13% C-20
8,150'	170	14.8	3.67	Lead: Class H + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 2,280')
	100	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800 (TOC @ 6,649')
19,644'	1020	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 7,649')

As a contingency, EOG requests 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 (4,408') 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 1,000 sacks of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (1.5 yld, 14.8 ppg) will be executed.

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 700'	Fresh - Gel	8.6-8.8	28-34	N/c
700' – 2,776'	Brine	10.0-10.2	28-34	N/c
2,776' – 8,150'	Oil Base	8.7-9.4	58-68	N/c - 6
8,150' – 19,644' Lateral	Oil Base	10.0-14.0	58-68	4 - 6

**Sherpa 12 State Com #711H****Hydrogen Sulfide Plan Summary**

A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

■ Well control equipment

- a. Flare line 150' from wellhead to be ignited by flare gun.
- b. Choke manifold with a remotely operated choke.
- c. Mud/gas separator

■ Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escape packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

■ H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

■ Visual warning systems.

- a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
- b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
- c. Two wind socks will be placed in strategic locations, visible from all angles.



Sherpa 12 State Com #711H

■ Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.

■ Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

■ Communication:

Communication will be via cell phones and land lines where available.



Sherpa 12 State Com #711H
Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office	(432) 686-3600
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Company Drilling Consultants:

David Dominique	Cell	(985) 518-5839
Mike Vann	Cell	(817) 980-5507

Drilling Engineer

Esteban Del Valle	Cell	(432) 269-7063
Daniel Moose	Cell	(432) 312-2803

Drilling Manager

Aj Dach	Office	(432) 686-3751
	Cell	(817) 480-1167

Drilling Superintendent

Jason Townsend	Office	(432) 848-9209
	Cell	(210) 776-5131

H&P Drilling

H&P Drilling	Office	(432) 563-5757
H&P 651 Drilling Rig	Rig	(903) 509-7131

Tool Pusher:

Johnathan Craig	Cell	(817) 760-6374
Brad Garrett		

Safety:

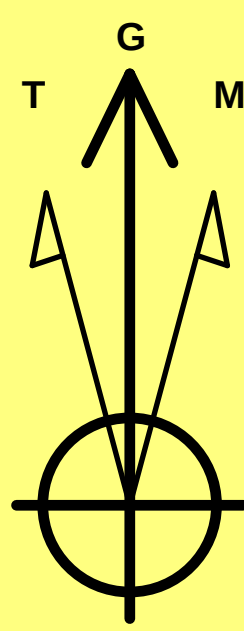
Brian Chandler (HSE Manager)	Office	(432) 686-3695
	Cell	(817) 239-0251



Eddy County, NM (NAD 83 NME)

Sherpa 12 State Com #711H

Plan #0.1



Azimuths to Grid North
True North: -0.10°
Magnetic North: 6.71°

Magnetic Field
Strength: 47403.7nT
Dip Angle: 59.75°
Date: 5/10/2021
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.71°
To convert a Magnetic Direction to a True Direction, Add 6.81° East
To convert a True Direction to a Grid Direction, Subtract 0.10°

PROJECT DETAILS: Eddy 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: #711H

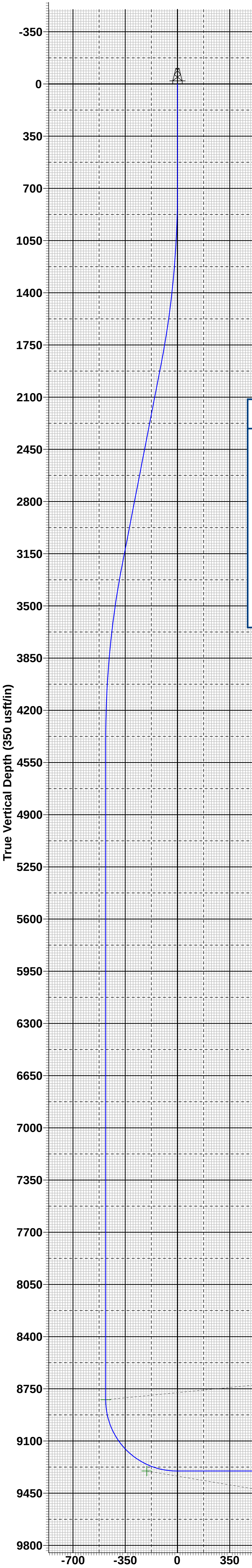
KB = 25 @ 3101.0usft 3076.0
Northing 418435.00 Easting 601280.00 Latitude 32° 9' 0.749 N Longitude 104° 8' 22.728 W

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	700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	
3	1905.6	24.11	58.50	1870.3	130.6	213.1	2.00	58.50	-108.2	
4	3403.7	24.11	58.50	3237.7	450.4	734.9	0.00	0.00	-373.1	
5	4609.2	0.00	0.00	4408.0	581.0	948.0	2.00	180.00	-481.3	
6	9024.7	0.00	0.00	8823.5	581.0	948.0	0.00	0.00	-481.3	KOP(sherpa 12 SC #711H)
7	9774.7	90.00	179.71	9301.0	103.5	950.4	12.00	179.71	-6.1	
8	19644.4	90.00	179.71	9301.0	-9766.0	1001.0	0.00	0.00	9817.2	PBHL(sherpa 12 SC #711H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(sherpa 12 SC #711H)	8823.5	581.0	948.0	419016.00	602228.00
FTP(sherpa 12 SC #711H)	9301.0	304.0	948.0	418739.00	602228.00
PBHL(sherpa 12 SC #711H)	9301.0	-9766.0	1001.0	408669.00	602281.00



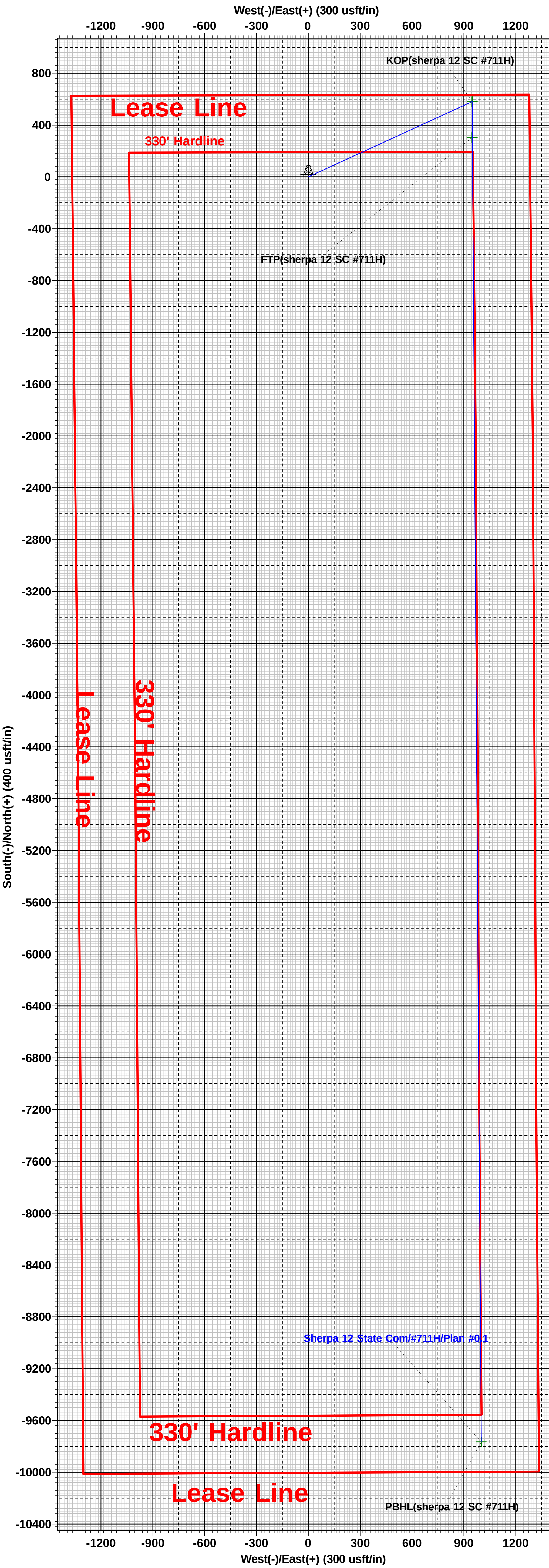
KOP(sherpa 12 SC #711H)

Sherpa 12 State Com/#711H/Plan #0.1

FTP(sherpa 12 SC #711H)

PBHL(sherpa 12 SC #711H)

Vertical Section at 174.15° (350 usft/in)



District I

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

District II

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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 67351

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 67351
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Adhere to all previous COAs	12/16/2021