

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

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

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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		WELL API NO. 30-025-54513
2. Name of Operator EOG RESOURCES, INC		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator P.O. BOX 2267, MIDLAND, TEXAS, 79702		6. State Oil & Gas Lease No.
4. Well Location Unit Letter _____ M _____ : _____ 878 _____ feet from the _____ SOUTH _____ line and _____ 820 _____ feet from the _____ WEST _____ line Section 14 Township 21S Range 33E NMPM County LEA		7. Lease Name or Unit Agreement Name DATE 14 STATE COM
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3814' GR		8. Well Number 605H
9. OGRID Number 7377		10. Pool name or Wildcat 5535 BERRY; BONE SPRING, NORTH

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

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input checked="" type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
---	--	---	--

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 Kayla McConnell TITLE REGULATORY SPECIALIST DATE 10/24/2025

Type or print name KAYLA MCCONNELL E-mail address: KAYLA_MCCONNELL@EOGRESOURCES.COM PHONE: 432.265.6804
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____



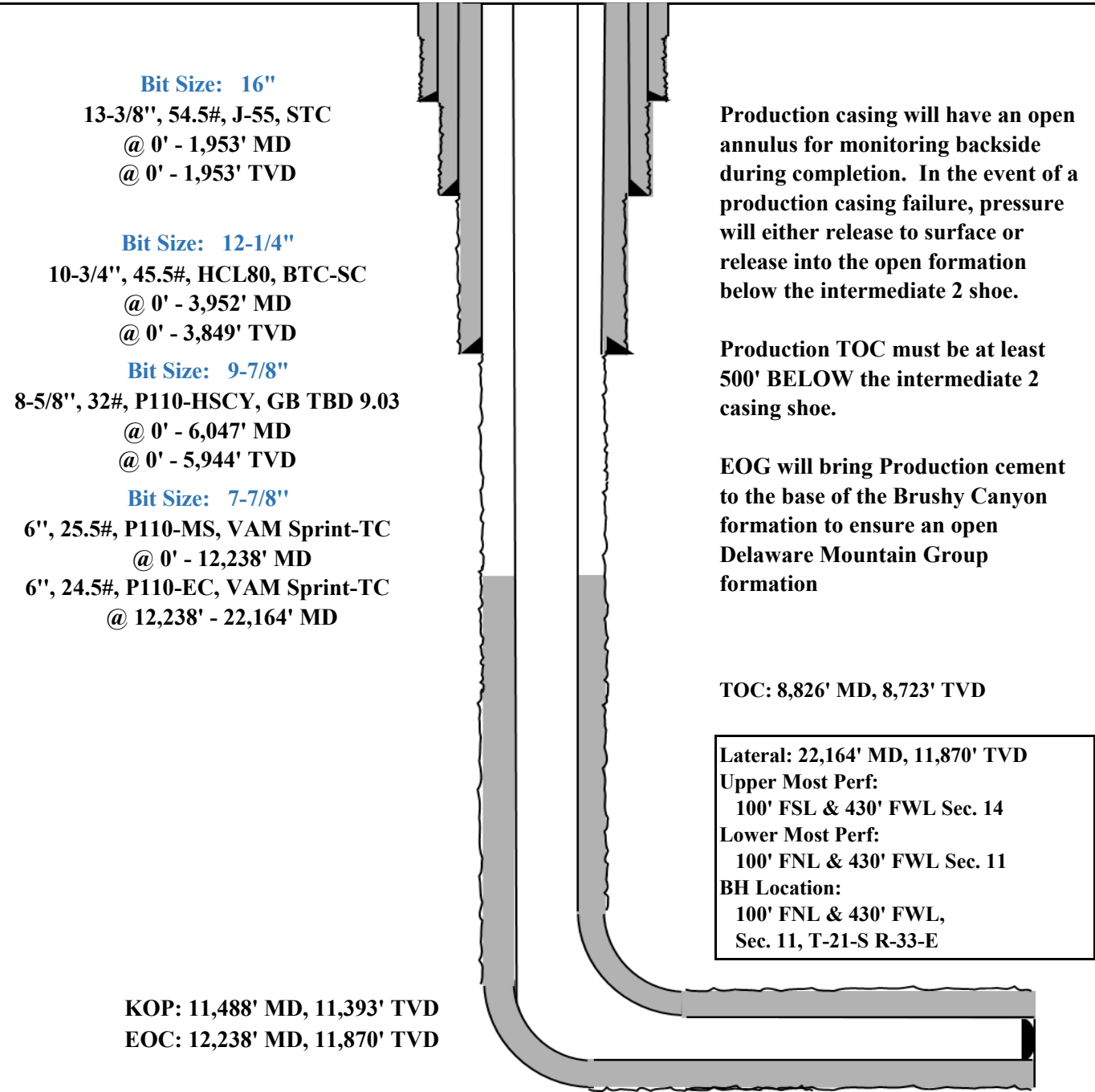
Date 14 State Com 605H

878' FSL
820' FWL
Section 14
T-21-S, R-33-E

Proposed Wellbore

KB: 3839'
GL: 3814'

30-025-54513





Date 14 State Com 605H

4. CASING PROGRAM

Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn
	From (ft)	To (ft)	From (ft)	To (ft)				
16"	0	1,953	0	1,953	13-3/8"	54.5#	J-55	STC
12-1/4"	0	3,952	0	3,849	10-3/4"	45.5#	HCL80	BTC-SC
9-7/8"	0	6,047	0	5,944	8-5/8"	32#	P110-HSCY	GB TBD 9.03
7-7/8"	0	12,238	0	11,870	6"	25.5#	P110-MS	VAM Sprint-TC
7-7/8"	12,238	22,164	11,870	11,870	6"	24.5#	P110-EC	VAM Sprint-TC

**For highlighted rows above, variance is requested to run entire string of either 6" 25.5# or 6" 24.5# casing string above due to availability.

Well is in the KPLA. EOG is aware of the updates to the KPLA requirements resulting in Order R-111-Q, and plans to comply with Order R-111-Q. EOG will monitor and meet the anticollision requirements of R-111-Q. EOG will also monitor the production by 2nd intermediate annulus during frac operations as per design specifications in the Order.

5. CEMENTING PROGRAM:

Depth	No. Sacks	Wt. ppg	Yld Ft3/sk	Slurry Description
1,953' 13-3/8"	510	13.2	1.73	Lead: Class C/H + Additives (TOC @ Surface)
	132	14.8	1.34	Tail: Class C/H + Additives (TOC @ 1,562' TVD)
3,849' 10-3/4"	2236	12.7	1.11	Lead: Class C/H + Additives (High Surface Resistance slurry, min 10% BWOW Salt) + Expansive Additives (TOC @ Surface)
	386	14.8	1.50	Tail: Class C /H + Additives (High Surface Resistance slurry, min 10% BWOW Salt) + Expansive Additives (TOC @ 3,079' TVD)
5,944' 8-5/8"	810	14.2	1.11	1st Stage (Tail): Class C/H + Additives + Expansive Additives (TOC @ 4,755')
	175	14.8	1.50	2nd Stage: Class C/H + Additives + Expansion Additives (TOC @ surface)
22,164' 6"x6"	1472	13.2	1.52	Class C/H + Additives (TOC @ 8,723' - NO EXCESS)



Date 14 State Com 605H

6. MUD PROGRAM

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,953' Surface	Fresh - Gel	8.6-8.8	28-34	N/c
1,953' – 3,849' 1st Int.	Brine	9.4-10.8	28-34	N/c
3,849' - 5,944' 2nd Int.	Fresh - Gel	8.6-9.2	28-34	N/c - 6
5,944' TVD – 22,164' MD Lateral	Oil Base	8.8-9.5	58-68	N/c - 6

7. TUBING REQUIREMENTS

EOG respectively requests an exception to the following NMOCD rule:

- 19.15.16.10 Casing AND TUBING REQUIREMENTS:
J (3): “The operator shall set tubing as near the bottom as practical and tubing perforations shall not be more than 250 feet above top of pay zone.”

With horizontal flowing and gas lifted wells an end of tubing depth placed at or slightly above KOP is a conservative way to ensure the tubing stays clean from debris, plugging, and allows for fewer well interventions post offset completion. The deeper the tubulars are run into the curve, the higher the probability is that the tubing will become stuck in sand and or well debris as the well produces over time. An additional consideration for EOT placement during artificial lift installations is avoiding the high dog leg severity and inclinations found in the curve section of the wellbore to help improve reliability and performance. Dog leg severity and inclinations tend not to hamper gas lifted or flowing wells, but they do effect other forms of artificial lift like rod pump or ESP (electric submersible pump). Keeping the EOT above KOP is an industry best practice for those respective forms of artificial lift.

**Date 14 State Com 605H****Potash Area Requirements**

- (A) Since this well is in the Potash Area – R111-Q requires that a monitored open annulus shall incorporated during completion by leaving the annulus between the 2nd intermediate and production casing strings un-cemented and monitored.
- 1) The top of cement in the annulus between the 2nd intermediate and production casing strings shall stand uncemented at least 500 feet below the 2nd intermediate casing shoe. Zero percent excess shall be pumped on the production cementing slurry to ensure no tie-back into the intermediate casing shoe.
 - 2) Not less than two (2) weeks prior to commencing hydraulic fracturing operations on wells of this design, EOG will provide notice to operators of offset wells actively producing from the Delaware Mountain Group located within one (1) mile of subject well's surface hole location. During hydraulic fracturing operations, the pump pressure and annulus between the intermediate and production casing strings shall be continuously monitored for signs of production casing failure.
 - 3) After hydraulic fracturing operations have been concluded and no longer than 180 days after the well is brought online, EOG will bradenhead cement to ensure at least 500 ft tie-back has been established inside the 2nd intermediate string but not higher than USGS Marker Bed No. 126.
 - 4) The top of cement may be estimated through pumped displacement volumes or with the use of a fluid shot tool prior to filling backside with fluid.
- (B) **Drilling Fluid for 1st Intermediate Hole Section**
The fluid used while drilling the salt section shall consist of water, to which has been added sufficient salts of a character common to the zone penetrated to completely saturate the mixture or non-aqueous drill fluid. Other additives may be added to the fluid by the operator to address any specific well control problem. This requirement is specifically intended to prevent enlarged bore holes.
- (C) **Notificaiton Requirements to Potash Operator**
EOG shall notify both potash operators as soon as possibly if any of the following conditions are encountered during operations:
- 1) Indication of any well collision event
 - 2) Suspected well fluid flow (oil, gas, produced water) outside of casing
 - 3) Sustained annulus pressure between 1st intermediate and next innermost casing string in excess of 500 psi above the baseline pressure of the well, or above 1500 psi total
 - 4) Increasing pressure buildup rates (psi/day) across multiple successive bleed-off cycles on the annulus between the 1st intermediate and next innermost casing during well production
 - 5) Sustained losses in excess of 50% through the salt formation during drilling.
- (D) See attached 4-string Design.



Date 14 State Com #605H

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/Escapes 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.



Date 14 State Com #605H

■ **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.

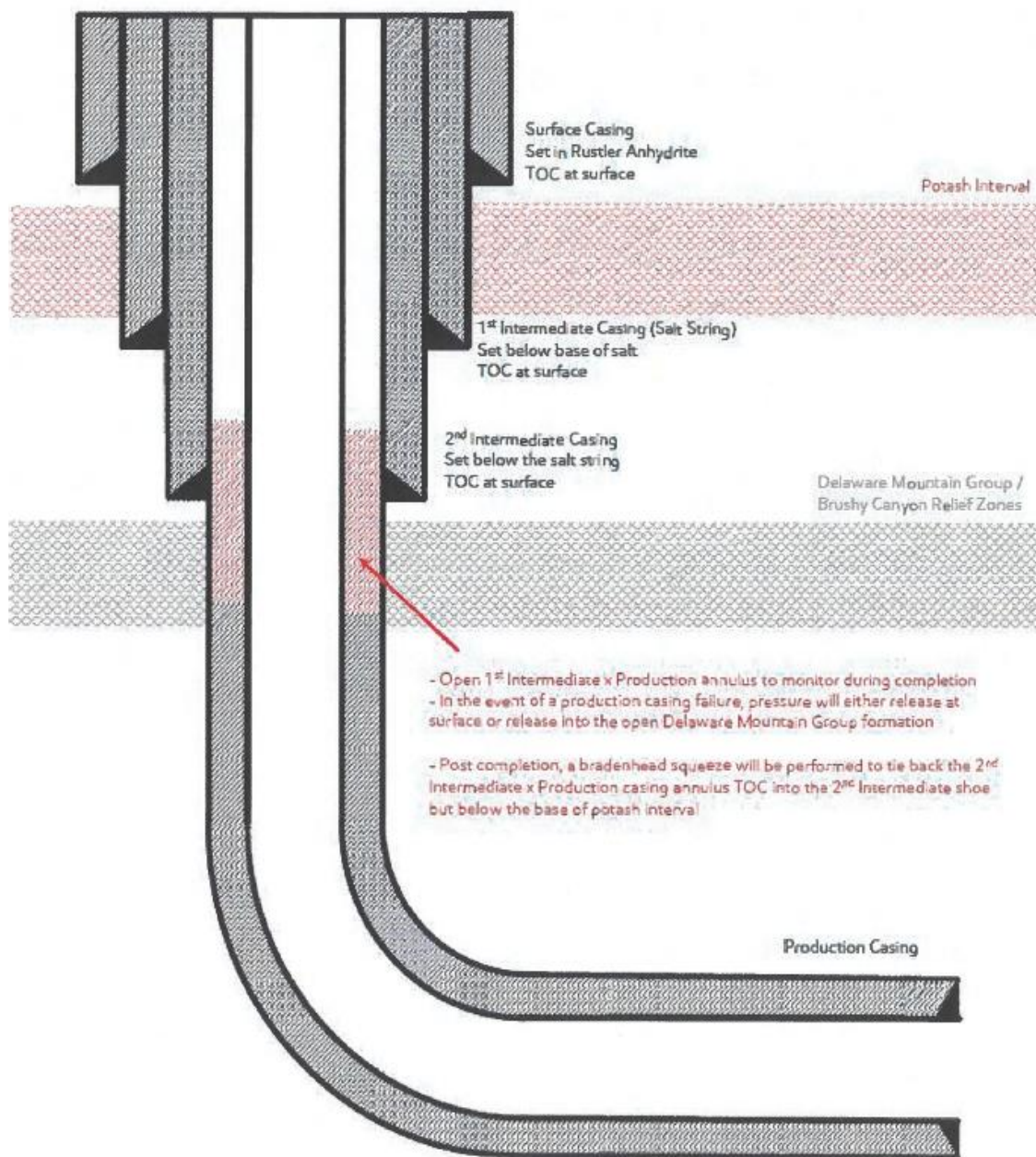
■ **Communication:**

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



Date 14 State Com #605H

4-String Design – Open 1st Int x Production Casing (ICP 2 above relief zone)



[Figure E] 4 String – Uncemented Annulus between 2nd Intermediate and Production Casing Strings

PUBLIC S
Lea Count

Fire Depar

Hospitals:

Dept. of P
Highway I
New Mexi
NMOCD I
U.S. Dept.
EOG Res
EOG / Mic

Safety:
Brian Cha



**Date 14 State Com #605H
Emergency Assistance Telephone List**

SAFETY:		911 or
County Sheriff's Department		(575) 396-3611
Rod Coffman		
Department:		
Carlsbad		(575) 885-3125
Artesia		(575) 746-5050
Carlsbad		(575) 887-4121
Artesia		(575) 748-3333
Hobbs		(575) 392-1979
Public Safety/Carlsbad		(575) 748-9718
Department		(575) 885-3281
El Paso Oil Conservation		(575) 476-3440
Inspection Group - South		(575) 626-0830
Department of Labor		(575) 887-1174
Resources, Inc.		
Midland	Office	(432) 686-3600
Handler (HSE Manager)	Office	(432) 686-3695
	Cell	(817) 239-0251



Date 14 State Com 605H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,883'
Tamarisk Anhydrite	1,990'
Top of Salt	2,320'
Marker Bed 126	3,123'
Capitan	3,949'
Base of Capitan	5,609'
Bell Canyon	5,750'
Cherry Canyon	5,894'
Brushy Canyon	6,912'
Bone Spring Lime	8,823'
Leonard (Avalon) Shale	9,049'
1st Bone Spring Sand	9,993'
2nd Bone Spring Shale	10,219'
2nd Bone Spring Sand	10,562'
3rd Bone Spring Carb	11,076'
3rd Bone Spring Sand	11,633'
Wolfcamp	11,869'
TD	11,870'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400' Fresh Water
Base of Capitan	5,609' Oil
Cherry Canyon	5,894' Oil
Brushy Canyon	6,912' Oil
Bone Spring Lime	8,823' Oil
Leonard (Avalon) Shale	9,049' Oil
1st Bone Spring Sand	9,993' Oil
2nd Bone Spring Shale	10,219' Oil
2nd Bone Spring Sand	10,562' Oil

**EOG Batch Casing****Pad Name:** Date 14 State KPLA Sundries

SHL: Section 14, Township 21-S, Range 33-E, LEA County, NM

Well Name	API #	Surface		Intermediate 1		Intermediate 2		Intermediate 3		Production	
		MD	TVD	MD	TVD	MD	TVD	MD	TVD	MD	TVD
Date 14 State Com #504H	30-025-54514	1,953	1,953	3,917	3,849	6,012	5,944	N/A	N/A	20,873	10,600
Date 14 State Com #505H	30-025-54515	1,953	1,953	4,039	3,849	6,134	5,944	N/A	N/A	20,971	10,600
Date 14 State Com #603H	30-025-54503	1,953	1,953	3,864	3,849	5,959	5,944	N/A	N/A	22,090	11,870
Date 14 State Com #604H	30-025-54508	1,953	1,953	4,059	3,849	6,154	5,944	N/A	N/A	22,257	11,870
Date 14 State Com #605H	30-025-54513	1,953	1,953	3,952	3,849	6,047	5,944	N/A	N/A	22,164	11,870

**Date 14 State Com 605H**

EOG is aware of the updates to the KPLA requirements in R-111-Q and plans to comply with the R-111-Q order. Anticollision requirements will be monitored and met.

R-111-Q Casing and Cementing Requirements:

The surface casing string shall have at least the following centralization program:

- One centralizer per joint across the shoe track
- One centralizer per 2 joints from casing shoe to the top of useable fresh water
- Not less than one centralizer every 3 joints for surface casing

A casing pressure test shall be made before drilling below the casing seat or at the time of plug bump. The casing shall be tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of casing burst. If a drop of 10% or more should occur within 30 minutes, corrective measures shall be applied. Shoe integrity shall be verified via a formation integrity test (FIT).

The well path may be deviated from vertical after completely penetrating USGS Marker Bed No. 126

The 1st intermediate casing string shall be set at least 100 ft below the base of the salt interval and above the highest known oil/gas zone, and have at least the following centralization program:

- One centralizer per joint across the shoe track and not less than 1 centralizer every 3 joints to surface
- EOG will confirm the effectiveness of centralization program with cement placement simulations
- The Division (NMOCD) may require additional centralizers on the salt string, if it deems it necessary

The 1st intermediate cement slurry shall have the following characteristics:

- Cement will be a high sulfate resistance (HSR) slurry
- Include a minimum of 10% BWOW salt
- Include an expansion additive (1-3% BWO Magnesium Oxide or equivalent)

A casing pressure test shall be made before drilling below the casing seat or at the time of plug bump. The casing shall be tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of casing burst. If a drop of 10% or more should occur within 30 minutes, corrective measures shall be applied.

Shoe integrity shall be verified via a formation integrity test (FIT).

The 2nd intermediate casing string is required in areas of the Capitan Reef (unless exempted by the Division), and shall be set 150 ft above the Base of the Capitan formation.

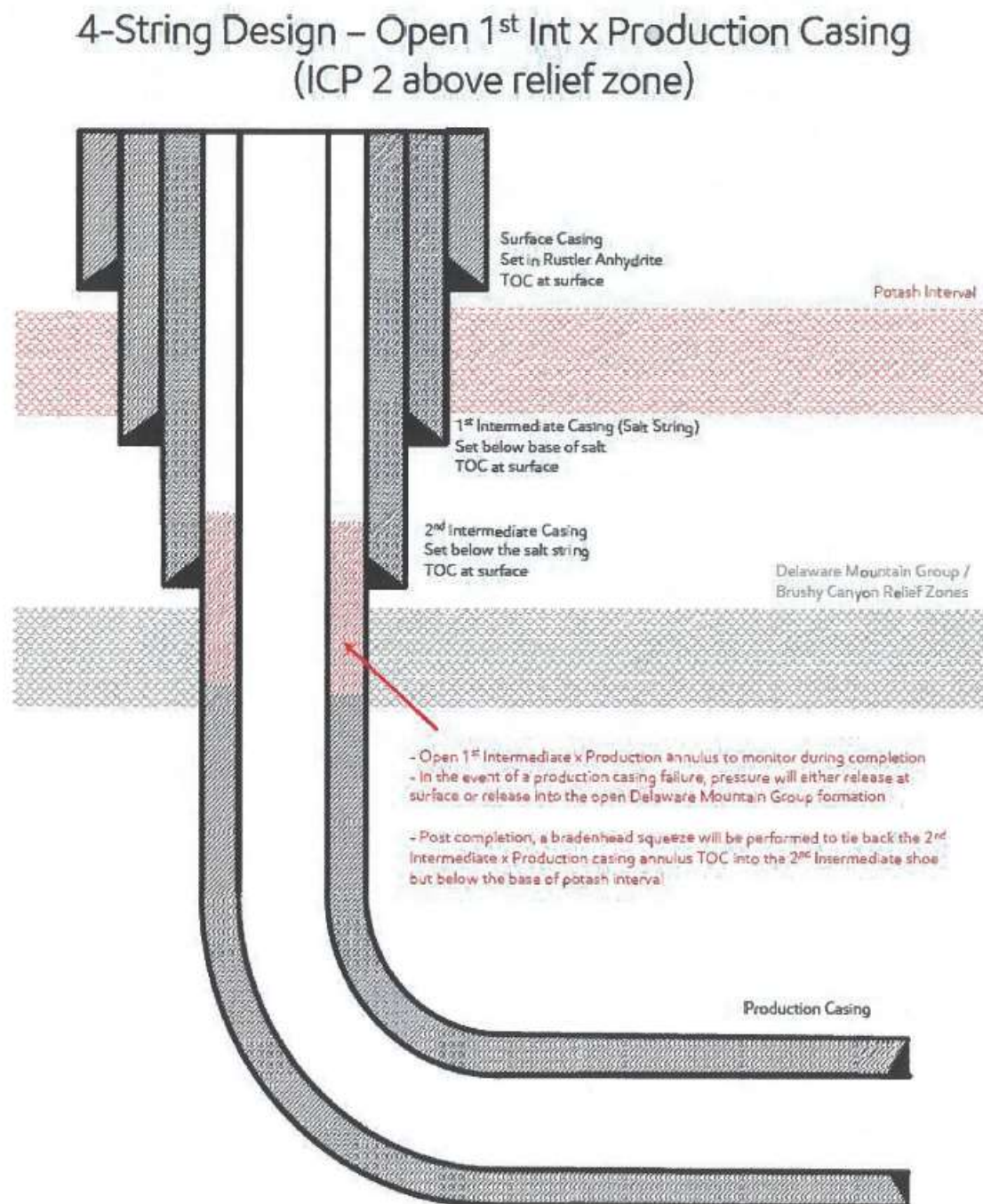
EOG will incorporate method C(5)(c)(iii) for the 4 string designs, leaving the annulus between the 2nd intermediate and the production string open and monitored. The top of production cement will be at least 500 ft below the 2nd intermediate casing point, and ZERO EXCESS will be pumped to ensure no tie-back into the 2nd intermediate.

EOG will incorporate a modified method C(5)(c)(ii) for the 5 string designs, leaving the annulus between the 2nd and 3rd intermediates open and monitored. The top of the 3rd intermediate cement will be at least 500 ft below the 2nd intermediate casing point, and ZERO EXCESS will be pumped to ensure no tie-back into the 2nd



After hydraulic fracturing operations have been concluded/no more than 180 days after the well is brought online, EOG will bradenhead cement to ensure at least 500 ft of tie-back inside the 2nd intermediate casing, but not higher than USGS Marker Bed No. 126., and at least 50' above the Capitan formation.

See Attached Figure E from R-111-Q for 4 String - Uncemented Annulus WBD.

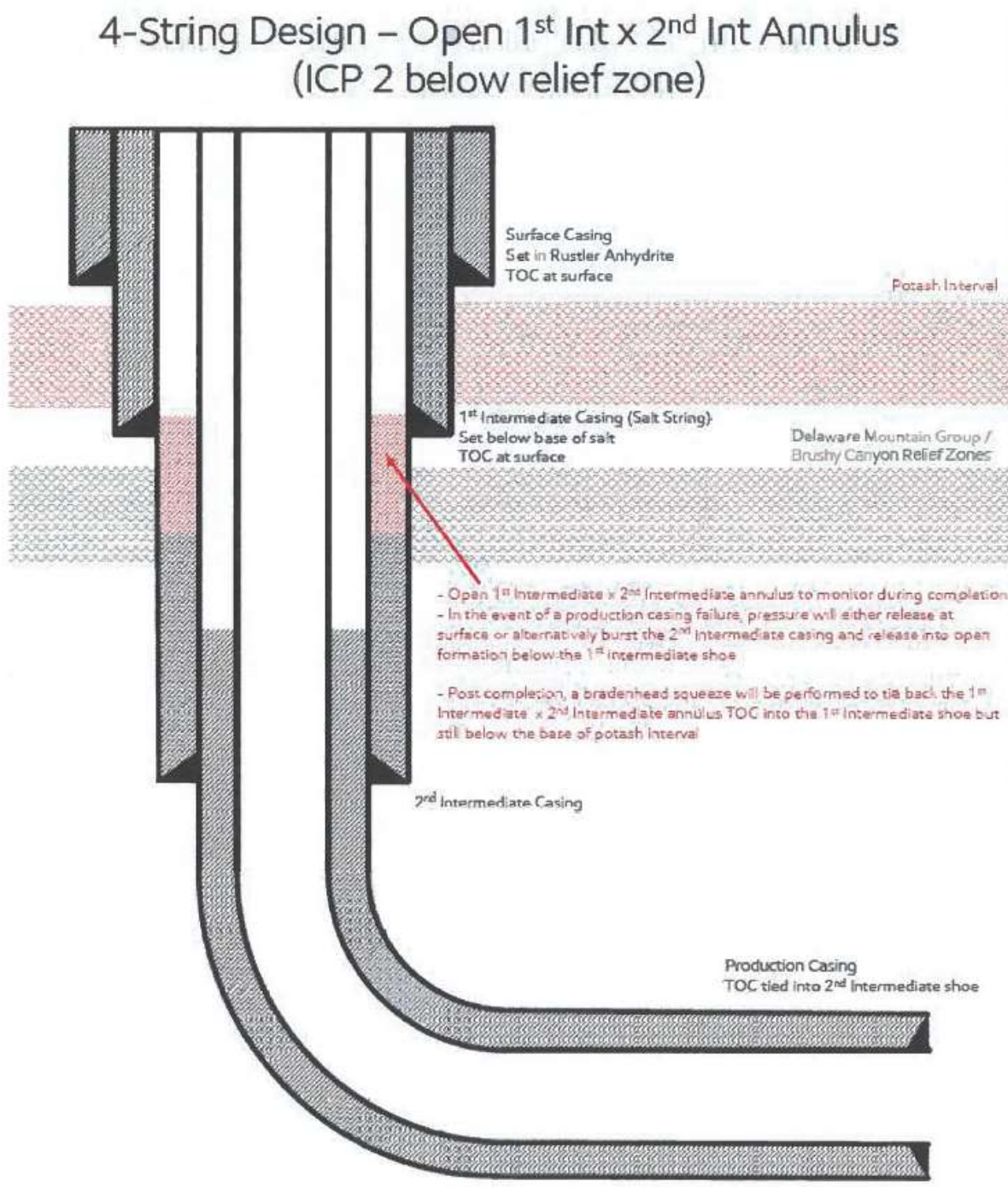


[Figure E] 4 String – Uncemented Annulus between 2nd Intermediate and Production Casing Strings



After hydraulic fracturing operations have been concluded/no more than 180 days after the well is brought online, EOG will bradenhead cement to ensure at least 500 ft of tie-back between the 3rd and the 2nd intermediate casings, but not higher than USGS Marker Bed No. 126, and at least 50' above the Capitan formation.

See Attached Figure D from R-111-Q. This design will be modified for EOG's 5 string designs, where the annulus between the 3rd and 2nd intermediate casings will be left open below the 2nd intermediate casing shoe.



[Figure D] 4 String – Uncemented annulus between 1st and 2nd Intermediate casing strings



Date 14 State Com 605H API #: 30-025-54513

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 519697

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 519697
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	All previous COA's still apply.	11/18/2025