

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

Form C-101
August 1, 2011

Permit 275927

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702		2. OGRID Number 7377
		3. API Number 30-015-46538
4. Property Code 326770	5. Property Name RENEGADE 02 STATE	
		6. Well No. 604H

7. Surface Location

UL - Lot M	Section 2	Township 19S	Range 24E	Lot Idn	Feet From 369	N/S Line S	Feet From 262	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot P	Section 2	Township 19S	Range 24E	Lot Idn P	Feet From 369	N/S Line S	Feet From 100	E/W Line E	County Eddy
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9. Pool Information

PENASCO DRAW PERMO PENN OIL	98330
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3686
16. Multiple N	17. Proposed Depth 12157	18. Formation Permo Penn	19. Contractor	20. Spud Date 3/27/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	1300	480	0
Prod	8.75	5.5	20	7409	1055	
Prod	8.5	5.5	20	12157	1055	

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	Whichever is available

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable. Signature:	OIL CONSERVATION DIVISION	
Printed Name: Electronically filed by Kay Maddox	Approved By: Raymond Podany	
Title: Regulatory Agent	Title: Geologist	
Email Address: kay_maddox@eogresources.com	Approved Date: 12/26/2019	Expiration Date: 12/26/2021
Date: 12/19/2019	Phone: 432-686-3658	Conditions of Approval Attached

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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 Wildcat; Permo Penn
⁴ Property Code	⁵ Property Name RENEGADE 02 STATE	⁶ Well Number 604H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3686'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	19-S	24-E	-	369	SOUTH	262	WEST	EDDY

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
P	2	19-S	24-E	-	369	SOUTH	100	EAST	EDDY

¹² Dedicated Acres 160.00	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.

SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=428349 Y=612574 LAT.: N 32.6838483 LONG.: W 104.5662150 NAD 1983 X=469527 Y=612635 LAT.: N 32.6839596 LONG.: W 104.5667371 UPPER MOST PERF. NEW MEXICO EAST NAD 1927 X=428567 Y=612572 LAT.: N 32.6838463 LONG.: W 104.5655064 NAD 1983 X=469745 Y=612633 LAT.: N 32.6839576 LONG.: W 104.5660286 LOWER MOST PERF./ BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=433314 Y=612564 LAT.: N 32.6838496 LONG.: W 104.5500782 NAD 1983 X=474492 Y=612625 LAT.: N 32.6839612 LONG.: W 104.5506002	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. <i>Tina Huerta</i> 12/19/19 Signature Date Tina Huerta Printed Name tina_huerta@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. 12/16/2019 Date of Survey <i>Ramon A. Dominguez</i> Signature and Seal of Professional Surveyor 24508 Certificate Number
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Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 12/26/2019

☒ Original

Operator & OGRID No.: [7377] EOG RESOURCES INC

☐ Amended - Reason for
Amendment: _____

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
RENEGADE 02 STATE #604H	30-015-46538	M-2-19S-24E	0369S 0262W	500	None	

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 Lucid Artesia Company and will be connected to Lucid Artesia Company Low Pressure gathering system located in Eddy County, New Mexico. It will require 1300' of pipeline to connect the facility to Low Pressure gathering system. EOG RESOURCES INC provides (periodically) to Lucid Artesia Company 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 Lucid Artesia Company have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Lucid Artesia Company Processing Plant located in Sec. 26, Twn. 18S, Rng. 25E, Eddy 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 Lucid Artesia Company system at that time. Based on current information, it is EOG RESOURCES INC's 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

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Form APD Comments

Permit 275927

PERMIT COMMENTS

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702		API Number: 30-015-46538
		Well: RENEGADE 02 STATE #604H

Created By	Comment	Comment Date
tinah	See Contingency Plan	12/19/2019
tinah	Please see Plug Back Contingency Plan and Plug Back Schematic.	12/19/2019

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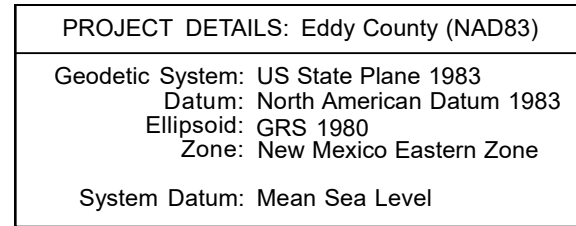
Form APD Conditions

Permit 275927

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: EOG RESOURCES INC [7377] P.O. Box 2267 Midland, TX 79702		API Number: 30-015-46538
		Well: RENEGADE 02 STATE #604H

OCD Reviewer	Condition
rpodany	Will require a directional survey with the C-104
rpodany	Cement is required to circulate on both surface and intermediate1 strings of casing

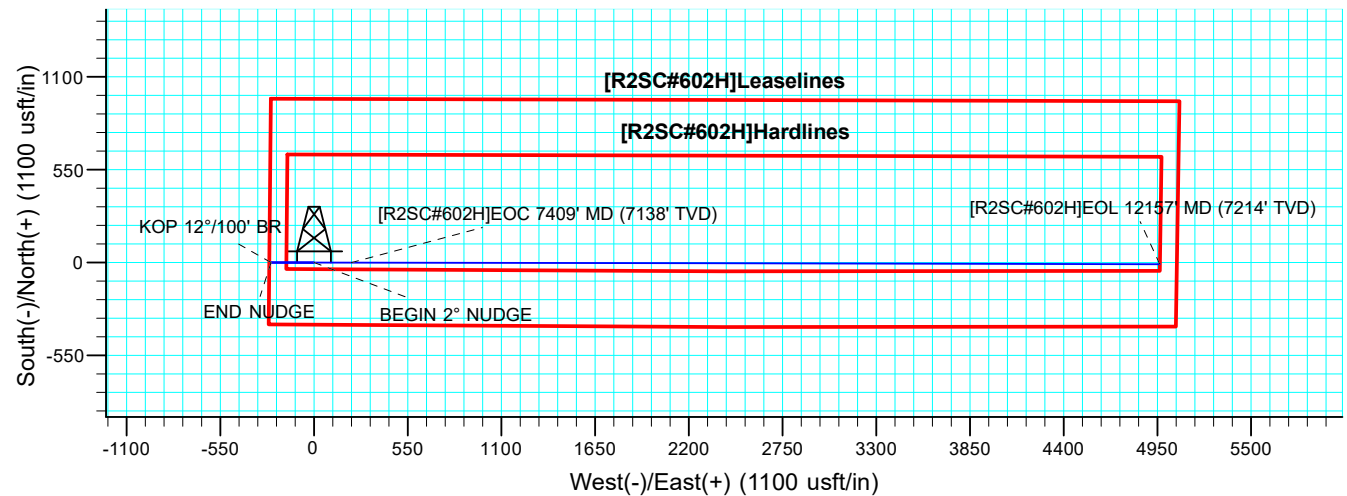


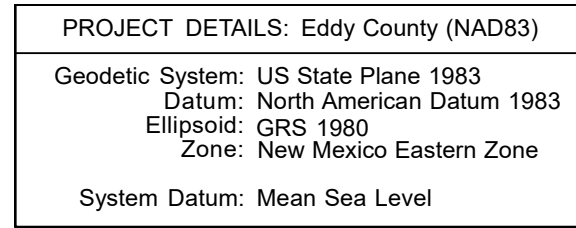
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect
1	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
3	1649.93	3.00	270.00	1649.86	0.00	-3.92	2.00	270.00	-3.92
4	6317.19	3.00	270.00	6310.74	0.00	-248.08	0.00	0.00	-248.08
5	6467.13	0.00	360.00	6460.60	0.00	-252.00	2.00	180.00	-252.00
6	6467.13	0.00	360.00	6460.60	0.00	-252.00	0.00	0.00	-252.00
7	6667.13	0.00	360.00	6660.60	0.00	-252.00	0.00	360.00	-252.00
8	7409.48	89.08	90.11	7138.00	-0.90	217.82	12.00	90.11	217.82
9	12157.28	89.08	90.11	7214.00	-10.00	4965.00	0.00	0.00	4965.01

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
[R2SC#604H]UMP	7138.00	-2.00	218.00	612633.00	469745.00
- plan misses target center by 1.10usft at 7409.67usft MD (7138.01 TVD, -0.90 N, 218.00 E)					
[R2SC#604H]BHL	7214.00	-10.00	4965.00	612625.00	474492.00
- plan hits target center					



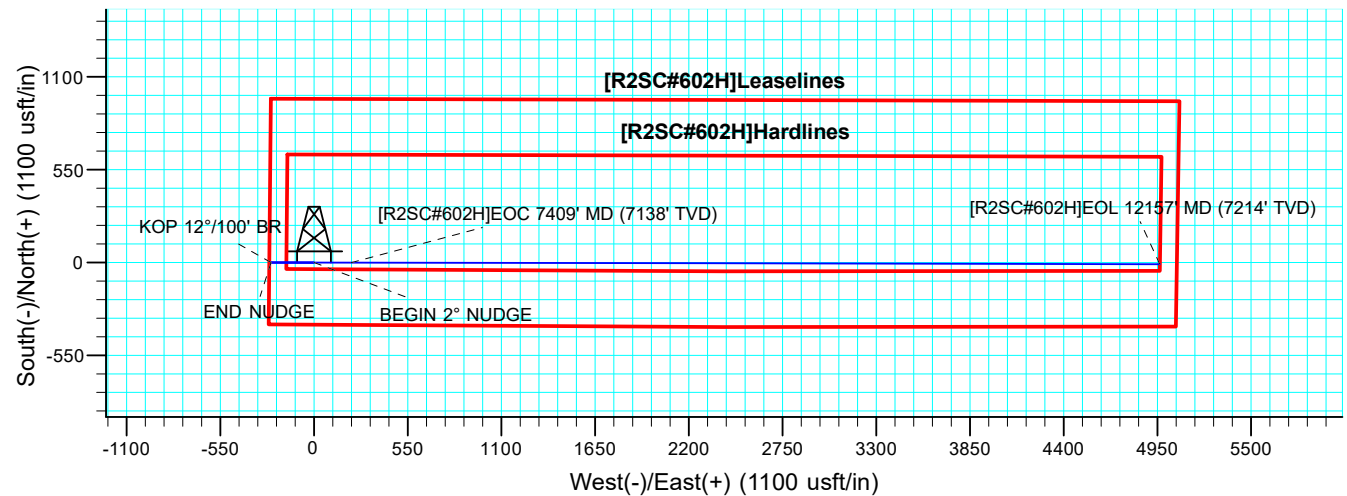


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
3	1649.93	3.00	270.00	1649.86	0.00	-3.92	2.00	270.00	-3.92
4	6317.19	3.00	270.00	6310.74	0.00	-248.08	0.00	0.00	-248.08
5	6467.13	0.00	360.00	6460.60	0.00	-252.00	2.00	180.00	-252.00
6	6467.13	0.00	360.00	6460.60	0.00	-252.00	0.00	0.00	-252.00
7	6667.13	0.00	360.00	6660.60	0.00	-252.00	0.00	360.00	-252.00
8	7409.48	89.08	90.11	7138.00	-0.90	217.82	12.00	90.11	217.82
9	12157.28	89.08	90.11	7214.00	-10.00	4965.00	0.00	0.00	4965.01

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[R2SC#604H]BHL	7214.00	-10.00	4965.00	612625.00	474492.00
- plan hits target center					



Intent ☐ As Drilled ☐API #

Operator Name:	Property Name:	Well Number
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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
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KZ 06/29/2018

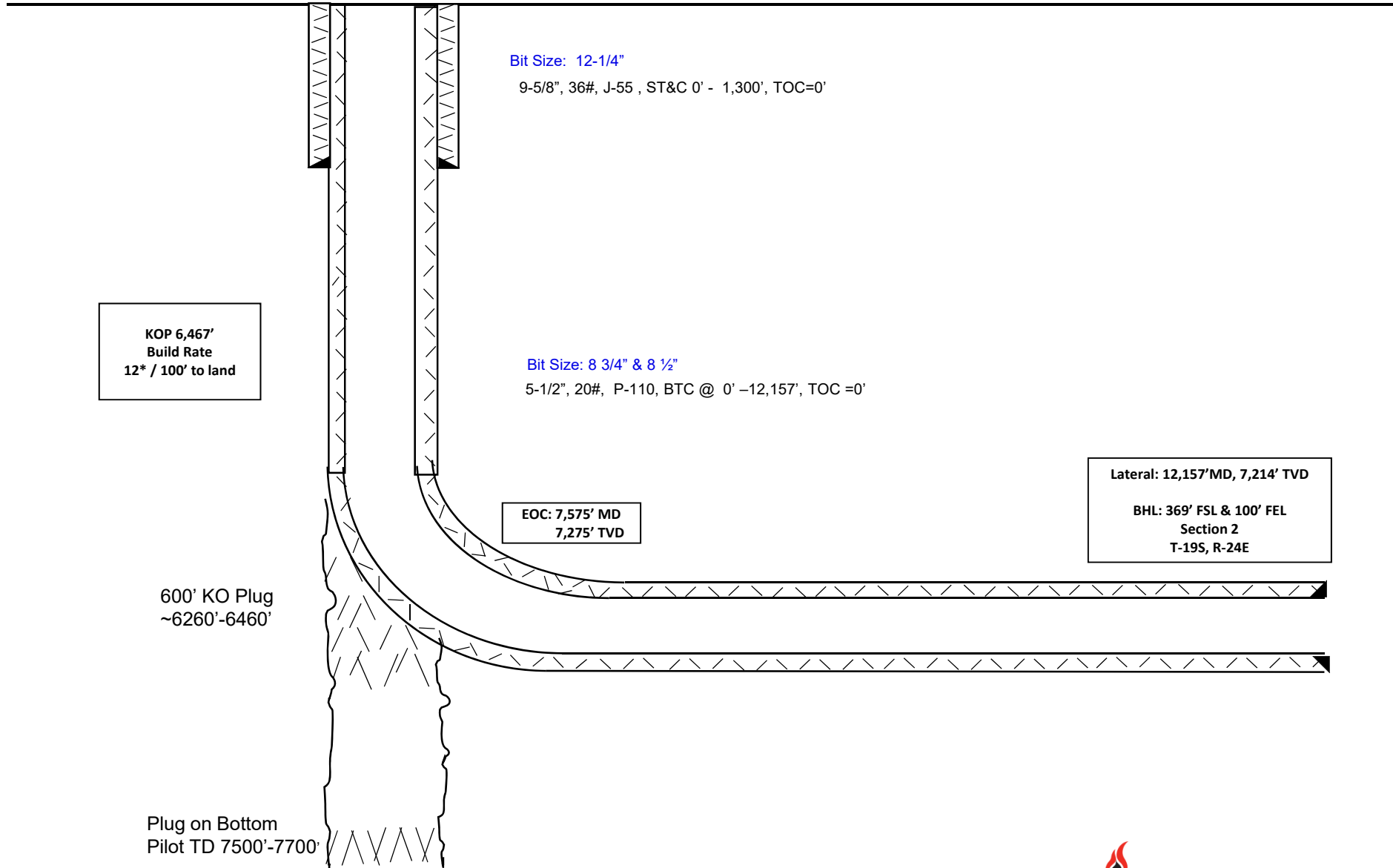
369' FSL
262' FWL
Section 2
T-19S, R-24E

Renegade 02 State #604H

Proposed Plugback Schematic For Contingent Pilot Hole

API: 30-015-*****

GL: 3,686'



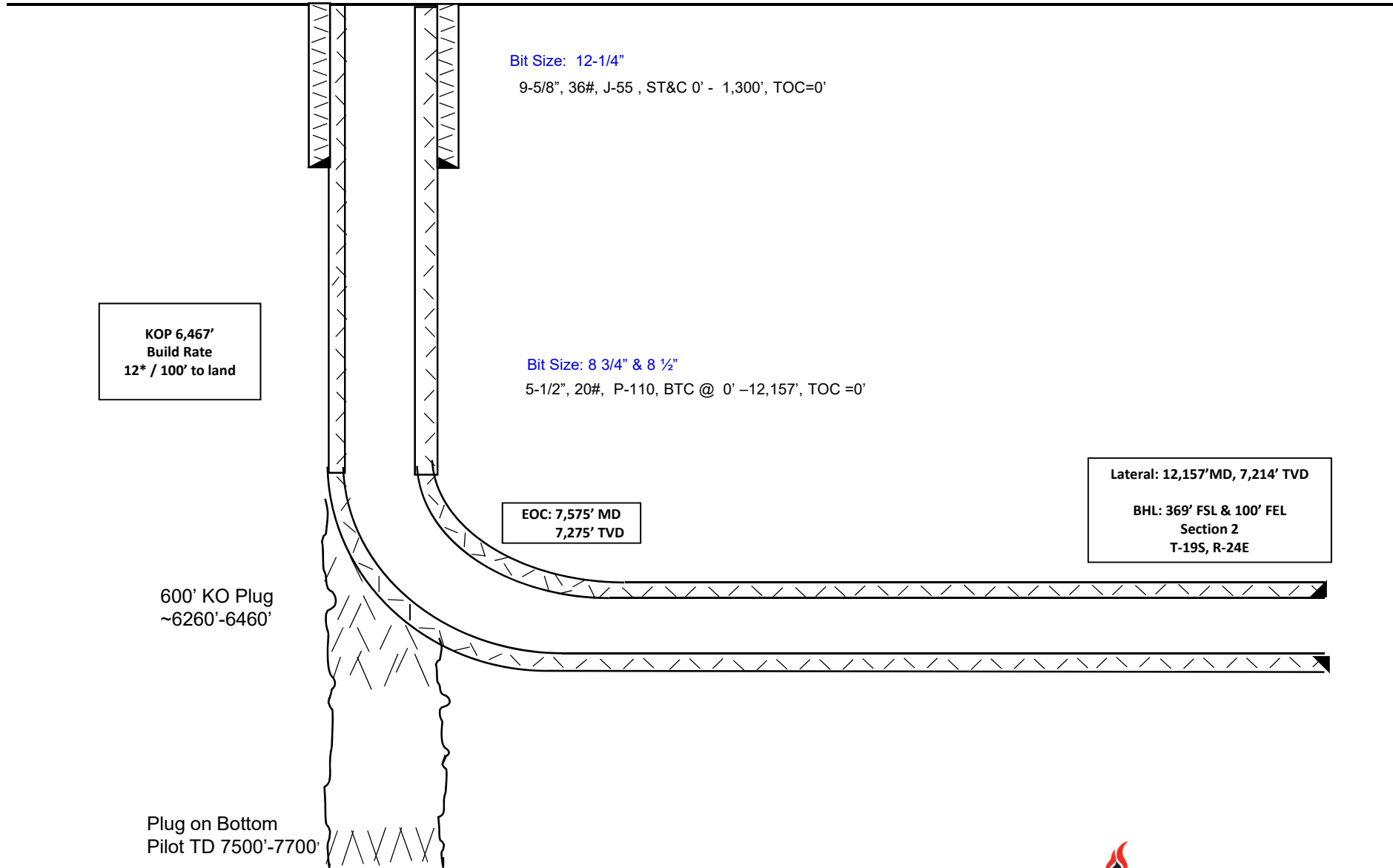
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369' FSL
262' FWL
Section 2
T-19S, R-24E

Renegade 02 State #604H

Proposed Plugback Schematic For Contingent Pilot Hole

API: 30-015-*****

GL: 3,686'

