

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. 30-025-31110
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No. V-1682
7. Lease Name or Unit Agreement Name Red Hat State SWD
8. Well Number 1
9. OGRID Number 7377
10. Pool name or Wildcat SWD; San Andres; Glorieta
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4192'GR

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 SWD [ ]
2. Name of Operator EOG Resources, Inc.
3. Address of Operator 104 South Fourth Street, Artesia, NM 88210
4. Well Location Unit Letter O : 3300 feet from the South line and 1980 feet from the East line
Section 2 Township 16S Range 33E NMPM Lea County

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK [ ] PLUG AND ABANDON [X]
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: [ ]

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 Resources, Inc. plans to plug and abandon this well as follows:

- 1. MIRU all safety equipment as needed. NU BOP. POOH with production equipment.
2. Spot a 25 sx Class "H" cement plug from 9551'-9325'. This will cover Wolfcamp top and DV tool.
3. Spot a 25 sx Class "H" cement plug from 7854'-7628'. This will cover Abo top.
4. Spot a 25 sx Class "C" cement plug from 7216'-6964'. This will cover Tubb top.
5. Spot a 25 sx Class "C" cement plug from 5916'-5664'. This will cover Glorieta top.
6. Set a CIBP at 5650' with 25 sx Class "C" cement on top to 5398'. WOC and tag. This will cover San Andres perfs.
7. Perforate at 5250'. Spot a 31 sx Class "C" cement plug from 5250'-5090'. WOC and tag. This will cover TOC.
8. Perforate at 4565'. Spot a 50 sx Class "C" cement plug from 4565'-4350'. WOC and tag. This will cover casing shoe and San Andres top.
9. Perforate at 3630'. Spot a 36 sx Class "C" cement plug from 3630'-3478'. WOC and tag. This will cover Queen top.
10. Perforate at 2792'. Spot a 33 sx Class "C" cement plug from 2792'-2652'. WOC and tag. This will cover Yates top.
11. Perforate at 1658'. Spot a 50 sx Class "C" cement plug from 1658'-1448'. WOC and tag. This will cover Salado top and Rustler top.
12. Perforate at 459'. Spot a 26 sx Class "C" cement plug from 459'-349'. WOC and tag. This will cover Surface casing shoe.
13. Perforate at 60X Spot a 15X sx Class "C" cement plug from 60X up to surface. WOC and tag. Back fill as needed.
14. Cut off wellhead and install dry hole marker. Clean location as per regulated.

150' CIR to surf

Wellbore schematics attached.

Spud Date: 4" diameter 4' tall Above Ground Marker

Rig Release Date: SEE ATTACHED CONDITIONS OF APPROVAL

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

SIGNATURE Tina Huerta TITLE Regulatory Specialist DATE May 17, 2021

Type or print name Tina Huerta E-mail address: tina.huerta@eogresources.com PHONE: 575-748-4168
For State Use Only

APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 6/14/21

**Red Hat State SWD #1 Current**

Sec-TWN-RNG: Sec. 2-16S-33E API: 30-025-31110  
 FOOTAGES: 3300'FSL & 1980'FEL GL: 4192  
 KB:

**CASING DETAIL**

#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 3/4	13 3/8	54.5	J-55	0	409	425	Surface	Circ
B	12 1/4	8 5/8	32	S-80/J-55	0	4,515	2100	Surface	Circ
C	7 7/8	5 1/2	17/20	N80/S-95	0	13,250	2650	5200	CBL

**FORMATION TOPS**

Formation	Top	Formation	Top
Rustler	1501	Abo	7804
Salado	1608	Wolfcamp	9501
Yates	2742	Penn	10123
Queen	3580	Strawn	11948
San Andres	4417	Atoka	12230
Glorieta	5866	Morrow LS	12693
Tubb	7166		

**TUBING DETAIL**

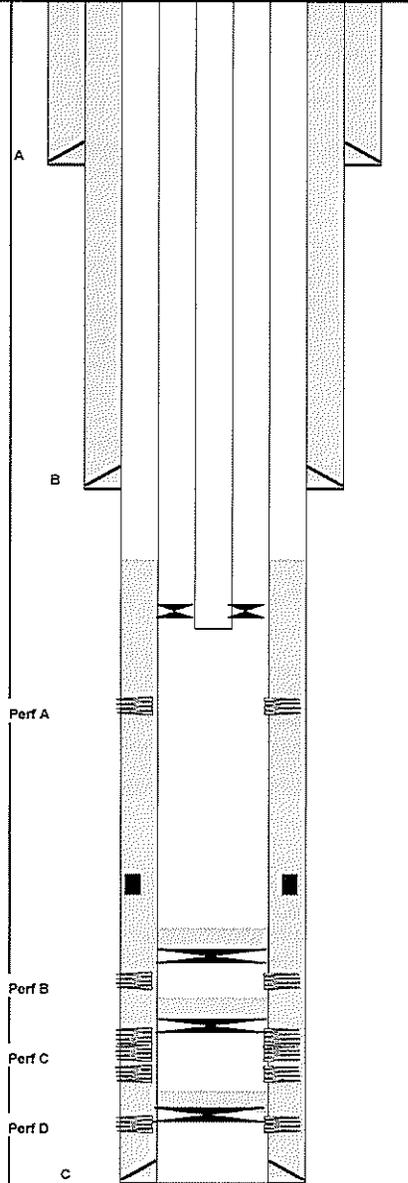
#	Joints	Description	Length	OD	ID	Grade	Wt (lb/ft)	Top (ftKB)	Btn (ftKB)
		2-7/8 J-55 Plastic Coated Tubing				Nickel plated lockset Packer & EOT @ 5766'			
		DV Tool @ 9,400'							
		CIBP w/35' Cement @ 12560'							
		CIBP w/35' Cement @ 10370'							
		CIBP w/ 35' Cement @ 9800'							

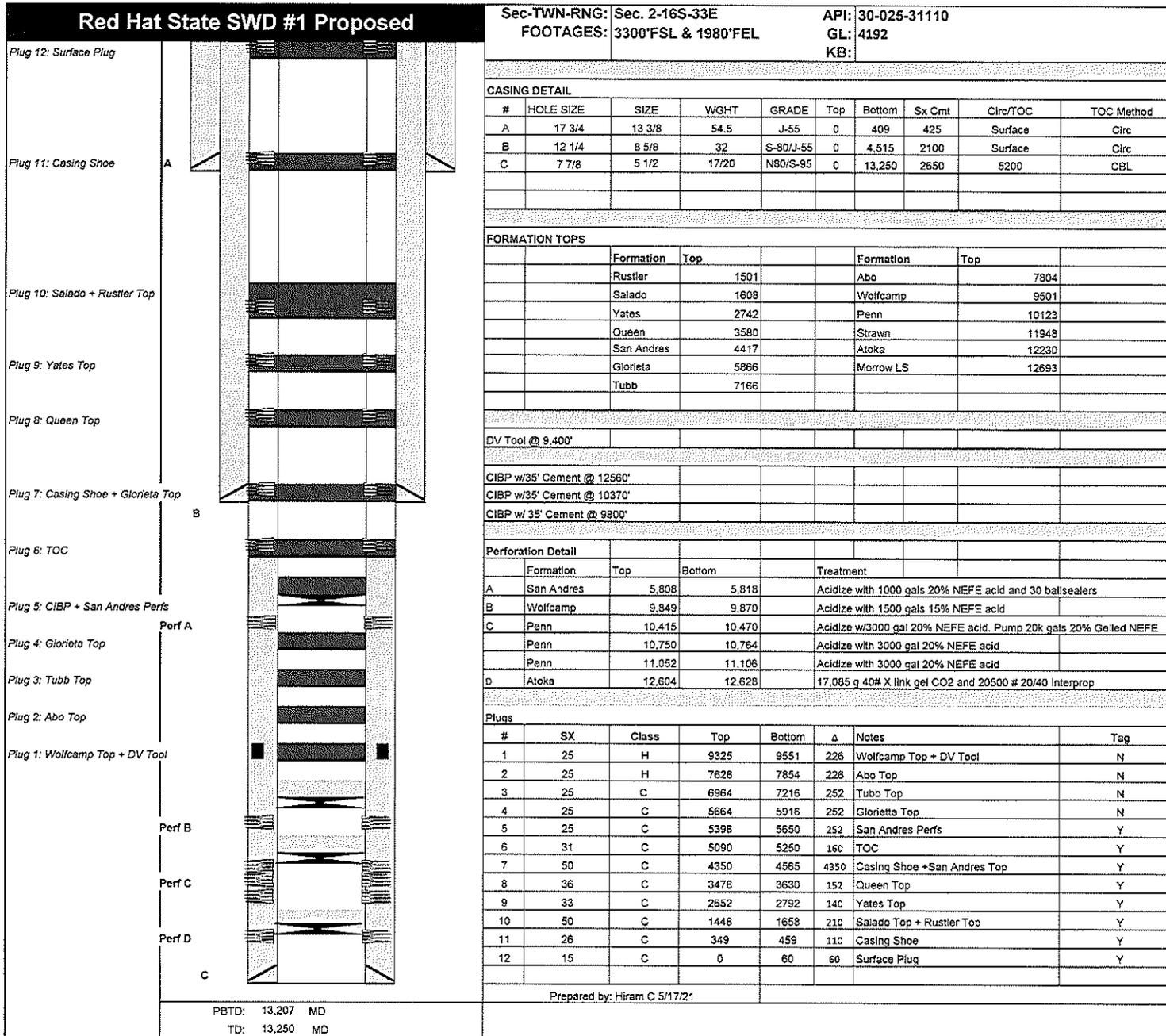
**Perforation Detail**

	Formation	Top	Bottom	Treatment
A	San Andres	5,808	5,818	Acidize with 1000 gals 20% NEFE acid and 30 ballsealers
B	Wolfcamp	9,849	9,870	Acidize with 1500 gals 15% NEFE acid
C	Penn	10,415	10,470	Acidize w/3000 gal 20% NEFE acid. Pump 20k gals 20% Gelled NEFE
	Penn	10,750	10,764	Acidize with 3000 gal 20% NEFE acid
	Penn	11,052	11,106	Acidize with 3000 gal 20% NEFE acid
D	Atoka	12,604	12,628	17,085 g 40# X link gel CO2 and 20500 # 20/40 Interprop

Prepared by: Hiram C

PBTD: 13,207 MD  
 TD: 13,250 MD





**CONDITIONS OF APPROVAL  
FOR PLUGGING AND ABANDONMENT  
OCD - Southern District**

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office I (Hobbs) at **(575)-263-6633** at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down.

**Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal - commercial or private- shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.
16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).

- 19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
- 20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) Potash---(In the R-111-P Area (Potash Mine Area),

A solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be SO' below the bottom and 50' above the top of the Formation.

21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, woe and tagged. These plugs will be set SO' below formation bottom to 50' above formation top inside the casing.

**DRY HOLE MARKER REQ.UIRMENTS**

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least 1/4" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

- 1. Operator name
- 2. Lease and Well Number
- 3. API Number
- 4. Unit letter
- 5. Quarter Section (feet from the North, South, East or West)
- 6. Section, Township and Range
- 7. Plugging Date
- 8. County

**SPECIAL CASES -----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS**

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

**SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION**

Red Hat State SWD #1 Current

Sec-TWN-RNG1 Sec. 2-16S-33E API: 30-025-31110  
 FOOTAGES: 3300 FSL & 1980 FEL GL: 4192  
 KB:

CASING DETAIL									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	Sx Cmt	Circ/TOC	TOC Method
A	17 3/4	13 3/8	54.5	J-55	0	409	425	Surface	Circ
B	12 1/4	8 5/8	32	S-80/J-55	0	4,515	2100	Surface	Circ
C	7 7/8	5 1/2	17/20	N80/S-95	0	13,250	2650	5200	CBL

FORMATION TOPS

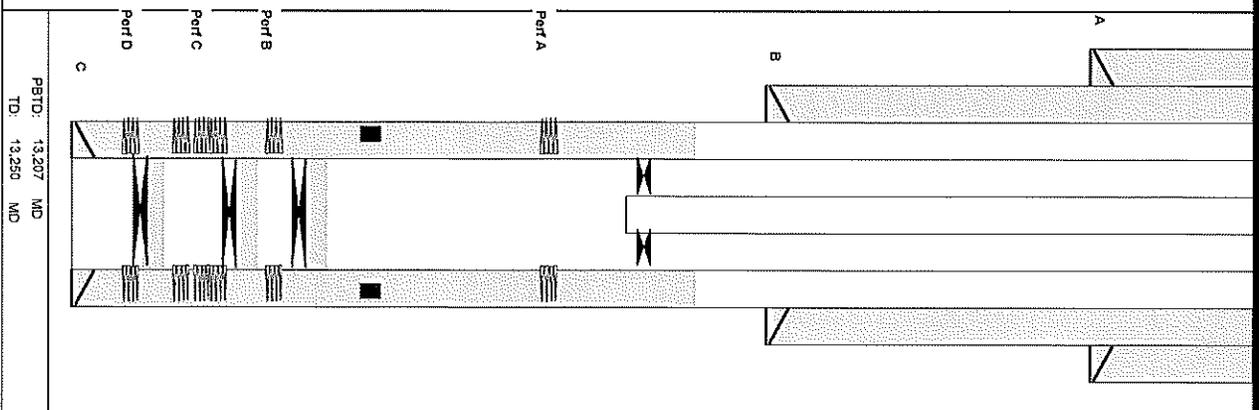
Formation	Top	Formation	Top
Rustler	1501	Abco	7804
Salsdo	1608	Walcamp	9501
Yales	2742	Penn	10123
Queen	3580	Strawn	11948
San Andres	4417	Atoka	12230
Glorieta	5856	Marlow LS	12993
Tubb	7166		

TUBING DETAIL

#	Joints	Description	Length	OD	ID	Grade	WT (lbm)	Top (TKB)	Bot (TKB)
DV Tool @ 9.400'		3-7/8 J-55 Plastic Coated Tubing				Nickel plated Lockset Packer & EOT @ 575'			
CIBP w/35' Cement @ 12560'									
CIBP w/35' Cement @ 10370'									
CIBP w/ 35' Cement @ 9800'									

Perforation Detail

Formation	Top	Bottom	Treatment
A San Andres	5,803	5,818	Acidize with 1000 gal 20% NEFE acid and 30 ballsealers
B Walcamp	9,849	9,870	Acidize with 1500 gal 15% NEFE acid
C Penn	10,415	10,470	Acidize w/3000 gal 20% NEFE acid, Pump 20k gal 20% Gelled NEFE
Penn	10,750	10,764	Acidize with 3000 gal 20% NEFE acid
Penn	11,052	11,106	Acidize with 3000 gal 20% NEFE acid
D Atoka	12,604	12,628	Acidize with 40w X link gal CO2 and 20500 # 20/40 Interprop

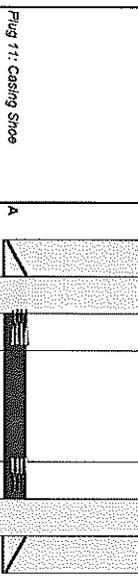


P8TD: 13.207 MD  
 TD: 13.250 MD

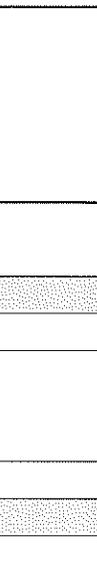
Prepared by: Hiram C

# Red Hat State SWD #1 Proposed

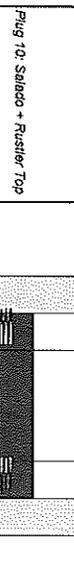
Plug 12: Surface Plug



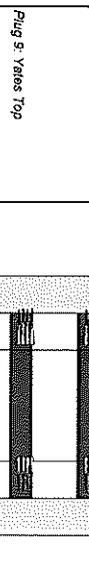
Sec: TWN-RNG: Sec. 2-16S-33E									
FOOTAGES: 3300FSL & 1980FEL									
APL: 30-025-31110									
GL: 4192									
KB:									



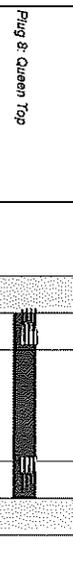
Casing Detail									
#	HOLE SIZE	SIZE	WGHT	GRADE	Top	Bottom	SX Cmt	Chc/TOC	TOC Method
A	17 3/4	13.318	54.5	J-55	0	409	425	Surface	Circ
B	12 1/4	8.516	32	S-80/L-55	0	4.515	2100	Surface	Circ
C	7 7/8	5.112	17.20	N80/S-95	0	13.250	2650	5200	CBL



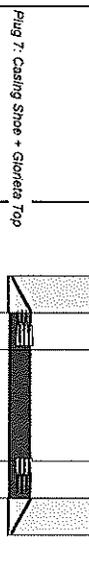
FORMATION TOPS									
Formation	Top	Formation	Top						
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Salado	1608	Wolfcamp	9301						
Yates	2742	Penn	10123						
Queen	3580	Strawn	11948						
San Andres	4417	Atoka	12230						
Glorieta	5986	Marlow LS	12693						
Tubb	7166								



Perforation Detail									
Formation	Top	Bottom	Treatment						
A San Andres	5,808	5,818	Acidize with 1000 gal 20% NEEF acid and 30 ballsealers.						
B Wolfcamp	9,949	9,870	Acidize with 1300 gal 15% NEEF acid						
C Penn	10,415	10,470	Acidize w/3000 gal 20% NEEF acid Pump 20k gal 20% Gelled NEEF						
Penn	10,750	10,764	Acidize with 3000 gal 20% NEEF acid						
Penn	11,052	11,106	Acidize with 3000 gal 20% NEEF acid						
D Atoka	12,604	12,628	17,055 g 40# X Link gel CO2 and 20500 # 2040 Intempop						



Plugs									
#	SX	Class	Top	Bottom	A	Notes	Tag		
1	25	H	9325	9551	226	Wolfcamp Top + DV Tool	N		
2	25	H	7828	7864	226	Abn Top	N		
3	25	C	6984	7216	252	Tubb Top	N		
4	25	C	5664	5916	252	Glorieta Top	N		
5	25	C	5398	5650	252	San Andres Perfs	N		
6	31	C	5090	5250	160	TOC	Y		
7	50	C	4350	4565	4350	Casing Shoe + San Andres Top	Y		
8	36	C	3478	3630	152	Queen Top	Y		
9	33	C	2632	2792	140	Yates Top	Y		
10	50	C	1448	1658	210	Salado Top + Rustler Top	Y		
11	26	C	349	459	110	Casing Shoe	Y		
12	15	C	0	60	60	Surface Plug	Y		



Perf D									
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Perf C									
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Perf B									
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Perf A									
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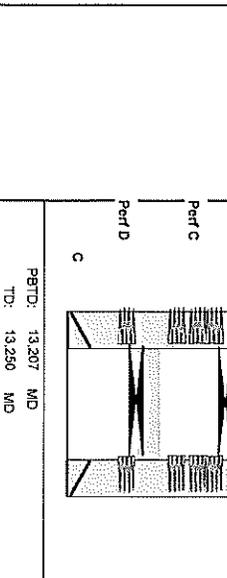
Perf D									
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Perf C									
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Perf B									
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Perf A									
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**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

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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 28510

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 28510
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kfortner	See attached conditions of approval	6/14/2021