

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Operator Copy

FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. NM 29414-A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

## 2. Name of Operator

E.G.L. Resources, Inc.

## 3a. Address

P.O. Box 10886  
Midland, TX 79702

## 3b. Phone No. (include area code)

(432) 687-6560

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No. Ridge Federal #1

## 9. API Well No.

30-015-24175

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

487' FNL &amp; 1,620' FWL, Sec. 23, Twp. 24-S, Rge. 24-E

## 10. Field and Pool or Exploratory Area

Baldrige Canyon Morrow

## 11. Country or Parish, State

Eddy County, New Mexico

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleting horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleting in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

## SUMMARY OF PROPOSED OPERATIONS:

- MIRU. ND wellhead. NU BOPE. Test tbg. Tally OOH w/ tbg and pkr.
- Set CIBP @ 10,620'. Set 30 sxs Cl. "H" cmt plug in 4-1/2" csg @ 10,620'. WOC & tag. (Morrow plug) @ 10364
- Circulate wellbore with 9 ppg mud.
- Set 25 sxs Cl. "H" cmt plug in 4-1/2" csg @ 9,862'. WOC and tag. (Strawn plug) 9775-9516 (Strawn Canyon)
- Perf csg @ 8,356'. Sqz w/ 60 sxs Cl. "H" cmt. WOC & tag. (Wolfcamp plug) 8176
- Perf csg @ 6,200'. Sqz w/ 45 sxs Cl. "C" cmt. WOC & tag. (Csg/Open hole plug) 5100 omit
- Perf csg @ 5,250'. Sqz w/ 45 sxs Cl. "C" cmt. WOC & tag. (Bone Springs plug) 3340
- Perf csg @ 3,480'. Sqz w/ 45 sxs Cl. "C" cmt. WOC & tag. (Delaware plug) 2908
- Perf csg @ 3,038'. Sqz w/ 40 sxs Cl. "C" cmt. WOC & tag. (Intermediate csg shoe plug). Call BLM Carlsbad Office to witness tag. @ 2908
- Perf csg @ 1,100'. Sqz w/ 35 sxs Cl. "C" cmt. (Csg plug) omit
- Perf csg @ 490'. Sqz w/ 30 sxs Cl. "C" cmt. WOC & tag. (Surface csg shoe plug) SQZ cmt to surface, critical Cave Karst
- Perf csg @ 60'. Sqz w/ 15 sxs Cl. "C" cmt leaving 60' cmt plug f/ 60' - surface. ND BOPE. omit
- Dig out cellar. Cut off casing strings at base of cellar. Install P&A marker as designated by BLM officer. Fill in cellar.
- Clean location and move off location.

ATTACHMENTS: A. DETAILED PROCEDURE OF PROPOSED OPERATIONS, B. WELLBORE DIAGRAM OF CURRENT STATUS, and  
C. WELLBORE DIAGRAM OF PROPOSED PLUGGED AND ABANDONED STATUS

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

## 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

John A. Langhoff

Petroleum Engineer

Title

Signature

*John A. Langhoff*

Date

06/30/2020

Accepted for record - NMOCD gc 11/1/2021

THE SPACE FOR FEDERAL OR STATE OFFICE USE

## Approved by

*James R. Amos*

Title

SPET

Date

7-31-20

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CFD

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)



**RIDGE FEDERAL NO. 1**  
**487' FNL & 1,620' FWL, SEC 23, TWP 24S, RGE 24E, EDDY CO., NM**  
**LAT: 32.2089996 LONG: -104.4718781**  
**API NO. 30-015-24175**

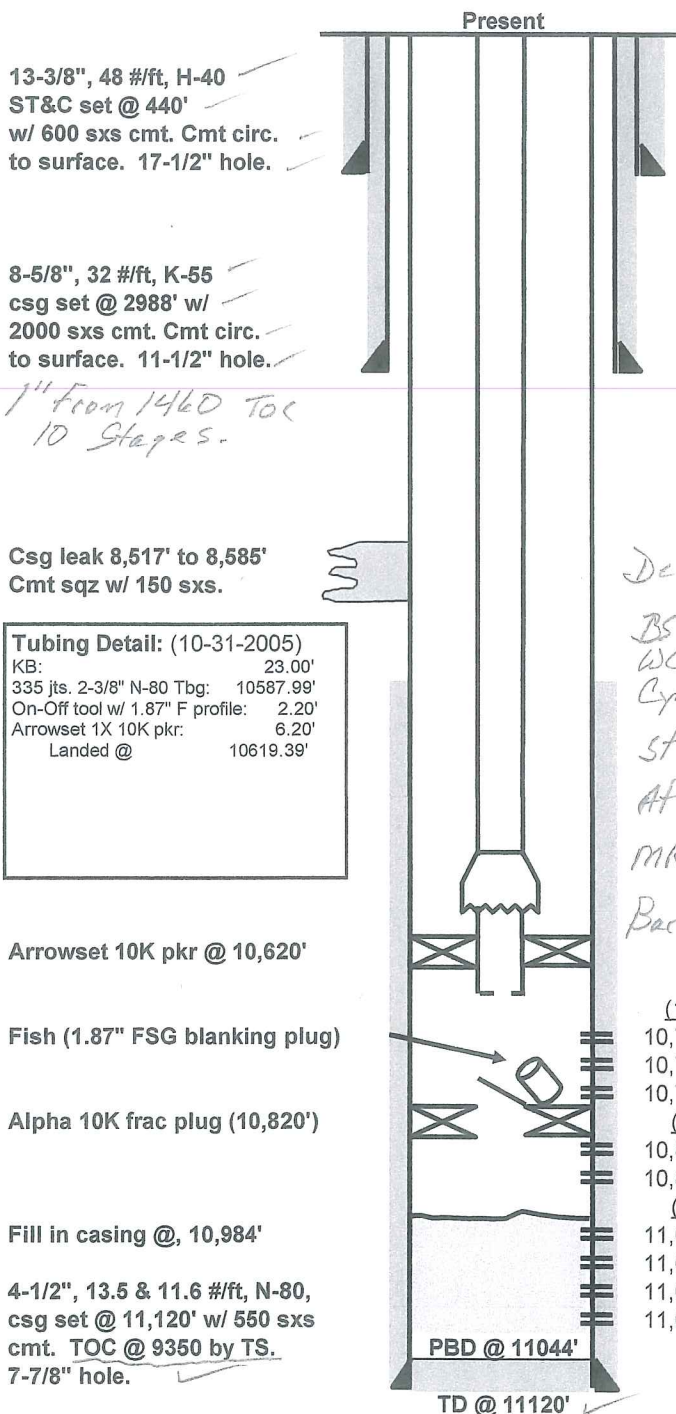
**PLUG AND ABANDONMENT PROPOSED PROCEDURE:**

1. Contact BLM office at 575-361-2822 at least 24 hours prior to commencing plugging operations.
2. MIRU. ND wellhead. Release 4-1/2" Arrowset 10K pkr set at 10,620'. NU BOPE. Set 1.87" plug in On-Off tool profile nipple. Load tubing and pressure test to 1,000 psi. Pull plug from profile nipple. POOH tallying tubing and lay down On-Off tool and Arrowset 10K pkr.
3. RIH w/ 4-1/2" CIBP on tubing and set at 10,620'. Release from CIBP and tag plug. Mix and pump 30 sxs Class "H" neat cement (16.4 ppg) to spot balanced plug on top of CIBP at 10,620'. Pull above cement top @ 10,259' (Top of Morrow lime @ 10,362'). WOC and tag. *10364*
4. Circulate wellbore with 9 ppg mud. Pressure test casing to 500 psi. PUH w/ tubing.
5. PUH w/ tbg to ~~9,862'~~ (Top of Strawn @ 9,812'). Set balanced cement plug in 4-1/2" csg with 25 sxs Class "H" neat cmt (16.4 ppg). Pull above cement top @ 9,561'. WOC & tag. *9775-9516 (stf cyn)*
6. Perforate 4-1/2" casing at 8,356' (Top of Wolfcamp @ 8,306'). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 60 sxs Class "H" neat cement (16.4 ppg). Pull above cmt top @ 8,156'. WOC and tag. *8174*
7. ~~Perforate 4-1/2" casing at 6,200' (Cmt plug behind uncemented casing isolation perms). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 45 sxs Class "C" neat cement (14.8 ppg). Pull above cmt top @ 6,011'. WOC and tag.~~
8. Perforate 4-1/2" casing at 5,250' (Top of Bone Springs @ 5,200'). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 45 sxs Class "C" neat cement (14.8 ppg). Pull above cmt top @ 5,061'. WOC and tag. *5100*
9. Perforate 4-1/2" casing at 3,480' (Top of Delaware @ 3,430'). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 45 sxs Class "C" neat cement (14.8 ppg). Pull above cmt top @ 3,291'. WOC and tag. *3340*
10. Perforate 4-1/2" casing at 3,038' (Intermediate csg shoe @ 2,988'). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 40 sxs Class "C" neat cement (14.8 ppg). Pull above cmt top @ 2,871'. WOC. Call BLM Carlsbad Field Office representative at (575) 361-2822 to witness tag of cement plug. *2908*
11. ~~Perforate 4-1/2" casing at 1,100' (Cmt plug behind uncemented casing isolation perms). Attempt to break circulation with 500 psi or less. Squeeze cement perms with 35 sxs Class "C" neat cement (14.8 ppg). Pull above cmt top @ 955'. PUH w/ tubing.~~
12. Perforate 4-1/2" casing at 490' (Surface csg shoe isolation perms). Attempt to break circulation with 500 psi or less. Squeeze cement perms with ~~30 sxs~~ Class "C" neat cement (14.8 ppg). Pull above cmt top @ ~~366'~~. WOC and tag. *502 cmt to Surface, Critical Cave Karst*
13. ~~Perforate 4-1/2" casing at 60'. Mix and pump 15 sxs Class "C" neat cement (14.8 ppg) to circulate cement from 60' to surface. ND BOPE. Wash up equipment.~~
14. Surface Cap. All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least 1/4 inch

thick and welded in place, or a 4-inch pipe, 10-feet in length, 4 feet above ground and embedded in cement as specified by the authorized officer. The well location and identity shall be permanently inscribed. A weep hole shall be left if a metal plate is welded in place.

15. The cellar shall be filled with suitable material as specified by the authorized officer and the surface restored in accordance with the instructions of the authorized officer.



**WELL DATA SHEET****FIELD:** Baldridge Canyon**WELL NAME:** Ridge Federal No. 1**FORMATION:** Morrow**LOC:** 487' FNL & 1620' FWL  
**SEC:** 23 TWP: 24S RGE: 24E**COUNTY:** EDDY  
**STATE:** NM**GL:** 4639'  
**KB to GL:** 23.0'**CURRENT STATUS:** Producer  
**API NO:** 30-015-24175**Date Completed:** 4/26/1983**Initial Production:** 0 BOPD / 0 BWPD / 1634 MCFGPD  
flowing with 2300 PSIG FTP on 12/64" choke.**Initial Formation:** Morrow **From:** 10842' **To:** 11018'**Completion Data:**

MIRU completion unit. RIH w/ 2-3/8" tbg. Circ. w/ 2% KCl wtr. Log &amp; selectively perf 10,842' to 11,018'. Run pkr. Spot 7-1/2% MS acid across perfs. PUH &amp; set pkr. Test csg to 1500 psig. Acidize w/ 3000 gal. 7-1/2% MS acid &amp; 500 scf/bbl Nitrogen. Balled out twice during job. Flow well back to clean up. RD MOL. Place well on production.

**Wellbore History:**

05/96 RU swab unit. IFL @ 3600'. Swb to 6800'. Rec. 39 bbls w/ some drlg mud. RD swab unit. MIRU rig. POOH w/ pkr. Found tbg leak. Hydrotest in finding 3 more holes. Set pkr @ 10,771'. Swb well down. 48 hr SIP = 900 psig. Place well online. Did not sell gas. Swb well dry in 3 runs. RD rig & MOL.

02/98 MIRU. Load tbg w/ 2% KCl. POOH w/ pkr LD tbg. RIH w/ RBP & pkr PU new tbg. Isolate hole in csg 8,517' to 8,585' w/ circ up surf csg. Cmt sqz leak w/ 150 sxs. Drl out cmt. PU frac string & pkr testing in hole to 12000 psig. Set pkr. Frac w/ 21,000 lbs. 20/40 econoprop using 70% quality CO2 40% methanol. Screened out w/ 7,600 lbs. proppant in formation. Flow back to pit. Clean out w/ coiled tbg to PBTD. Attempt to set plug in profile nipple but it would not set. Kill well w/ 3% KCl wtr. Pull pkr LD frac string. Run pkr & 2-3/8" tbg. Swb well in & PWOP.

09/99 RU wireline to add perfs through tbg. Found pkr @ 10,720'. Perf 10,772'-82' (41 holes) and 10,726'-36' (41 holes). RD wireline.

10/05 MIRU. BWO. dead. Load tbg & csg. POOH w/ pkr. RIH w/ bit, tag bridge @ 10,954' (fell thru) & tag solid @ 10,984'. Did not clean out. POOH w/ bit. Wireline set 10K frac plug @ 10,820'. Add perfs 10,706'-24', re-perf 10,726'-36' & 10,772'-82'. Hydrotest in w/ 2-7/8" P-110 frac string. Set pkr @ 10,620'. NU 15K frac tree. Frac well w/ 70Q CO2 Clearfrac fluid & 20/40 Bauxite placing 15,469# proppant in formation before hard screen out. Avg rate & pressure = 8.3 BPM & 3,743 psi. Max rate & pressure 9.6 BPM & 11,579 psi. Pressure depleted quickly to formation following screen out. Flow well back for clean up. Set blanking plug in profile nipple. LD frac string. RIH w/ prod tbg & latch onto pkr. Attempt to fish blanking plug but it was missing. Swab and flow well back. MOL.

**Additional Data:**

**DST #1 - 9840'-9910'** (Strawn sand). Op 30", SI 1', Op 2.5', & SI 5.5'. GTS 29". SFP stabilized at 60 psi on 1/2" ck - 470 MCFPD. Rec. 834' GCDM. SC/R @ 2900# was 49 CFG + 250 cc GCDM. 30" FP 232#, 1' ISIP 3947#, 2.5' FP 328#, and 5.5' FSIP 4002#.

**DST #2 - 10560'-10660'** (Upper Morrow). Op 30", SI 1', Op 1', & SI 2.5'. Rec. 750' GCDM. SC/R @ 35# was 0.175 CFG + 750 cc DM. 30" FP 194#. 1' ISIP 555#, 1' FP 194#, 2.5' FSIP 1750#.

**DST #3 - 10680'-10810'**. Op 30", SI 1', Op 1.5', & SI 4'. GTS 7" on 1/4" ck. SFP 1075# at end of preflow - 1,650 MCFPD. SI 1'. Open on 1/2" ck. SFP stabilized @ 800# after 67" of flow - 5,104 MCFPD. Rec. 620' HGCDM. SC/R @ 1700# was 5 CFG + trace DM. 30" FP 1066#. 1' ISIP 4053#, 1.5' FP 1777#, 4' FSIP 4053#.

**DST #4 - 10824'-10891'**. Op 30", SI 1', Op 198", & SI 396". GTS 30" on 1/4" ck. Reopen on 1/4" ck. SFP 70# after 1' - 125 MCFPD. SFP 180# after 2' - 287 MCFPD. SFP 270# after 3' - 420 MCFPD. SFP 285# after 198" - 442 MCFPD. Rec. 1586' GCDM. SC/R @ 630# was 6 CFG + 800 cc GCDM. 30" FP 139#, 1' ISIP 4081#, 198" FP 639#, and 396" FSIP 4081#.

*Del 2950*  
*BS-5200*  
*WC-9100*  
*Cyr-9566*  
*ST 9725*  
*AT 10074*  
*MR 10414*  
*Bar 11028*

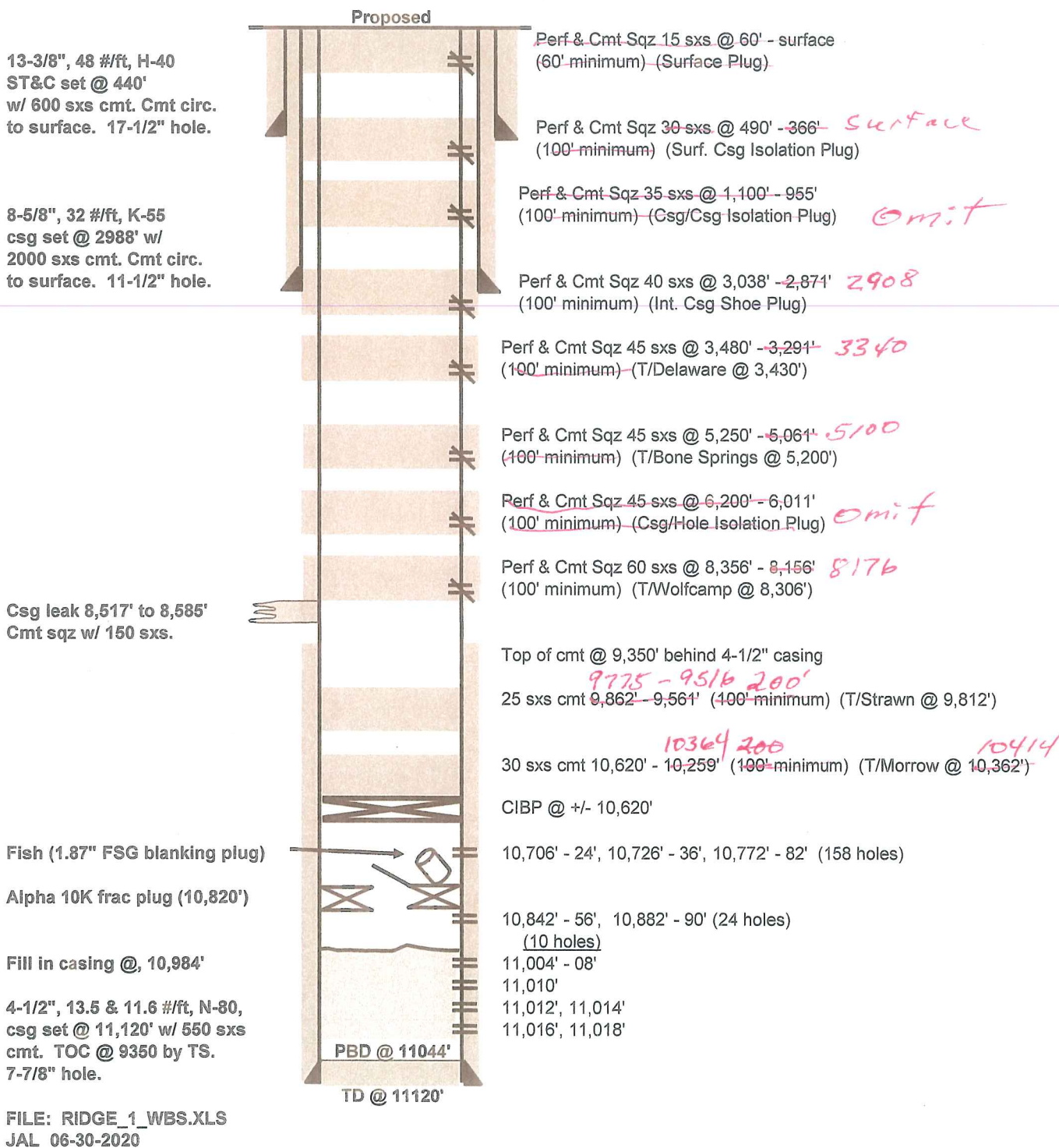
**Perfs**  
**(158 holes)**  
10,706' - 24' ✓  
10,726' - 36' ✓  
10,772' - 82' ✓  
**(24 holes)**  
10,842' - 56' ✓  
10,882' - 90' ✓  
**(10 holes)**  
11,004' - 08' ✓  
11,010' ✓  
11,012', 11,014' ✓  
11,016', 11,018' ✓

WELL DATA SHEET

FIELD: Baldrige Canyon

WELL NAME: Ridge Federal No. 1

FORMATION: Morrow

LOC: 487' FNL & 1620' FWL  
SEC: 23 TWP: 24S RGE: 24ECOUNTY: EDDY  
STATE: NMGL: 4639'  
KB to GL: 23.0'PROPOSED STATUS: P&A'D  
API NO: 30-015-24175



BUREAU OF LAND MANAGEMENT  
Carlsbad Field Office  
620 East Greene Street  
Carlsbad, New Mexico 88220  
575-234-5972

Permanent Abandonment of Federal Wells  
Conditions of Approval (LPC Habitat)

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within ninety (90) days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

2. Notification: Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.

3. Blowout Preventers: A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. Mud Requirement: Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum nine (9) pounds per gallon.

5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. **Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

6. Below Ground Level Cap (Lesser Prairie-Chicken Habitat): All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). **The BLM is to be notified a minimum of 4 hours prior to the wellhead being cut off to verify that cement is to surface in the casing and all annuluses. Wellhead cut off shall commence within ten (10) calendar days of the well being plugged. If the cut off cannot be done by the 10<sup>th</sup> day, the BLM is to be contacted with justification to receive an extension for completing the cut off.** Upon the plugging and subsequent abandonment of wells that are located in lesser prairie-chicken habitat, the casings shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). The well bore shall then be covered with a metal plate at least ¼ inch thick and welded in place. A weep hole shall be left in the plate and/or casing.

NMOCD also requires the operator to notify NMOCD when this type of dry hole marker is used. This can be done on the subsequent report of abandonment which is submitted to the BLM after the well is plugged. State that a below ground cap was installed as required in the COA's from the BLM.

7. Subsequent Plugging Reporting: Within 30 days after plugging work is completed, file one original and three copies of the Subsequent Report of Abandonment, Form 3160-5 to BLM. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date well was plugged.**

8. Trash: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

Following the submission and approval of the Subsequent Report of Abandonment, surface restoration will be required. See attached reclamation objectives.

**Timing Limitation Stipulation/ Condition of Approval for Lesser Prairie-Chicken:**

From March 1<sup>st</sup> through June 15<sup>th</sup> annually, abandonment activities will be allowed except between the hours from 3:00 am and 9:00 am. Normal vehicle use on existing roads will not be restricted

**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**

CONDITIONS

Action 58859

**CONDITIONS**

Operator: E G L RESOURCES INC P.O. Box 10886 Midland, TX 79702	OGRID: 173413
	Action Number: 58859
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
gcordero	None	11/1/2021