

Submit 1 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

Rec'd 05/29/2020 - NMOCD

Form C-103
Revised July 18, 2013

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

WELL API NO. 25-29934 30-015-29934
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name MARALO STATE
8. Well Number #1
9. OGRID Number 21355
10. Pool name or Wildcat EUNICE MONUMENT - GRAYBURG

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
SOUTHWEST ROYALTIES, INC.

3. Address of Operator
P.O. BOX 53570; MIDLAND, TEXAS 79710-3570

4. Well Location
Unit Letter **M** : **330** feet from the **SOUTH** line and **660** feet from the **WEST** line
Section **28** Township **18S** Range **37E** NMPM **LEA** County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3713' 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: ☐

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.

NOTICE OF INTENT TO PLUG AND ABANDON - 24 HRS NOTICE TO HOBBS NMOCD REQUIRED

5-1/2" CSG TOC @ 0' (CIRC)
EXISTING CIBP's SET @ 4100' & 4340'

POH 2-3/8" TBG, SET CIBP @ 3800' W/ 25 SX CLASS C CMT, WOC 4 HRS & TAG, TEST TO 500 PSI, CMT PLUG #1 @ 2500-2700' - SQUEEZE 25 SX CLASS C CMT, WOC 4 HRS & TAG, CMT PLUG #2 @ 1400-1600' - SQUEEZE 25 SX CLASS C CMT, WOC 4 HRS & TAG, CMT PLUG #3 @ 300-500' - SQUEEZE 25 SX CLASS C CMT, WOC 4 HRS & TAG, SURFACE CMT PLUG 0-30' - CIRCULATE CLASS C CMT TO SURFACE, NO EARTHEN PIT, OPEN/STEEL PIT WILL BE USED, CONTENTS DISPOSED OF AT APPROVED DISPOSAL SITE, REMOVE WELL HEAD, INSTALL BELOW GROUND DRY HOLE MARKER

LOCATION REMEDIATION TO FOLLOW

CIRC MCF
**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 *LL* TITLE **REGULATORY ANALYST** DATE **05/27/2020**

Type or print name **LINDSAY LIVESAY** E-mail address: **llivesay@swrpermian.com** PHONE: **(432) 207-3054**
For State Use Only

APPROVED BY: *Kerry Fork* TITLE **CO A** DATE **6-18-20**
Conditions of Approval (if any):

Wellbore Schematic (From Surface to TD)

Printed: 5/27/2020

Page 1

Maralo State # 1

Well ID: 110227-001

API # 30-025-29934

0

1,000

2,000

3,000

4,000

5,000

330' FSL & 660' FWL

GL Elev: 3,713.00

KOP:

Section 28, Township 18S, Range 37E

EOC:

County, State: Lea, NM

Fill Depth:

Aux ID:

PBTD: 4,100.00

'KB' correction: ; All Depths Corr To:

TD: 4,610.00

BOP:

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	415.00	7/15/1987
7.8750	415.00	4,600.00	7/27/1987

Surface Casing

Date Ran: 7/15/1987

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing		8.6250	32.00	K55	415.00	0.00	415.00

Production Casing String 1

Date Ran: 7/27/1987

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing		5.5000	15.50	K55	4,600.00	0.00	4,600.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	415.00	8.625	12.250	Circ	10 - Lead	280	CLASS C	
0.00	4,600.00	5.500	7.875	Circ	20 - Lead	250	35/65 POZ	
					21 - Tail	800	50/50 POZ	

Zone and Perfs

Yates-7 Rvrs-Queen

Comments / Completion Summary

3938'-3949': Acidized w/ 500 gals 15% HCl Acid, Frac w/ 21,000 gals GW + 47,000# 16/30 Sand

4136'-4244': Acidized w/ 2000 gals 20% HCl Acid

4358'-4373': Acidized w/ 1500 gals 15% HCl Acid

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
3,938.00	3,949.00	Grayburg	A	9/8/1987			
4,136.00	4,244.00		PA		8/22/1987		
4,358.00	4,373.00		PA		8/10/1987		

Wellbore Plugs and Junk

Top	Bottom	Type	Diameter	Solid	Date
4,050.00	4,100.00	CIBP	5.500	Yes	8/22/1987
4,305.00	4,340.00	CIBP	5.500	Yes	8/10/1987

Tubing String 1

Date Ran: 10/24/2011

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	1	2.8750			6.00	0.00	6.00
Tubing	2	2.8750			20.00	6.00	26.00
Tubing	127	2.8750			3,895.00	26.00	3,921.00
Seat Nipple	1	2.8750			1.10	3,921.00	3,922.10
Perf Nipple	1	2.8750			4.00	3,922.10	3,926.10
Mud Anchor	1	2.8750			26.00	3,926.10	3,952.10

Rod String 1

Date Ran: 10/24/2011

Description	#	Diameter	Rod Box	Grade	Length	Top At	Btm At
Polish Rod Line	1	1.5000			8.00	0.00	8.00
Polish Rod	1	1.2500			20.00	8.00	28.00
Pony Rods	1	0.8750			4.00	28.00	32.00
Rods	1	0.8750			8.00	32.00	40.00
Rods	155	0.8750			3,875.00	40.00	3,915.00
Rods	1	0.8750			4.00	3,915.00	3,919.00
Rods	1	0.7500			1.00	3,919.00	3,920.00

**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 REQUIREMENTS

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