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

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

Form C-103
Revised July 18, 2013

WELL API NO.
30-005-60382

5. Indicate Type of Lease
STATE ☐ FEE ☐

6. State Oil & Gas Lease No.
NMNM -0284972A

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.)

7. Lease Name or Unit Agreement Name
South Lucky Lake Queen

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number 2

2. Name of Operator Santo Petroleum, LLC for lessee parties

9. OGRID Number 371496

3. Address of Operator P.O. Box 1020, Artesia, NM 88211

10. Pool name or Wildcat
South Lucky Lake Queen

4. Well Location
Unit Letter D : 330 feet from the North line and 330 feet from the west line
Section 27 Township 15S Range 29E NMPM Chaves County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3835' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

Notify OCD 24 hrs. prior to any work done

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.

Plug and abandon well by the following:

Removing pumping unit, sucker rods, and tubing from the well.
Set CIBP above existing perforations (1760'-1770') at 1750'.
Dump 35' of cement on top of CIBP and load well with brine water. WOC & Tag
~~Set balanced plug at top~~ of Yates Formation from 1100' to 950' MD (top of Yates at 1024') Perf @ 1080' & sqz cement
Perforate 5-1/2" casing at 350' and circulate cement to surface leaving 5-1/2" casing full. WOC &tag at 950'
Cut off 5-1/2" and 8-5/8" casing off 4' below ground level – weld on cap.
Clean and clear location of all debris.

Spud Date: Spud 6-23-1976

Rig Release Date: RR 7-30-1976

****SEE ATTACHED COA's****

Must be plugged by 11/29/2022

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

SIGNATURE _____ TITLE VP, Operations DATE 10/7/2021

Type or print name Lelan J Anders E-mail address: LAnders@SantoPetroleum.com PHONE: 713-600-7502

For State Use Only

APPROVED BY: _____ TITLE Staff Manager DATE 11/29/2021

Conditions of Approval (if any):

CONDITIONS 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 II at (575)-748-1283 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 (Page 3 & 4), 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, **WOC 4 hours and tag, this plug will be 50' 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, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIRMENTS

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 ¼" 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

R-111-P Area

T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23. Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec 10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec 24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32 Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec 23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit A-H. Sec 36 Unit B-G.

T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P. Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P. Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec 23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

T 21S – R 30E

Sec 1 – Sec 36

T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E

Sec 36 Unit A,H,I,P.

T 22S – R 29E

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

T 22S – R 30E

Sec 1 – Sec 36

T 22S – R 31E

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25 Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

T 23S – R 28E

Sec 1 Unit A

T 23S – R 29E

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33 Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

T 23S – R 30E

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec 33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

T 23S – R 31E

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec 34. Sec 35 Unit C,D,E.

T 24S – R 29E

Sec 2 Unit A, B, C, D. Sec 3 Unit A

T 24S – R 30E

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11. Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

T 24S – R 31E

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec 35 Unit E – P. Sec 36 Unit E,K,L,M,N.

T 25S – R 31E

Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

Santo Petroleum, LLC for Lessee Parties
Section 27, 15S 29E
Chaves County, NM
API: # 30-005-60382
AFE # 00349

ENGINEERING CONTACT:
Lelan J Anders
Mobile: (281) 908-1752
Email: LAnders@SantoPetroleum.com

PROPOSED OPERATION:
Plug and Abandon well and restore surface.

DIRECTIONS:
Latitude: 32.993087°, Longitude: -104.023698°.

WELLHEAD DATA:

- Manufacturer: Unknown
- A Section: 8-5/8" Larkin Head
- B-section: 5-1/2" Larkin Head
- Tree – 2" pumping tee

SAFETY:
Santo's view on safety as employees and contractors is for everyone to go home safely every day. To this end, a safety meeting involving all who are on location should be held at the beginning of each day and prior to any significant activity during the course of this operation. **It is the responsibility of the wellsite supervisor to lead these safety meetings.** Document attendance and retain the documentation for the permanent well file.

While there are multiple aspects to the safety, one key point that should be made at each safety meeting is Stop Work Authority (SWA). SWA grants all persons on a well site, facility, location, or property the **Right, Obligation, Authority, and Responsibility** to stop any work or action that are considered unsafe to personnel, equipment, or that if continued may damage the environment. This is a key building block to safe operations and must be conveyed to all personnel on location.

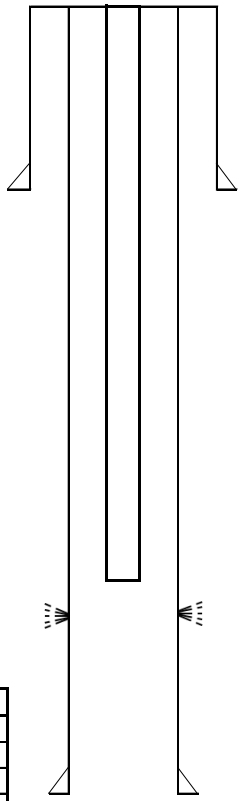
CURRENT WELLBORE DIAGRAM/CASING DATA:

API #	30-005-60382	**South Lucky Lake Queen Unit 2X**	County, ST	Chaves County, NM
Operator	Santo Petroleum, LLC		Sec-Twn-Rng	D-27-15S-29E
Field	[41320] Lucky Lake		Footage	330 FNL & 330 FWL
Spud Date	6/23/1976		Survey	32.993097°, -104.023690° NAD83

Formation (MD)	
Yates	1024
Seven Rivers	1249
Bowers	1560
Queen	1756

RKB	
GL	3835'
Surface Casing	
Hole Size	11
TOC	
Method	
Csg Depth	303'
Size	8-5/8"
Weight	
Grade	
Connections	
Cement	100 sx

Intermediate Casing 1	
Hole Size	
TOC	
Method	
Csg Depth	
Size	
Weight	
Grade	
Connections	
Cement	



Tubing in well - 2-3/8" tubing
Tubing run to 1742'

Perforations:
1760' - 1770'

Production Casing	
Hole Size	8"
TOC	
Method	
Csg Depth	1804'
Size	5-1/2"
Weight	
Grade	
Connections	
Cement	150 sx

Details

Last Update	10/7/2021
By	LJA

PROCEDURE:

1. MIRU Work Over Rig
    a. Removing pumping unit, sucker rods, and tubing from the well.

2. MIRU Wire Line Unit
    a. Set CIBP above existing perforations (1760'-1770') at 1750'.
    b. Dump 35' of cement on top of CIBP and load well with brine water.

3. RIH with 2-3/8" tubing from well.
    a. Set balanced plug at top of Yates Formation from 1100' to 950' MD (top of Yates at 1024')

4. MIRU Wire Line Unit
    a. Perforate 5-1/2" casing at 350'.

5. MIRU Pump truck
    a. Circulate cement to surface leaving 5-1/2" casing full of cement (surface to surface).

6. Cut off 5-1/2" and 8-5/8" casing off 4' below ground level – weld on cap.

7. Clean and clear location of all debris
    a. Restore grade to natural grade of ground
    b. Disk and seed location

API #	30-005-60382
Operator	Santo Petroleum, LLC
Field	[41320] Lucky Lake
Spud Date	6/23/1976

South Lucky Lake Queen Unit 2X

County, ST	Chaves County, NM
Sec-Twn-Rng	D-27-15S-29E
Footage	330 FNL & 330 FWL
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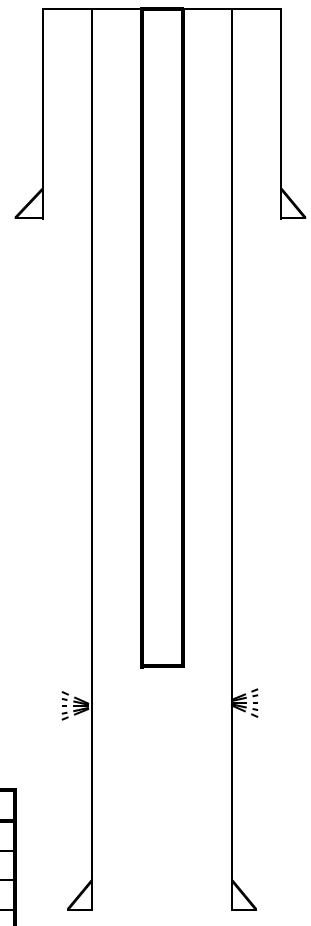
Formation (MD)	
Yates	1024
Seven Rivers	1249
Bowers	1560
Queen	1756

RKB	
GL	3835'
Surface Casing	
Hole Size	11
TOC	
Method	
Csg Depth	303'
Size	8-5/8"
Weight	
Grade	
Connections	
Cement	100 sx

Intermediate Casing 1	
Hole Size	
TOC	
Method	
Csg Depth	
Size	
Weight	
Grade	
Connections	
Cement	



Tubing in well - 2-3/8" tubing
Tubing run to 1742'

Perforations:
1760' - 1770'

Production Casing	
Hole Size	8"
TOC	
Method	
Csg Depth	1804'
Size	5-1/2"
Weight	
Grade	
Connections	
Cement	150 sx

Details

Last Update	10/7/2021
By	LJA

API #	30-005-60382
Operator	Santo Petroleum, LLC
Field	[41320] Lucky Lake
Spud Date	6/23/1976

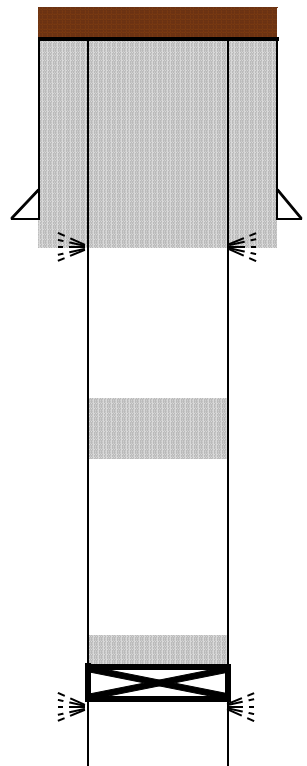
South Lucky Lake Queen Unit 2X

County, ST	Chaves County, NM
Sec-Twn-Rng	D-27-15S-29E
Footage	330 FNL & 330 FWL
Survey	32.993097°, -104.023690° NAD83

Formation (MD)	
Yates	1024
Seven Rivers	1249
Bowers	1560
Queen	1756

RKB	
GL	3835'
Surface Casing	
Hole Size	11
TOC	
Method	
Csg Depth	303'
Size	8-5/8"
Weight	
Grade	
Connections	
Cement	100 sx

Intermediate Casing 1	
Hole Size	
TOC	
Method	
Csg Depth	
Size	
Weight	
Grade	
Connections	
Cement	



Tubing in well - 2-3/8" tubing
Tubing run to 1742'

Perforate 5-1/2" at 350'
Circulate Cement surface to surface
Cut off casing 4' below grade - install cap
Backfill over well - restore grade and seed

Balanced Plug :
1100' - 950'

Cement 1715' - 1750'
CIBP @ 1750'

Perforations:
1760' - 1770'

Production Casing	
Hole Size	8"
TOC	
Method	
Csg Depth	1804'
Size	5-1/2"
Weight	
Grade	
Connections	
Cement	150 sx

Details

Last Update	10/7/2021
By	LJA

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 46993

CONDITIONS

Operator:	OGRID:
SANTO PETROLEUM LLC P.O. Box 1020 Artesia, NM 88210	371496
	Action Number: 46993
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	11/29/2021