BEFORE THE OIL CONSERVATION DIVISION EXAMINER HEARING AUGUST 05, 2021

CASE NO. 22089

TACO CAT 27-34 FED COM #11H WELLS

Lea County, New Mexico



STATE OF NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 22089

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

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APPLICATION

OXY USA Inc. ("OXY" or "Applicant") (OGRID No. 16696) through its undersigned attorneys, hereby files this application with the Oil Conservation Division for an order authorizing OXY to engage in a closed loop gas capture injection pilot project in the Bone Spring formation ("pilot project"). In support of this application, OXY states:

PROJECT OVERVIEW

1. OXY proposes to create a 320-acre, more or less, project area for this pilot project consisting of the W/2 W/2 of Sections 27 and 34, Township 22 South, Range 32 East, NMPM, Lea County, New Mexico. *See* Exhibit A at 7. The proposed project area is part of a larger area referred to as the Tanks area.

2. Within the proposed project area, OXY seeks authority to utilize the following producing well to occasionally inject produced gas into the Bone Spring formation [Red Tank; Bone Spring Pool (Pool Code 51683)]:

• The **Taco Cat 27-34 Federal Com #11H well** (API No. 30-025-44933), with a surface location 260 feet FNL and 855 feet FWL (Unit D) in Section 27, and a bottom hole location 20 feet FSL and 998 feet FWL (Unit M) in Section 34.

3. Injection along the horizontal portion of the wellbore will be at the following approximate total vertical depths: Santa Fe, New Mexico Exhibit No. A • The Taco Cat 27-34 Federal Com #11H well: between 9,339 feet and 9,517 feet.

4. A map depicting the pipeline that ties the well proposed for the pilot project into the gathering system and the affected compressor station is included in the attached *Exhibit A* at pages 7-8.

WELL DATA

5. Information on the well data, including well diagrams and well construction, casing, tubing, packers, cement, perforations, and other details the proposed injection well are included in the attached *Exhibit A* at pages 33-34.

6. The top of the Bone Spring formation in this area is at approximately 8,655 feet total vertical depth and extends down to the top of the Wolfcamp formation at approximately 11,830 feet total vertical depth. *See Exhibit A* at 80.

7. The current average surface pressures under normal operations for the proposed injection well is approximately 670 psi. *See Exhibit A* at 39. The maximum achievable surface pressure (MASP) for the well in the pilot project will be 1,200 psi. *Id.*

8. OXY plans to monitor injection and operational parameters for the pilot project using an automated supervisory control and data acquisition (SCADA) system with pre-set alarms and automatic shut-in safety valves that will prevent injection pressures from exceeding the MASP. *See Exhibit A* at 49-51.

9. The proposed maximum achievable surface pressure will not exert pressure at the top perforation in the wellbore of the injection well with a full fluid column of reservoir brine water in excess of 90% of the burst pressure for the production casing or production liner. *See Exhibit A* at 39. In addition, the proposed maximum achievable surface pressure will not exceed 0.14 psi per foot as measured at the top of the uppermost perforation in the injection well and will

not exert pressure at the topmost perforation in excess of 90% of the formation parting pressure. *See Exhibit A* at 39.

10. Cement bond $logs^1$ demonstrate the placement of cement in the well proposed for this pilot project and that there is a good and sufficient cement bond with the production casing and the tie-in of the production casing with the next prior casing in the well. *See Exhibit A* at 35-38.

11. The well proposed for injection in the pilot project has previously demonstrated mechanical integrity at a pressure of 9,800 psi for 30 minutes. *See Exhibit A* at 41. OXY will undertake new tests to demonstrate mechanical integrity for this well as a condition of approval prior to commencing injection operations.

GEOLOGY AND RESERVOIR

12. Data and a geologic analysis confirming that the Bone Spring formation is suitable for the proposed pilot project is included in *Exhibit A* at pages 80-86. A general characterization of the geology of the Bone Spring formation and its suitability for the proposed injection, including identification of confining layers and their ability to prevent vertical movement of the injected gas is included in the analysis. *Id*.

13. Zones that are productive of oil and gas are located in the overlying Avalon Sand interval of the Bone Spring formation and the Brushy Canyon formation, and in the deeper First Bone Spring Sand interval of the Bone Spring Formation. *See Exhibit A* at 80.

14. Reservoir modeling indicates anticipated horizontal movement of injected gas will be approximately 100 feet or less from the injection wellbore within the Bone Spring formation. *See Exhibit A* at 93.

¹ Electronic version of the cement bond logs will be submitted to the Division by email.

15. The proposed average injection rate is 1.8 MMSCFD with a maximum injection rate of 2.0 MMSCFD during injection. *See Exhibit A* at 39.

16. OXY has prepared calculations estimating the stimulated reservoir volume based on supporting empirical data and a reservoir model to evaluate potential effects on wells adjacent to the pilot project area. *See Exhibit A* at 88-97. OXY's analysis concludes that there will be no change in the oil recovery from its proposed injection well or from any of the offsetting wells. *See id.* at 95.

17. Similarly, OXY has prepared an analysis of the potential effects on the reservoir caused by the proposed injection, including consideration of commingling fluids. *Exhibit A* at 42-48 and 88-98. OXY's analysis concludes that there will be no adverse effect on the reservoir as a result of the injection. *Id.* at 98.

18. OXY has also prepared an analysis evaluating the expected gas storage capacity for the proposed injection well relative to the gas injection volumes for an injection scenario lasting twenty days. *See* Exhibit A at 96. The analysis confirms that whether the capacity is estimated based on the fracture volume gas equivalent or the total gas equivalent volumes produced from the proposed injection zone, the anticipated gas injection volumes will be well below the estimated volume capacity within the project area.

19. The source of gas for injection will be from OXY's wells producing in the Bone Spring and Wolfcamp formations within OXY's Taco Cat wells that are identified in the list of wells in *Exhibit A* at page 43. OXY's Taco Cat well is operated by OXY and OXY holds 100% of the working interest in the well.

20. OXY has prepared an analysis of the composition of the source gas for injection and a corrosion prevention plan. *See Exhibit A* at 42-48.

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21. OXY has examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water. *See Exhibit A* at 86. OXY has also examined the available geologic and engineering data and determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the pilot project. *See Exhibit A* at 98.

AREA OF REVIEW

22. OXY has prepared maps depicting the location of the proposed injection well, the location and lateral of every well within a two-mile radius, leases within two miles, and the half-mile area of review. *See Exhibit A* at 53-54, 56.

23. A tabulation of data for wells that penetrate the proposed injection intervals or the confining layer within the area of review is included in *Exhibit A* at pages 58-59, along with wellbore schematics for wells that are plugged and abandoned or temporarily abandoned. *See Exhibit A* at 62-65.

OPERATIONS AND SAFETY

24. OXY will monitor the injection well's instantaneous rates and daily injection volumes, along with pressure in the well tubing, casing, and bradenheads using an automated supervisory control and data acquisition (SCADA) system. *See Exhibit A* at 49-51. The injection well will also include automated safety devices, including automatic shut-in valves among other operational safety measures. *Id.* at 40. OXY will also monitor and track various operational parameters at the pilot project's central tank battery and central gas lift compressor. *See Exhibit A* at 50-51.

25. A copy of this application will be provided by certified mail to the surface owner on which each injection well identified herein is located, and to each leasehold operator and other

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affected persons within any tract wholly or partially contained within one-half mile of the completed interval of the wellbore for each of the proposed injection wells. A copy of the affected parties subject to notice is included in *Exhibit A* at pages 103-105, along with a map and list identifying each tract and affected persons given notice. *See Exhibit A* at 100-101.

26. Approval of this pilot project is in the best interests of conservation, the prevention of waste, and the protection of correlative rights.

WHEREFORE, OXY USA Inc. requests that this Application be set for hearing before an Examiner of the Oil Conservation Division on August 5, 2021, and that after notice and hearing this Application be approved.

Respectfully submitted,

HOLLAND & HART LLP

By:

Michael H. Feldewert Adam G. Rankin Julia Broggi Kaitlyn A. Luck Post Office Box 2208 Santa Fe, NM 87504 505-998-4421 505-983-6043 Facsimile mfeldewert@hollandhart.com agrankin@hollandhart.com jbroggi@hollandhart.com

ATTORNEYS FOR OXY USA INC.

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New Mexico Closed Loop Gas Capture (CLGC) Oxy- Tanks

Exhibit A



OXY

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Overview EXHIBIT A

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General Project Description: Closed Loop Gas Capture Project Oxy- Tanks

About the Tanks Area

There are 2 gas systems in the Tanks area. One system is the Avogato 30-31 State lease and the other is the Taco Cat 27-31 Federal Com lease.

Summary of Requested Relief

- Authority to operate a closed loop gas capture project ("CLGC") consisting of four wells to prevent waste and reduce adverse impacts from temporary interruptions of gas pipeline capacity.
- 2. A 5-year duration of such authority, with renewal by administrative approval conditioned upon compliance with the stipulations contained in the initial Order and a successful MIT test.
- 3. An exception for the 100-foot packer setting depth requirement applied to vertical injection wells.

Overview

Oxy USA Inc. (Oxy) is proposing a Closed Loop Gas Capture (CLGC) project. On occasion, third-party gas purchasers reduce takeaway capacity and cause interruptions that result in flaring or shut in production. During these interruptions, Oxy will utilize CLGC wells to capture gas and reduce flaring.

During the previous 12 months, Oxy has experienced 39 interruptions where the third-party gas purchaser temporarily reduced takeaway capacity from this location, resulting in the flaring of at least 25 MMSCF of gas or the immediate shut-in of at least 800 BOE. Approval of this application will significantly reduce such flaring or shut-in production in the future.

Operations During Interruption	Operations During Interruption With CLGC System	Benefits
 Flare gas Shut in production 	 Store gas Continue production No additional surface disturbances 	 Reduce greenhouse gas emissions Improve economic recovery of mineral resources including gas that might have been flared Utilize existing infrastructure

Proposed Operations

Oxy has an extensive high-pressure gas system in the Tanks area. It is used for gas lift operations, a type of artificial lift. Oxy plans to utilize the same system for gas storage operations. Very minimal equipment on surface will need to be installed prior to starting storage operations.

DCP is the third-party gas purchaser for the Tanks area. If an interruption occurs, Oxy will divert gas from the takeaway line back into the gas lift injection system. Gas will flow from the Central Gas Lift (CGL) Compressor Station through the flow meter, control valve, safety shutdown valve, wellhead and into the wellbore for storage. Gas will be injected down the casing/tubing annulus in these wells.

Simultaneously, the proposed CLGC well will be shut in by closing the electric choke upstream of the production flowline. After the interruption has ended, the electric choke will open and the CLGC well resumes production.

Wells

There are 4 wells proposed in this application.

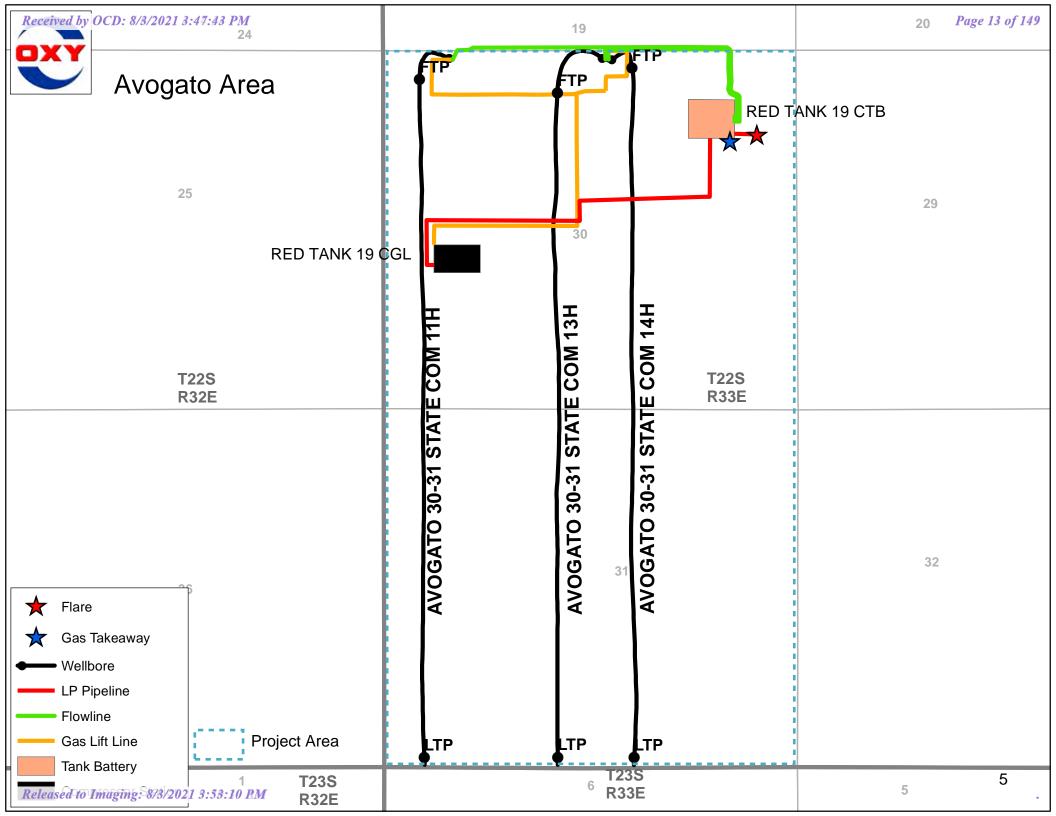
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2	30025459580000	AVOGATO-13H	Casing
3	30025459590000	AVOGATO-14H	Casing
4	30025449330000	TACO2734-11H	Casing

<u>Timeline</u>

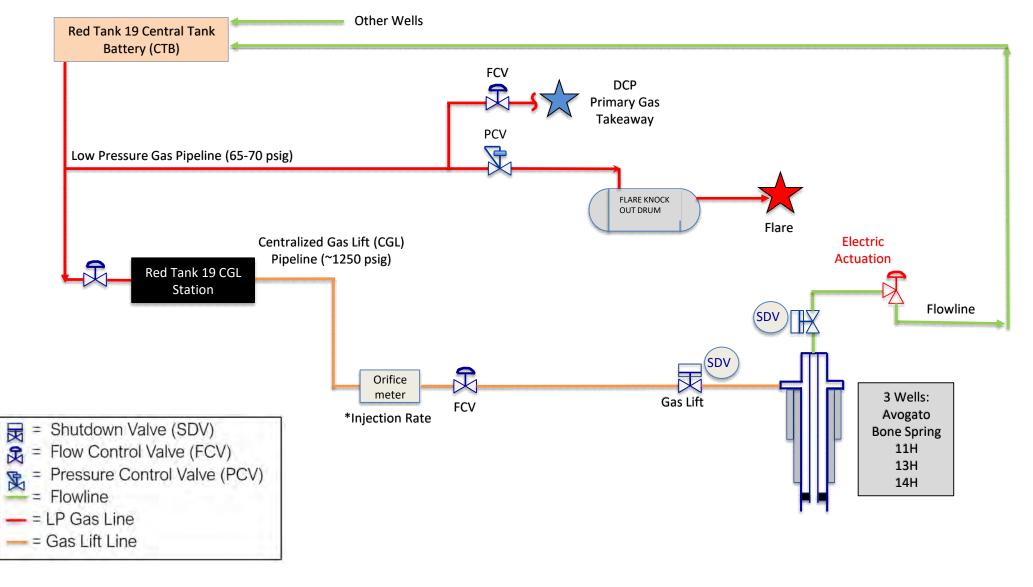
Since no new surface disturbances are required, this project can be implemented with minimal facility modifications. The timeline below assumes an order is issued on January 1 for illustration purposes.





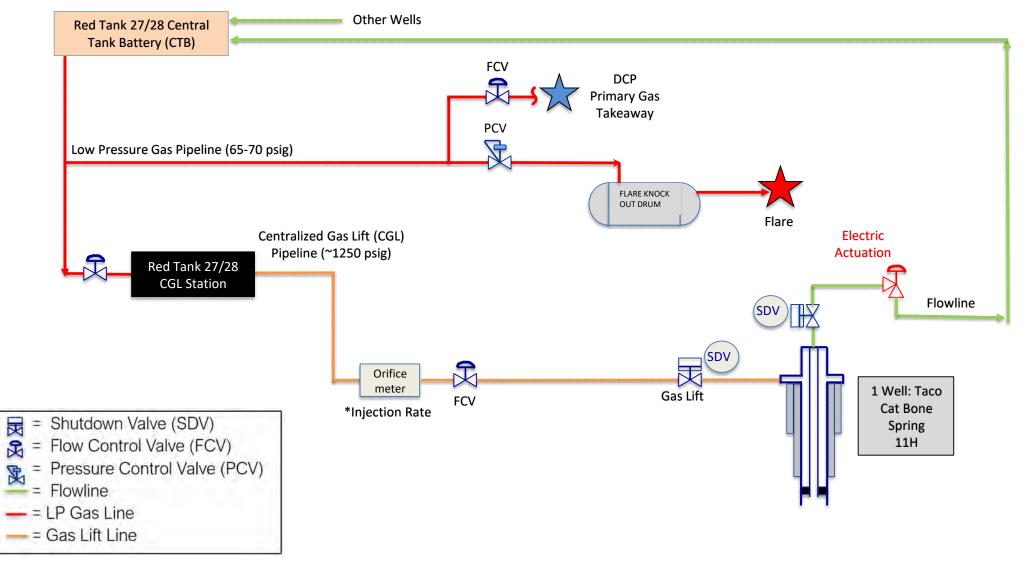


Avogato Gas Process Flow Diagram



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laco Cat Gas Process Flow Diagram



Injection Wellbores

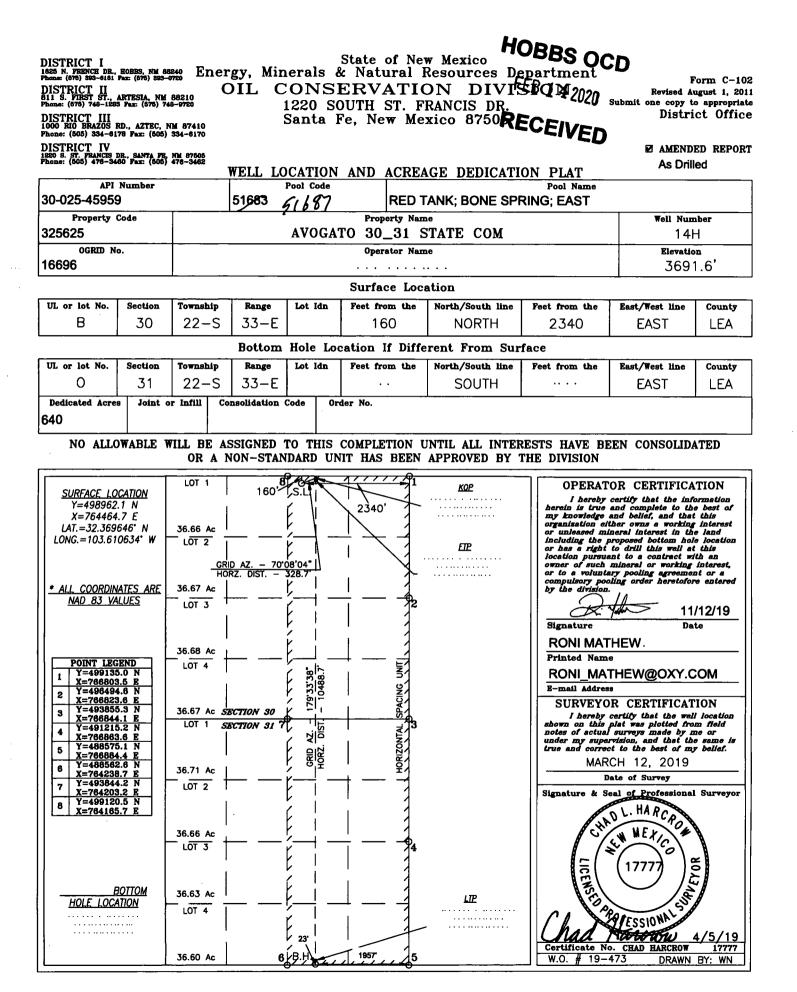
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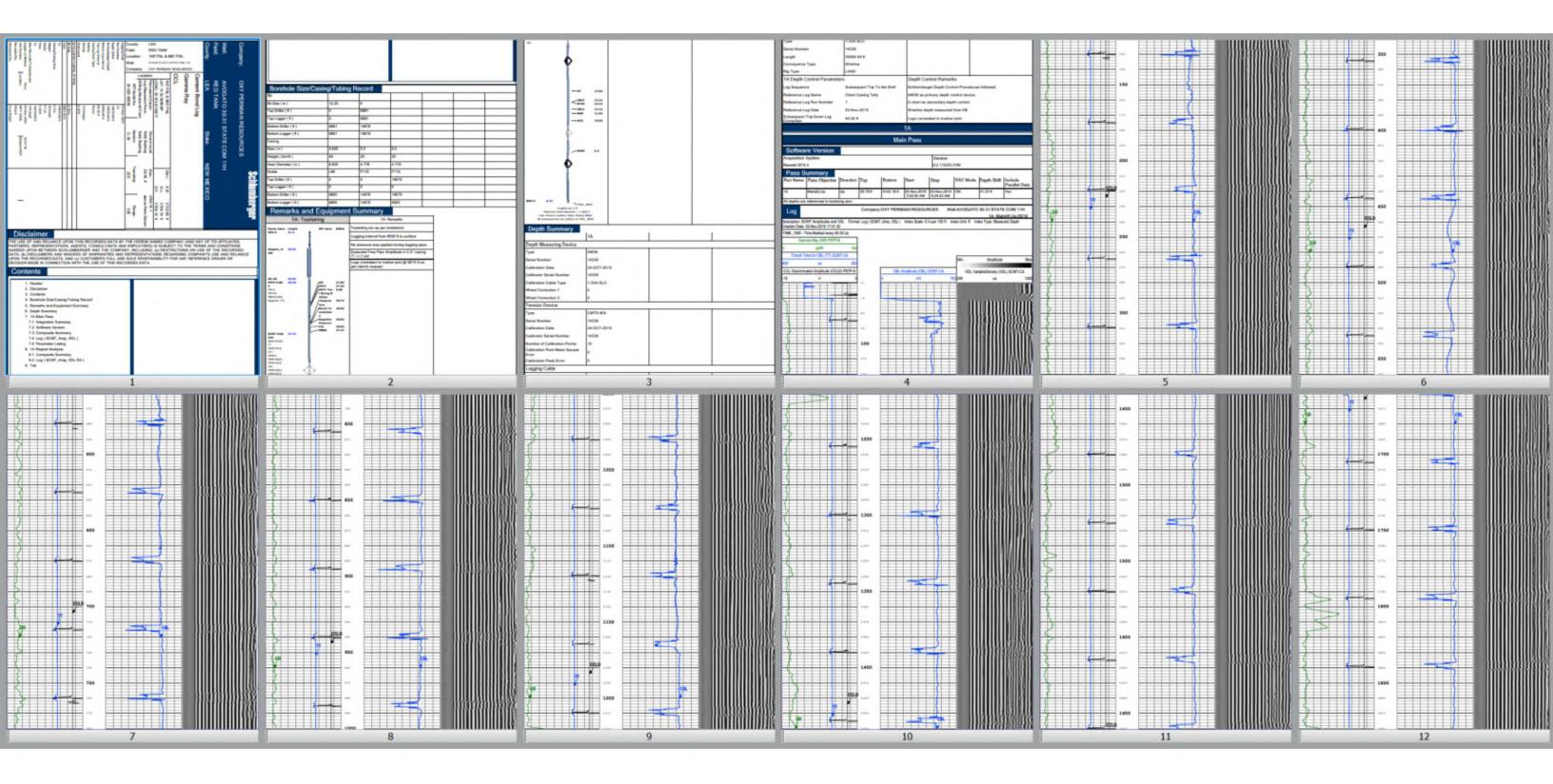
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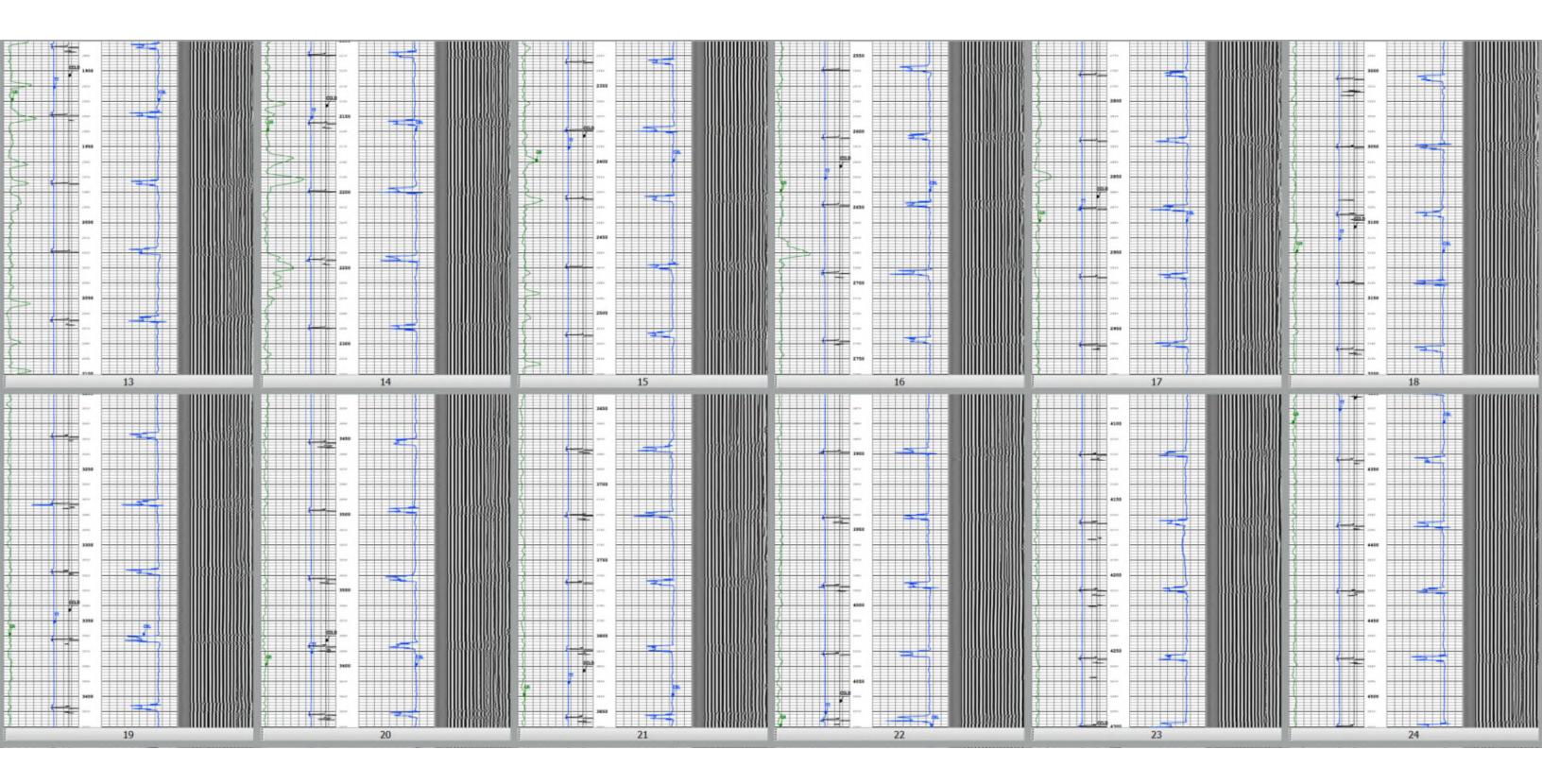
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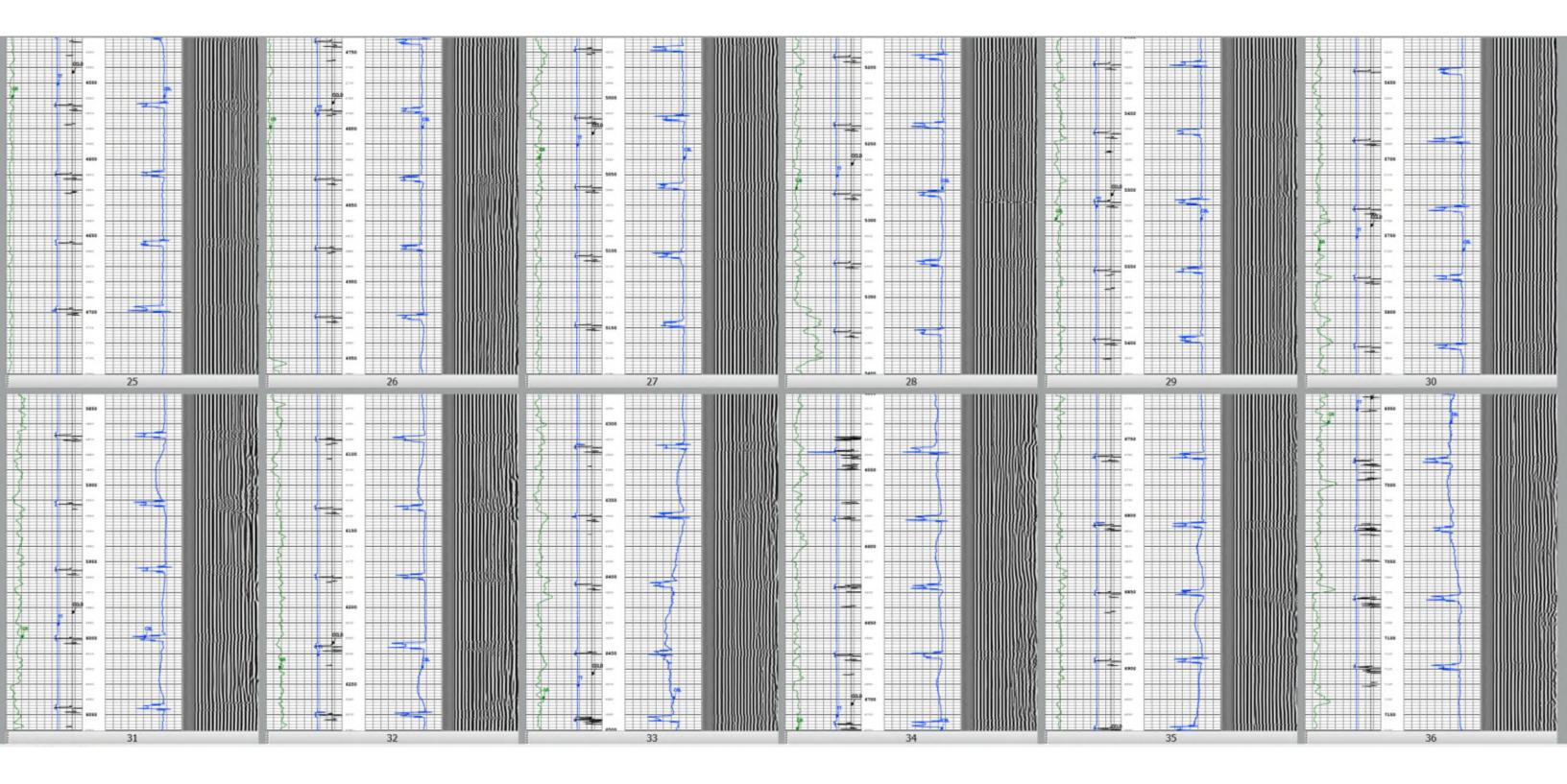
Tub	ing Size: 2.875" 6.5# L80 Lining Material: UNLINED
Тур	De of Packer: <u>5.5" AS1-X PACKER</u>
Pac	ker Setting Depth: <u>9141'MD / 9092' TVD</u>
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?Yes _XNo
	If no, for what purpose was the well originally drilled?PRODUCER- OIL
2.	Name of the Injection Formation: AVALON
3.	Name of Field or Pool (if applicable): <u>Red Tank</u>
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	OVERLYING: BRUSHY CANYON
	UNDERLYING: 2ND BONE SPRING

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Avogato 11H CBL

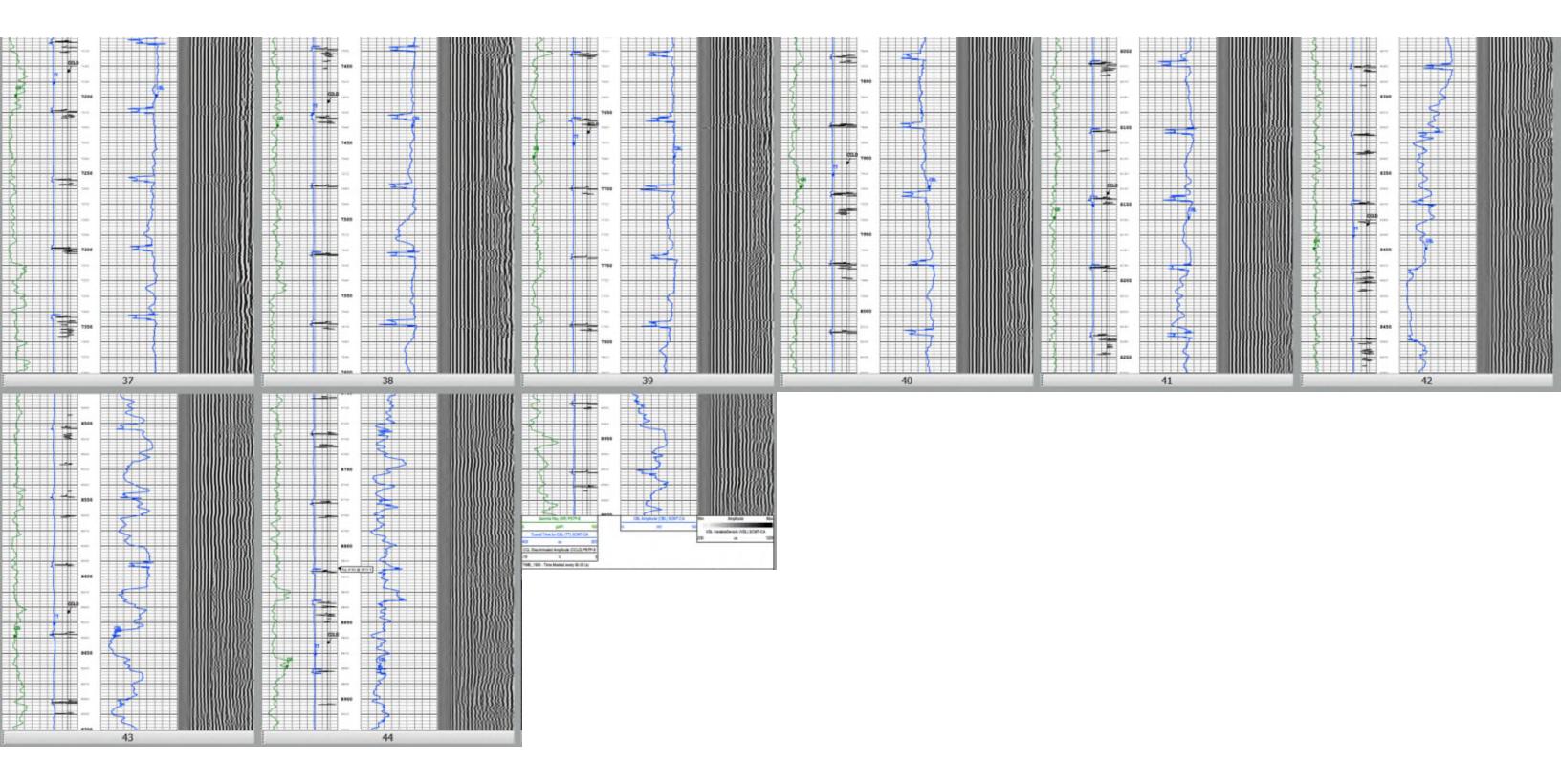






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Received by OCD: 8/8/2021 3:47:43 PM

Side 1

OPERATOR: OXY USA INC

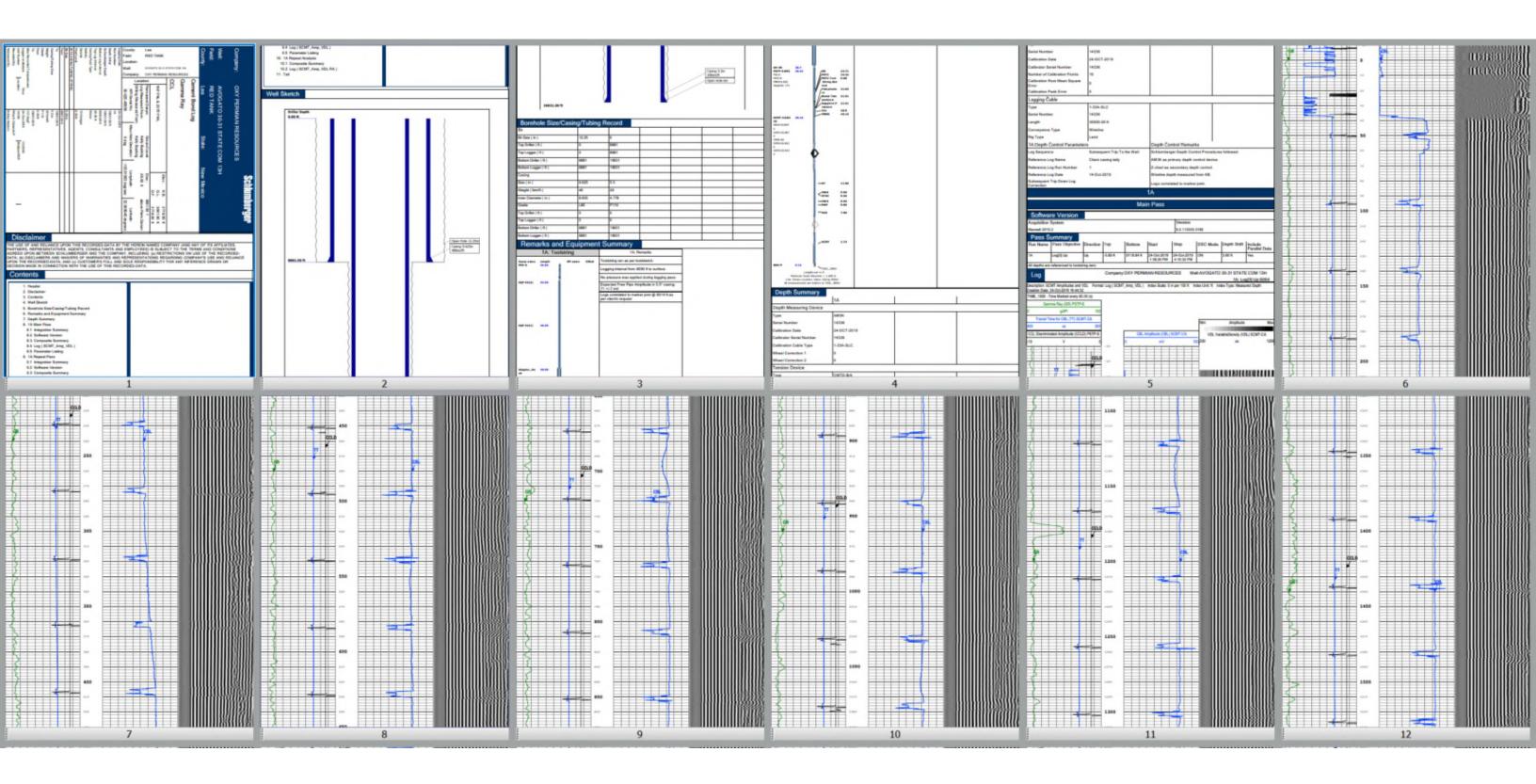
WELL NAME & NUMBER: AVOGATO 30-31 COM 13H WELL LOCATION: 160' FNL 2375' FEL В 30 22S 33E UNIT LETTER FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing AVOGATO 30 31 STATE COM 13H *Note- Diagram not to scale Hole Size: 17.5" Casing Size: 13.375" 13 3/8" CSA 1060' CMT TO SURFACE (CIRC) *or* _____ ft³ Cemented with: <u>1340</u> sx. Top of Cement: <u>0'</u> Method Determined: CIRC Intermediate Casing 9 5/8" CSA 8910' CMT TO SURFACE (CIRC) Hole Size: <u>12.25</u>" Casing Size: 9.625" *or* _____ ft³ Cemented with: <u>1600</u> sx. Top of Cement: 0' Method Determined: CIRC **Production Casing** Hole Size: <u>8.5</u>"_____ Casing Size: 5.5" *or* _____ ft³ Cemented with: 2150 sx. Top of Cement: 7988' Method Determined: CBL 5 1/2" CSA 19.631' Total Depth: MD: 19645' / TVD: 9397' TOC 7988' (CBL **Injection Interval** feet to 19532' MD/ 9397' TVD 9752' MD/ 9396' TVD (Perforated or Open Hole; indicate which) Avalon Perfs @ 9752 - 19,532'

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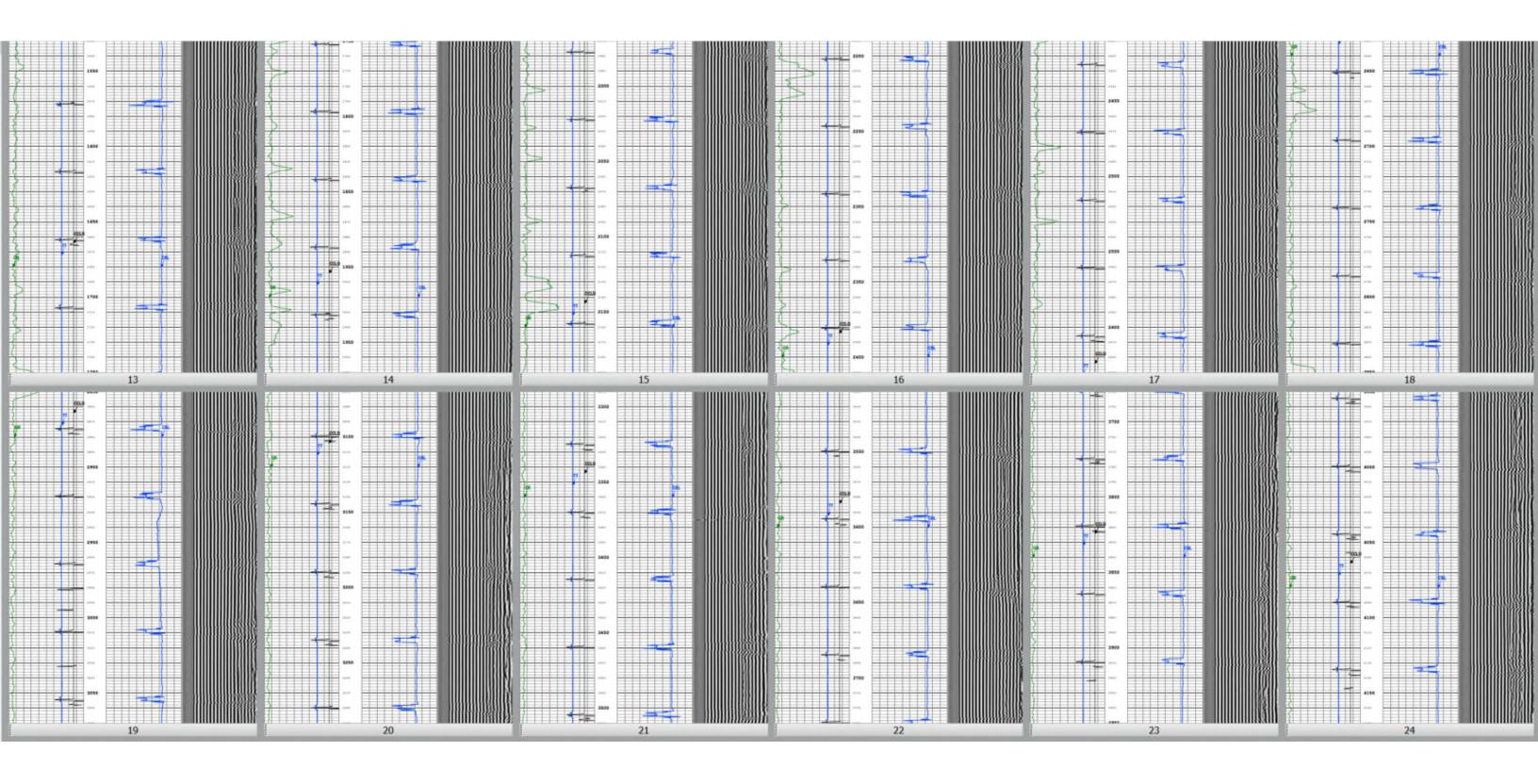
Tubing Size: <u>2.875" 6.5# L80</u>	Lining Material: UNLINED
Type of Packer:AS1-X 5.5"	
Packer Setting Depth: 8970' MD /	8926' TVD
Other Type of Tubing/Casing Se	eal (if applicable):
	Additional Data
1. Is this a new well drilled for	r injection?Yes XNo
If no, for what purpose was PRODUCER- OIL	the well originally drilled?
2. Name of the Injection Form	nation: AVALON
3. Name of Field or Pool (if a	pplicable): <u>Red Tank</u>
intervals and give plugging N/A	forated in any other zone(s)? List all such perforated detail, i.e. sacks of cement or plug(s) used.
5. Give the name and depths of	of any oil or gas zones underlying or overlying the proposed
OVERLYING: BRUSHY	CANYON
UNDERLYING: 2ND BO	NE SPRING

.

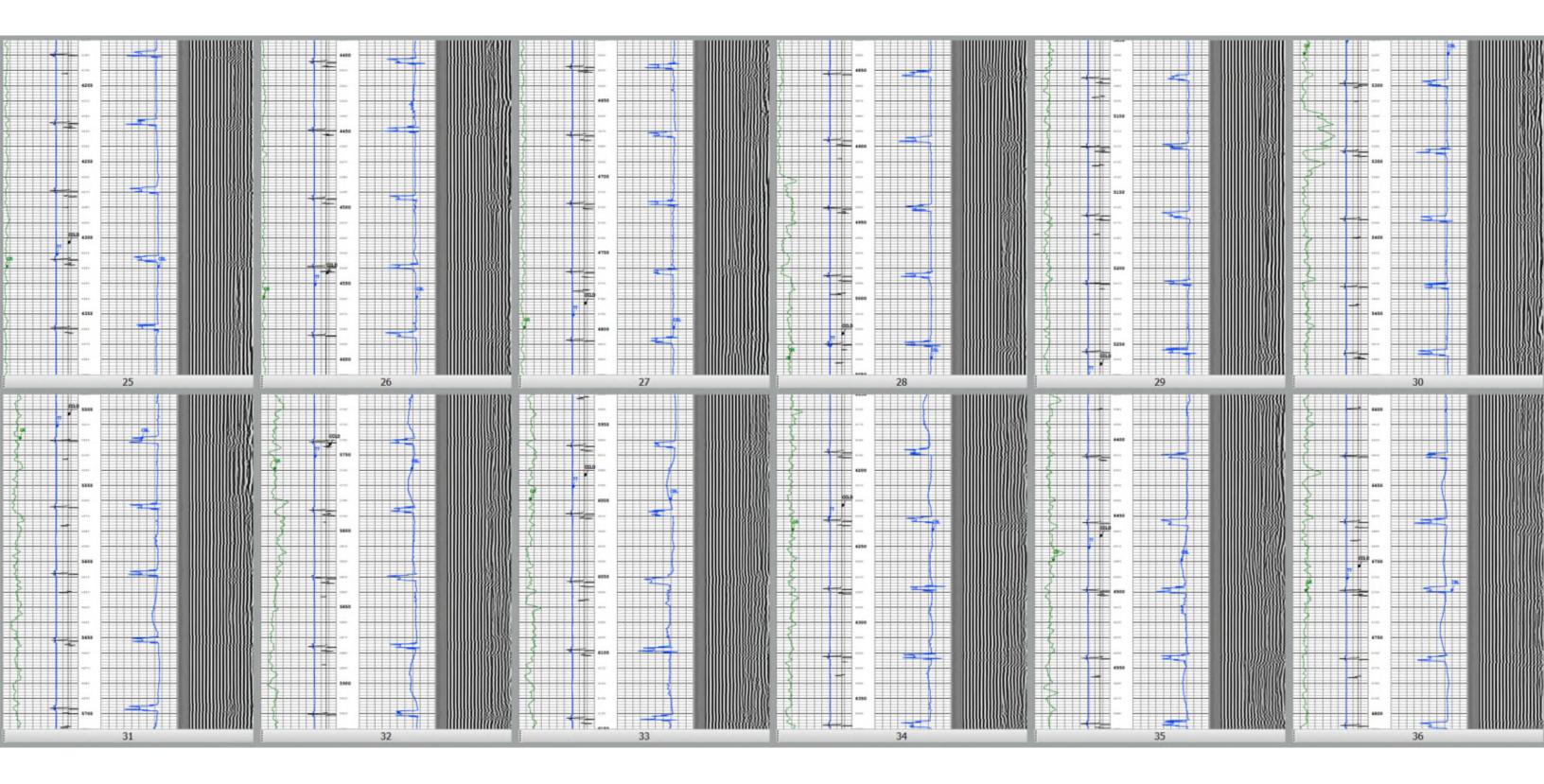
Avogato 13H CBL

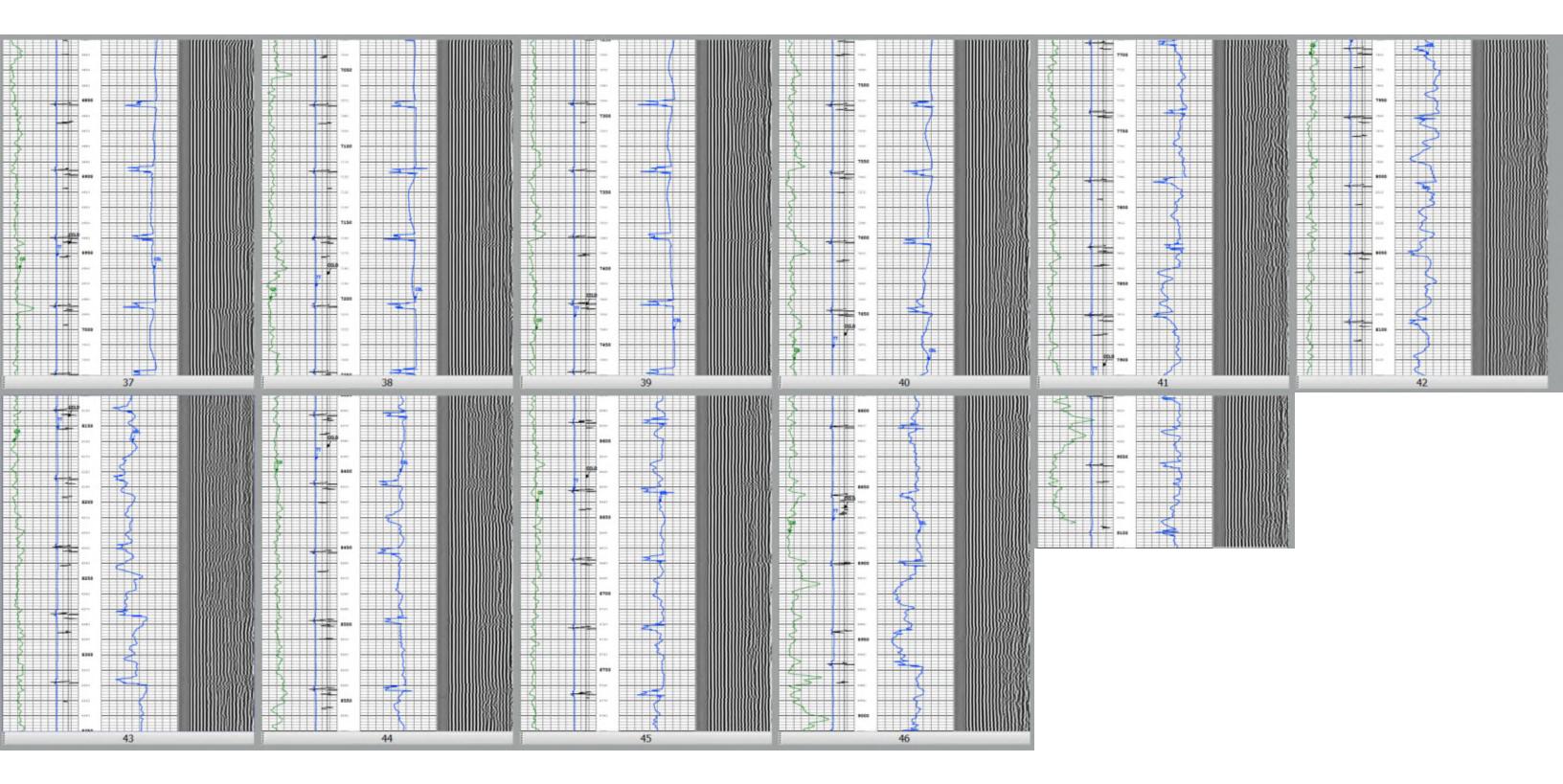


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Side 1

OPERATOR: OXY USA INC

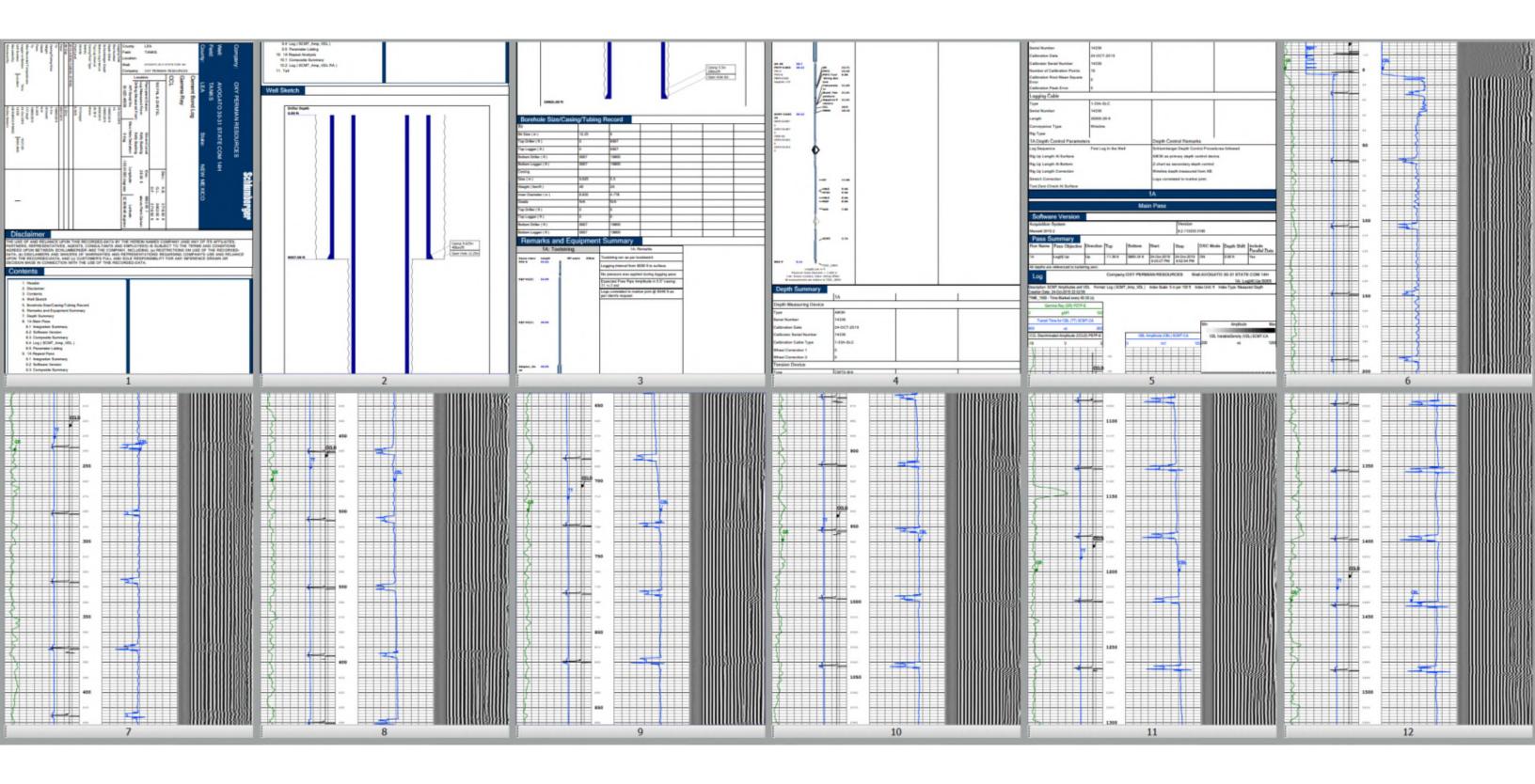
WELL NAME & NUMBER: AVOGATO 30-31 COM 14H WELL LOCATION: 160' FNL 2340' FEL В 30 22S 33E UNIT LETTER FOOTAGE LOCATION SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing AVOGATO 30 31 STATE COM 14H *Note- Diagram not to scale Hole Size: 17.5" Casing Size: 13.375" 13 3/8" CSA 1060' CMT TO SURFACE (CIRC) *or* _____ ft³ Cemented with: <u>1340</u> sx. Top of Cement: <u>0'</u> Method Determined: <u>CIRC</u> Intermediate Casing 9 5/8" CSA 9007' Hole Size: <u>12.25</u>" Casing Size: 9.625" CMT TO SURFACE (CIRC) *or* _____ ft³ Cemented with: 2125 sx. Top of Cement: 0' Method Determined: CIRC **Production Casing** Hole Size: <u>8.5</u>"_____ Casing Size: 5.5" *or* _____ ft³ Cemented with: 2135 sx. Top of Cement: 8740' Method Determined: CBL 5 1/2" CSA 19,614' Total Depth: MD: 19891' / TVD: 9532' TOC 8740' (CBL) **Injection Interval** feet to 19778' MD/ 9540' TVD Perforated 9598' MD/ 9488' TVD (Perforated or Open Hole; indicate which) Avalon Perfs @ 9598 - 19,778

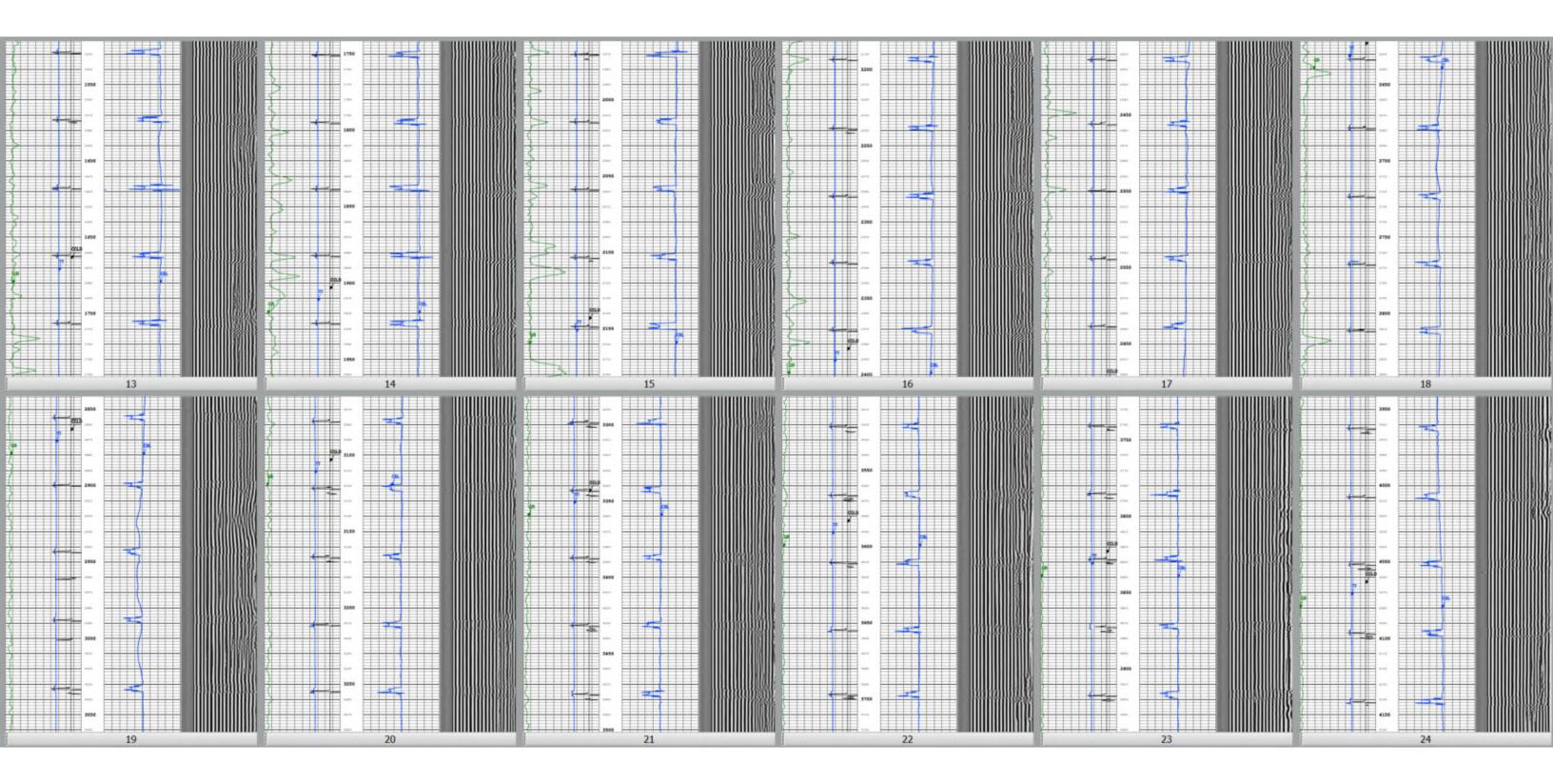
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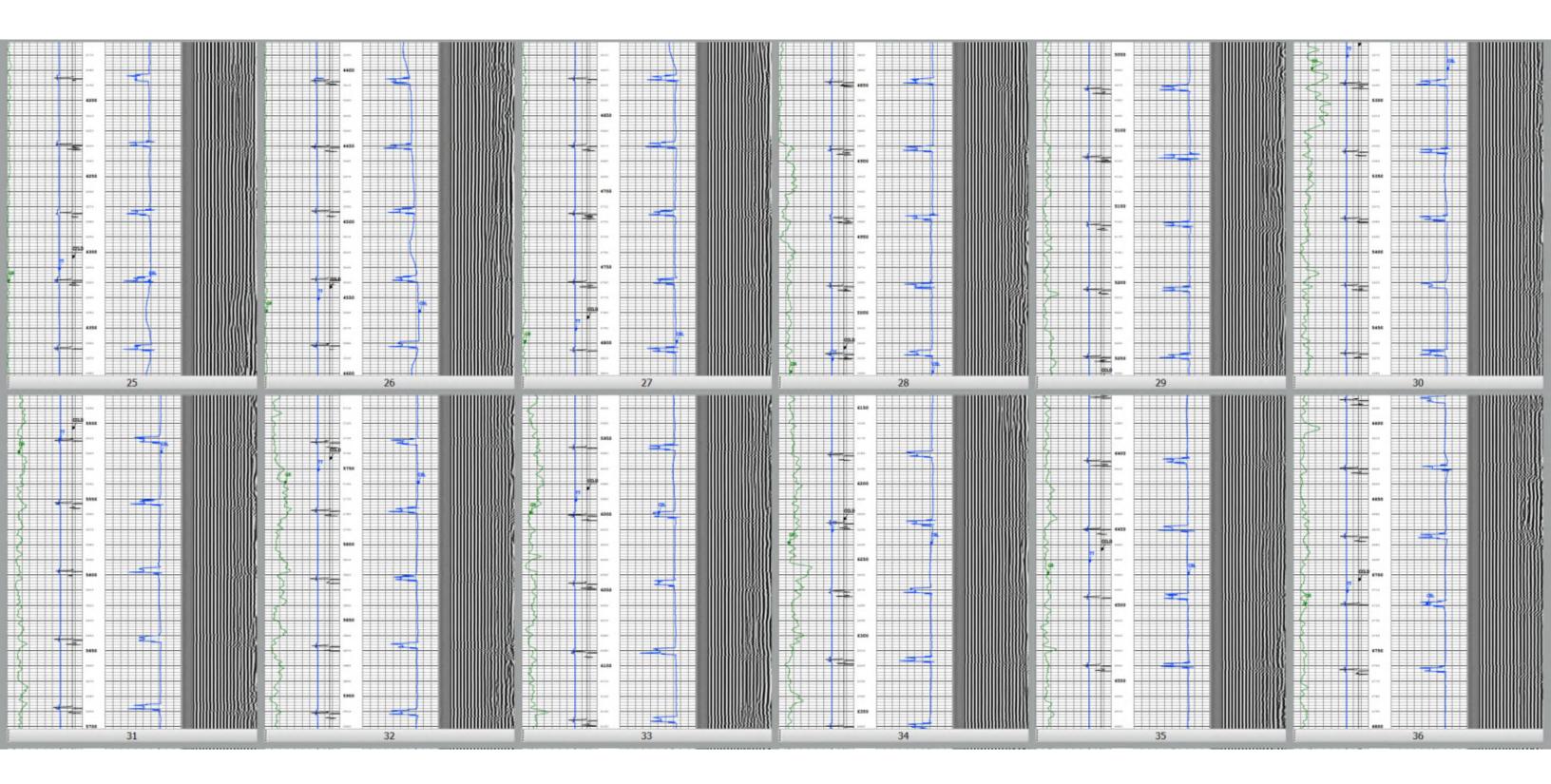
Tub	bing Size: 2.875" 6.5# L80 Lining Material: UNLINED
	De of Packer: <u>5.5" AS1</u>
Pac	eker Setting Depth: 9090' MD / 9045' TVD
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?Yes _XNo
	If no, for what purpose was the well originally drilled?PRODUCER- OIL
2.	Name of the Injection Formation: <u>AVALON</u>
3.	Name of Field or Pool (if applicable): <u>Red Tank</u>
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
	N/A
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	OVERLYING: BRUSHY CANYON
	UNDERLYING: 2ND BONE SPRING

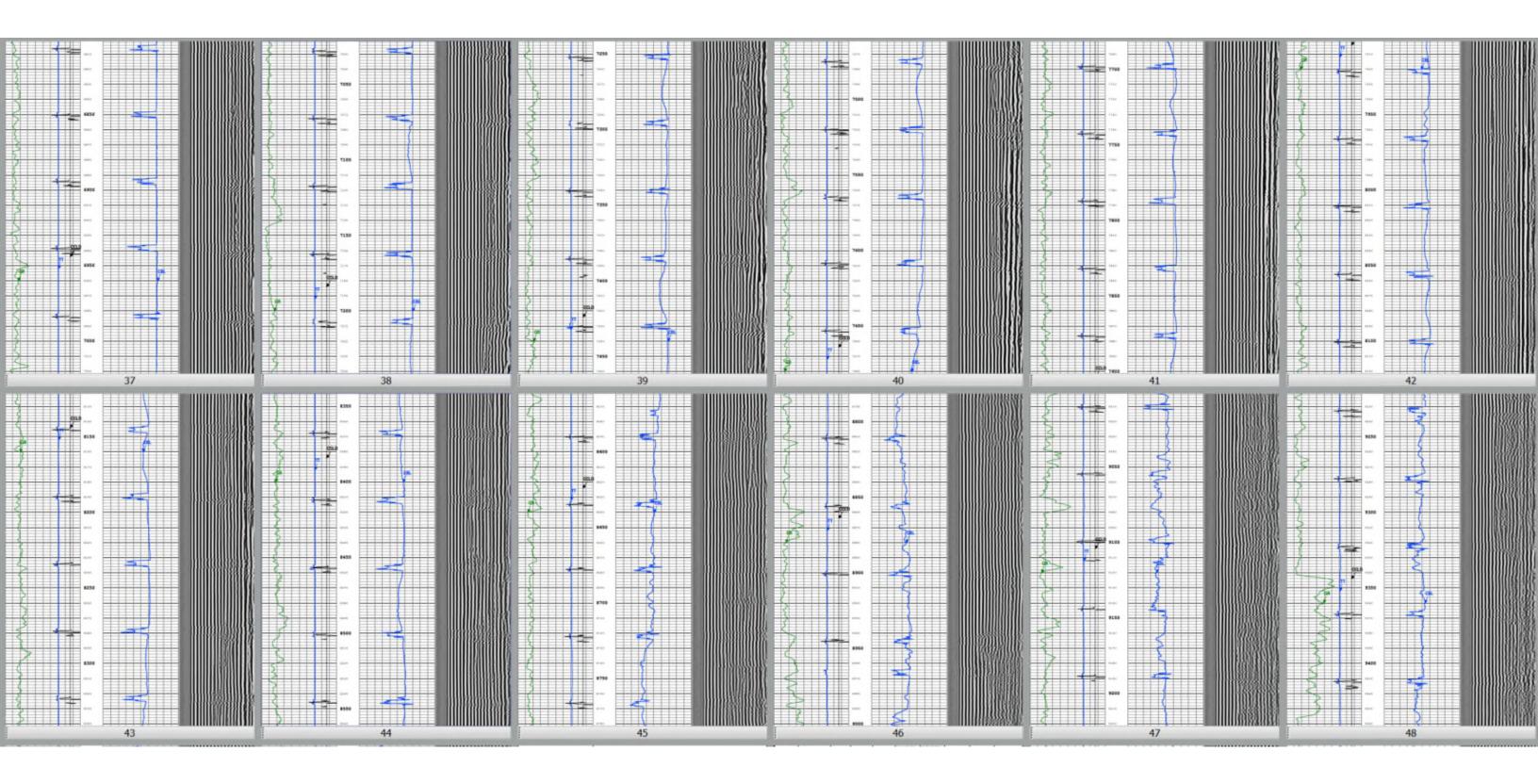
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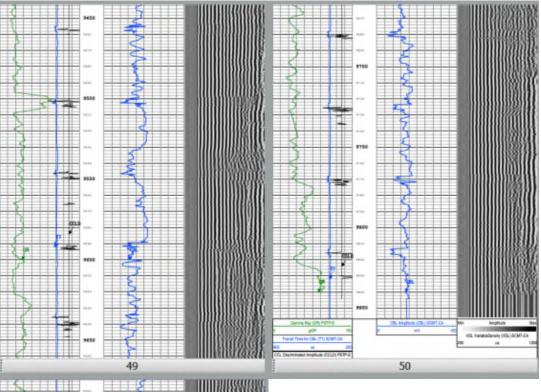
Avogato 14H CBL

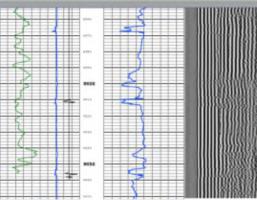












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Side 1

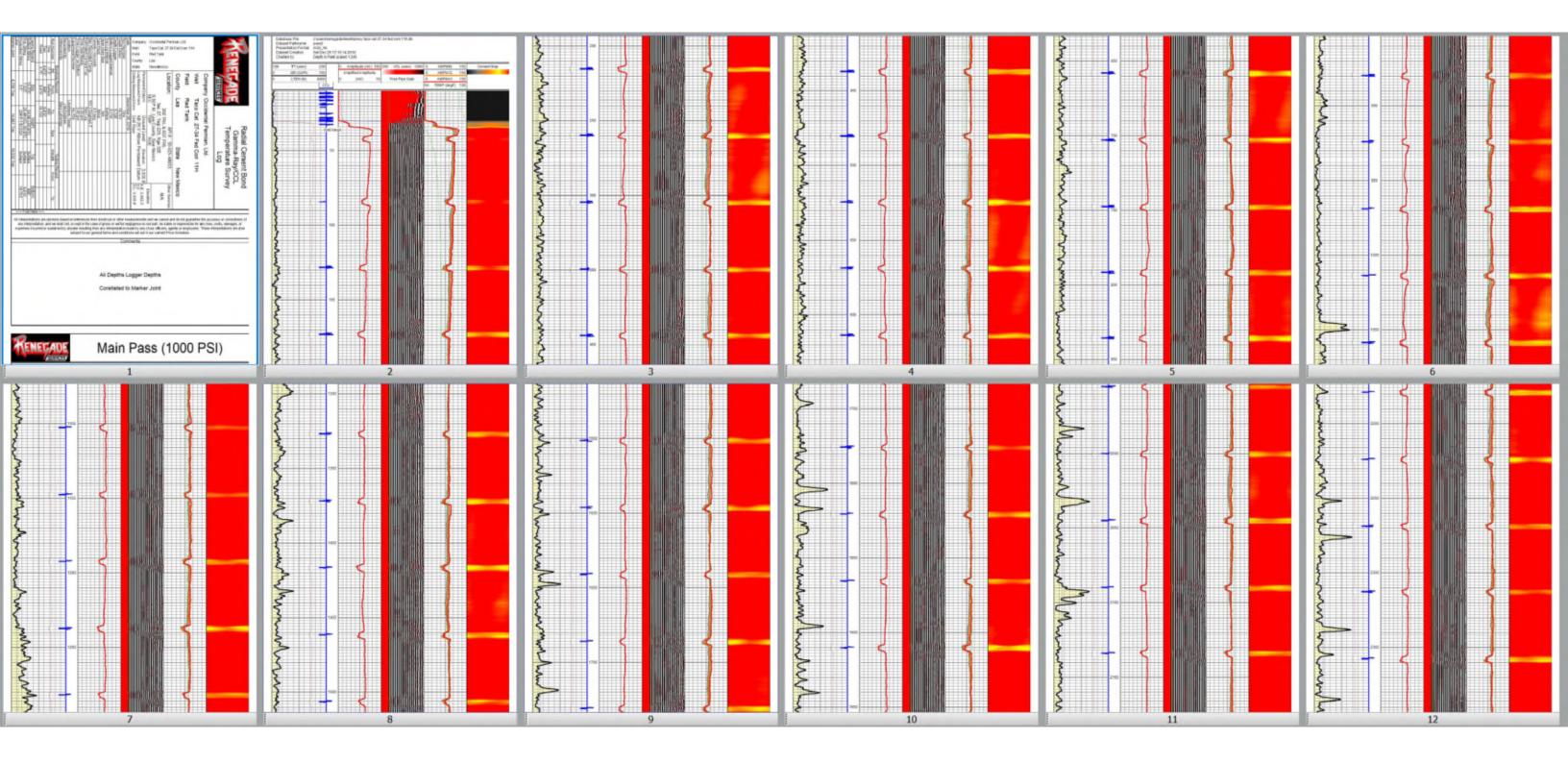
OPERATOR: OXY USA INC

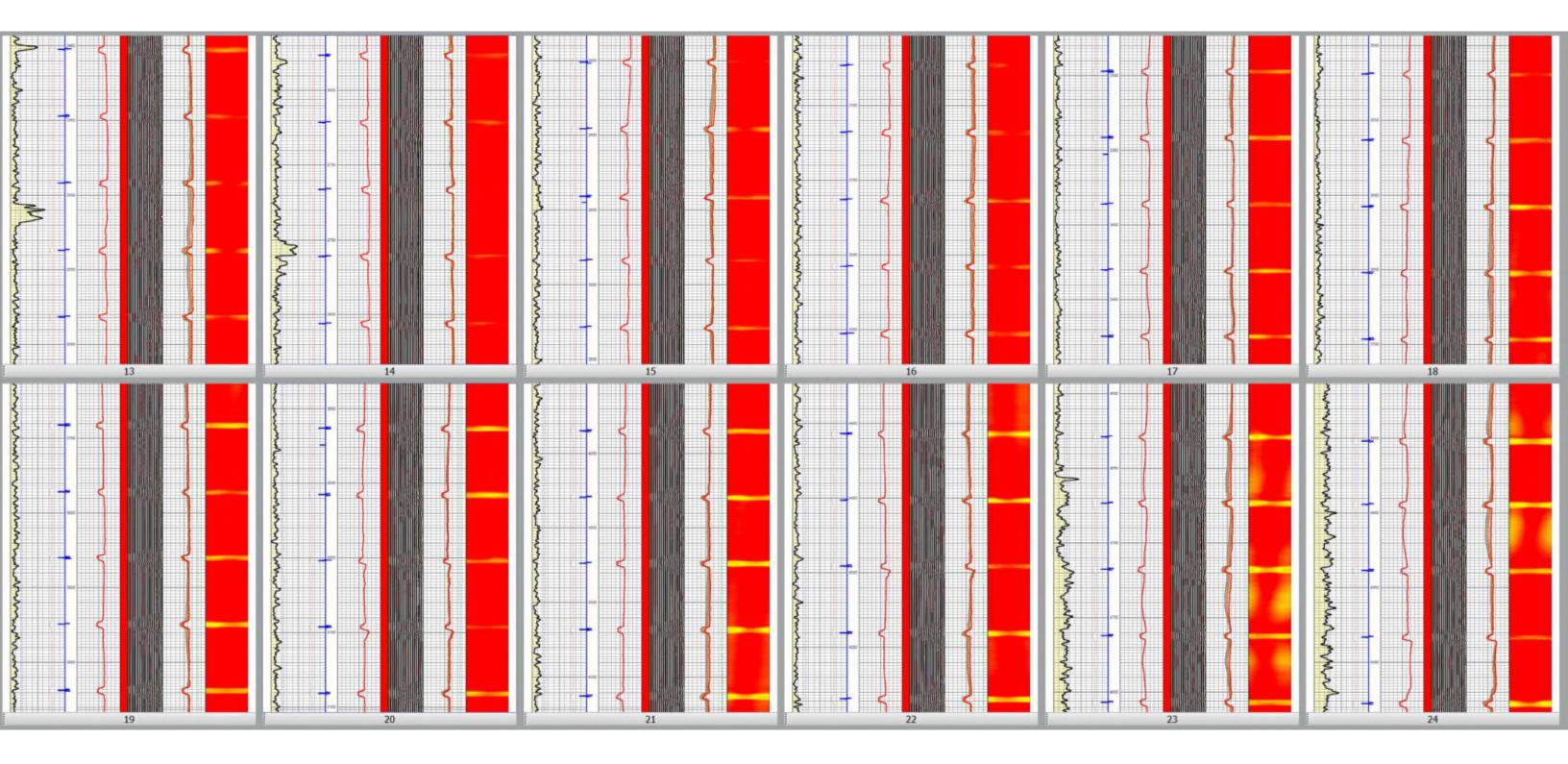
WELL NAME & NUMBER: TACO CAT 27-34 FEDERAL COM 11H WELL LOCATION: 260' FNL 855' FWL D 27 22S 32E FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE WELLBORE SCHEMATIC WELL CONSTRUCTION DATA Surface Casing TACO CAT 27-34 FEDERAL COMM 11H *Note- Diagram not to scale Hole Size: 17.5" Casing Size: 13.375" 13 3/8" CSA 447' CMT TO SURFACE (CIRC) *or* _____ ft³ Cemented with: <u>800</u> sx. Top of Cement: SURFACE Method Determined: CIRC Intermediate Casing 9 5/8" CSA 8810" CMT TO SURFACE (CIRC) Hole Size: <u>9.875</u>" Casing Size: 7.625" *or* _____ ft³ Cemented with: 2225 sx. Top of Cement: 204' Method Determined: Calc **Production Casing** Hole Size: <u>6.750</u>" Casing Size: 5.5" *or* _____ ft³ Cemented with: 705 sx. Top of Cement: <u>6700'</u> Method Determined: CBL 5 1/2" CSA 19,703 Total Depth: MD 19732' / TVD 9514' TOC 6700' (CBL) **Injection Interval** feet to 19621' MD / 9517" TVD Perforated 9445' MD/ 9339' TVD (Perforated or Open Hole; indicate which) Avalon Perfs @ 9445 - 19,621'

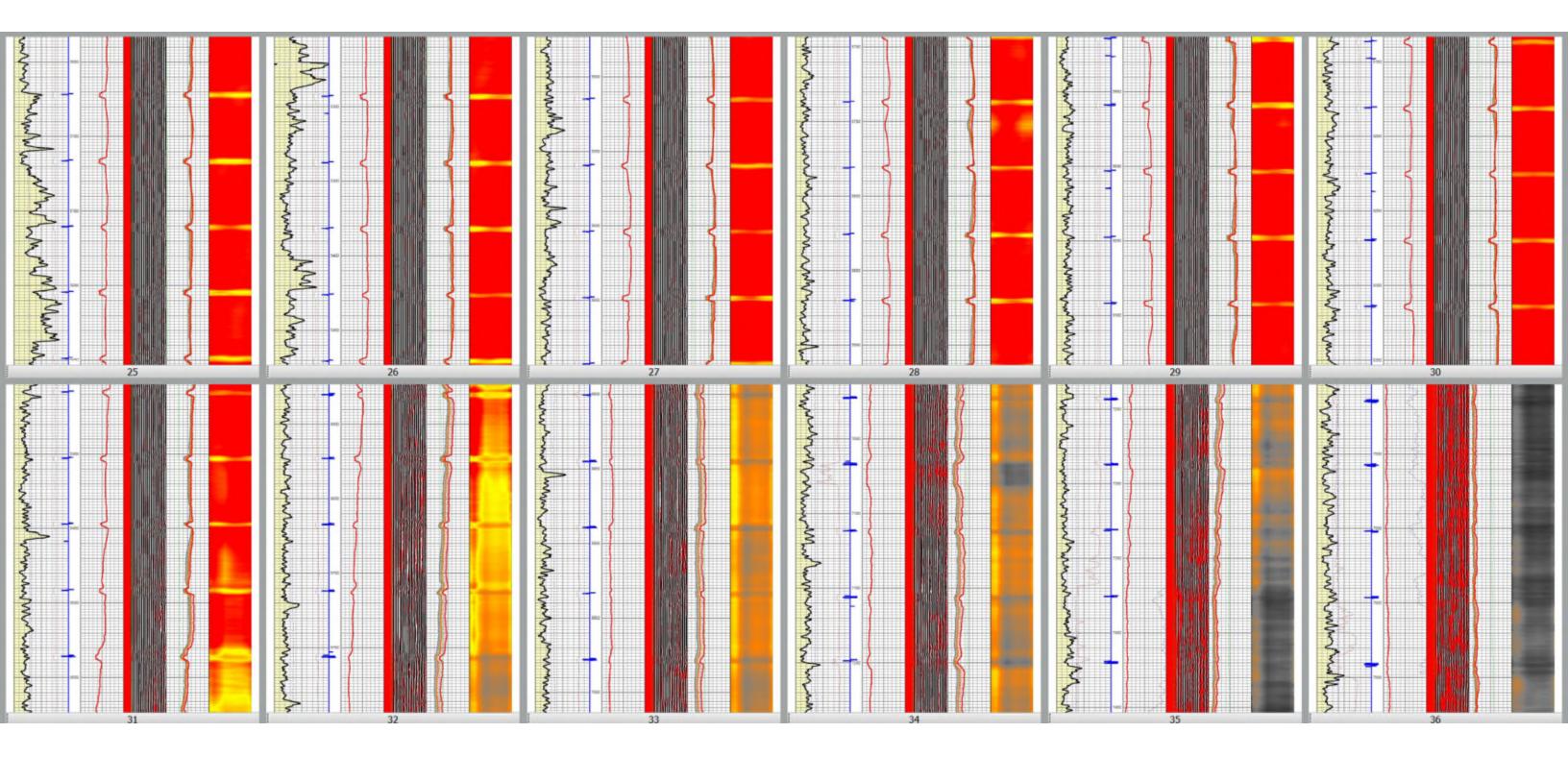
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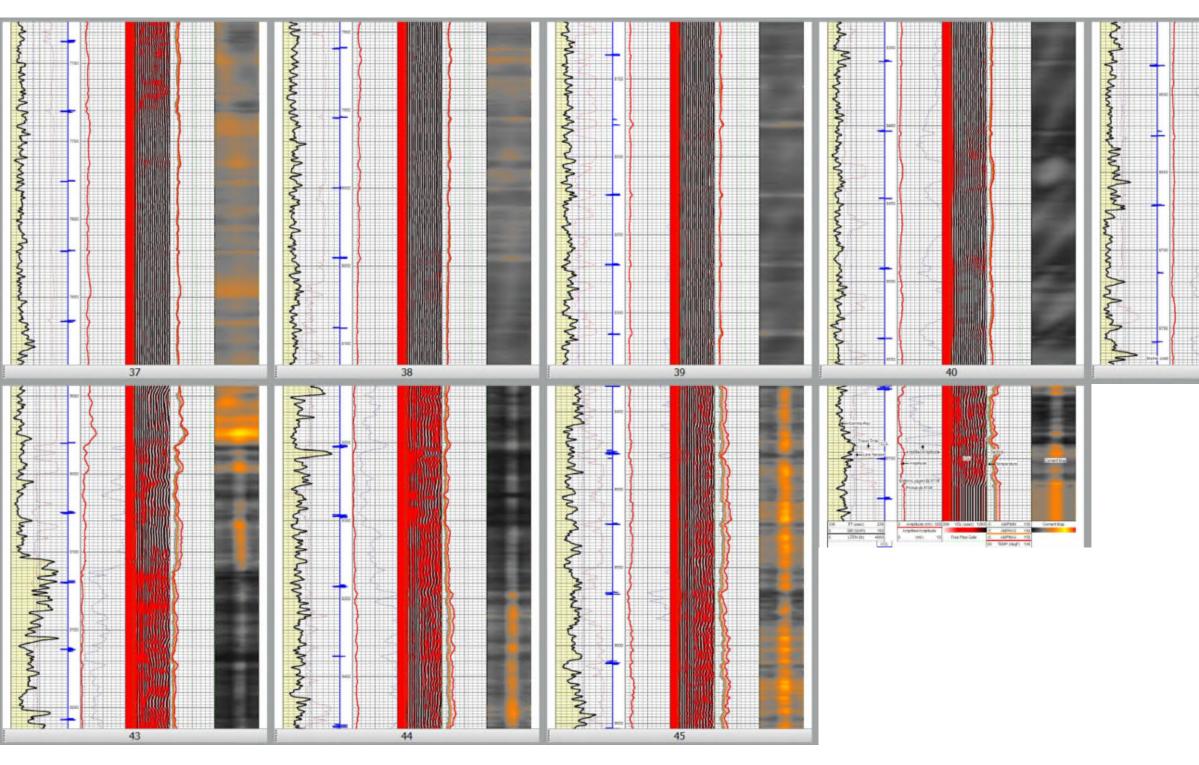
Tub	ing Size: 2.875" 6.5# L80 Lining Material: UNLINED
Тур	e of Packer: 10K AS1-X Packer 5.5"
Pac	ker Setting Depth: <u>8790' MD / 87 66' TVD</u>
Oth	er Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?Yes _XNo
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: Avalon
3.	Name of Field or Pool (if applicable):
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	OVERLYING: BRUSHY CANYON FORMATION 6837'
	UNDERLYING: 2nd Bone Spring FORMATION

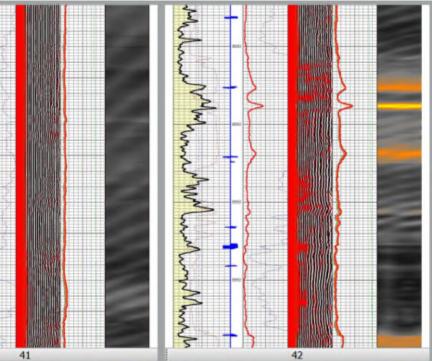
Taco Cat 11H CBL







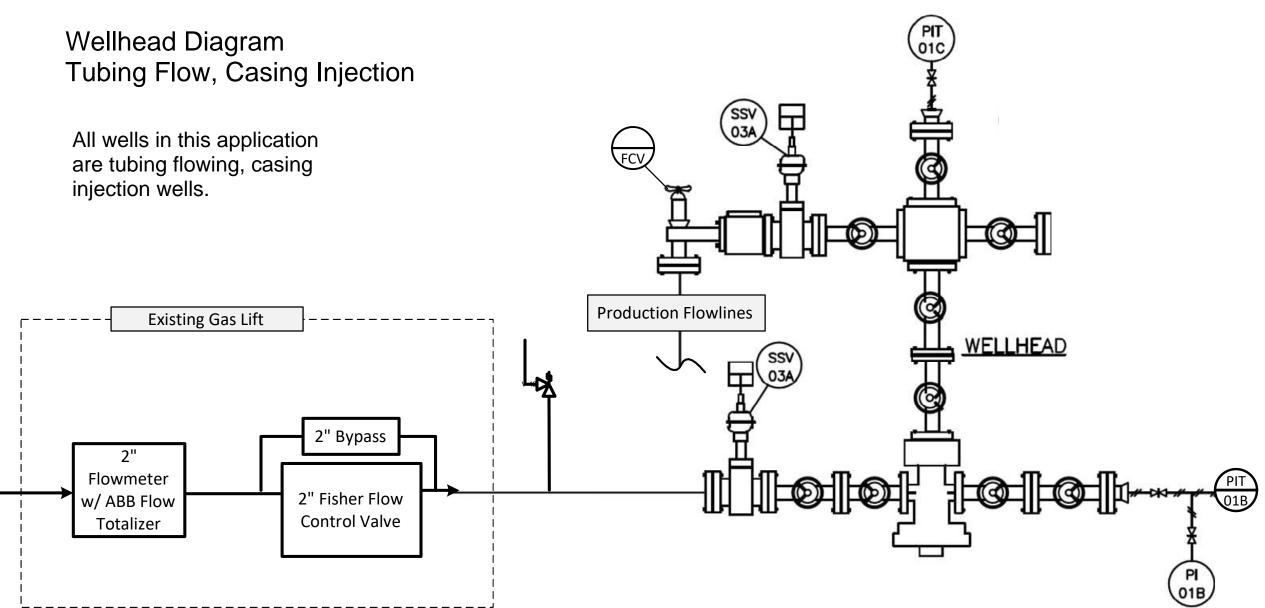




Max Allowable Surface Pressure (MASP) Table

	Column	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Calculation									(1+6*7)/8						(1+12*13)/(12*14)
		Proposed Max Allowable Surface Pressure (MASP)	Current Average Surface Pressure	Current	Injection Rate	Injection Rate	Burst Calculation	Gradient	Casing or Liner Burst		Perforation Depth (FT	MASP Gradient	Perforation Depth (FT	Gas Pressure Gradient	Parting Pressure Gradient	MASP + Reservoir Gas Hydrostatic as a percentage of Formation Parting
API10	Well Name	(PSI)	(PSI)	Infrastructure (PSI)	(MIMISCED)	(MMSCFD)	Depth (FT TVD)	(PSI/FT)	(PSI)	Pressure (%)		V - I	TVD)	(PSI/FT)	(PSI/FT)	Pressure (%)
300254595	6 Avogato 11H	1200	780	1200	1.8	2	9322	0.468	12640	44%	9322	0.129	9322	0.200	0.65	51%
300254595	3 Avogato 13H	1200	540	1200	1.8	2	9396	0.468	12640	44%	9396	0.128	9396	0.200	0.65	50%
300254595	Avogato 14H	1200	680	1200	1.8	2	9488	0.468	12640	45%	9488	0.126	9488	0.200	0.65	50%
300254493	3 Taco Cat 11H	1200	670	1200	1.8	2	9339	0.468	12640	44%	9339	0.128	9339	0.200	0.65	51%

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KEY

SSV – Safety Shutdown Valve PI – Pressure Indicator PIT – Pressure Indicating Transmitter FCV- Flow Control Valve

Mechanical Integrity Test (MIT) Summary Table

				MIT #1			MIT #2			
			Surface				Surface			
API10	Well Name	Date	Pressure	Time	Notes	Date	Pressure	Time		
3002545956	Avogato 30 31 State Com #011H	11/3/2019	9800	30 min		12/5/2019	500	10 min		
3002545958	Avogato 30 31 State Com #013H	10/24/2019	3000	15 min		12/2/2019	1000	15 min		
					Only tested from surface to					
3002545959	Avogato 30 31 State Com #014H	10/6/2019	1000	10 min	2998' on the prod casing	11/20/2019	1000	unknown		
3002544933	Taco Cat 27 34 Federal Com #011H	12/29/2018	1000	CBL		12/30/2018	9800	30 min		

Gas Analysis and Operations

Avogato Gas Source Well

API10	Well Name
30-025-45928	AVOGATO 30 31 STATE COM 33H
30-025-45924	AVOGATO 30 31 STATE COM 21H
30-025-45925	AVOGATO 30 31 STATE COM 22H
30-025-45926	AVOGATO 30 31 STATE COM 23H
30-025-45927	AVOGATO 30 31 STATE COM 32H
30-025-45929	AVOGATO 30 31 STATE COM 31H
30-025-45930	AVOGATO 30 31 STATE COM 34H
30-025-45931	AVOGATO 30 31 STATE COM 35H
30-025-45956	AVOGATO 30 31 STATE COM 11H
30-025-45957	AVOGATO 30 31 STATE COM 12H
30-025-45958	AVOGATO 30 31 STATE COM 13H
30-025-45959	AVOGATO 30 31 STATE COM 14H
30-025-45960	AVOGATO 30 31 STATE COM 24H
30-025-45961	AVOGATO 30 31 STATE COM 25H
30-025-45923	AVOGATO 30 31 STATE COM 4H
30-025-45964	AVOGATO 30 31 STATE COM 74H

Taco Cat Gas Source Well

API10	Well Name
30-025-44933	TACO CAT 27 34 FEDERAL COM 11H
30-025-44934	TACO CAT 27 34 FEDERAL COM 21H
30-025-44935	TACO CAT 27 34 FEDERAL COM 31H

Tanks Gas Analysis Summary

- 2 separate gas systems in Tanks that sell gas to DCP.
 - o Avogato
 - o Taco Cat
- Avogato System
 - All producing wells flow to the Red Tank 19 Central Tank Battery (CTB).
 - Gas flows into the low-pressure gas pipeline to the Red Tank 19 Compressor Gas Lift Station (CGL).
- Taco Cat System
 - All producing wells flow to the Red Tank 27/28 Central Tank Battery (CTB).
 - Gas flows into the low-pressure gas pipeline to the Red Tank 27/28 Compressor Gas Lift Station (CGL).
- Gas analysis is provided for:
 - o Red Tank 19 CGL
 - o Gas Lift meter downstream of Red Tank 27/28 CGL
 - o Avalon production



Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220

Certificate of Analysis

Number: 6030-21030247-006A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Mar. 22, 2021

Field: Red Tank Station Name: Red Tank 19 CGL Check A Station Number: 15697C Station Location: OXY Meter Run Sample Point: Formation: Monthly County: Eddy Type of Sample: : Spot-Cylinder Heat Trace Used: N/A Sampling Method: : Fill and Purge Sampling Company: : SPL

Sampled By: Javier Lazo Sample Of: Gas Spot Sample Date: 03/19/2021 08:30 Sample Conditions: 667 psia, @ 102 °F Ambient: 39 °F 03/19/2021 08:30 Effective Date: GPA-2261M Method: Cylinder No: 1111-002595 Instrument: 70104124 (Inficon GC-MicroFusion) Last Inst. Cal.: 03/22/2021 0:00 AM Analyzed: 03/22/2021 13:58:20 by EJR

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.000	0.000		GPM TOTAL C2+	5.934
Nitrogen	2.130	2.124	2.604		GPM TOTAL C3+	3.095
Methane	72.845	72.626	50.986		GPM TOTAL iC5+	0.631
Carbon Dioxide	4.485	4.472	8.613			
Ethane	10.666	10.634	13.993	2.839		
Propane	5.909	5.891 1	11.368	1.620		
Iso-butane	0.756	0.754	1.918	0.246		
n-Butane	1.905	1.899	0.444 1.402 0.162			
Iso-pentane	0.445	0.444		0.162		
n-Pentane	0.466	0.465	1.468	0.168		
Hexanes Plus	0.693	0.691	2.818	0.301		
	100.300	100.000	100.000	5.934		
Calculated Physica	I Properties	Тс	otal	C6+		
Relative Density Rea	al Gas	0.79	918	3.2176		
Calculated Molecular	r Weight	22	.85	93.19		
Compressibility Factor	or	0.99	961			
GPA 2172 Calculati	on:					
Calculated Gross B	TU per ft ³ @ 14.65 ps	sia & 60°F				
Real Gas Dry BTU		12	229	5113		
Water Sat. Gas Base	e BTU	12	208	5024		
Ideal, Gross HV - Dr	y at 14.65 psia	122	4.4	5113.2		
Ideal, Gross HV - We	et	120	3.0	5023.7		
Net BTU Dry Gas - re		11	116			
Net BTU Wet Gas - r	real gas	1()97			
	ield Content 2.5 ppm ay 7126					



Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.



Volumetrics US Inc. 3001 N Cameron St, Victoria, TX-77901

Phone: 361-827-4024

Company:	OXY USA INC	Work Order	4000248705
Field/Location :	NMSW	Sampled by:	VOLUMETRICS/JA
Station Name :	TACO CCT 27-34FC 11GL	Sample Type :	SPOT-CYLINDER
Station Number :	162311	Sample Temperature (F):	84
Sample Date:	3/12/21 2:37 PM	Sample Pressure (PSIG):	1243
Analysis Date:	3/15/21 7:10:09 AM	Flow rate (MCF/Day):	499.5
Instrument:	VARIAN CP 490 GC	Ambient Temperature (F):	79
Calibration/Verification Date:	3/15/2021	Sampling method:	FILL & EMPTY
Heat Trace used:	YES	Cylinder Number:	1137

NATURAL GAS ANALYSIS: GPA 2261

	Un-Normalized	Normalized	GPM	GPM	GPM
Components	Mol%	Mol%	14.650	14.730	15.025
Hydrogen Sulfide	0.0000	0.0000			
Nitrogen	2.1539	2.2001			
Methane	71.2480	72.7773			
Carbon Dioxide	1.4295	1.4602			
Ethane	12.5308	12.7998	3.417	3.436	3.505
Propane	6.4693	6.6082	1.817	1.827	1.864
Isobutane	0.8184	0.8360	0.273	0.275	0.280
N-butane	1.9947	2.0375	0.641	0.645	0.658
Isopentane	0.3908	0.3992	0.146	0.147	0.149
N-Pentane	0.4155	0.4244	0.154	0.154	0.157
Hexanes Plus	0.4477	0.4573	0.199	0.200	0.204
Total	97.8986	100.0000			

Hexanes plus split (60%-30%-10%)

Physical Properties (Calculated)	14.650 psia	14.730 psia	15.025 psia
Total GPM Ethane+	6.647	6.684	6.817
Total GPM Iso-Pentane+	0.499	0.501	0.511
Compressibility (Z)	0.9961	0.9961	0.9960
Specific Gravity (Air=1) @ 60 °F	0.7757	0.7757	0.7758
Molecular Weight	22.387	22.387	22.387
Gross Heating Value	14.650 psia	14.730 psia	15.025 psia
Dry, Real (BTU/Ft ³)	1279.0	1286.0	1311.8
Wet, Real (BTU/Ft ³)	1256.7	1263.6	1289.0
Dry, Ideal (BTU/Ft ³)	1273.9	1280.9	1306.5
Wet, Ideal (BTU/Ft ³)	1251.8	1258.6	1283.8

Temperature base 60 °F **Comment:**

Verified by

Mostaq Ahammad Petroleum Chemist Approved by

Deann Friend Deann Friend

Laboratory Manager



Chandler Montgomery Occidental Petroleum 1502 W Commerce Dr. Carlsbad, NM 88220

Certificate of Analysis

Number: 6030-20100053-001A

Artesia Laboratory 200 E Main St. Artesia, NM 88210 Phone 575-746-3481

Oct. 09, 2020

Field: Red Tank Station Name: Avogato 30-31 State Com 11H Station Number: 15601T Sample Point: N/A 30-025-45956 Meter Number: County: Lea Type of Sample: Spot-Cylinder Heat Trace Used: N/A Sampling Method: Fill and Purge Sampling Company:OXY

Sampled By: **Chandler Montgomery** Sample Of: Gas Spot Sample Date: 10/08/2020 11:50 Sample Conditions: 95.7 psig, @ 85.4 °F Ambient: 81 °F 10/08/2020 11:50 Effective Date: GPA-2261M Method: Cylinder No: 1111-002274 Instrument: 70104251 (Inficon GC-MicroFusion) Last Inst. Cal.: 10/05/2020 0:00 AM Analyzed: 10/09/2020 10:24:10 by KNF

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.65 psia		
Hydrogen Sulfide	0.000	0.001	0.001		GPM TOTAL C2+	4.668
Nitrogen	4.524	4.542	5.489		GPM TOTAL C3+	2.378
Methane	70.019	70.304	48.658		GPM TOTAL iC5+	0.515
Carbon Dioxide	8.747	8.782	16.674			
Ethane	8.548	8.583	11.134	2.290		
Propane	4.557	4.575	8.703	1.258		
Iso-butane	0.554	0.556	1.394	0.182		
n-Butane	1.339	1.344	3.370	0.423		
Iso-pentane	0.383	0.385	1.198	0.140		
n-Pentane	0.386	0.388	1.208	0.140		
Hexanes Plus	0.538	0.540	2.171	0.235		
	99.595	100.000	100.000	4.668		
Calculated Physical	Properties	Тс	otal	C6+		
Relative Density Real	Gas	0.80)29	3.2176		
Calculated Molecular		23	.18	93.19		
Compressibility Factor	r	0.99	965			
GPA 2172 Calculatio	n:					
Calculated Gross BT	U per ft ³ @ 14.65 p	sia & 60°F				
Real Gas Dry BTU		10)98	5113		
Water Sat. Gas Base	BTU	10)79	5024		
Ideal, Gross HV - Dry	at 14.65 psia	109	4.2	5113.2		
Ideal, Gross HV - Wet				5023.7		
Net BTU Dry Gas - rea	et BTU Dry Gas - real gas					
Net BTU Wet Gas - re	alīgas	ç	979			
Comments: H2S Fie						

Mcf/day 3614

Jesus Escobedo

4 At

Hydrocarbon Laboratory Manager

Quality Assurance:

The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.

Existing Corrosion Prevention Plan

- Produced gas is processed through a gas dehydration unit to remove water.
- Corrosion inhibitor is added to the system downstream of the gas dehydration unit.
- Fluid samples are taken regularly and checked for Fe, Mn, and residual corrosion inhibitor in produced fluids.
- Continuously monitor and adjust the chemical treatment over the life of the well.

Oxy will continue the existing corrosion prevention plan in place for the gas lift system due to the similar nature of gas storage operations.

- Fluid samples will be taken prior to injection to establish a baseline for analysis.
- After a storage event, fluid samples will be taken to check for Fe, Mn, and residual corrosion inhibitor in the produced fluids.
- Continuously monitor and adjust the chemical treatment over the life of the project.

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NM GAS STORAGE OPERATIONAL PLAN

Operational Plan

WELLSITE CLGC

Oxy USA Inc. (Oxy) will monitor the following items on each Closed Loop Gas Capture (CLGC) well via SCADA system:

- Injection flow rate and volume
 - o Instantaneous Rate
 - o Total Injected by Day (volume)
- Tubing Pressure
- Casing Pressure
- Bradenhead Pressures
- Safety devices
 - Pressure kills have an automated kill sequence that is initiated by SCADA system readings.
 - o Injection pressure kills on production stream for injection
 - Relief Valves for both production and gas storage/injection streams to prevent overpressure (not monitored via SCADA other than pressure trend)
 - o Control of injection rate and pressures via control valve at each well injection stream
 - Control of production stream via automated choke valves to ensure controlled production and prevent over pressurization of flowline

CENTRAL TANK BATTERY (CTB)

Oxy will monitor the following items at each CTB via SCADA system:

- Production Rates
 - o Oil
 - o Gas
 - o Water
- Safety devices
 - o Flares at CTBs
 - o Injection pressure kills on production/gas storage stream for injection
 - Emergency Shutdown (ESD) of wells that are local and remote for automatic shut downs to safe the system
 - o Control of injection rate and pressures via control valve at each well injection stream

CENTRAL GAS LIFT (CGL) COMPRESSOR(S)

Oxy will monitor the following items on each Central Gas Lift (CGL) Compressor Station via SCADA system:

- Safety devices
 - o Discharge/injection pressure kills of each compressor and for the station
 - Relief Valves on 3rd stage of compressors, to prevent over pressurization (not monitored via SCADA other than pressure trend)
 - Station recycle valves (that recycle discharge pressure back to suction) if the pressure is getting too high for the compressor or station. (not all control valves are capable of

remote monitoring of valve position; but still monitored in some sense of the pressure trend for the station)

SUPERVISORY CONTROL AND DATA ACQUISTION (SCADA)

Oxy SCADA system consists of PLCs at each CTB, Wellsite, and Central Gas Lift compressor or station.

- The Programmable Logic Controller (PLCs) will take action immediately (within seconds or minutes) as programmed to automatically safe the system as required; for the system and certain device shut down(s).
- The High Alarms and High-High Alarms will be logged and registered in the SCADA system. Also the call center will take the High Alarm and make the physical phone call notification to the production techs to acknowledge the alarm & take action.

ENVIRONMENTAL/SPILL RESPONSE

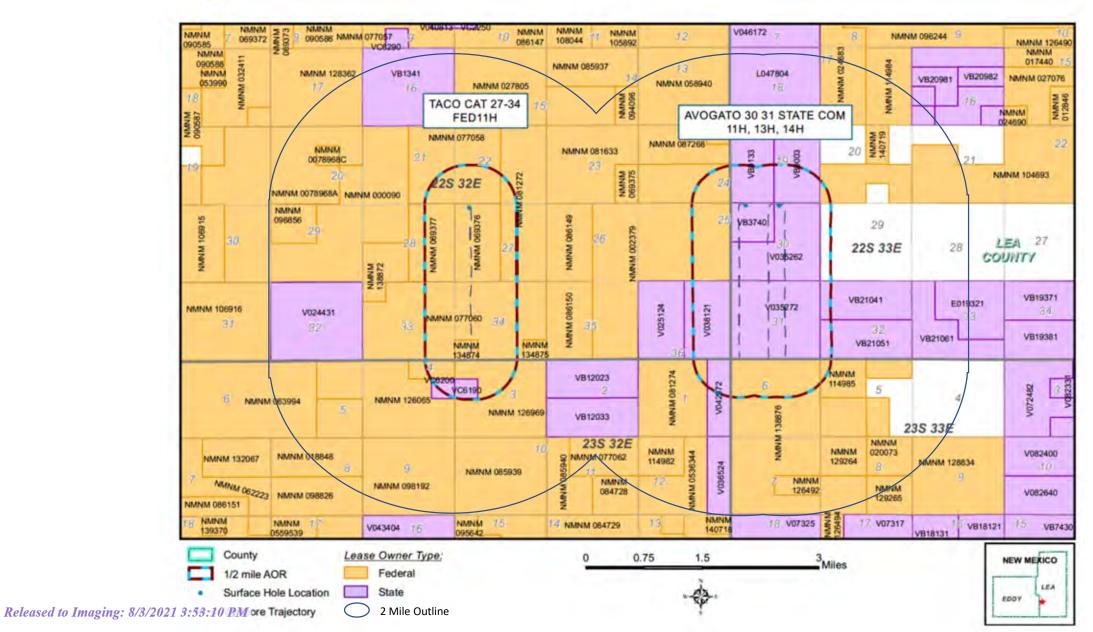
Oxy will report and track any spill recordable or non-recordable via our CDR system

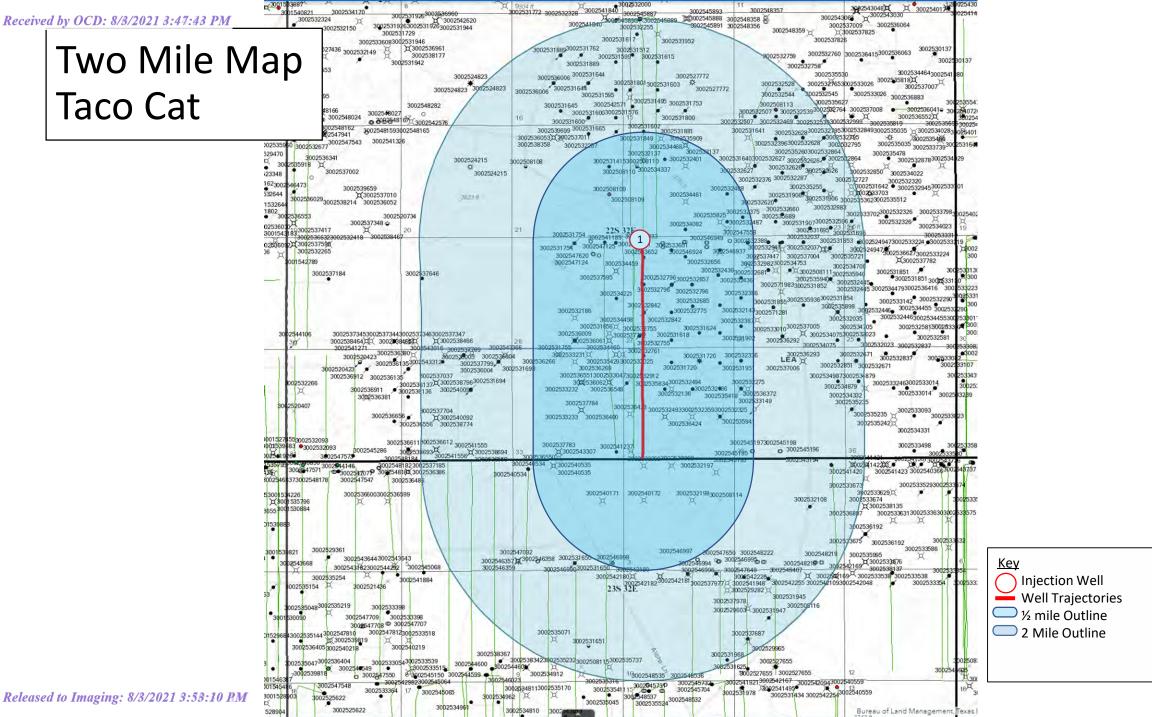
- Any spill or gas release will be reported by operations calling in to our Call Center to make the report of spill/release. The fluid type and release amount will be disclosed along with location details; and if it's a recordable or non-recordable spill.
- Liquids will be contained and isolated and vacuum trucks will be called in to recover the liquid and will also report the amount of liquid recovered on the same CDR spill form.
 - Additional reclamation will be coordinated to ensure proper recovery of contaminated soil and liquid.

Area of Review



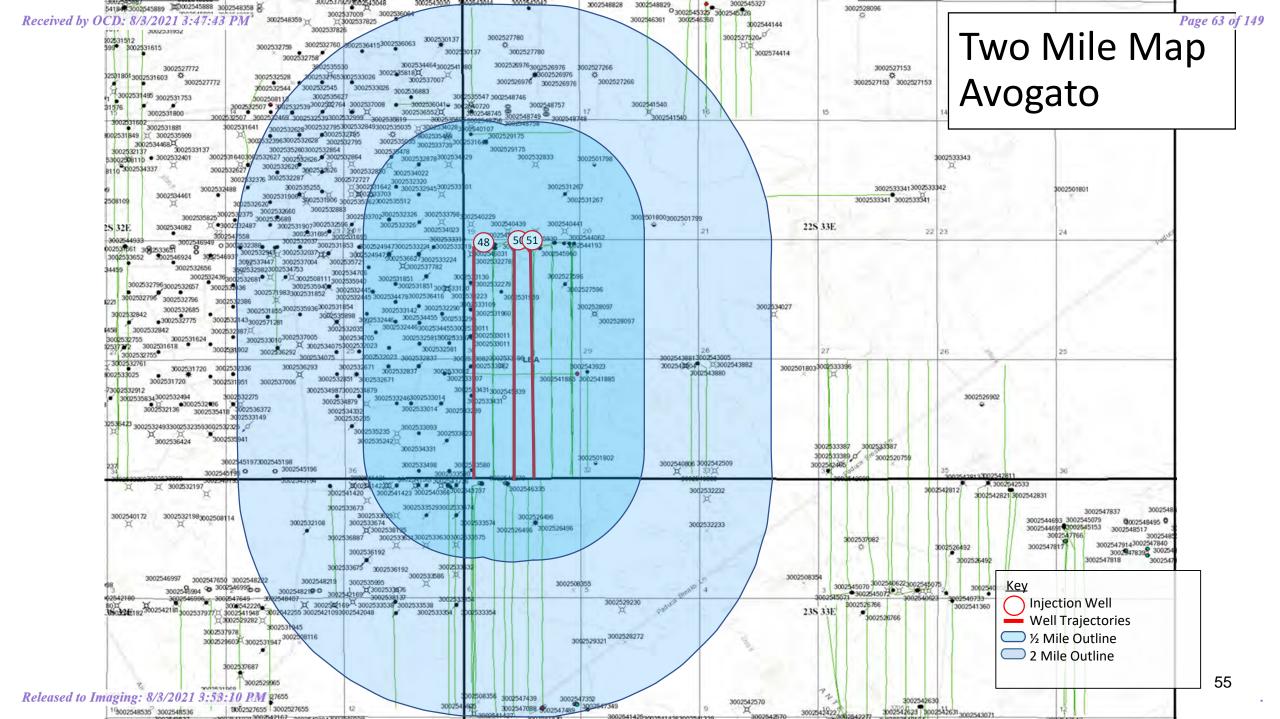
NENM GAS LIFT NETWORK LEA COUNTY, NEW MEXICO





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	now search results									2	7 8						30-025-028							
30-025	NESE 37018	aco C	`at Δ(lan	NWSW (L)	NESW (K) j	NWSE (J) 21	No 10 0254	08109 NWSW (L)	NESW (K)	NWSE (J) 30-025-3440	NESE 30	30-0 (L)	25-32376 NESW 30- (K) 30-025	02 5-31 900 30 02 5-3 32620 30-0		33 30:025/3370 125-316-2	30-025 <u>255</u> 12 30-025 <u>255</u> 12	0-025-32320 NWSS (2)0-025	32945 NESE *30;025-3370		E doy	-
NSE 0) 1848730	-	20734 SW5W (M)	SESW (N)	SWSE (0)	BESE (P)	SWSW (M)	SESW (N)	SWSE (0)	SE SE (P)	SWSW (M)	SESW (N)	16	30-02513 582 530 (P)	30-025-3237 1-025-324873W (M)	5 SESIO-025- (N)	025-32660 35689 <u>SWSE</u> (O) • 30-0	SESE (P) 125-31907 ³⁰⁻⁰²⁵	30/025-337((M) 3169530-025-325(275 /#	30-021 se SW (N)	5-32326 30-025 8005E (0)	3402330-025-3379 BESE (P)		30-025	
MVE B)	NENE (A)	NWNW (D)	NENW (C)	NWINE (B)	NENE (A)	NVINV (D)	NENW (C)	30-02 -3125 36-02 - 4 4833 NWN (18-125-47 30-125-47	3 18 2430-00-47125	2	5 6 25 6	40932 30-023 -460 40935 -30-023 -4755 125-33651Ni 125-33651Ni 125-33651Ni 125-33651Ni 125-33651Ni 100 100 100 100 100 100 100 10	02 5-3 507 (30-02) (2 5-3 507 (30-02) (5	30-025-3 -32437 NMNW 3 (D) 30-	2462 30- 0-025-32388 (0-30-025- 025-37972	(25-3294730-025-3 (5-41127● 1893(20-025-3 36549 (€)30-02	2037 582 4302025-3553 5-3700428-025-31		31850 5720 NE138-025 (Ĉ)	30-025-34627 30-025-34627 30-025-37/12	30-025-33319 33224 NET#30-02 (A)	30-025-4593630- 30-025-459 3313530-025-45 *30-025-322	925-45957 - 30-93 9259-925-45974 9259-925-459726 9259 NENN 70 (C)	(B)
ANE G)	SENE (H)	SWNW 20- (E) •	025-37646IW (F)	SWNE (C)	SENE (H)	SWWY (E)	SENW (F)	Sind (G)	30-025-3445930- SENE (H)	025-37595	SENW		30-025 BENE	-32436 30/025-32463 • (E)	· Prop. server	1 30-025-3290 52962 SWNE 30-0 30-025-01111		35940 ^{SWWW} (E) 30	SENW 3 (F) 025-32445	.30	925-33399 SERIO-025- (H) 30°025-3322	2278 ³⁰⁻⁰²⁵⁻³³¹	30 SENW (F) 30-025-3195	5WM (C)
MBE J)	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NWSW (L)	NESW (K)	HWS (J) 30-62-3218	NESS.	025-34221 NWS (L) 2	1 5 3 2 4 2 0	23	32685 NE 30-02: (¶)	30-025-3238 532143 NWSW (L)	NE 00 5-3	1855 MM30-825-3	5936 NE30-025 (1) 30-025-3498630 30	31054 KWSW 30 (L) 925-3588 30 -025-34521 *		0-025-34479 30-025 NWSE (J) 0-025-3244630-025	33142 30-025-3229 (1) -34455	30-025-331 L 3 225 33E	09 NEBW (K)	NWSE (U)
MSE 0) 025-373- *30	SESE (P) 4530-025-3734430- 025-38464 30-	SWSW (M) 1-125-384500-025- -025-41260	SESW (N) 3734630-025-4126 3846530-025-3846	SWSE (0)	SESE (P)	swsw (M)	SESW (N)	SWS (0) 30-025-3115530- •30-027-3600	30-4 55-3777230-025-3 (P)	1456 1656 14 9-0	125-3275SE SW	SWSI 30 (O) •025-31618	@5-3162430-025 (₱)	30-025-32383 631902 SWSW (M)		(₿)	6292 SESE 30 (P) 30	-02 5-32 20 /3W (M) -02 5-3 407530-02 5	30-025-34705 SESW 32023	SW30-025 5-32036 (₿)	32.581 ⁷⁵⁰ 30-025- (₱)	30-025-3301130 53074 L-4	-125-31968 BESW (N)	9W58 (0)
30:025-2	10423 NEWE -30- (A) -025-34912	30-025-4 -025-36350 -025-3613 -025-3613	NE/30-025-	4331230-025-3779	025-3160330-025-	36004 NWNW (D)	· · · · · · · · · · · · · · · · · · ·	*30-	30-025-3302530- 025-33231 * NENE (A)	(25-34460 130-025-35 NMN (D)	24 - 32 7 1 NE 15	-025-326554 30 (B)	@5-31720∦ (♠)	511954 ^{30,025,3233} (D)	NENW 30- (C)	(8)	6293 NENE 30 (A)	-025-328584W \$30,025-3	38-02 NENW 2671 (C)	5-20810 30-025 NWNE (8)	32 837 30-02 5-33 ● (\$30-025-		NEMW (C)	NWNL (B)
MNE G) 30	SENE 30- (H) -025-36911	30-825- (E) 30-025-3613	3613730-025-3703 5-4009 8796 SENW (F)	17 10 10 10 10 10 10 10 10 10 10 10 10 10	31694 SENE (H)	SWNW (E)	5ENW 30- (F)	30-025-3406930- 025-36053-025- 025-36050 N	025-3654830-025-3 33232 [©] 30-025-3 SENE (H)	17 ^E	22 425	355 12 - 25	32136 SE(30-02) (f)	53 1 002 20:025-3 63 72 0-025-3 5478 ³ 0-025-	SENW 12275 (F)	SWNE (C)	30-025 BENE (H)	34987 30-025 SWNW 30 (E)	(F)	0-025-332.40 E • 30-025-330	30.025-3323 4 • (H)	30-025-334	31 30-025-45 SENW (F)	5839 SWNE (G)
MSE J)	NESE (1) 30	WW30-025-	3 £77 4381(225-3655 3 770 4 ³ 40-025-4009	32 56 NWSE 52 (J)	NESE (1)	NWSW (L)	30- NESW (K)	025-3323331-025- ¹⁰ 3-025- 14W5 (J)	56400 57784 NESE (1)	30-62 (364 • NWS (L)	423 NES30-025- (R3,0-025-	32493 NW30-025 36424 (ව) 	12355 NE30-02 (¶30-02) 241	-35941 NWSW	25-33149 NESW (K)	NWSE (J)	NESE (1)	30-025-352 WWSW (L.)		0-425-35242 39-025 (3) 0-025-34331	33093 NESE (1) 30-025-3	L3 (2)	NESW (K)	MWSE (J)
MSE 0) -025-452		5W5W -3661130-025-3766	SESW 31 (N) 30-02 5-19978	SWSE (0) 025-4150530-025-3 ®30-025-3		SWSW (M) 025-43366	SESW (N) 10-025-3778330-0 10-025-3601730-0	SW98 (0) 25-36550 2 5-43307	SESE (P)	5W5 (M 025-41237	SESW (N)	SWSE (0)	(P		ion Wel		SESE (P)	SWSW (M)	SESW (N)	BWSE (0) 	SESE (P) 30-025-			swse (0)
	4118 430-025-4818: 30-02 5- 02 5-4818 30-025-	3 -3636630-025-3718 -36466 L 4	L3	LZ		20-025 L4	40534 [#] ³⁰⁻⁰²⁵⁻ L 3	40335 L 2	"2	La	0-025-33369 30	425-33348 L 2	3773.8	Well I	Trajecto D on AC Region	ries DR Table	, SHL	-40181 30 0 *30-025 8 0 L 4 = 30	25-4142 010-025- = 30-02: L 3 025-33673	41 ⁴ 421 30-025-41 5-41422 1 L 2	50130-025-43736 025-4373730-025-4 L 1	0-025-4637130-03 3738 L 4 235 33	25-46372 30-025-4 25-46278 30-025-4 L 3	46335 46279 L 2
	-36600 SENE (\$17-025	1	SENW (F)	SWNE (G)	SENE (H)	SWNW (E)	SENW (F)	SWINE (G)	30-075-4017 30-117	SWWW (E)	0-025-40155100	5445-025 (6)	32138 SEX 0-021	(E)	SENNY (P)	•	BENE (H) 125-32108		SENW (F)	0-025-33629 30 SWNE (G)	625-33529 30- SENE (H)	25-33574 L 5	SENW (F)	100)
G) wse J)	(H) NESE (1)	(E) NW/SW (L)	(F) NESW (K)	G (G) NWSE (J)	(H) NESE (I)	(E) NWSW (L)	(F) NESW (K)	(G) NAVSE (J)	(H) NESE (1)	(E) NWSW (L)	(F) NESW (K)	(G) NWSE (J)		Note- We SHL on th	_	-	er do no	ot have a		0-位25-33 63行) 30 NWSE (J)	425-33 ຄົງໃື້) 30- NESE (1)	L 5 125-33575 L 6	(F) NESW (K)	(6) (W) (J)
WSE 0 1 30-021	BESE (P)	SW5W (M)	235 32E SESW (N)	SWSE (0)	SESE (\$04025-44 310-025-4	SW SW 6) 573 0-626 1463 583 83 593 0-02 5-47 092	SE 9W 10-02 5-4090 20-02 5-46091	30-925-3163 Δ	50 (P) 30- 33-00	SWSW (M) (25-46008 5-48599	SESW (N)		SE SE 02.5-4590 (3) - 42.5	swsw 45996 30 ⁵ 0 5-4122 47650 •30	SESW	NEAL ROL	SESE (P) 0-02.5-483.15 218 20-02.5-482.19	5W5W (M) 30-025-3810830 30-025-38137	02:5-35995	0-425-33585	30- 325-33585E (P)	235-33632 235-33E L 7	SESW (N)	BWSI (0)
0-025-40 NF	112 ³⁰⁻⁰²⁵⁻⁴⁴²⁹² 3	30-025-41884 •	0-025-45068	1 /	NENE	NAMAN	NENW		NENE	39-025-4 90000	2110 30-025-42 Frit005-42	30-025-42 182 • 23.0	30-02 5-4 30-02 5-4 NENE	183 184 30-025-419 NWWW	58 <u>39-92</u> 5-4222		5-421 09 3.0-0 5-422 90ENE		NENW	-025-42170	NENE .	25-33354	NENW	NAN

30-025-4595 Show search r	58 esults for 30-025.	X Q 0-025-3 22875) 30-0		551130-025-32850 = SWNW (E)	SENY ³⁶⁻⁰²⁵⁻³⁴ (F)	(G)	32#78 30-025- SENE (H)	14029 L 2	SENW (F)	2	30-025-32 WINE (G)	SENE (H)	30-02 SV#AV (E)	15-01798 50 (PMW F)	SWME (G)	SENE (H)	SWNW (E)	SENW (F)	SWNE (G)	SEVE (H)	SWNW (E)	SENN (F)	SWNE (G)		
Av	ogate	o AO	R Ma		30-d25 0-025 <u>355</u> 72 5362 (К) 24	-12320 N//SE (-330-025-	32945 NESE *31,023-3370	1.1	NESW (K)		IN SE (J)	N=30-025	-31267 NWSW (L)		SW K) 2	NWSE (J)	NESE (1)	NWSW (L)	NESW (K) 2	NWSE (J)	NESE (I)	NWSW (L)	NEBW (K) Ż	NWSE 4003		
30-025-32375 25-324873W N25 (M)	30-02 32530-025-3 (91)	(0) 30-(SEBE (P) 125-31907 ³⁰⁻⁰² 5-3	30/02 5/33 702 (M) 169530-02 5-32 590 75 //*	30-025-3233 BESW (N)	(1)	402330-025-3379 * SESE (P)			0-025-40439		SESE (P) 440 30-025			ESW N)	awa≞-025-0 (Ĉ)	1100 <u>8830-025-0</u> (予)	1799 BWSW (M)	SEBW (N)	SWSE (0)	(P)	SWSW (M)	SESW (N)	SWSE (0)	sese (P)	SW5W (11)
1824 (D)		-41127 30-825-3	2 03 7 3 0 400 5 - 3 5 5 3 1 (700 4 3 0 : 02 5 - 3 5 9 2 4	(0)	(C)	-02 -36627	73 125-33319 73 4 NEN20-025 (A)	44 48 34 49	45 46 42 ⁴³ 47	7 50 5:	1 53 ⁵	57 58 59 55 (A)	9		ENW C)	NWINE (11)	NENE (A)	NWNW (D)	NENW (C)	NWNE (8)	NENE (A)	NWWW (D)	NENW (C)	NWNE (B)	NENE (A)	NWIW (D)
436 30-025-32463 • (E)	 A set of a set of a 	30-025-3290 2912 SWE 30-0 30-025-09111			30-825 SENW 30-825 (F) 25-32445	30	25-33399 SE73,0-025- (H) 30 ⁰⁰ 25-3322	65 66 G6	64 02		N NE (;)	61-025	-27596 Synw (E)	SI (ENW F)	SWINE (G)	SENE (H)	SWNW (E)	惩MW (F)	SWNE (G)	SENE (H)	SWMW (E)	SENW (F)	SWNE (0)	SENE (H)	S\\\\\\ (E)
30-025-32386 143 //WSW (L)	N 100-025-311 ● 11	155 MW30-025-0 ())	5936 (12)30-325-3 (9) 30-325-3498 530-0	1854 NWSW 30-0 (L) 25-35898 30-8 25-34521	30-025- 25-33654W (K) 25-32035 30-025	70	\$3142 72 1) 34453	0 37 3 225 33E	NESW			NESE (1)	N4 (20-02 (E)	15-28097 M	EBW K)	NWSE (J)	NEBE (1)	NWSW (L)	NEBW (K)	₩0 <u>0</u> -005-0 (3)	4027 NESE (1)	MWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NW5V (L)
30-025-02387 902 SWSW (M)	SE SW 30-00 0-02 \$13 91 0	(8)	(2122 SESE 30-0 (P) 30-0		30-025-34705 555W (N3,0-025-320) 2023	2.025	92584 025-	80 1-3301137 L 4	-025-31960 SESW (N)		A SE	SESE (P)	SUKSW (M)		ESW N)	SMSE (0)	歷经 (P)	ewew (M)	SESW (N)	SWSE (0)	SESE (P)	swsw (M)	SESW (N)	SWSE (0)	SESE (P)	SWSV (M)
951 ₃₀₋₀₅ 2-35336	NENW 30-00 (C)	25-3760930-025-3 (音)	(A)	25-32853-1/v 3.0j:025-32	NENW I	10 76 025- (B)	\$2837 35 ⁹²⁵⁻³³ 9-025-	79 +025-330 00112 L 1	12 30-02 NENW (C)		() NE () 3)	NEI 139 (A) 4	1 62 ⁰²¹⁻⁴	3923 N	ENW G)	NWNE (B)	30-025-43004 30-025 30-025 NENE (A)	0-025-43005 03801 43880 NWWW (D)	NENW (C)	(8)	NEI10-025-0 (常)	1803 NWR3Q-025-3 (Ö)	33.96 NENW {C}	NANE (B)	NENE (A)	N////// (D)
93230-025-36372 25-35418 9-025-32	SENW 2275 (F)	swie (G)	30-021-3 SENE (Н)		4879 25-3 4332WV 30-025 (F)	-33/46/E •30-02/5-3301	(77 ¹²⁵⁻³³²	81) 1-425-334 L 2	63 (F)	25-45839	N NE (})	SENE (H)	SUAW (E)		ENW F)	SWNE (G)	SENE (H)	BWNW (E)	SENW (F)	SWNE (G)	SENE (H)	swww (E)	SENW (F)	SWNE (G)	SENE (H)	SWRAV (E)
30-02 A 141 NWSW 25 (L)	3149 NESW (IC)	NWSE (J)	NESE (1)	30-025-35235 NWSW (L)	NESW 30-025 (K) 30-025	74	78 725-3	L3	NESW (K)		NISE (1)	NESE (1)	NVSW (L)	N	Ke	<u>V</u> Injecti	on Well	, SHL	NESW (IK)	NWSE (J)	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	NESE (1)	NW5N (L)
swsw -a25-4519330-a23 6930-a23	SESW 5-45197 30-02 9-45195 #30-02	SWSE (0) 5-45194 5-45196	SESE (P)	SWSW (M)	SESW (N)	75 R 5	29 22	82 -425-335	SESW (N)		a se ())	SESE (P)	54 (30-00 (fi)	25-01802 5		Well T Well II	rajector) on AO		SHL		SESE (P) 30-025	SWSW 30-4 (M) -4269830-025-424	30-025-33387 25-33 <u>389</u> W (N) 65	5 <u>843</u> 8-025-2 (8)	0759 <u>SESE</u> (P)	SWSW (M)
L 4 235 32E	L3	L2	30-@5-4 • L1	L.4	5-41 4203 0-02 5-41 42 *** 30-82 5-41 42 L 3 2 5-33 6 73	33 66 9	36 38			025-46335 025-46279	-	.,		-	Č	AOR R Well o		st	13	L2	L1 osters they	L.S. 1.4		12	11	L4
114 (E) SWNW - (E)	5ENW (F) (F)	SWNE (G) 30-4 SWNE (G)	SENE (H) 25-32108 SENE (H) 235 32E		(F) 30-025	(G)	425-33529 SENE (H) SENE 425-33600 20		SENW (F) (F)		60 025-30 (0)	(H)	SMNW (E) SWNW (E)	s 		te- Wel L on the		y borde ea.	sew r do not	swe t have a	SENE (H) SENE (H)	SWNW (E) SWWW (E)	SENW (F) SENW (F) 30-025-37 O	SWNE (G) SWNE (G) 062	SENE (M) SENE (H)	02 SWM (E) SWM (E)
NWSW (L) 0.4km	(K)	NWISE	NESE (1)	NWBW 30-025-361 92 30-0	NESW 01 (K) 25-33675	NWSE	NESE (1)	1.6	кези (К) 87 88		WSE (J)	NESE (1)	(L)	NE (K)	NWSE (J)	(0)	(1)	(K)	NWSE (J)	NESE (1)	NWSW (L)	NESW O	NWSE	(U)	0-025-20 NW9V

Page	65	of	149
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			WELL			Footages	Footages		Surface Surfa Location Locati			True Vertical Depth	Measured	HOLE	CSG SIZE	SET AT		CMT TO HOW WELLFILE MEASU	3		
Well ID API NUMBER	Current Operator	LEASE NAME			: Status:		E/W E/\		Section TShi		Spud:			SIZE [in]	[in]		SX CMT	[ft] ED	Current Completion [ft]	Comment	Current Producing Pool
1 30-025-44933 C	JAT USA INC	TACO CAT 27 34 FEDERAL COM	011H	Oil	Active	260 N	855 W	D	27 225	32E	7/29/2018	9514	19732	17.5 9.875	7.625	867 8810	800 2225	0 Circ 204 Calc	9445-19621		[51683] RED TANK; BONE SPRING
2 30-025-45892 N	MARATHON OIL PERMIAN LLC	FRIZZLE FRY 15 WXY FEDERAL COM	007H	Oil	Active	274 N	852 W	D	15 225	32E	8/13/2019	12111	22217	8.75 17.5		19703 1074	705 920	5800 CBL 0 Circ	12320-22126	Top of 5.5" liner 11794'	[98258] WC-025 S223203A; LWR WOLFCAMP (G
														12.25 8.75	9.625 7	8906 11794	2050 890	0 Calc 0 Circ			
														8.75	, 5.5		3740	2179 Calc			
3 30-025-41189 C	DXY USA INC	RED TANK 28 FEDERAL	005H	Oil	Active	295 N	880 E	A	28 225	32E	9/25/2014	8418	13270	14.75 10.625	1.75 8.625	927 4650	690 1120	0 Circ 0 Circ	8602-13122		[51689] RED TANK; DELAWARE, WEST
														7.875	5.5	13270	1590	0 Circ			
4 30-025-41237 C	DXY USA INC	RED TANK 33 FEDERAL	001H	Oil	Active	330 S	330 E	Р	33 225	32E	9/23/2014	8431	13014	14.75 10.625		1129 4655	840 1110	0 Circ 0 Circ	8690-12788		[51689] RED TANK; DELAWARE, WEST
5 20 025 44024			02411	0.1		260 N	705 11/		27.226	225	7/27/2010	10010	20004	7.875	5.5		1640	0 Circ	10000 20701		
5 30-025-44934 C	JXY USA INC	TACO CAT 27 34 FEDERAL COM	021H	Oil	Active	260 N	785 W	D	27 225	32E	7/27/2018	10849	20904	17.5 12.25		858 6484	1100 1685	0 Circ 0 Circ	10699-20791		[51683] RED TANK; BONE SPRING
6 30-025-44935 C		TACO CAT 27 34 FEDERAL COM	031H	Oil	Active	260 N	820 W	D	27 225	32E	7/25/2018	12205	22168	8.5 17.5		20882 825	2335 1140	0 Circ 0 Circ	11982-22029		[98286] WC-025 G-08 S223227D; UPPER WOLFCA
0 30-025-44555		TACO CAT 27 34TEDENAL COM	03111	Oli	Active	200 1	820 W	D	27 225	JZL	772572018	12205	22100	12.25	9.625	8619	2265	0 Circ	11562-22625		
														8.5 6.75		11075 22144	155 700	6800 Calc 10500 Calc			
7 30-025-45887 N	MARATHON OIL PERMIAN LLC	FRIZZLE FRY 15 TB FEDERAL COM	001H	Oil	Active	273 N	792 W	D	15 225	32E	8/15/2019	11967	21990	17.5	13.375	1061	940	0 Circ	12024-21908		[51683] RED TANK; BONE SPRING
														12.25 8.75		8910 21977	2050 890	2476 Calc 0 Circ			
8 30-025-45890 N	MARATHON OIL PERMIAN LLC	FRIZZLE FRY 15 WA FEDERAL COM	002H	Oil	Active	273 N	762 W	D	15 22S	32E	8/16/2019	12115	22467	17.5	13.375	1086	940	0 Circ	12606-22334	Top of 4.5" liner 11762'	[98166] WC-025 G-09 S233216K; UPR WOLFCAM
														12.25 8.75	9.625 7	8914 12527	3240 1000	0 Circ 0 Circ			
9 30-025-32796 C			004	Oil	DA	2310 N	2310 W	r	27.226	32E	8/0/1006	8730	8730	6.125 14.75	4.5 10.75	22457 805	1005 780	11762 Circ	N/A		NI/A
9 30-023-32796	JAT USA INC	FEDERAL 27	004	UII	PA	2310 N	2310 W	F	27 225	52E	8/9/1996	8750	8750	9.875		4464	1230	0 Circ 0 Circ	N/A		N/A
10 30-025-32657 C		PRIZE FEDERAL	007	Oil	Active	2310 N	1980 E	6	27 225	32E	7/6/1996	8715	8715	6.75 14.75		8730 830	1095 780	2800 Calc 0 Circ	8364-8416		[51689] RED TANK; DELAWARE, WEST
10 30 023 32037	SAT USATILE		007	01	Active	2510 1	1500 L	0	27 225	522	7,0,1550	0/15	0,15	9.875	7.625	4490	1200	0 Circ	0504 0410		
11 30-025-34221 C	DXY USA INC	RED TANK 28 FEDERAL	006	Oil	Active	2310 S	330 E		28 225	32E	8/23/1998	8700	8700	6.75 14.75		8715 815	1080 750	3550 Calc 0 Circ	8300-8540		[51689] RED TANK; DELAWARE, WEST
											-,,			9.875	7.625	4435	1050	0 Circ			[]
12 30-025-32136 C	DXY USA INC	RED TANK 34 FEDERAL	004	Oil	Active	1980 N	1980 E	G	34 225	32E	1/21/1994	8850	8850	6.75 17.5		8700 764	995 1050	4150 Calc 0 Circ	4800-4820; 8414-8442		[51689] RED TANK; DELAWARE, WEST
														11		4750	1750	0 Circ			
														7.875	5.5	8850	1240	2660 Calc	7188-7204; 7299-7310; 7638-		
13 30-025-32797 C	DXY USA INC	FEDERAL 27	005	Oil	Active	2310 N	990 W	E	27 225	32E	11/11/1996	8714	8714	14.75 9.875		808 4450	700 1200	0 Circ 0 Circ	7690; 8356-8378		[51689] RED TANK; DELAWARE, WEST
														6.75			900	2990 Calc			
14 30-025-32755 C	DXY USA INC	FEDERAL 27	008	Oil	PA	580 S	790 W	Μ	27 225	32E	6/9/1995	8732	8732	14.75 9.875		822 4250	800 1400	0 Circ 0 Circ	N/A		N/A
														6.75	4.5	8732	875	2030 Calc			
15 30-025-32655 C	DXY USA INC	RED TANK 34 FEDERAL	014	Oil	Active	710 N	2310 W	С	34 225	32E	9/21/1994	8718	8718	17.5 11		800 4511	950 1800	0 Circ 0 Circ	8378-8412		[51689] RED TANK; DELAWARE, WEST
16 20 025 24002			011	0:1	A =+1: -=	220 5	2210 5	0	22.226	225	0/10/1007	0700	0700	7.875	5.5	8718	1420	2550 Calc	7000 7100, 0200 0440		
16 30-025-34082 C	JXY USA INC	PRIZE FEDERAL	011	Oil	Active	330 S	2310 E	0	22 225	32E	8/19/1997	8780	8780	14.75 9.875		802 4500	800 1550	0 Circ 0 Circ	7000-7168; 8360-8440		[51689] RED TANK; DELAWARE, WEST
17 30-025-32912 C		RED TANK 34 FEDERAL	015	Oil	PA	1700 N	180 W	5	34 225	32E	6/24/1995	8742	8742	6.75 14.75		8780 818	1255 700	2250 Calc 0 Circ	N/A		N/A
17 50-025-52512	SAT USATILE		015	Oli		1700 N	100 W	L	54 225	JZL	0/24/1999	0742	0742	9.875	7.625	4520	1400	0 Circ	177		11/2
18 30-025-31661 C	DXY USA INC	RED TANK 28 FEDERAL	001	Oil	Active	330 N	330 E	А	28 225	32E	10/20/1992	8740	8740	6.75 17.5		8742 817	900 850	3674 Calc 0 Circ	7004-7218; 8373-8409		[51689] RED TANK; DELAWARE, WEST
											-, -,			11	8.625	4500	1800	0 Circ			
19 30-025-31618 C	DXY USA INC	FEDERAL 27	001	Oil	Active	330 S	2310 W	N	27 225	32E	6/18/1992	8850	8850	7.875 17.5		8740 850	1125 1060	2900 Calc 0 Circ	8330-8391		[51689] RED TANK; DELAWARE, WEST
														11 7.875			2158	0 Circ			
20 30-025-32775 C	DXY USA INC	FEDERAL 27	007	Oil	Active	1650 S	2310 W	К	27 225	32E	7/8/1995	8734	8734			8850 805	2360 700	2360 Calc 0 Circ	8370-8470		[51689] RED TANK; DELAWARE, WEST
														9.875 6.75			1400 980	0 Circ 1775 Calc			
21 30-025-32842 C	DXY USA INC	FEDERAL 27	006	Oil	PA	1650 S	990 W	L	27 225	32E	10/11/1995	8700	8700	14.75	10.75	825	600	0 Circ	N/A		N/A
														9.875 6.75			1300 1000	0 Circ 2358 Calc			
22 30-025-35834 C	DXY USA INC	RED TANK 34 FEDERAL	012	Oil	Active	1980 N	1980 W	F	34 225	32E	4/20/2002	8795	8795	14.75	10.75	1025	800	0 Circ	8420-8435		[51689] RED TANK; DELAWARE, WEST
														9.875 6.75		4570 8795	1404 985	0 Circ 0 Circ			
23 30-025-32656 C	DXY USA INC	PRIZE FEDERAL	006	Oil	Active	990 N	2310 E	В	27 225	32E	1/27/1997	8756	8756	14.75 9.875		830 4486	800 1450	0 Circ 0 Circ	8346-8360		[51689] RED TANK; DELAWARE, WEST
														6.75	4.5		780	3280 Calc			
24 30-025-32761 C	DXY USA INC	RED TANK 34 FEDERAL	013	Oil	Active	410 N	990 W	D	34 225	32E	12/8/1994	8722	8722	17.5 11		812 4475	950 1800	0 Circ 0 Circ	8366-8392		[51689] RED TANK; DELAWARE, WEST
											10/1			7.875	5.5	8722	1210	3096 Calc			
25 30-025-33651 C	DXY USA INC	FEDERAL 27	003	Oil	Active	660 N	2310 W	С	27 225	32E	12/27/1997	8800	8800	14.75 9.875		804 4470	800 1500	0 Circ 0 Circ	6987-7150		[51689] RED TANK; DELAWARE, WEST
														6.75				2594 Calc			

26 30-025-33652 OXY USA INC	FEDERAL 27	002	Oil	Active	990 N	990 W [27 225	32E	6/8/1998	8653	8653	14.75 9.875	10.75 7.625	804 4460	750 1150	0 Circ 0 Circ	7184-7678		[51689] RED TANK; DELAWARE, WEST
												6.75	4.5	8653	1080	2650 Calc			
7 30-025-32685 OXY USA INC	PRIZE FEDERAL	008	Oil	Active	1980 S	1980 E J	27 225	32E	12/7/1995	8750	8750	14.75	10.75	803	550	0 Circ	8376-8400		[51689] RED TANK; DELAWARE, WEST
												9.875	7.625	4510	1275	0 Circ			
												6.75	4.5	8750	1050	3504 Calc			
8 30-025-33074 OXY USA INC	COVINGTON A FEDERAL	011	Oil	Active	660 S	660 E P	25 225	32E	10/28/1995	9010	9010	14.75	10.75	802	600	0 CIRC	8070-8084; 8552-8570		[51689] RED TANK; DELAWARE, WEST
												9.625	7.625	4720	1000	0 CIRC			
		007	0.1		220.6		26.226	225	12/10/1000	0100	0100	6.75	4.5	9010	900	3110 CBL	0040 0000		
9 30-025-33688 EOG RESOURCES INC	MULE DEER 36 STATE	007	Oil	Active	330 S	660 E P	36 225	32E	12/10/1996	9100	9100	12.25	9.625 7	850	365	0 CIRC	8942-8989		[51683] RED TANK; BONE SPRING
												8.75 6.125	4.5	4600 9100	965 1050	0 CIRC 5865 CBL			
30 30-025-33399 OXY USA INC		014	0:1	DA	1650 N	1650 E 0	G 25 22S	32E	4/27/1006	8966	8966	14.75	4.5	800	800	0 CIRC	N/A		N/A
30 30-023-33399 OXT 03A INC	COVINGTON A FEDERAL	014	Oil	PA	1050 N	1050 E 0	25 225	52E	4/27/1996	8900	8900	9.875	7.625	4670	1150	0 CIRC	N/A		N/A
												6.75	4.5	8966	1100	3202 CBL			
31 30-025-45928 OXY USA INC	AVOGATO 30 31 STATE COM	033H	H Oil	Active	240 N	1420 W 0	30 225	33E	6/24/2019	11991	22103	17.5	13.375	1050	1340	0 Circ	11819'-22000'		[51687] RED TANK; BONE SPRING, EAST
			-						-,,			12.25; 9.8	7.625	11336	4119	0 Circ			[]
												6.75	5.5	22103	831 11				
32 30-025-33224 OXY USA INC	COVINGTON A FEDERAL	016	Oil	PA	660 N	1980 E E	25 225	32E	7/23/1996	8980	8980	14.75	10.75	830	780	0 CIRC	N/A		N/A
												9.625	7.625	4695	1125	0 CIRC			
												6.75	4.5	8980	490	5828 CALC			
33 30-025-33370 CIMAREX ENERGY CO.	THYME APY FEDERAL	001	Oil	PA	330 N	1650 E E	3 1 23S	32E	4/9/1996	10250	10250	17.5	13.375	1165	750	0 CIRC	N/A		N/A
												12.25	8.625	4790	1175	0 CIRC			
												7.875	5.5	10250	1075	CALC			
4 30-025-45924 OXY USA INC	AVOGATO 30 31 STATE COM	021	H Oil	Active	420 N	1350 W 0	30 225	33E	7/13/2019	10755	20863	17.5	13.375	1052	1340	0 Circ	10951'-20804'	5.5" Liner from 10106'-20875'	[51687] RED TANK; BONE SPRING, EAST
												12.25	9.625	6425	1213	0 Circ			
												8.5	7	10106	2569	4900 Calc			
												8.5	5.5	20875	2569	4900 Calc			
																		Well of Interest. Delaware and	[51683] RED TANK; BONE SPRING; [51689] RED
35 30-025-33107 EOG RESOURCES INC	MULE DEER 36 STATE	004	Oil	Active	660 N	860 E A	36 22S	32E	10/10/1995	9007	9007		13.375	853	750	0 CIRC	8848'-8871'; 8466'-8539'	Avalon Sand Perfs in commingled	TANK; DELAWARE, WEST
												12.25	8.625	4665	1600	0 CIRC			
												7.875	5.5	9001	1150	4850 CALC			
36 30-025-43738 CIMAREX ENERGY CO.	CORIANDER AOC 1-12 STATE	003H	H Oil	Active	330 N	730 E A	1 235	32E	8/6/2018	9570	19431	17.5	13.375	1290	1525	0 CIRC	9682'-19335'	4.5" liner from 8037'-19431'	[17644] DIAMONDTAIL; BONE SPRING
												12.25	9.625	4975	1860	0 CIRC			
												8.75	7	12408	1325	1110 CALC			
									. /			6	4.5	19431	715	1110 CALC			
37 30-025-33109 OXY USA INC	RED TANK 30 STATE	002	Oil	Active	2145 S	330 W L	30 225	33E	4/23/2000	9020	9020	14.75	10.75	825	775	0 CIRC	8862-8884		[51689] RED TANK; DELAWARE, WEST
												9.875	7.625	4720	1210	0 CIRC			
	CORIANIDER ACC 1 12 STATE	0011		A	200 N	500 F	1 220	225	0/1/2017	0557	10004	6.75	4.5	9020	1050	3588 CALC	04701 10070		
38 30-025-43736 CIMAREX ENERGY CO.	CORIANDER AOC 1-12 STATE	001	H Oil	Active	390 N	590 E A	1 235	32E	8/1/2017	9557	19004	17.5	13.375	1295	302	0 CIRC	9470'-18976'		[17644] DIAMONDTAIL; BONE SPRING
												12.25	9.625	4982	1773	0 CIRC			
39 30-025-41501 CIMAREX ENERGY CO.		0001		A	220 N	2020 5 5	1 220	225	10/12/2017	0250	14027	8.75	5.5	19004	3859	2000 Calc	0450 14002		
9 30-025-41501 CIMAREX ENERGY CO.	THYME APY FEDERAL	009H	H Oil	Active	330 N	2030 E E	1 235	32E	10/13/2017	9250	14027	17.5 12.25	13.375	1321 4975	1460 1745	0 CIRC 0 CIRC	9450-14002		[51683] RED TANK; BONE SPRING
												8.75	9.625 5.5	14030	2570	0 CIRC			
MATADOR PRODUCTION												6.75	5.5	14030	2370	0 CIKC			
0 30-025-46278 COMPANY	RODNEY ROBINSON FEDERAL	101	H Oil	Active	240 N	827 W D	6 235	33E	9/29/2019	9899	20004	17.5	13.375	1335	1140	0 CIRC	9965'-19842'		[96228] PRONGHORN; BONE SPRING
	KODNET KODINGON TEDENAE	1011		Active	240 11	02, 11	0233	332	5,25,2015	5055	20004	12.25	9.625	8855	1574	5010 CALC	5505 15012		
												8.75	5.5	19989	3021	4056 CALC			
11 30-025-41885 OXY USA INC	RED TANK 31 STATE	005H	H Oil	Active	660 N	150 E A	31 225	33E	7/9/2014	10750	15423	14.75	11.75	1215	960	0 CIRC	11056'-15276'		[51687] RED TANK; BONE SPRING, EAST
		0051		<i>i</i> terite	000 11	100 2 /	. 51 225	002	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10,00	10 120	10.625	8.625	4930	1160	0 CIRC	11000 10270		
												7.875	5.5	15423	1690	3920 CALC			
42 30-025-45925 OXY USA INC	AVOGATO 30 31 STATE COM	022H	H Oil	Active	420 N	1385 W 0	30 225	33E	7/10/2019	10891	21097	17.5	13.375	1050	1340	0 CIRC	10982'-21006'		[51687] RED TANK; BONE SPRING, EAST
												12.25	9.625	6465	1207	0 CIRC			
												8.5		21073	2892	5900 CALC			
13 30-025-45926 OXY USA INC	AVOGATO 30 31 STATE COM	023H	H Oil	Active	420 N	1420 W 0	30 225	33E	7/8/2019	10769	20969	17.5	13.375	1050	1340	0 CIRC	10853'-20877'		[51687] RED TANK; BONE SPRING, EAST
												12.25	9.625	6450	1210	0 CIRC			
												8.5		20956	2710	5950 CALC			
44 30-025-45927 OXY USA INC	AVOGATO 30 31 STATE COM	032H	H Oil	Active	240 N	1385 W 0	30 225	33E	6/30/2019	11948	22127	17.5		1052	1340	0 CIRC	11850'-22031'		[51683] RED TANK; BONE SPRING
												9.875	7.625	11162	4050	0 CIRC			
												6.75	5.5	22105	874	8243 CALC			
15 30-025-45929 OXY USA INC	AVOGATO 30 31 STATE COM	031	H Oil	Active	240 N	1350 W 0	30 225	33E	7/3/2019	11948	22234	17.5	13.375	1055	1340	0 CIRC	11829'-22011'		[51687] RED TANK; BONE SPRING, EAST
												12.25	9.625	6435	1207	0 CIRC			
												8.5	7.625	11332	627	6241 CALC			
												6.75	5.5	22206	826	25 CALC			
46 30-025-45930 OXY USA INC	AVOGATO 30 31 STATE COM	034H	H Oil	Active	240 N	1820 E E	30 225	33E	6/20/2019	11886	22147	17.5	13.375	1050	1340	0 CIRC	11886'-22109'		[51687] RED TANK; BONE SPRING, EAST
												12.25	9.625	6422	1620	0 CIRC			
												8.5	7.625	11265	255	5900 CALC			
												6.75	5.5		795	5900 CALC			
		035H	H Oil	Active	240 N	1785 E E	30 225	33E	6/22/2019	12139	22280	17.5	13.375	1050	1340	0 CIRC	12117'-22118'		[98177] WC-025 G-09 S223332A; UPR WOLFCAN
47 30-025-45931 OXY USA INC	AVOGATO 30 31 STATE COM	0556										12.25	7.625	11544	2819	673 CALC			
47 30-025-45931 OXY USA INC	AVOGATO 30 31 STATE COM	0551										6.75	5.5	22265	790	9185 CALC			
							30 225	33E	9/8/2019	9426	19645	17.5	13.375	1049	1340	0 CIRC	9558'-19537'		[51687] RED TANK; BONE SPRING, EAST
47 30-025-45931 OXY USA INC 48 30-025-45956 OXY USA INC	AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM	0336	H Oil	Active	160 N	885 W D	50 225					42.25	9.625	8850	2149	0 CIRC			
			H Oil	Active	160 N	885 W [, 30 223								2150				
48 30-025-45956 OXY USA INC	AVOGATO 30 31 STATE COM	011										8.5	5.5	19614		8322 CBL			
18 30-025-45956 OXY USA INC					160 N 160 N	885 W C 920 W C		33E	9/10/2019	9614	19873	8.5 17.5	5.5 13.375	1037	1340	0 CIRC	9578'-19759'		[51687] RED TANK; BONE SPRING, EAST
18 30-025-45956 OXY USA INC	AVOGATO 30 31 STATE COM	011						33E	9/10/2019	9614	19873	8.5 17.5 12.25	5.5 13.375 9.625	1037 8890	1340 1670	0 CIRC 0 CIRC	9578'-19759'		[51687] RED TANK; BONE SPRING, EAST
8 30-025-45956 OXY USA INC 9 30-025-45957 OXY USA INC	AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM	011H 012H	H Oil	Active	160 N	920 W [30 225					8.5 17.5 12.25 8.5	5.5 13.375 9.625 5.5	1037 8890 19846	1340 1670 2130	0 CIRC 0 CIRC 6777 CBL			
18 30-025-45956 OXY USA INC 19 30-025-45957 OXY USA INC	AVOGATO 30 31 STATE COM	011	H Oil				30 225		9/10/2019 8/23/2019		19873 19645	8.5 17.5 12.25 8.5 17.5	5.5 13.375 9.625 5.5 13.375	1037 8890 19846 1060	1340 1670 2130 1340	0 CIRC 0 CIRC 6777 CBL 0 CIRC	9578'-19759' 9752'-19532'		[51687] RED TANK; BONE SPRING, EAST [51687] RED TANK; BONE SPRING, EAST
48 30-025-45956 OXY USA INC 49 30-025-45957 OXY USA INC	AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM	011H 012H	H Oil	Active	160 N	920 W [30 225					8.5 17.5 12.25 8.5 17.5 12.25	5.5 13.375 9.625 5.5 13.375 9.625	1037 8890 19846 1060 8910	1340 1670 2130 1340 1600	0 CIRC 0 CIRC 6777 CBL 0 CIRC 0 CIRC			
48 30-025-45956 OXY USA INC 49 30-025-45957 OXY USA INC 50 30-025-45958 OXY USA INC	AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM	011F 012F 013F	H Oil H Oil	Active Active	160 N 160 N	920 W E 2375 E E	30 30 225 33 30 225	33E	8/23/2019	9397	19645	8.5 17.5 12.25 8.5 17.5 12.25 8.5	5.5 13.375 9.625 5.5 13.375 9.625 5.5	1037 8890 19846 1060 8910 19631	1340 1670 2130 1340 1600 2150	0 CIRC 0 CIRC 6777 CBL 0 CIRC 0 CIRC 8380 CBL	9752'-19532'		[51687] RED TANK; BONE SPRING, EAST
48 30-025-45956 OXY USA INC 49 30-025-45957 OXY USA INC	AVOGATO 30 31 STATE COM AVOGATO 30 31 STATE COM	011H 012H	H Oil H Oil	Active Active	160 N	920 W [30 30 225 33 30 225	33E		9397		8.5 17.5 12.25 8.5 17.5 12.25 8.5 17.5	5.5 13.375 9.625 5.5 13.375 9.625	1037 8890 19846 1060 8910	1340 1670 2130 1340 1600	0 CIRC 0 CIRC 6777 CBL 0 CIRC 0 CIRC			

52 30-025-45960																			
52 50 025 45500	OXY USA INC	AVOGATO 30 31 STATE COM	024H	Oil	Active	420 N	1820 E	В	30 225	33E	7/16/2019	10961	21078	8.5 17.5	13.375	19865 1054	2135 1340	6435 CBL 0 CIRC	10610'-20985'
														12.25 8.5	9.625	6425	1165	0 CIRC	
53 30-025-45961	OXY USA INC	AVOGATO 30 31 STATE COM	025H	Oil	Active	420 N	1785 E	В	30 225	33E	7/18/2019	10785	20988	8.5	5.5 13.375	21051 1052	2485 1340	3170 CALC 0 CIRC	10572'-20896'
				•				-			.,,			12.25	9.625	6435	1165	0 CIRC	
														8.5	5.5	20988	2470	3316 CALC	
54 30-025-46372	MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	201H	Oil	Active	240 N	797 W	D	6 235	33E	10/1/2019	12436	22484	17.5	13.375	1335	1345	0 Circ	12324'-22368'
74 50 025 40572		NODINET NODINGON TEDENAL	20111	011	Active	240 1	/5/ 11	D	0 233	352	10/1/2015	12450	22404	12.25	9.625	5035	1650	0 CIRC	1252 1 22500
														8.75		12531	920	2700 CALC	
								<u> </u>						6.75	5.5	22484	1435	0 CIRC	112001 20264
55 30-025-44161	UXY USA INC	RED TANK 30 31 STATE COM	024Y	Oil	Active	200 N	270 E	A	30 225	33E	11/21/2017	10863	20600	17.5 12.25	13.375 9.625	1090 6867	1165 2385	0 CIRC 0 CIRC	11300'-20364'
														8.5	5.5	20590	2260	1865 CALC	
56 30-025-44193	OXY USA INC	RED TANK 30 31 STATE COM	014H	Oil	Active	200 N	710 E	A	30 225	33E	8/1/2018	9407	19687	17.5	13.375	1072	1450	0 CIRC	9694'-19546'
														12.25 8.5	9.625 5.5	6776 19681	3125 2012	0 CIRC 0 CIRC	
57 30-025-45923	OXY USA INC	AVOGATO 30 31 STATE COM	004H	Oil	Active	160 N	1120 E	A	30 225	33E	9/14/2019	10154	20295	17.5	13.375	1037	1340	0 CIRC	10357'-20138'
														12.25	7.625	9534	3594	0 CIRC	
50 20 025 450C4			07411	0:1	A	100 N	1155 5		20.225	225	0/15/2010	11405	21667	6.75	5.5	20625	922	9029 CALC	11772'-21527'
58 30-025-45964	OXT USA INC	AVOGATO 30 31 STATE COM	074H	Oil	Active	160 N	1155 E	А	30 225	33E	9/15/2019	11405	21667	17.5 12.25	13.375 9.625	1058 7343	1340 1447	0 CIRC 0 CIRC	11/72-21327
														8.5	7.625	10562	472	6834 CALC	
								<u> </u>						6.75	5.5	21610	858	10446 CALC	101001 011011
59 30-025-44063	UXY USA INC	RED TANK 30 31 STATE COM	034H	Oil	Active	200 N	470 E	A	30 225	33E	11/5/2017	11996	21675	17.5 12.25	13.375 9.625	1094 11130	1100 2900	0 Circ 249 CALC	12133'-21491'
														8.5	5.5	21665	1750	11001 CALC	
60 30-025-26496	LIME ROCK RESOURCES A, L.P.	PRONGHORN AHO FEDERAL	001	Oil	PA	1980 N	1980 E	G	6 235	33E	9/30/1979	16160	16160	17.5	13.375	736	750	0 CIRC	N/A
														12.25 9.5	10.75 7.625	5026 12174	1400 815	0 CIRC 7091 CALC	
														6.5	5	15400	540	11676 CIRC	
61 30-025-27596	OXY USA INC	RED TANK 30 STATE	003	Oil	TA	1980 N	660 E	Н	30 225	33E	10/24/1981	15540	15450	17.5	13.375	711	750	0 CIRC	N/A
														12.25	10.75 7.625	4848	2050 1105	1150 CALC 4300 CALC	
52 30-025-43923	EOG RESOURCES INC	FOGHORN 32 STATE COM	209H	Oil	Active	590 N	330 W	D	32 225	33E	8/28/2017	9456	14259	9.5 17.5	13.375	12150 1066	1028	0 CIRC	9626'-14147'
														12.25	9.625	4914	1380	0 CIRC	
			100										10000	8.75	5.5	14247	2156 73		21/2
63 30-025-45839	UXY USA INC	AVOGATO 31 STATE	100	Moni	tor Active	1702 N	1810 W	F	31 225	33E	6/16/2019	13900	13900	17.5 12.25	13.375 9.625	1210 8825	1560 3380	0 CIRC 0 CIRC	N/A
														8.5	4.5	13883	1097	7160 CALC	
64 30-025-31959	WAGNER OIL CO.	BIGHORN 30 STATE	002	Oil	Active	2310 N	1650 W	F	30 225	33E	7/8/1993	10491	10491	17.5	13.375	500	600	0 CALC	8887-8906
														12.25 7.875	8.625 5.5	4800 10490	2150 1050	0 CALC 0 CALC	
5 30-025-33130	OXY USA INC	CALMON 30 STATE	001	Oil	Active	1930 N	330 W	E	30 225	33E	11/27/1995	9000	9000	14.75	10.75	825	575	0 CIRC	8862-8898
														9.875	7.625	4700	1160	0 CIRC	
6 20 025 42727	CIMAREX ENERGY CO.	CORIANDER AOC 1-12 STATE	002H	Oil	Active	330 N	710 E		1 235	32E	8/26/2018	9747	19642	6.75 17.5	4.5 13.375	9000 1295	920 1635	4300 CALC 0 CIRC	9898-19590
50 50-025-45757	CINIAREA ENERGI CO.	CORIANDER AUC 1-12 STATE	00211	UII	Active	330 N	710 L	A	1 255	52L	8/20/2018	5/4/	19042	12.25	9.625	4970	1865	0 CIRC	5656-15550
														8.75	7	8100	3755	0 CIRC	
														8.5	5.5	19642	3755	0 CIRC	
57 30-025-33531	CIMAREX ENERGY CO.	CORIANDER AOC STATE	001	Oil	PA	330 N	330 E	А	1 235	32E	35302	9121	9121	14.75	11.75	1150	700	0 CIRC	N/A
														11	8.625	4797	1150	0 CIRC	
														11 7.875	8.625 5.5	4797 9121	1150 925	0 CIRC 2692 CALC	
8 30-025-33574	EOG Y RESOURCES, INC.	CORIANDER AOC STATE	002	Oil	PA	1650 N	330 E	Н	1 235	32E	35338	9170	9170	7.875	5.5	9121 1153	925 700	2692 CALC 0 CIRC	N/A
8 30-025-33574	EOG Y RESOURCES, INC.	CORIANDER AOC STATE	002	Oil	PA	1650 N	330 E	Η	1 235	32E	35338	9170	9170	7.875 14.75 11	5.5 11.75 8.625	9121 1153 4790	925 700 1250	2692 CALC 0 CIRC 0 CIRC	N/A
8 30-025-33574	EOG Y RESOURCES, INC.	CORIANDER AOC STATE	002	Oil	РА	1650 N	330 E	Н	1 235	32E	35338	9170	9170	7.875	5.5	9121 1153	925 700	2692 CALC 0 CIRC	N/A 8526-8548; 8343-8374; 8058-
														7.875 14.75 11 7.875	5.5 11.75 8.625 5.5	9121 1153 4790 9170	925 700 1250 1000	2692 CALC 0 CIRC 0 CIRC 0 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030;
		CORIANDER AOC STATE	002	Oil	PA	1650 N 660 S	330 E 1980 E		1 235 25 225	32E 32E	35338	9170	9170	7.875 14.75 11 7.875 17.5	5.5 11.75 8.625 5.5 13.375	9121 1153 4790 9170 811	925 700 1250 1000 900	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC	8526-8548; 8343-8374; 8058-
														7.875 14.75 11 7.875	5.5 11.75 8.625 5.5	9121 1153 4790 9170	925 700 1250 1000	2692 CALC 0 CIRC 0 CIRC 0 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030;
9 30-025-32581	OXY USA INC	COVINGTON A FEDERAL	010	Oil	Active	660 S	1980 E	0	25 225	32E	5/19/1995	8990	8990	7.875 14.75 11 7.875 17.5 11 7.875	5.5 11.75 8.625 5.5 13.375 8.625 5.5	9121 1153 4790 9170 811 4720 8990	925 700 1250 1000 900 1800 1650	2692 CALC O CIRC O CIRC O CALC O CIRC O CIRC 1500 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930-
9 30-025-32581	OXY USA INC							0						7.875 14.75 11 7.875 17.5 11 7.875 14.75	5.5 111.75 8.625 5.5 13.375 8.625 5.5 10.75	9121 1153 4790 9170 811 4720 8990 804	925 700 1250 1000 900 1800 1650 600	2692 CALC O CIRC O CIRC O CALC O CIRC O CIRC 1500 CALC O CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028
30-025-32581	OXY USA INC	COVINGTON A FEDERAL	010	Oil	Active	660 S	1980 E	0	25 225	32E	5/19/1995	8990	8990	7.875 14.75 11 7.875 17.5 11 7.875	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625	9121 1153 4790 9170 811 4720 8990	925 700 1250 1000 900 1800 1650	2692 CALC O CIRC O CIRC O CALC O CIRC O CIRC 1500 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930-
9 30-025-32581 0 30-025-33142	OXY USA INC OXY USA INC	COVINGTON A FEDERAL	010	Oil Oil	Active Active	660 S 2310 S	1980 E 1980 E	J	25 225 25 225	32E 32E	5/19/1995 12/27/1995	8990 9000	8990 9000	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000	925 700 1250 1000 900 1800 1650 600 1300 915	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 0 CIRC 2760 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930-
9 30-025-32581 0 30-025-33142	OXY USA INC OXY USA INC	COVINGTON A FEDERAL	010	Oil	Active	660 S	1980 E	J	25 225	32E	5/19/1995	8990	8990	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 10.75	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855	925 700 1250 1000 900 1800 1650 600 1300 915 800	2692 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 2760 CALC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018
9 30-025-32581 0 30-025-33142	OXY USA INC OXY USA INC	COVINGTON A FEDERAL	010	Oil Oil	Active Active	660 S 2310 S	1980 E 1980 E	J	25 225 25 225	32E 32E	5/19/1995 12/27/1995	8990 9000	8990 9000	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75 9.875	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 7.625	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855 4710	925 700 1250 1000 900 1800 1650 600 1300 915 800 1880	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 2760 CALC 0 CIRC 0 CIRC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822-
9 30-025-32581 0 30-025-33142 1 30-025-34455	OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL	010	Oil Oil	Active Active	660 S 2310 S	1980 E 1980 E	1	25 225 25 225	32E 32E	5/19/1995 12/27/1995	8990 9000	8990 9000	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 10.75	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855	925 700 1250 1000 900 1800 1650 600 1300 915 800	2692 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 2760 CALC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822-
9 30-025-32581 0 30-025-33142 1 30-025-34455	OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037	Oil Oil Oil	Active Active Active	660 S 2310 S 1575 S	1980 E 1980 E 1950 E	1	25 225 25 225 25 225	32E 32E 32E	5/19/1995 12/27/1995 9/16/1999	8990 9000 8960	8990 9000 8960	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75 9.875 14.75 9.875	5.5 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000 8855 4710 8960 790 4700	925 700 1250 1000 800 1300 915 800 1300 915 800 1800 1105 600 1500	2692 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 2760 CALC 0 CIRC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936;
9 30-025-32581 0 30-025-33142 1 30-025-34455 2 30-025-32290	OXY USA INC OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037 004	Oil Oil Oil	Active Active Active Active	660 S 2310 S 1575 S 1980 S	1980 E 1980 E 1950 E 990 E	1 1 1	25 225 25 225 25 225 25 225 25 225	32E 32E 32E 32E 32E	5/19/1995 12/27/1995 9/16/1999 1/12/1996	8990 9000 8960 9010	8990 9000 8960 9010	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75 9.875 6.75 14.75 9.875 6.75	5.5 11.75 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855 4710 8960 7900 9010	925 700 1250 1000 1800 1650 600 1300 915 800 1880 1105 600 1500 615	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 2760 CALC 0 CIRC 0 CIRC 0 CIRC 3600 CALC 2990 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936; 8536-8556; 8048-8067;
9 30-025-32581 0 30-025-33142 1 30-025-34455 2 30-025-32290	OXY USA INC OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037	Oil Oil Oil	Active Active Active	660 S 2310 S 1575 S	1980 E 1980 E 1950 E	1 1 1	25 225 25 225 25 225	32E 32E 32E	5/19/1995 12/27/1995 9/16/1999	8990 9000 8960	8990 9000 8960	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 14.75	5.5 11.75 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 7.625 7	9121 1153 4790 9170 811 4720 8990 804 4695 9000 8855 4710 8960 790 4700	925 700 1250 1000 1800 1650 600 1300 915 800 1880 1105 600 1500 615 800	2692 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 2760 CALC 0 CIRC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936;
9 30-025-32581 10 30-025-33142 11 30-025-34455 12 30-025-32290	OXY USA INC OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037 004	Oil Oil Oil	Active Active Active Active	660 S 2310 S 1575 S 1980 S	1980 E 1980 E 1950 E 990 E	1 1 1	25 225 25 225 25 225 25 225 25 225 25 225	32E 32E 32E 32E 32E	5/19/1995 12/27/1995 9/16/1999 1/12/1996 7/31/1997	8990 9000 8960 9010	8990 9000 8960 9010	7.875 14.75 11 7.875 17.5 11 7.875 14.75 9.625 6.75 14.75 9.875 6.75 14.75 9.875 6.75	5.5 11.75 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855 4710 8960 790 4700 8960 790 4700 831	925 700 1250 1000 1800 1650 600 1300 915 800 1880 1105 600 1500 615	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 2760 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1500 CALC 2990 CALC 0 CIRC 0 CIRC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936; 8536-8556; 8048-8067;
9 30-025-32581 0 30-025-33142 1 30-025-34455 2 30-025-32290 3 30-025-33319	OXY USA INC OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037 004	Oil Oil Oil	Active Active Active Active	660 S 2310 S 1575 S 1980 S	1980 E 1980 E 1950 E 990 E	O J J I A	25 225 25 225 25 225 25 225 25 225	32E 32E 32E 32E 32E	5/19/1995 12/27/1995 9/16/1999 1/12/1996	8990 9000 8960 9010	8990 9000 8960 9010	7.875 14.75 11 7.875 11,75 11,75 14.75 9.625 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.875 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 9.625 14.75 14.75 15.75 14.75 15.75 17.55	5.5 8.625 5.5 13.375 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855 4710 8960 790 4700 9010 831 4705 9010 854	925 700 1250 1000 800 1300 915 800 1300 915 800 1300 1105 600 1500 615 800 1325 750	2692 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1500 CALC 2990 CALC 0 CIRC 1800 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 1800 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936; 8536-8556; 8048-8067;
59 30-025-32581 70 30-025-33142 71 30-025-34455 72 30-025-32290 73 30-025-33319	OXY USA INC OXY USA INC OXY USA INC OXY USA INC OXY USA INC	COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL COVINGTON A FEDERAL	010 013 037 004 015	Oil Oil Oil Oil Oil	Active Active Active Active PA	660 S 2310 S 1575 S 1980 S 330 N	1980 E 1980 E 1950 E 990 E 1300 E	O J J I A	25 225 25 225 25 225 25 225 25 225 25 225	32E 32E 32E 32E 32E 32E	5/19/1995 12/27/1995 9/16/1999 1/12/1996 7/31/1997	8990 9000 8960 9010 9010	8990 9000 8960 9010 9010	7.875 14.75 11 7.875 117.5 111 7.875 14.75 9.625 6.75 14.75 9.875 6.75 14.75 9.875 6.75 14.75 9.625 6.75 14.75 9.625 6.75	5.5 11.75 8.625 5.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5 10.75 7.625 4.5	9121 1153 4790 9170 811 4720 8990 804 4695 9000 855 4710 8960 790 4700 9010 831	925 700 1250 1000 900 1800 1650 600 1300 915 800 1880 1105 600 1500 615 800 1600 1325	2692 CALC 0 CIRC 0 CIRC 0 CALC 0 CIRC 1500 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 3600 CALC 2990 CALC 0 CIRC 1800 CALC	8526-8548; 8343-8374; 8058- 8083; 7935-7942; 6998-7030; 5018-5028 8536-8556; 8366-8386; 7930- 7942; 7000-7018 8608-8628; 8104-8124; 7822- 7936; 8536-8556; 8048-8067; N/A

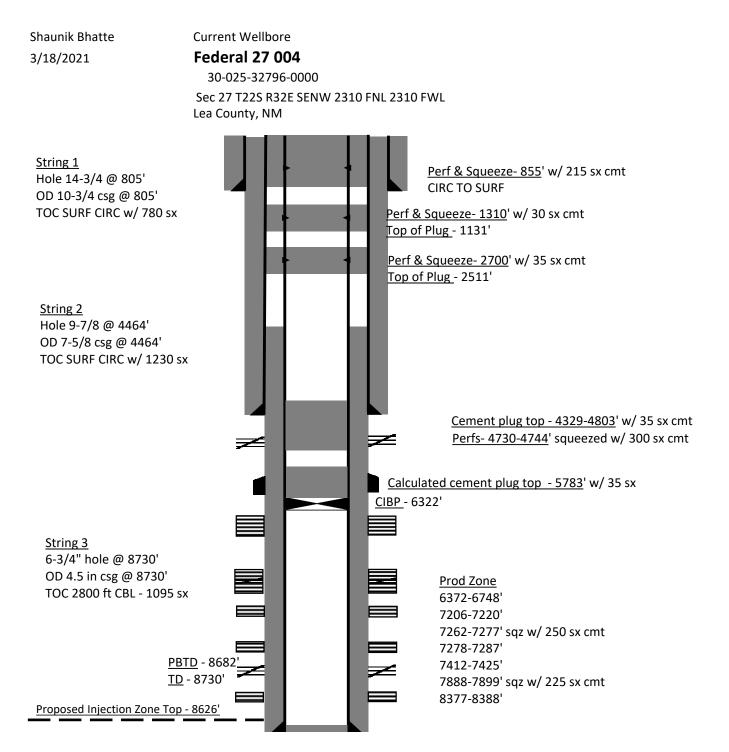
		[51687] RED TANK; BONE SPRING, EAST
		[51687] RED TANK; BONE SPRING, EAST
		[98177] WC-025 G-09 S223332A; UPR WOLFCAMP
		[51687] RED TANK; BONE SPRING, EAST
		[51687] RED TANK; BONE SPRING, EAST
		[51687] RED TANK; BONE SPRING, EAST
		[51687] RED TANK; BONE SPRING, EAST
	5.5" Casing tie-back @ 0-11001'	[51687] RED TANK; BONE SPRING, EAST
		N/A
		N/A
		[51687] RED TANK; BONE SPRING, EAST
	Monitor Well; No Perfs	N/A
		[51687] RED TANK; BONE SPRING, EAST
		[51689] RED TANK; DELAWARE, WEST
		[17644] DIAMONDTAIL; BONE SPRING
	Well of interest. Delaware and Avalon Sand Perfs in communication	N/A
	Well of interest. Delaware and Avalon Sand Perfs in communication	N/A
; 8058- 3-7030;		[51689] RED TANK; DELAWARE, WEST
; 7930-		[51689] RED TANK; DELAWARE, WEST
; 7822-		[51689] RED TANK; DELAWARE, WEST
;		[51689] RED TANK; DELAWARE, WEST
		N/A
		[51683] RED TANK; BONE SPRING

75 30-025-33498	EOG RESOURCES INC	MULE DEER 36 STATE	006	Oil	Active	330 S	1980 E	0	36 225	32E	8/1/1996	9080	9080	17.5	13.375	867	750	0 CIRC	8922-8957
														12.25	8.625	4702	1400	0 CIRC	
														7.875	5.5	9080	1020	3821 CALC	
 76 30-025-32837	EOG RESOURCES INC	MULE DEER 36 STATE	001	Oil	PA	330 N	1980 E	В	36 22S	32E	4/7/1995	9018	9018	17.5	13.375	855	800	0 CIRC	N/A
														12.25	8.625	4697	1450	0 CIRC	
														7.875	5.5	9018	1450	4800 CALC	
77 30-025-33239	EOG RESOURCES INC	MULE DEER 36 STATE	005	Oil	PA	1980 N	990 E	н	36 22S	32E	1/14/1996	9024	9024	17.5	13.375	857	750	0 CIRC	N/A
														12.25	8.625	4666	1450	0 CIRC	
														7.875	5.5	9024	950	3300 CALC	
 78 30-025-33823	EOG RESOURCES INC	MULE DEER 36 STATE	008	Oil	PA	1650 S	770 E	I	36 22S	32E	3/15/1997	9088	9088	12.25	9.625	1223	500	0 CIRC	N/A
														8.75	7	4704	1175	35 CALC	
														6.125	4.5	9088	310	6795 CALC	
79 30-025-33082	OXY USA INC	RED TANK 31 STATE	001	Oil	PA	330 N	330 W	D	31 225	33E	9/23/1995	9010	9010	14.75	10.75	816	700	0 CIRC	N/A
														9.875	7.625	4740	970	0 CIRC	
														6.75	4.5	9010	780	3590 CALC	
80 30-025-33011	OXY USA INC	RED TANK 30 STATE	001	Oil	PA	990 S	330 W	М	30 225	33E	7/19/1995	9020	9020	17.5	13.375	807	900	0 CIRC	N/A
														11	8.625	4710	1600	0 CIRC	
														7.875	5.5	9020	1030	3580 CALC	
81 30-025-33431	OXY USA INC	RED TANK 31 STATE	002	Oil	Active	1650 N	330 W	E	31 225	33E	4/6/2000	9050	9050	14.75	10.75	822	770	0 CIRC	
														9.875	7.625	4730	1750	0 CIRC	
														6.75	4.5	9050	1050	3181 CALC	
82 30-025-33580	OXY USA INC	RED TANK 31 STATE	004	Oil	Active	330 S	330 W	М	31 225	33E	9/30/1996	9100	9100	14.75	10.75	820	780	0 CIRC	8550-8566
														9.875	7.625	4770	1150	0 CIRC	
														6.75	4.5	9100	775	3500 CALC	
	MATADOR PRODUCTION																		
83 30-025-46335	COMPANY	RODNEY ROBINSON FEDERAL	122H	Oil	Active	240 N	1927 W	С	6 23S	33E	9/4/2019	11189	21224	17.5	13.375	1339	1520	0 CIRC	10963-21051
83 30-025-46335	COMPANY	RODNEY ROBINSON FEDERAL	122H	Oil	Active	240 N	1927 W	С	6 23S	33E	9/4/2019	11189	21224	12.25	9.625	5059	1369	0 CIRC	10963-21051
 83 30-025-46335		RODNEY ROBINSON FEDERAL	122H	Oil	Active	240 N	1927 W	С	6 235	33E	9/4/2019	11189	21224						10963-21051
	MATADOR PRODUCTION													12.25 8.75	9.625 5.5	5059 21200	1369 4224	0 CIRC 28 CALC	
 83 30-025-46335 84 30-025-46371	MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	122H 121H	Oil Oil	Active	240 N 270 N	1927 W 827 W		6 23S 6 23S	33E 33E		11189 11164	21224 21253	12.25 8.75 17.5	9.625 5.5 13.375	5059 21200 1339	1369 4224 1140	0 CIRC 28 CALC 0 CIRC	10963-21051 11135-21109
	MATADOR PRODUCTION													12.25 8.75 17.5 12.25	9.625 5.5 13.375 9.625	5059 21200 1339 5063	1369 4224 1140 1555	0 CIRC 28 CALC 0 CIRC 0 CIRC	
	MATADOR PRODUCTION COMPANY													12.25 8.75 17.5	9.625 5.5 13.375	5059 21200 1339	1369 4224 1140	0 CIRC 28 CALC 0 CIRC	
 84 30-025-46371	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	121H	Oil	Active	270 N	827 W	D	6 235	33E	9/27/2019	11164	21253	12.25 8.75 17.5 12.25 8.75	9.625 5.5 13.375 9.625 5.5	5059 21200 1339 5063 21289	1369 4224 1140 1555 3838	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC	11135-21109
	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION							D						12.25 8.75 17.5 12.25 8.75 17.5	9.625 5.5 13.375 9.625 5.5 13.375	5059 21200 1339 5063 21289 1337	1369 4224 1140 1555 3838 1515	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC	
 84 30-025-46371	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	121H	Oil	Active	270 N	827 W	D	6 235	33E	9/27/2019	11164	21253	12.25 8.75 17.5 12.25 8.75 17.5 12.25	9.625 5.5 13.375 9.625 5.5 13.375 9.625	5059 21200 1339 5063 21289 1337 5060	1369 4224 1140 1555 3838 1515 1369	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC 0 CIRC	11135-21109
 84 30-025-46371	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL	121H	Oil	Active	270 N	827 W	D	6 235	33E	9/27/2019	11164	21253	12.25 8.75 17.5 12.25 8.75 17.5	9.625 5.5 13.375 9.625 5.5 13.375	5059 21200 1339 5063 21289 1337	1369 4224 1140 1555 3838 1515	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC	11135-21109
 84 30-025-46371 85 30-025-46279	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	121H 102H	Oil	Active Active	270 N 270 N	827 W 1927 W	D C	6 235 6 235	33E 33E	9/27/2019 9/2/2019	11164 9550	21253 19750	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740	1369 4224 1140 1555 3838 1515 1369 3615	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC	11135-21109 9591-19593
 84 30-025-46371	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	121H	Oil	Active	270 N	827 W	D C	6 235	33E	9/27/2019	11164	21253	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 12.25 8.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375	5059 21200 1339 5063 21289 1337 5060 19740 1394	1369 4224 1140 1555 3838 1515 1369 3615 1190	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC CALC	11135-21109
 84 30-025-46371 85 30-025-46279	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL	121H 102H	Oil	Active Active	270 N 270 N	827 W 1927 W	D C	6 235 6 235	33E 33E	9/27/2019 9/2/2019	11164 9550	21253 19750	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC 0 CIRC CALC CALC	11135-21109 9591-19593
 84 30-025-46371 85 30-025-46279	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL	121H 102H	Oil	Active Active	270 N 270 N	827 W 1927 W	D C	6 235 6 235	33E 33E	9/27/2019 9/2/2019	11164 9550	21253 19750	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 12.25 8.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375	5059 21200 1339 5063 21289 1337 5060 19740 1394	1369 4224 1140 1555 3838 1515 1369 3615 1190	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC CALC	11135-21109 9591-19593
 84 30-025-46371 85 30-025-46279 86 30-025-47350	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H	Oil Oil Oil	Active Active Active	270 N 270 N 367 S	827 W 1927 W 1730 E	D C O	6 235 6 235 7 235	33E 33E 33E	9/27/2019 9/2/2019 9/25/2020	11164 9550 12009	21253 19750 22435	12.25 8.75 17.5 12.25 8.75 12.25 8.75 12.25 8.75 17.5 9.875 6.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090	0 CIRC 28 CALC 0 CIRC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC	11135-21109 9591-19593 12386-22283
 84 30-025-46371 85 30-025-46279	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL	121H 102H	Oil	Active Active	270 N 270 N	827 W 1927 W	D C O	6 235 6 235	33E 33E	9/27/2019 9/2/2019 9/25/2020	11164 9550	21253 19750	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5	9.625 5.5 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 13.375	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC	11135-21109 9591-19593
 84 30-025-46371 85 30-025-46279 86 30-025-47350	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H	Oil Oil Oil	Active Active Active	270 N 270 N 367 S	827 W 1927 W 1730 E	D C O	6 235 6 235 7 235	33E 33E 33E	9/27/2019 9/2/2019 9/25/2020	11164 9550 12009	21253 19750 22435	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5 9.875	9.625 5.5 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389 11505	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283
 84 30-025-46371 85 30-025-46279 86 30-025-47350	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H	Oil Oil Oil	Active Active Active	270 N 270 N 367 S	827 W 1927 W 1730 E	D C O	6 235 6 235 7 235	33E 33E 33E	9/27/2019 9/2/2019 9/25/2020	11164 9550 12009	21253 19750 22435	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5	9.625 5.5 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 13.375	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC	11135-21109 9591-19593 12386-22283
 84 30-025-46371 85 30-025-46279 86 30-025-47350 87 30-025-47351	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H	Oil Oil Oil Oil	Active Active Active Active	270 N 270 N 367 S 385 S	827 W 1927 W 1730 E 1706 E	D C O O	6 235 6 235 7 235 7 235	33E 33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020	11164 9550 12009 12213	21253 19750 22435 22462	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389 11505 22447	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC 0 CIRC 0 CIRC 0 CIRC 1250 CALC	11135-21109 9591-19593 12386-22283 12685-22188
84 30-025-46371 85 30-025-46279 86 30-025-47350	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H	Oil Oil Oil	Active Active Active	270 N 270 N 367 S	827 W 1927 W 1730 E	D C O O	6 235 6 235 7 235	33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020	11164 9550 12009	21253 19750 22435	12.25 8.75 17.5 12.25 8.75 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75 17.5	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 1141 22420 1389 11505 22447 1385	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299 1210	0 CIRC 28 CALC 0 CIRC 2900 CALC 2900 CALC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283
 84 30-025-46371 85 30-025-46279 86 30-025-47350 87 30-025-47351	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H	Oil Oil Oil Oil	Active Active Active Active	270 N 270 N 367 S 385 S	827 W 1927 W 1730 E 1706 E	D C O O	6 235 6 235 7 235 7 235	33E 33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020	11164 9550 12009 12213	21253 19750 22435 22462	12.25 8.75 17.5 12.25 8.75 12.25 8.75 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75 17.5 9.875	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389 11505 22447 1385 11759	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299 1210 2650	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283 12685-22188
84 30-025-46371 85 30-025-46279 86 30-025-47350 87 30-025-47351	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H	Oil Oil Oil Oil	Active Active Active Active	270 N 270 N 367 S 385 S	827 W 1927 W 1730 E 1706 E	D C O O	6 235 6 235 7 235 7 235	33E 33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020	11164 9550 12009 12213	21253 19750 22435 22462	12.25 8.75 17.5 12.25 8.75 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75 17.5	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 1141 22420 1389 11505 22447 1385	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299 1210	0 CIRC 28 CALC 0 CIRC 2900 CALC 2900 CALC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283 12685-22188
 84 30-025-46371 85 30-025-46279 86 30-025-47350 87 30-025-47351 88 30-025-47352	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H 204H	Oil Oil Oil Oil Oil	Active Active Active Active Active	270 N 270 N 367 S 385 S 546 S	827 W 1927 W 1730 E 1706 E 155 E	D C O O P	6 235 6 235 7 235 7 235 7 235	33E 33E 33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020 11/5/2020	11164 9550 12009 12213 12220	21253 19750 22435 22462 22640	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75 17.5 9.875 6.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389 11505 22447 1385 11759 22640	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299 1210 2650 1170	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283 12685-22188 12526-22488
84 30-025-46371 85 30-025-46279 86 30-025-47350 87 30-025-47351	MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION COMPANY MATADOR PRODUCTION	RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL RODNEY ROBINSON FEDERAL COM	121H 102H 133H 203H 204H	Oil Oil Oil Oil	Active Active Active Active	270 N 270 N 367 S 385 S	827 W 1927 W 1730 E 1706 E	D C O O P	6 235 6 235 7 235 7 235	33E 33E 33E 33E	9/27/2019 9/2/2019 9/25/2020 9/23/2020 11/5/2020	11164 9550 12009 12213	21253 19750 22435 22462	12.25 8.75 17.5 12.25 8.75 17.5 12.25 8.75 17.5 9.875 6.75 17.5 9.875 6.75 17.5 9.875 6.75	9.625 5.5 13.375 9.625 5.5 13.375 9.625 5.5 13.375 7.625 5.5 13.375 7.625 5.5	5059 21200 1339 5063 21289 1337 5060 19740 1394 11441 22420 1389 11505 22447 1385 11759	1369 4224 1140 1555 3838 1515 1369 3615 1190 2610 1090 1190 2455 1299 1210 2650	0 CIRC 28 CALC 0 CIRC 2900 CALC 0 CIRC 0 CIRC 0 CIRC CALC CALC CALC CALC CALC CALC CALC CA	11135-21109 9591-19593 12386-22283 12685-22188

	[51683] RED TANK; BONE SPRING
	N/A
Well of Interest. Delaware and Avalon Sand Perfs in	
communication	N/A
	N/A
	N/A
	N/A
	[51689] RED TANK; DELAWARE, WEST
	[96228] PRONGHORN; BONE SPRING
	[96228] PRONGHORN; BONE SPRING
	[96228] PRONGHORN; BONE SPRING
	[96228] PRONGHORN; BONE SPRING
	'
	[98177] WC-025 G-09 S223332A; UPR WOLFCAMP
	[98177] WC-025 G-09 S223332A; UPR WOLFCAMP

[96228] PRONGHORN; BONE SPRING

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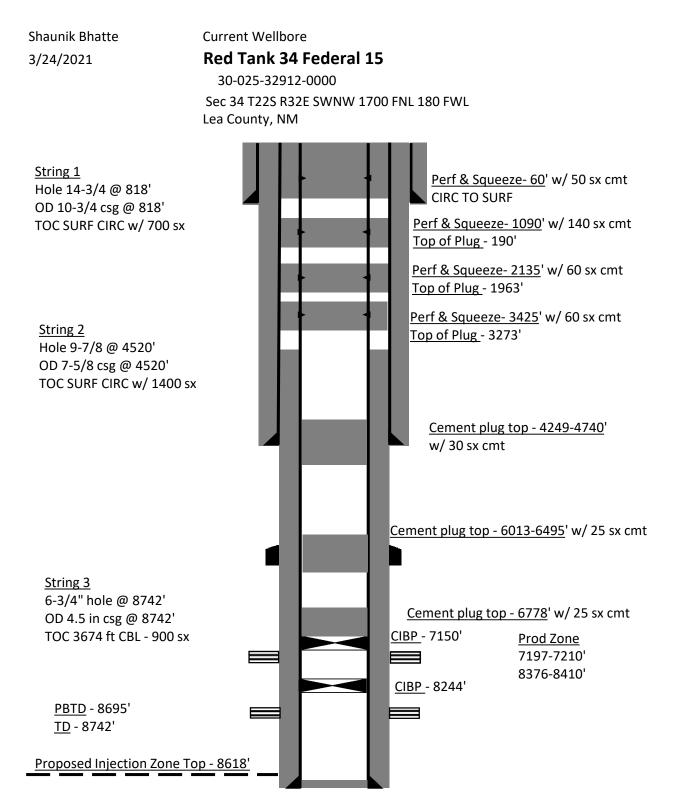


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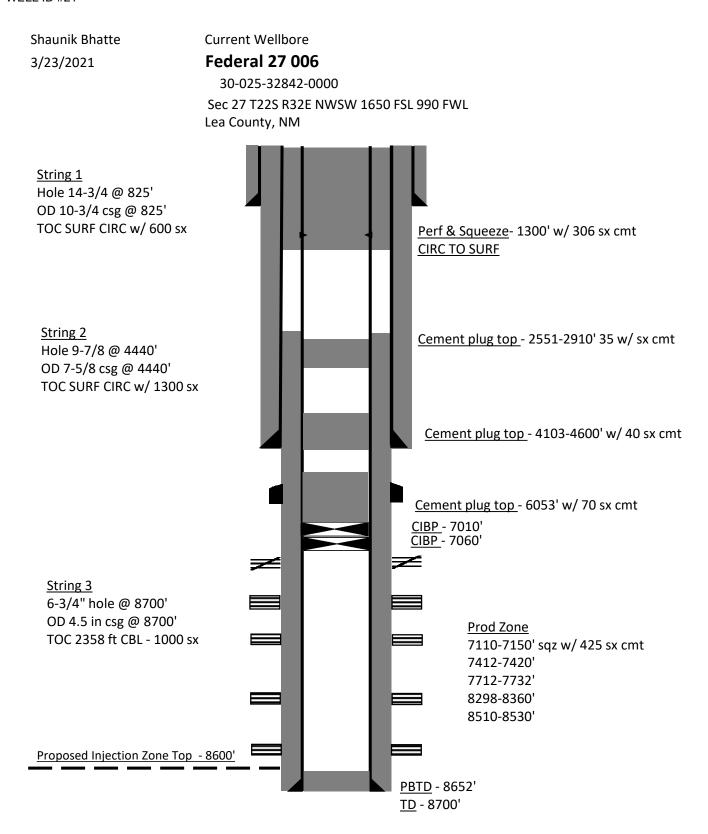
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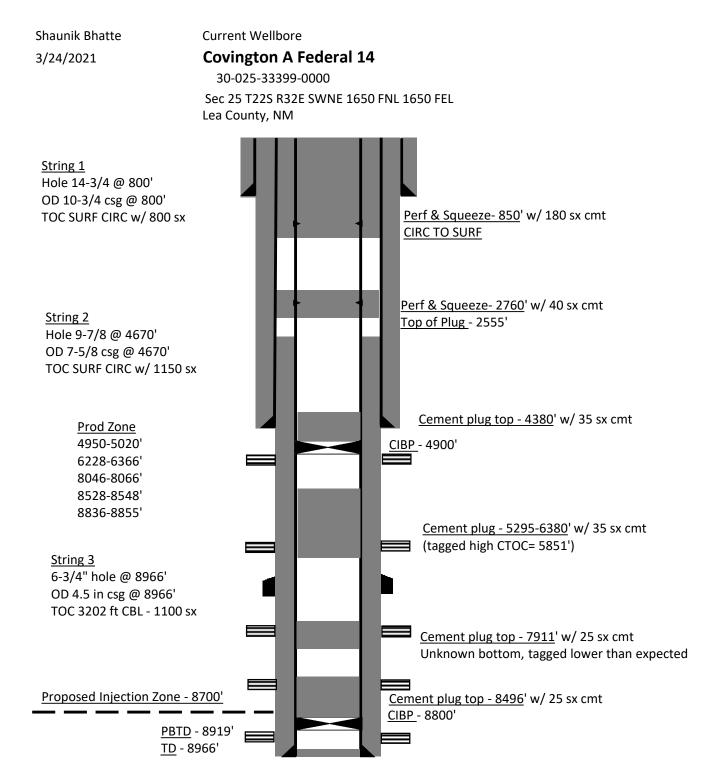
Shaunik Bhatte Current Wellbore **Federal 27 008** 3/23/2021 30-025-32755-0000 Sec 27 T22S R32E SWSW 580 FSL 790 FWL Lea County, NM Perf & Squeeze- 100' w/ 35 sx cmt String 1 **CIRC TO SURF** Hole 14-3/4 @ 822' OD 10-3/4 csg @ 822' TOC SURF CIRC w/ 800 sx Perf & Squeeze- 1090' w/ 100 sx cmt Cement plug top - 648' String 2 Cement plug top - 2328-2771' 25 w/ sx cmt Hole 9-7/8 @ 4520' OD 7-5/8 csg @ 4520' TOC SURF CIRC w/ 1400 sx Cement plug top - 4188-4590' w/ 30 sx cmt Cement plug top - 6212' w/ 40 sx cmt CIBP - 6806' String 3 6-3/4" hole @ 8732' OD 4.5 in csg @ 8732' Cement plug top - 7924' w/ 25 sx TOC 2030 ft CBL - 875 sx CIBP - 8303' PBTD - 8685' TD - 8732' Prod Zone 6856-6874' Proposed Injection Zone Top - 8600' 8353-8386'

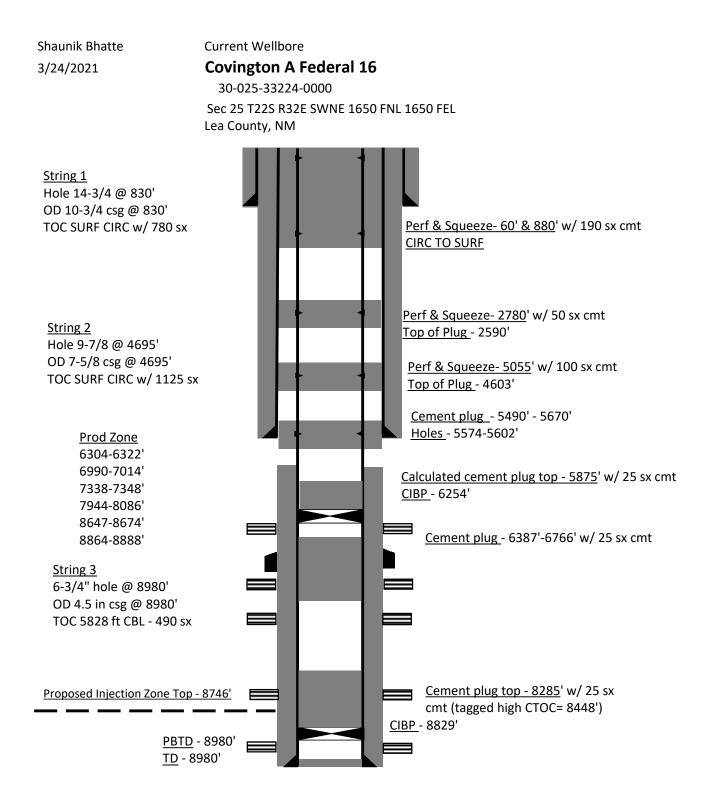
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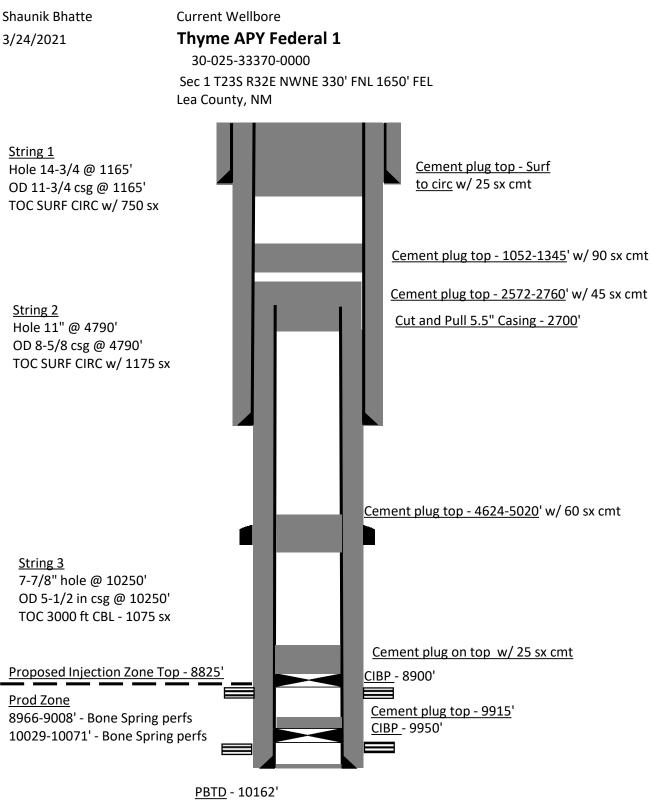
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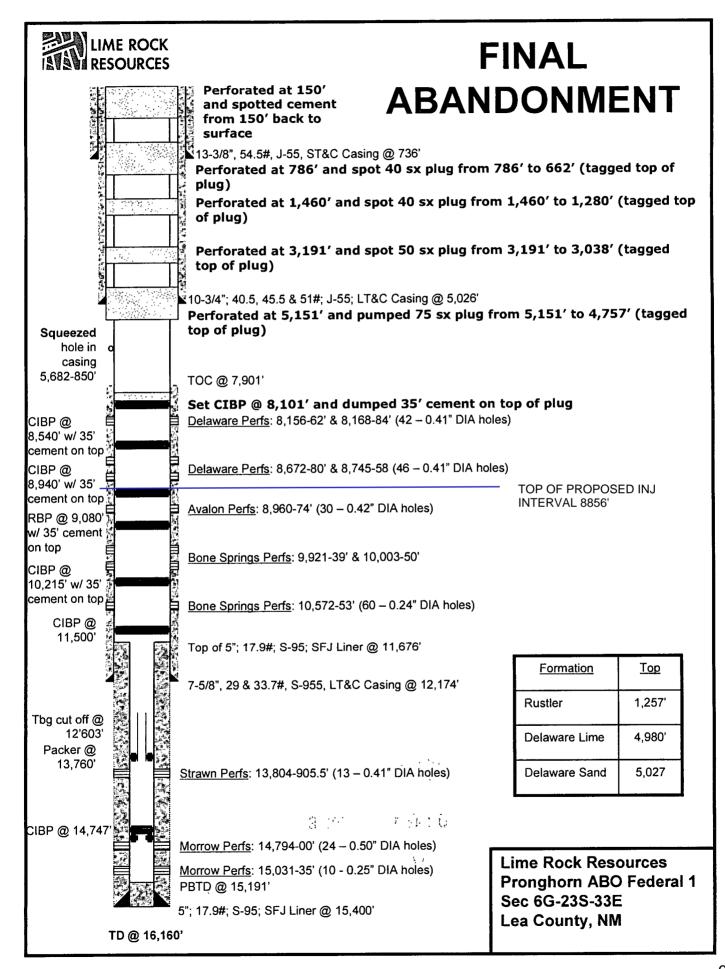




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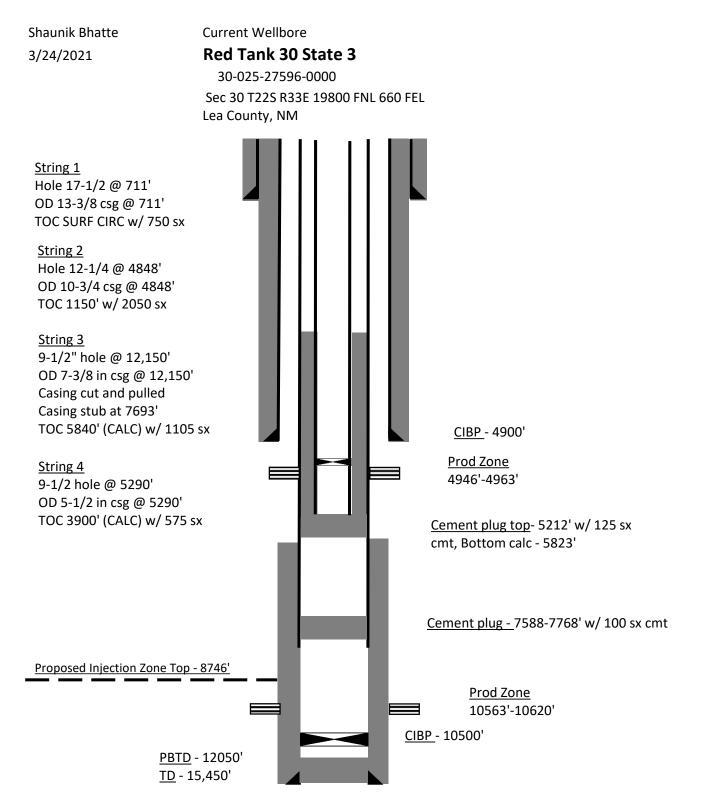


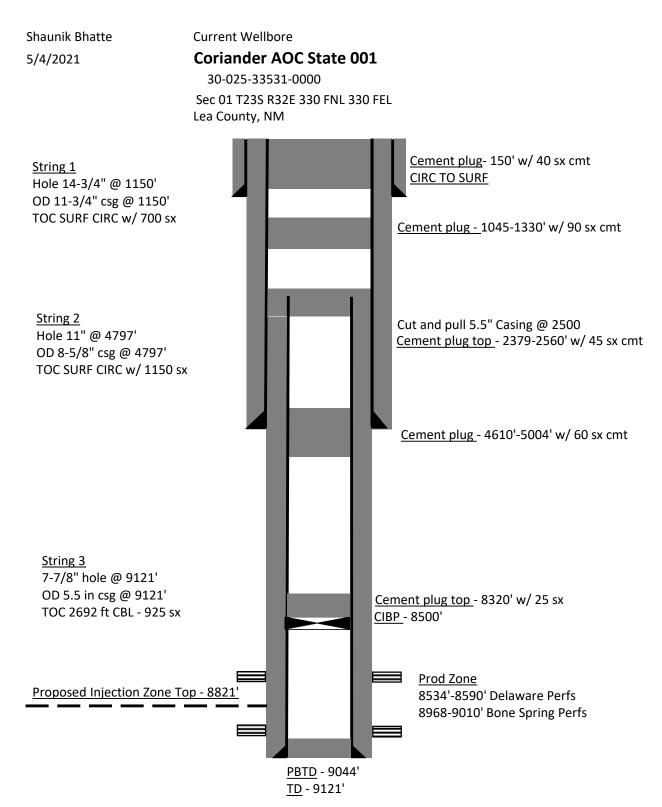


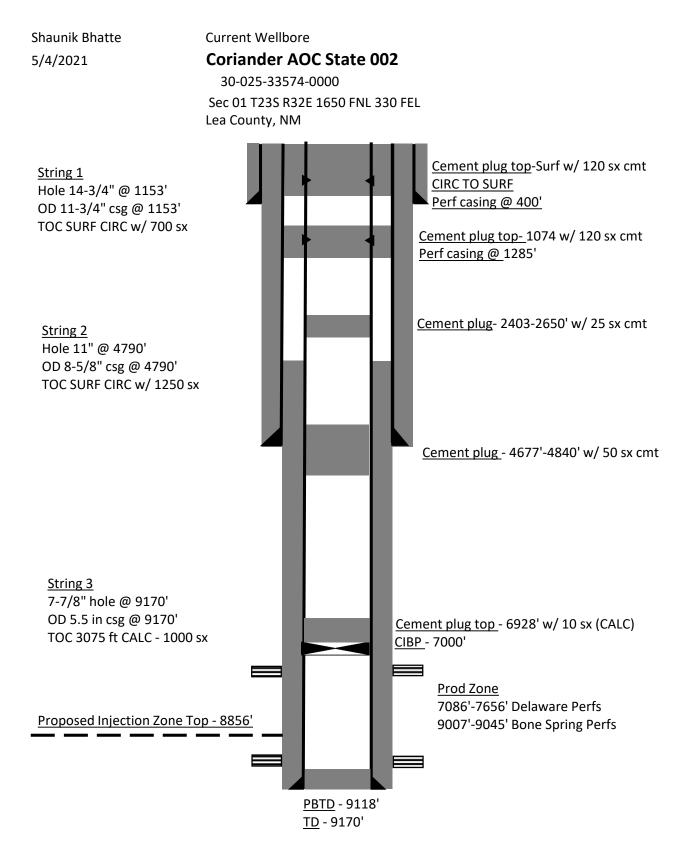


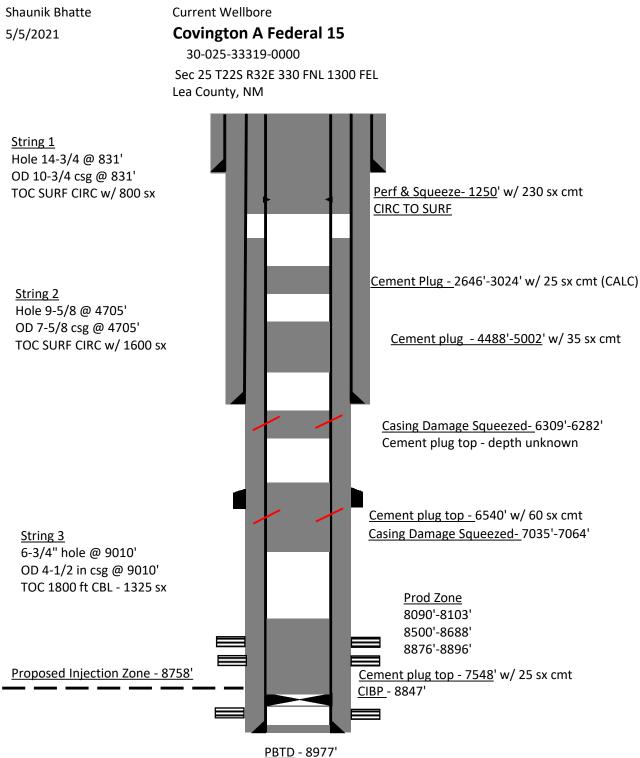
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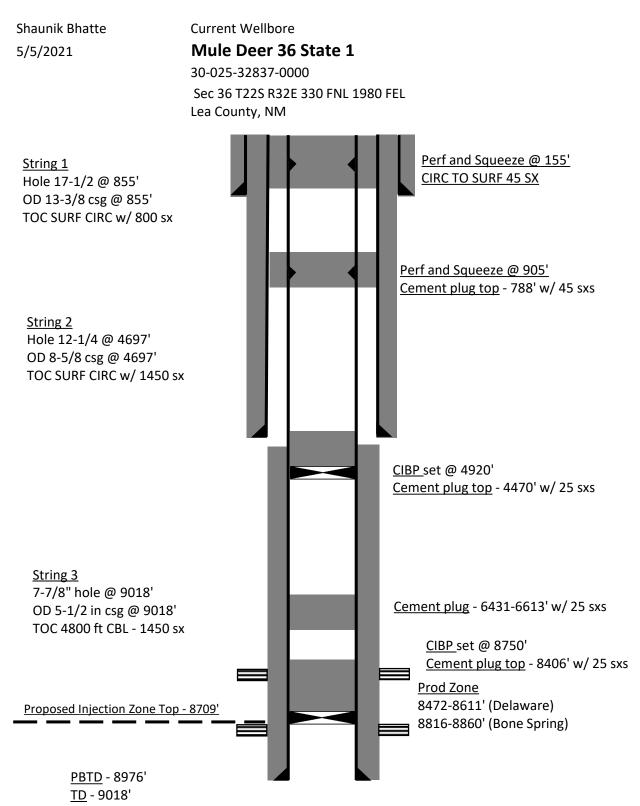






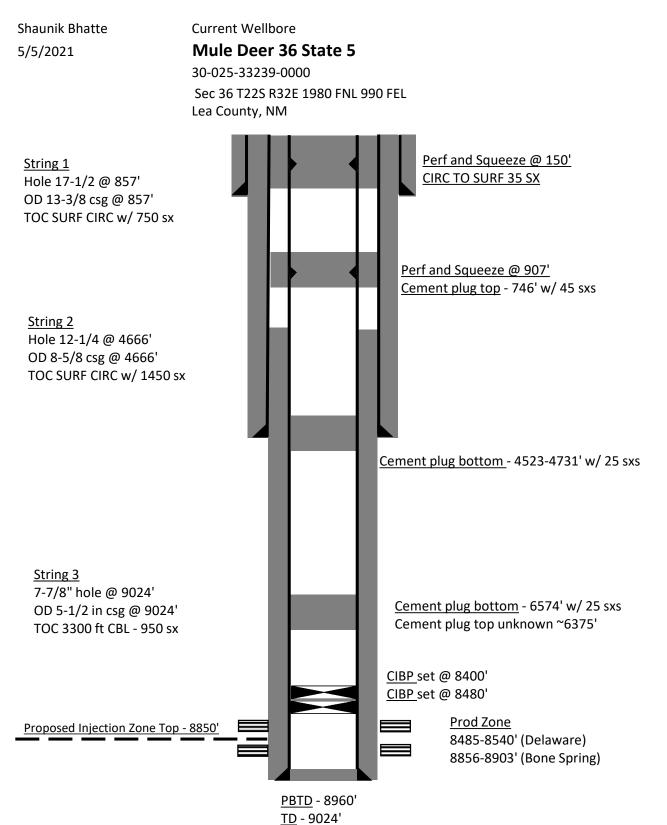
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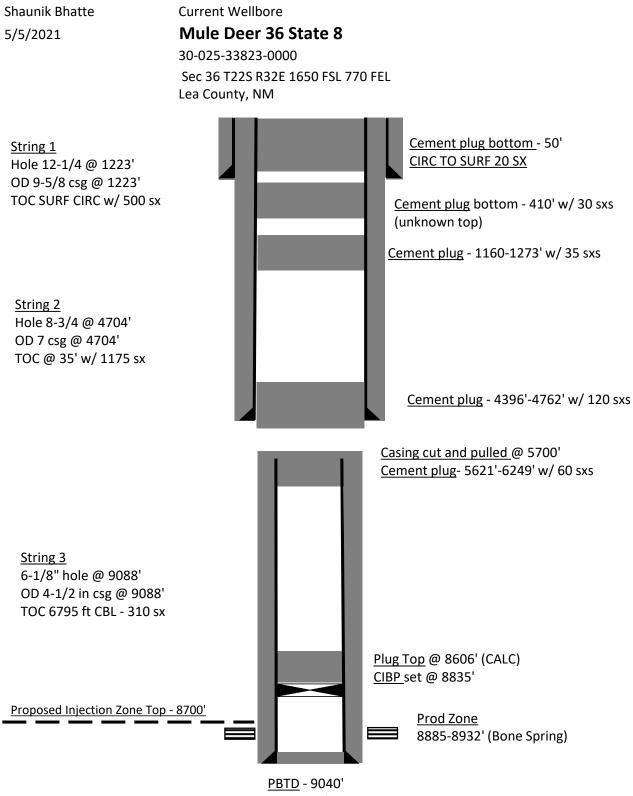


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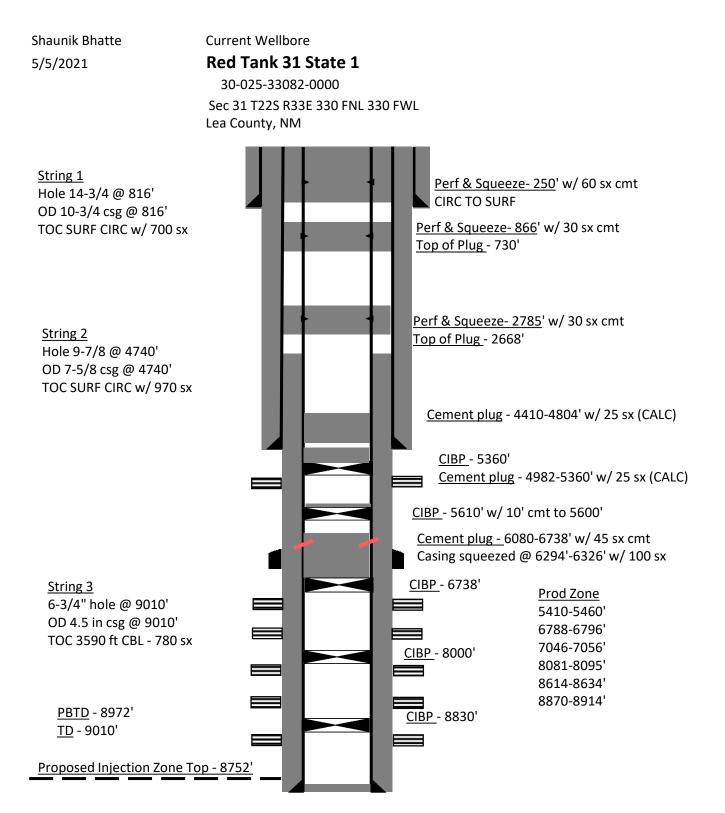
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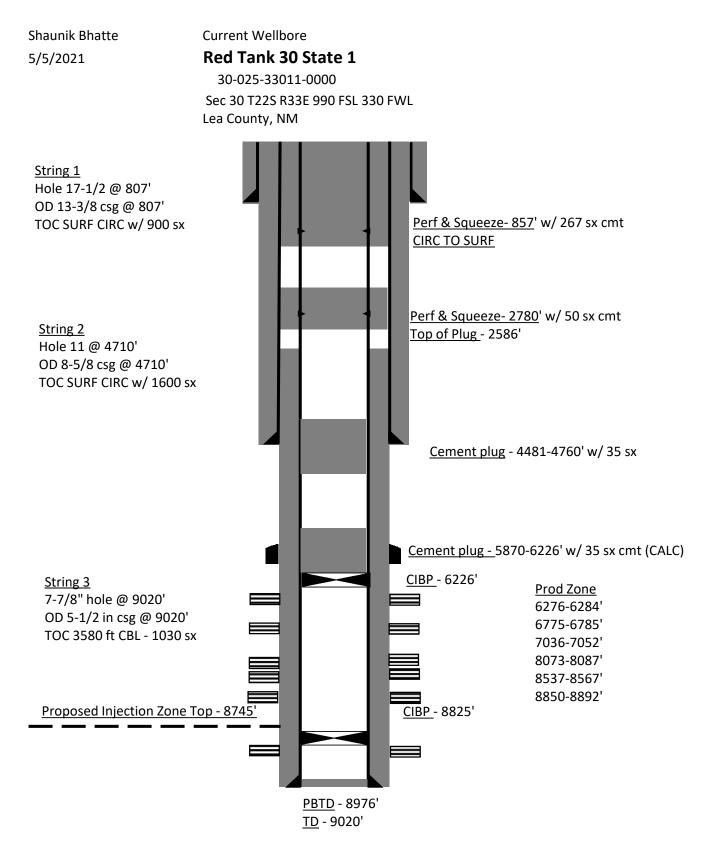


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<u>TD</u> - 9088'





Geology

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Proposed Storage Zone

Avalon Shale

> Unconventional siliceous mudstone reservoir with natural permeability in the nano-darcy range

Adjacent Oil & Gas Zones

- Brushy Canyon
 - > Conventional very fine-grained sandstone with permeability in the millidarcy range

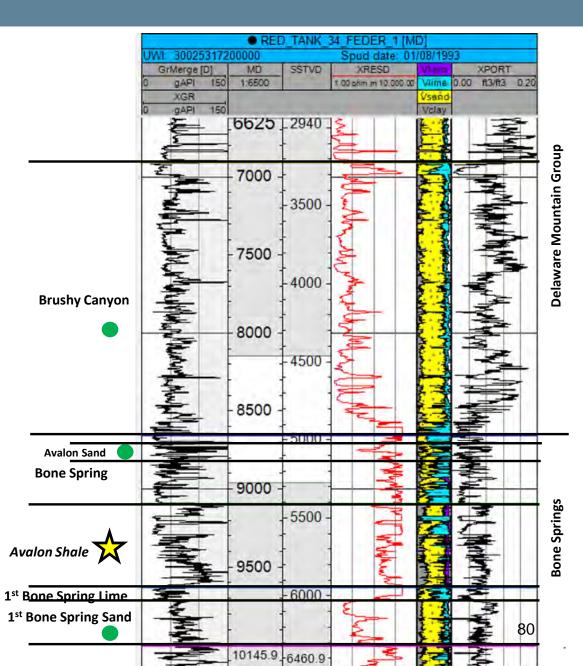
Avalon Sand

- > Conventional very fine-grained sandstone with permeability in the millidarcy range
- 1st Bone Spring Sand
 - > Conventional very fine-grained sandstone with permeability in the millidarcy range

Confining Layers

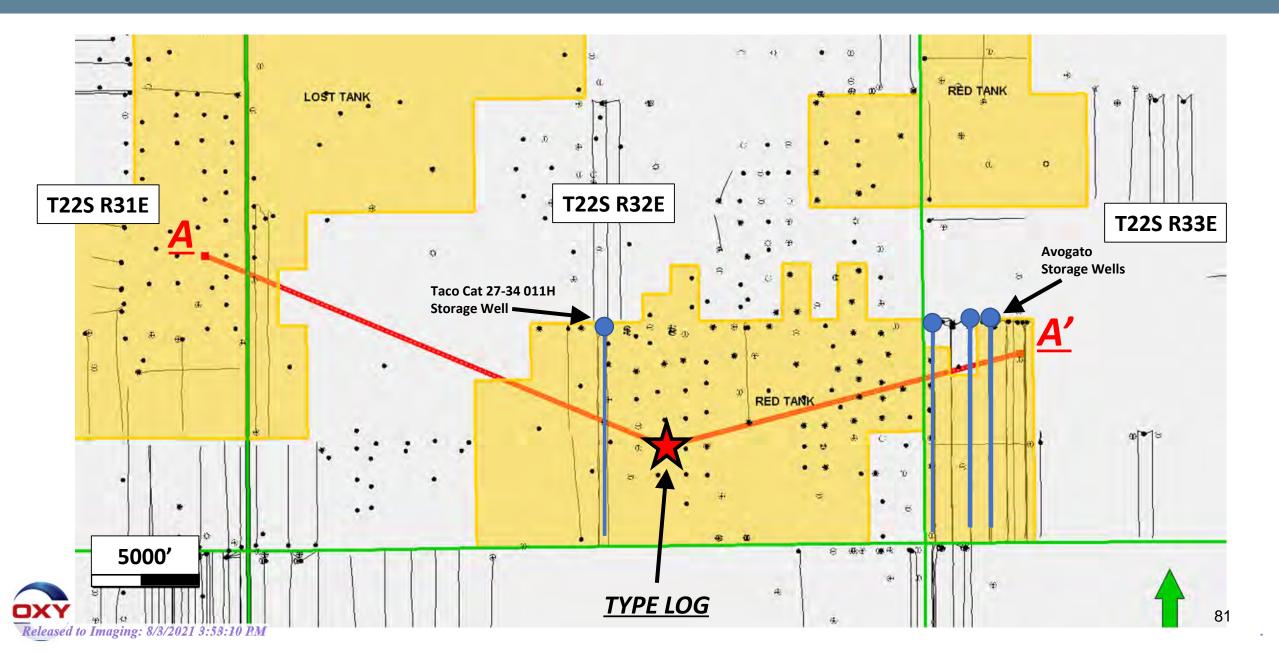
- Bone Spring
 - > Approximately 250' of impermeable limestone between Avalon Sand & Brushy Canyon and Avalon Shale
- 1st Bone Spring Lime
 - > Approximately 100' of impermeable limestone between Avalon Shale and 1st Bone Spring Sand



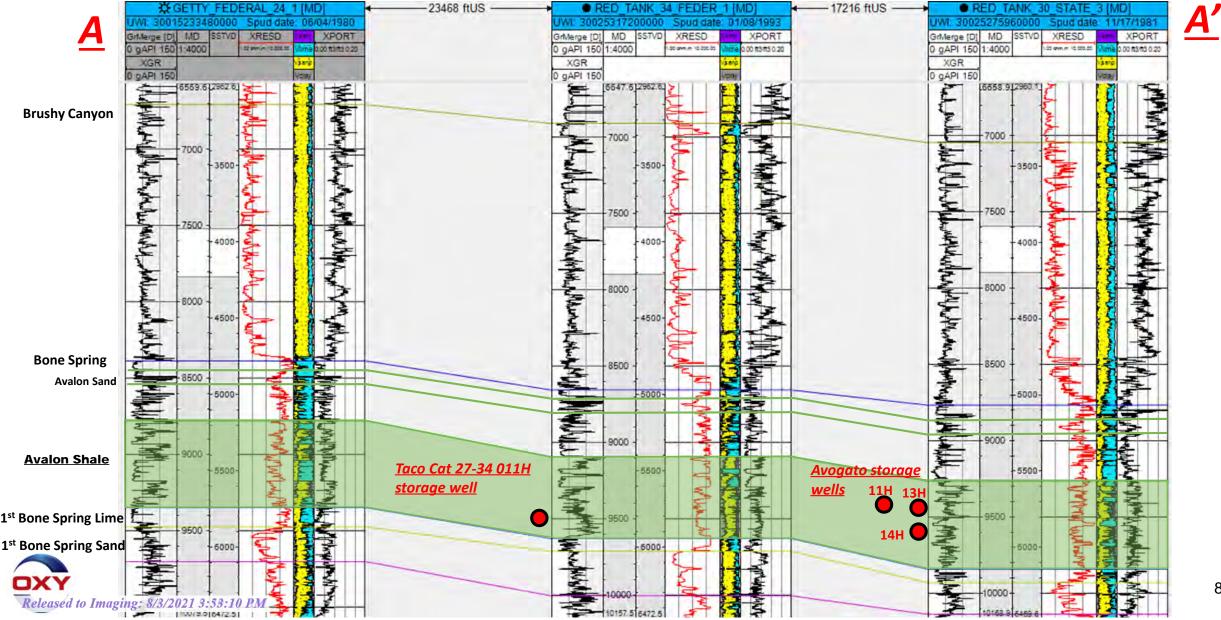


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Received by OCD: 8/3/2021 3:47:43 PM Idnks Closs-section Index Map

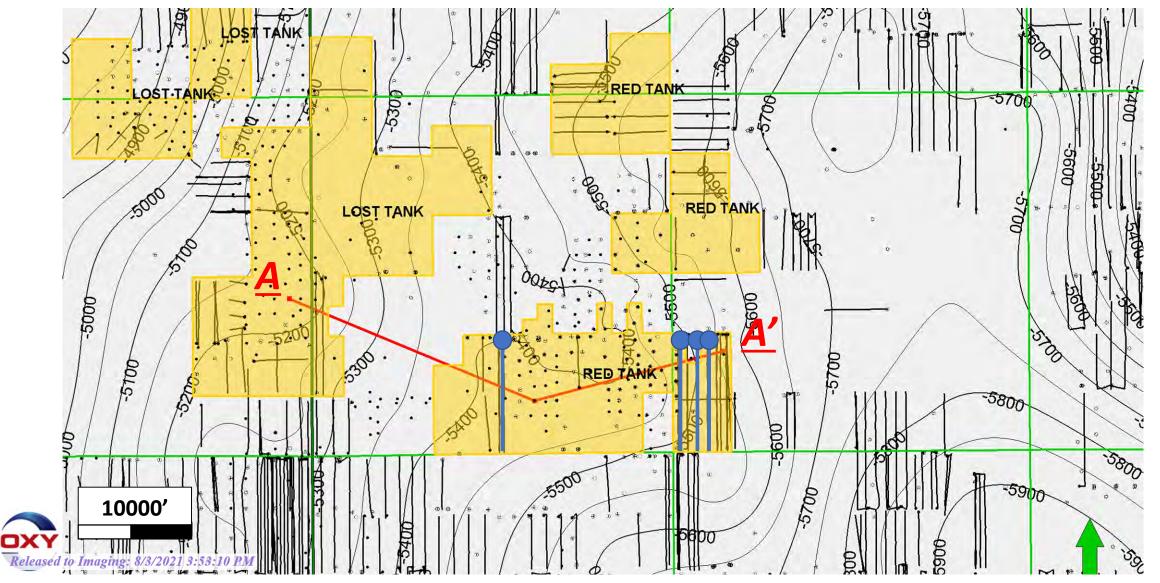


Received by OCD: 8/3/2021 3:47:43 PM I ANKS CIOSS-Section



Received by OCD: 8/3/2021 3:47:43 PM Lanks Structure Map: Top of Avalon

Consistent structural dip to east



Received by OCD: 8/3/2021 3:47:43 PM Tanks Thickness Map

Northwest-southeast trending layer of Avalon 500-600' in thickness



Geologic Information for Wells injecting into the Avalon member of the Bone Spring Formation

Four wells will be injecting into the Avalon member of the Bone Spring Formation. Two wells have an average TVD of approximately 9,400 ft. (Avogato 30-31 State Com 11H & 13H), one well has an average TVD of approximately 9,500 ft. (Taco Cat 27-34 Fed Com 11H), and one well has an average TVD of approximately 9,600 ft. (Avogato 30-31 State Com 14H). The four wells have lateral lengths of approximately 10,000 ft. The Avalon Shale is a very fine-grained quartz-rich and brittle siltstone with alternating cycles of carbonate rich mudstones deposited by gravity flows. Core data and petrophysical analysis indicates a tight reservoir with an average porosity less than 10% and an average permeability in the nano-darcy range. The reservoir has a clay content of 18% on average including illite and smectite. Cements include Fe-calcite, Fe-dolomite, with some quartz overgrowths. Minor amounts of pyrite (<1%) are present.

Low-permeability barriers to fluid flow exist within the Bone Spring Formation above and below the Avalon Shale. Above the Avalon Shale, the Bone Spring Formation consists of fine-grained siltstones, carbonate mudstone and dolomudstone that have very low permeabilities and an average thickness of 250 ft. Below the Avalon Shale is the 1st Bone Spring Lime, a low permeability ~ 100ft thick carbonate rich interval. Laterally the injection will be primarily contained by the reservoir volume that has been previously and partially depleted by the adjacent producing wells. The tight low-permeability reservoir and the production from the adjacent wells will be the primary constraints on the conformance of the injection to the project area and are expected to contain the injected gas.

Overlying the Bone Springs is the Delaware Mountain Group, which consists of connate-water bearing and hydrocarbon-bearing low permeability and porosity sands, with minor limestone and shale intervals and is approximately 3,900 ft. thick. Above that is the Castile Formation consisting of very low permeability anhydrite, gypsum, and calcite that acts as another 1,500 ft. thick barrier to upward movement of fluids. The Salado Formation overlies the Castile and consists of 1,000 ft. of impermeable salt. The top of the Salado is at 1,500 ft. TVD (depending on location within the field) and the deep aquifers found just above the Salado at the base of the Rustler are saline water. The top of Rustler Formation is at approximately 1000 ft. The Rustler top is a continuous anhydrite layer that acts as another permeability barrier creating a perched aquifer above it that is the lowest level where fresh water is known in the area, water wells drilled in the area typically have not reached this depth. Due to the thickness of multiple impermeable rock layers above the injection reservoir there is little possibility for migration upward into freshwater aquifers where they exist.

Locate freshwater wells within two miles:

An investigation of existing shallow water wells has not found any active freshwater wells within a two mile radius of these injectors.

Well List:

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Avogato 30-31 State Com 11H (30025459560000) Avogato 30-31 State Com 13H (30025459580000) Avogato 30-31 State Com 14H (30025459590000) Taco Cat 27-34 Fed Com 11H (30025449330000)

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

enus

Peter Senior, Geologist

6-30-2021

Date

Closed Loop Gas Capture (CLGC) Project

Affirmative Statement 1

The operator examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the disposal zone and any underground source of drinking water.

KLOO

Peter Senior, Geologist

Xnepp Sie

Xueying Xie, Reservoir Engineer

June 9, 2021

Date

6/9/2021

Date

Received by OCD: 8/3/2021 3:47:43 PM

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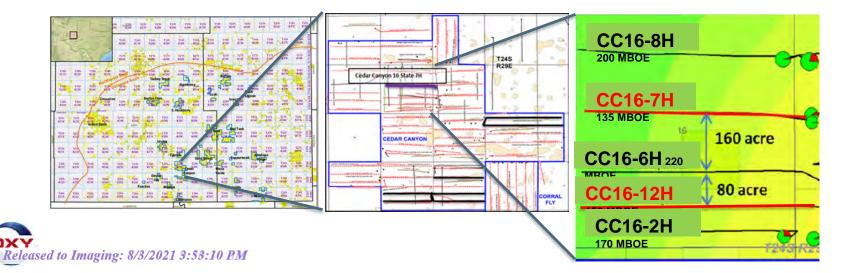
Reservoir Engineering

Received by OCD: 8/3/2021 3:47:43 PM ew - Avogato & Taco Cat

- Closed loop gas capture project (CLGC) IN Oxy's NM assets
- Produced gas injection into productive formation in NM (Avalon)
- Gas injection into horizontal wells of 10,000 ft lateral length
- Purpose of Modeling
 - > Review potential effects on wells adjacent to the CLGC area
 - >Quantify movement of the injected gas
 - >Utilize data from Cedar Canyon Huff and Puff Projects



- Uses Cedar Canyon Sec 16 2nd BSS (as shown in layout below)
- Gas Injection pilot (EOR) was implemented in CC16-7H well in 2017
- Reservoir model is history matched for primary production and gas injection pilot
- Model is also tuned to capture injection gas breakthrough in offset wells that was observed during pilot period
- Gas injection pilot wells are 4 wells per section; model is adjusted to simulate the effect of closer wells (6 wps)



Received by OCD: 8/3/2021 3:41:43 PM Section-16 Reservoir Model

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				CC16-02H CC16-12H_CC16-06H
Location:	Lea County,NM		Structure & Permeability 1,177,400 Grids	CC16-12H CC16-06H CC16-08H
Model Acreage:	640		56 Layers	CC16-07H CC10-00H
Pay Horizon:	2 nd Bone Springs Sand		-	
Lithology:	Sandstone interbedded	l with Lime	stone	
Trap Type:	Stratigraphic			
Nominal Depth:	8400 ft			
Gas Cap (at discovery):	No			
Primary Drive Mechanism:	Solution Gas Drive	_		History Match
Gross Pay:	320 ft		кемут, им горя горян <u>× FOPRH</u> — FOPR 20001	KENPT, M 1992 19931 FWPR X FWPRH 20001
Net Pay:	320 ft		Oil Rate	Water Rate
Avg Porosity:	<mark>6.8%</mark>	Ζ		
Initial Sw:	50%			
Permeability:	0.001md (matrix)	Model Inputs		
Initial Reservoir Pressure:	4500 psi	Inp	05/13 11/13 06/14 01/15 07/15 02/16	08/16 03/11 05/13 11/13 06/14 01/15 07/15 02/16 08/16 03/17
Reservoir Temperature:	150 F	ut	NEWPYT, SM FOR R PARH — FGPR × FGPRH 40001	Link without with
Oil Gravity:	42 API	N N	Gas Rate	Gas Injection Pressure
Boi:	1.63 RB/STB			
Rsi:	1480 SCF/STB			
Original Oil in Place: Released to Imaging: 8/3/2021	28 MMSTB 3:53:10 PM		8 1000 8 005/13 11/13 06/14 01/15 07/15 02/16	

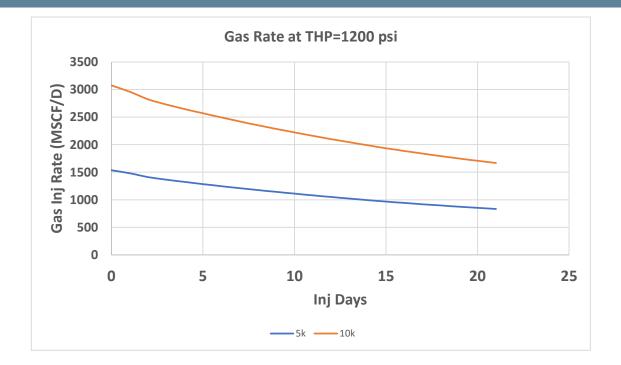
Received by OCD: 8/3/2021 3:47:43 PMS imulation Process

- Run primary production for all wells for additional period (post history match) Base Case
- Inject gas in injection well at 2MMSCFPD for 7 days
- Produce the injection well post injection Injection Case
- Observe the effect on oil, gas rate/recovery in injection well and offset wells by comparing Base and Injection cases



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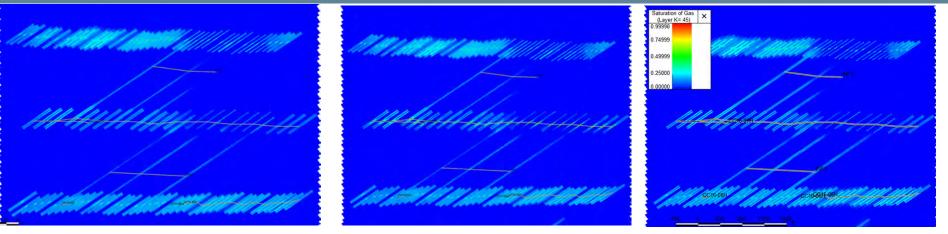
Received by OCD: 8/3/2021 3:47:43 PM rates



For a 10k well, 3 MMSCFPD is the max injection rate at THP of 1200 psi. Injection rate declines to about 50% of its initial value in 3 weeks. For long injection case a flat injection rate of 3MMSCFPD for 3 weeks is used as worst-case scenario.

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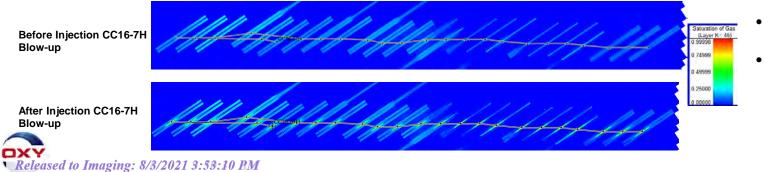
Received by OCD: 8/3/2021 3:47:43 PM CONTROL OF CONTROL



Before injection

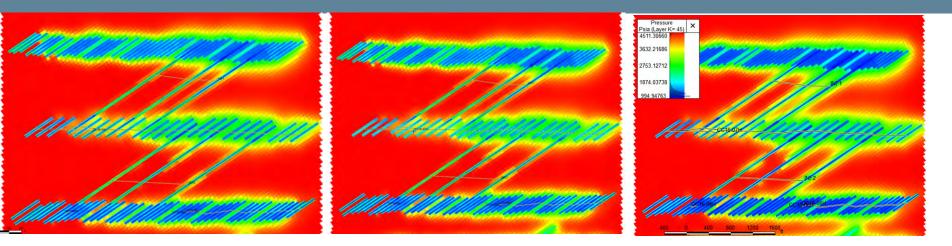
After 1 week of injection (3 MMSCFPD)

After 16 months production



- Gas is stored within fractures.
- All injection cases indicate horizontal gas movement of 100 ft or less into the fractures.

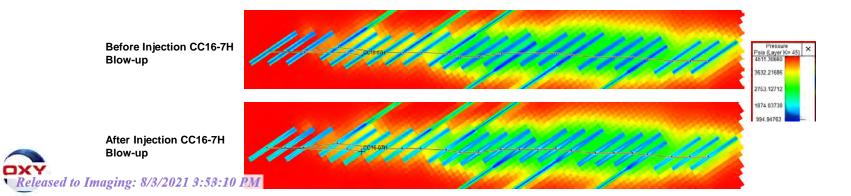




Before injection

After 1 week of injection (3 MMSCFPD)

After 16 months production



Page	<i>103</i>	of 149
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Case	Injection Description*	WPS	Oil recovery effect in injected well (MBO)	Oil recovery effect in offset wells (MBO)	Gas breakthrough in Offset well
1	Single Well	4	No change	No change	No
2	Single Well**	6	No change	No change	No
3	Single Well	8	No change	No change	No
4	Single Well (Multiple injection and production cycles)	6	No change	No change	No
5	Single well***	6	No change	No change	No
6	Multiple Adjacent Wells	4	No change	No change	No
7	Multiple Adjacent Wells	6	No change	No change	No
8	Multiple Adjacent Wells	8	No change	No change	No

*All injection at 2MMSCF/DAY for 7 days except cases 2 and 5

**Injection at 3MMSCF/DAY for 7 days

***Injection at constant surface pressure of 1200 psi for 21 days

Received by OCD: 8/3/2021 3:47:43 PM acities - Tanks

	Gas Storage Capacity with 1200 ps Injection		y with 1200 psi WHP
API	Well Name	Fracture volume gas equivalent, mmscf	Total prod gas equivalent, mmscf
30025459560000	AVOGATO 30-31 STATE COM 11H	326	1292
30025459580000	AVOGATO 30-31 STATE COM 13H	312	574
30025459590000	AVOGATO 30-31 STATE COM 14H	325	1265
30025449330000	TACO CAT 27 34 FEDERAL COM 11H	339	1377

- Gas storage capacity is high for each well
 - Even just stored gas in fractures, the capacity is over 200 mmscf
 - The expected gas injection volume for each well during each event could be up to 60 mmscf, this is way below the storage capacity

Received by OCD: 8/3/2021 3:47:43 PM hd SRV - Avogato & Taco Cat

- Frac height:
 - Avalon: Based on Tanks Avogato
 - XH= 340'
 - Xf = 350'
- SRV
 - SRV= 2*Xf*Xh*Well length

API 14	Well Name	SRV, ft^3
30025459560000	AVOGATO-11H	2,375,002,000
30025459580000	AVOGATO-13H	2,327,878,000
30025459590000	AVOGATO-14H	2,423,078,000
30025449330000	TACO2734-11H	2,421,888,000

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Closed Loop Gas Capture (CLGC) Project

Affirmative Statement 2

The operator examined the available geologic and engineering data and determined 1) the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the project and 2) the gas composition will not damage the reservoir.

Xueying Xie

6/9/2021

Xueying Xie, Reservoir Engineer

Date

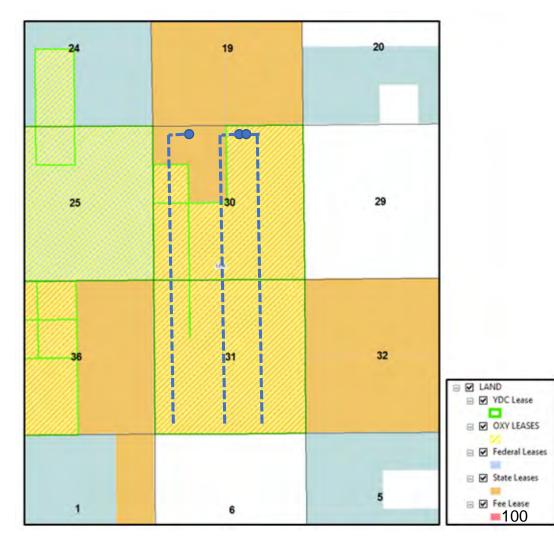
Notice

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Surface Land Ownership

	10	10	-14
	21	22	23
	28	27	26
Surface Hole Location Wellbore Trajectory	33	34	35
SURFACE LAND <all other="" values=""> SURFACE Federal Private</all>	4	3	2
State .			

Taco Cat Area



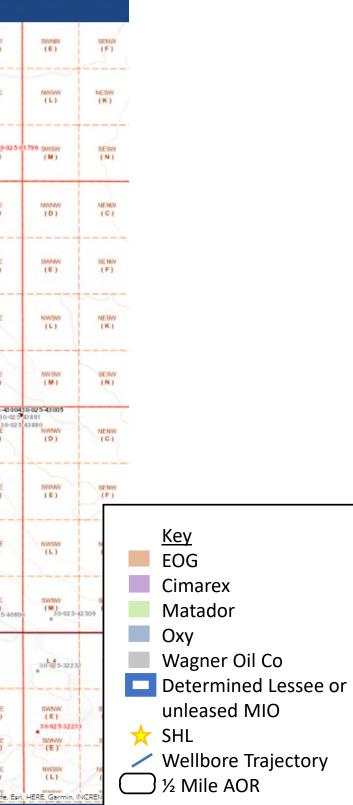
Avogato Area

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	10-025-44933 Show search results	X Q	SENW (F)	30-025- SANE (G)	24215 SENE (H)	30-025- SVMVW (E)	SENW (F)	SVINE (G)	30-025-3 SCME 30-3 (H)	1415 30- 5-081100025-3 (E)	30-025- 4337 SENW (F)	31726 30-025-3240 \$WNE (G)	SENE (H)	30-025-3 SWRW *30-0 (E)	the second state would be	30-025- 025-32626 SMNE 25-322₹7₄) 30-4		5501130-025-32850 BWNW (E)
Taco Bone				an	NESE (1)	NWSW (L)	NESW (K)	NWSE (J)	10 025 o	оз миси (L) 458	NEBW (K)	NWSE (J) 2 30-025-344	NEBE 30-	30-0 12 5-32 4885W (L)	25-32376 NESW 30- (K) 30-025-0	12 5-31 600 SE 12 5-31 600 SE 12 62 0 SE	30-025-3210 5255 NESE (7) 30 25-32853 30	3 30:02:5/33709 -9:5-316-92 30-02 553 -9:5-316-92 30-02 553 -9:5-316-92 30-02 553 -9:5-316-92 30:02:5/33 -9:5-316-92 30:02:5/33 -9:5-316-92 -9:5-320 -9:5-316-92 -
SESW SWSE (N) (0) 30-025-3846730-	SE30-025-2	18 113 0734 SWSW (M)	BESW (N)	swse (0)	SESE (P)	SWSW (M)	SESW (N)	SWSE (0)	SESE (P)	87 (**)	SESW (N)	SANE 1 01 30-025-340	30-025 <u>13</u> 582530- (₱)●	30-025-3237 025-324875W (M)	·5 •	(O)	SESE (P) 125-31907 ³⁰⁻⁰²⁵⁻	30+025-33702 (M) 3169530-025-32596 775 #
ENW NWNE (C) (B)	NENE (A)	NWNW (D)	NENW (C)	NWINE (B)	NENE (A)	NWINW (D)	NENW (C)	NWN	754 30-025-411 30-025-40956 30-0 NENE 4712430-029-47125 4752030-025-47126	-31661 -00-00 N//N	30-025-4602-30-	4003230-02-460 982530-0254755 925-3365110 (B) 30 36-025-326	10-025-46936 15-35-15-15-15-15-15-15-15-15-15-15-15-15-15	(D)	• • • • • • • • • • • • • • • • • • • •	12 5-32 94730-02 5-3 5-4112 7 • 16549 (B) 30-02		30-025-31 NW100-025-35 721 (D) 30-0
ENW SWNE (F) (G)	SEME (H)	SWNW 30-0 (E)	25-37646W (F)	SWINE (G)	SENE (H)	SWNW (E)	SENW (F)	sini (G)	30-025-3445930-0 SENE (H)	537595 SMW (E) 30	SENW (F) 25-32797 30-	SWNI (G) 025-3279630-025	30-025- 8CNL (H)	2436 30/825-3248: • (E)	30-025-3268 *30-025-3 \$ENW (F)	30-025-3290 22902 SWNE 30-0 30-025-08111	2 5-31 8 2 5-02 5-	
NESW NWSE (R() (J)	NESE (1)	NWSW (L)	NESW (K)	NWISE (J)	NEBE (1)	NWSW (L)	NESW (K)	NWSE (J)	30-4 NESE (1)	(L) (22	NESW (K) 25-32842 30-	N//30-025 (9)	1685 NE 30-025- (1)	30-025-3238 (2143 NWSW (L.)	MF-100 20-025-31	855 (\$)	5936 NE 30-025- (1) 30-025-3499650- ⁹ 30-	31054 NWSW 30-02 (L) (25-3588 30-02 (25-34521
ESW SWSE (N) (O) 30-025-3734	SESE (P) 4530-12:5-373-4430- 62:5-311414 30-	SW9W (M) 125-3845030-625-3	SESW (N) 734630-025-41260	SWSE (0)	SESE (P)	SWSW (M)	SESW (N)	30-023-32 3W9 (0) 30-025-31 653 •30-021-36	30-0 5020-025-3 (P) 0-025-3777230-025-3	56 SWSV (M.) 61	32755 ^{SE SW} (N) 30-	5W5E 30 (0)	25-3162430-025- (P)	30-025-3238 1902 SWSW (M)		₩ <mark>5-37609</mark> 30-025-3 (ϐ)	(P)	025-32 (859W) (M) 025-3407930-025-32
NENW M00:025-2	0423 NENE -30-	30-025-43	NE30-025-4	A 1230-025-3779	9 2 5-3 1 683 30-025-3 (Å)	6004 NWNW (D)	30- NENW (C)	5-3/62/66	30-028-33025304 0-025-33231 NENE (A)	025- 44934 NMW (D) 025-	25-32781 NENW 30- (C) •	025-3285591E -30	25-31720∭ (♠)	(1052 30/025/3233) (1052 (D)	6 NENW 30-4 (C)	92 5-37000 30-025-3 (B)	6293 NEXE 30- (A)	025-328584W \$30j825-326
SENW SWINE (F) (C) 38-	SENE 30- (H) -025-36911	30-825-3 25-36388-00-925-3 (E) 30-925-36136		sw30-025-3 (ੳ)	1694 SENE (H)	SWNW (E)	SENW 30 (F)		0-025-3654830-025-3 5-33232 ^{#3} 0-025-3 SENE (H)	11025	SE>30-025- (♥) [©] 30-	3583.4 SW01-025	1136 SE130-025- (11) 30	1 002 30:025-363 7. 025-354 16 ³⁰⁻⁰²⁵⁻	2 SENW 2275 (F)	SWNE (G)	30-025- SENE (H)	34987 30-025-34 SWNW 30-02 (E)
NESW NWSE (K) (J)	NESE (1) 30-	NW30-825-3 25-36656 ₃ 0-025-3	8774301025-36556 770430-025-40092	NWSE (J)	NESE (1)	NWSW (L)	30 NESW (K)	25-3323334-02 **34-02 NWSE (J)	5-36400 5-37784 NESE (1)	30-025-64 • NWSW (L)	NE 1910-025- (Roja 1925-	34 32493 NW31 (025 36424 (9) 3	(359 NE30-025- (1)0-025-	A	NESW (K)	NWSE (J)	NESE (1)	30-025-35235 NWSW (L)
BESW SWSE (N) (O) 30-025-4521	SESE (P3/0-02.5-	SWSW 661130-025-37661	SESW (N) 30-025-39978	SWSE (0) 15-415530-025-3 #30-025-3		SWSW (₩) 125-43366	SESW (N) 30-1025-3778330- 30-025-3401730-	SWSE (0) 0-36550	SESE (P) 20-0	SWSW (M) 5-41237	SEBW (N)	swsi (0)	SESE (P)	swsw 30-025-451 0330-03 10-02	SESW (5-45197) 30-00 (5-45195 @ 30-0	SWSE (O) (5-45194 (25-45196	SESE (P)	SW5W (M)
30-025-4 30-025-3555830	48118430-025-48183 30-025- 025-4818330-025-3					30-02 L 4	30-025 5-40534	5-43307 2535 L2	"	4.30	25-33369 a ³⁰⁻ L3	025-33366 L 2	37736 925-32	37 L4	L3	L2	30-025- L 1	40181 30-025 30-025 40-038 L 4 30-02
235 32E (SENV SWNE (F) (030-023-	-36600 SENP-125-	6500 SWWW (E)	SENW (F)	SWNE (G)	SENE (H)	5W/W/ (E)	SENW (F)	SWNE (G)	30 ⁻¹⁰⁻⁴⁰¹⁷	SWNW 30 (E)	25-40 ^{55,000}	SMY5-025	198 SENS 30-025- (10)	08114 SWWV (E)	SENW (F)	SWNE (G) 30-	SENE (H) 025-32104	SWNW (E) 20-025-3367430-02 \$30-02
ENW SWNE (F) (G) NESW NWSE (K) (J)	(H) NESE (1)	(E) NWSW (L)	(F) NESW (K)	(G) NWSE (J)	(H) NESE (I)	(E)	(F) (K)	(G) NMSE (J)	(H) NESE (1)	(E) NWSW (L)	(F) NESW (K)	(G) NWSE (J)	(H) NESE (1)	(E) NWSW (L)	(F) (K)	(G) (G) NWSE (J)	(H) NESE (1)	(E) NWSW 30-025-361 9230-02
SESW SWSE (N) (D) 30-@5	SESE (P)	23 SWSW (M) 0-025-43643	15-32E SESW (N)	SWSE (0)	SEISE (\$0):025-40 30.025-40	SW SW 0 573 0-026 1463 58 3 593 0-02 5-47 050	SE 9W 20-02 5-40090 30-025-46091	30-425-31	650 (P) 30-0	SWSW (M) 25-46998	SESW (N)	SNSE 30-425(4345730- \$0-4254745130-	SESE 025-4696-636-025-	รพรพ ธุรรร วชาติ 5-4122 1650 - 31	SESW 1130-025-01318	SWSE (0) 30-025-40315	SESE (P) 0-025-48216 218-025-48219	5W5W (M) 30-@5-3689836-@ #30-@
30-023-43	112 30-025-44292 3		025-45068 NENW (C) 2/2000	NWNE (B.)	NENE (A)	NWWW (D)	NENW (C)	NWNE (B)	NENE (A)	30-025-02 NWNW (D)		30-025-421	E1 30-025-42 50-025-42 NENE (A) 30	93 94 30-025-419 • • • • • • • • • • • • • • • • • • •	61 30-925-42220 • 30-025-4194	30-02 30-02 NANE	5-42109 30-0 5-42290ENE [®] (A)	30-025-38137 5-42048 NWNW (D) ENT P. USGS, METI/



Avogato Area													
Bone Spring H	Show search resu	X Q 0-025-3 (ts for 30-025 22879) 30-0	2626 30-025-30511 SENE	(E) (F)	478 02-2 ₃ /Mine (G)	78 30-025-340 SENE (H)			30-625-32833 MVE SEVE G) (H)	30-025-0 SVWAV (E)	1798 SENW (F)	SWNE (G)	SENE (H)
Dil and Gas Wells Wells - Large Scale Miscellaneous	30-625-32 0-625-32 #8E5W (L)	NWSE 38-025-33 90630-025-3	30-005-32100 12:55 NESE 3 (f) 30-025-3 25-32#83 30-025-3	30- 5 010215133703 <mark>30-925535912</mark> 16 ⁶² 30-925-35882 (К)	12320 WVSE (-50-025-329	45 Mar 102 5-33 701		ESW ((K) 19	NOC J) NOC 10-02	5- 267 IWNSW (L.)	NESW (K) 2	NWSE (J) 0	NEBE (1)
 ※ CO2, Active ○ CO2, Cancellad ※ CO2, New ○ CO2, Plugged ○ CO2, Temporarily Abandoned 	30-025-32375 56530-025-324875W *3(0025-35825 (M))	30-025-32660 325330-025-33669 SWSE (N) (O) 30-0	SESE (P) 25-3190730-025-31695 25/73 19	30-025-33 30:025-33702 SESW (M) 05:025-32596 (N)	e passes	2330-025-33798 SESE (P)		SESW SN (N) 30-625-40439	NSE SESE 01 (P) 30-025-40440 30-02	5 441 (M)	SEBW (N)	sw <u>≥e</u> -c≥5-c (8)	01800 <u>56(30-0)</u> (P)
Gas, Active Gas, Cancelled Gas, New Gas, Plugged	30-025-4755930-025-32403 30-025-32437 (WNW 30-025-351624 (D) 30-025-	5-3238 30-025-36540 NWME (830-025-36540 (8)),005-3	2017 36 ²⁰ 25-35531 7004 ³ 36 ²⁰ 25-35924	30-025-31850 NW00-025-35720 NE130-025-3 (D) (C) 30-025-34706	0 7 W/09-025 (1) 025-35627 025-37782	-025-33319 24 NEN20-025 (A)	30 4595730 135 0.025-4592 4 ³⁰ - 025-32278	125-4 25 25 (C) (30-025-45961 30- 30-025-45960 30-025-45960 ENE (A)	044063 W/WW (口)	NENW (C)	NWNE (B)	NENE (A)
Gas, Temporarily Abandoned Gas, Temporarily Abandoned Injection, Active Injection, Cancelled Injection, New J Injection, Pluggad	0'SENE 30+025-32463 (H) • (L)	30-025-32651 30-025-32900 *30-025-52900 SENW SWNE 30-0 (F) 30-025-00111	25-31 (220-025-39040	(E) 30-025-32445	30 31 ISINE (G)	-33399 SEN-025-1 (H) 30/025-3322		1959	27596	596 Simw (E)	SENW (F)	SWNE (G)	SENE (H)
 Injection, Temporarily Abandoned Oil, Active Oil, Cancelled Oil, New Oil New 	27- 30-025-32386 30-025-32143 NWSW (1) (L)	20 NESU(25-31855 (3) 30(025-31855 (3)	5936 NE:30-025-31854 (¶) 30-025-3498630-025-31 %30-025-34		33142	•32290	4592	4	45930	м (8.0-025- (Е)	097 NESW (K)	NWSE (J)	NESE (1)
Oil, Plugged Oil, Temporarily Abandoned Salt Water Injection, Active Salt Water Injection, Cancelled Salt Water Injection, New	30-025-32387 30-025-31902 SWSW (P) (M) 30-0	SESW 30-025-3700900-025-3 25(3)910 (D)	(P) 30-025-34	30-10 5-34705 78.50W (M) 107530-025-32023 (M00-025-32023	32581	01 8E00-025- (P)	4592	esw si S ⁽⁾ (45931 459 ₄₄₁₆₁	SURSW (M)	SESW (N)	awse (0)	SERE (P)
Salt Water Injection, Plugged Salt Water Injection, Temporarily Abandoned Water, Active Water, Cancelled	10-125-31951 ²⁰⁻¹⁰²⁵⁻³²³³⁶ • (A) (D)	NENW 30-025-37600-025-3 (C) (B)	(A)		0 30-025 €3 N///€ (B)	97 35107£5-01	4592 4592 4595	9 33107	459 44193 7459 44063 459 23	(D) 37000	NENW (C)	NWINE (B)	30-025-42
 Water, New Water, Plugged Water, Temporarily Abandoned undefined 	30-025-2193230-025-36372 (H130-025-35418-30-025-3227	SENW SWAE S (F) (G)	30-023-34907 SENE (H)	•	33∦46/€ *3Q-02,5-330	эо (025-3323 • (Н)	4595	30- 25-49839 2000 SW (F) (45964 _M	SURWY (E)	SENW (F)	SWNE (G)	SENE (H)
OCD Districts and Offices DCD District Offices * Public Land Survey System	- 34 30:025-3 30:025-32325 (L)	36 NESW NWSE (K) (J)		10-025-33235 NVSW NESW 30-025 (L) (K) 30-025	33093	93 NESE (1) 38-025-3 2		ESW NY (K) (SE NESE (1)	43923 NV/SW (L)	NESW (K)	NWSE (J)	NESE (1)
PLSS Second Division	SESE SWSW (P) 30-025-4519330-025-45 (P) 30-025-45	5ESW SWSE 51971) 30-020-45194 1195 1₩30-025-45196	SESE (P)	SWSW SESW (M) (N)	33498 30-925-534	33688 11 30-025-136	883 -025-33580	(N) (SE SESE (P)	Sir (10-025-0 ((())	1102 SESW (N)	SWSE (0)	SESE (P) 00.025-4
PLSS First Division	2 ² L1 L4 235 326	L3 L2	30-025-00181 L 1	30-025-4142030-025-4142 30-025-300438 *** 30-025-4140 L 4 L 3 30-025-33673	2 = 30-025-41501; 2 = 30-025-	30-025-43736 4373730-025-4373 L 1			2 5 11	14	-12	L2	.1
	SENE SWNW	SENW SWNE	(H) 25-32108 30-55 SENE	SWNW SENN (E) (F) 15-3367430-025-36887 *30-025-38135	33629 39-425 SMNE (G) 1501	43738 43736	46278 4	6335 47	350 47489	SWNW (E)	SENW (F) SENW	SWINE (G) SWINE	SENE (H)
		(F) (G) NESW 02 (K) NWSE (J) 10345624 32:36378 Degrees (1)	(1) 30-0	(E) (F) 30025 NWSW NESW 21 (L) 1230-025-33673 SWSW SESW (M) (N)	(G) 33631 30-025 NWSE (J)	43737 • 25 NESE (1) SESE (P)	235 33E L 6	(K) 06 N	G) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	NWSW (L) SWS#	NESW (K)	NWSE (J)	NESE (1)



Taco Cat Area Notice List

Name	Street	City	State	Zip Code	Merged			
	Surface Ov	wners						
BLM	620 E. Greene St.	Carlsbad	NM	88220	BLM 620 E. Greene St. Carlsbad, NM 88220			
Leasehold Operators								
CIMAREX ENERGY CO.	600 N. Marienfield St. Suite 600	Midland	тх	79701	CIMAREX ENERGY CO. 600 N. Marienfield St. Suite 600 Midland, TX 79701			
Marathon Oil Permian LLC	5555 San Felipe St.	Houston	тх	77056	Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056			
	Affected Pe	ersons						
XTO Holdings LLC	P.O. Box 840780	Dallas	тх	75284	XTO Holdings LLC P.O. Box 840780 Dallas, TX 75284			
Marathon Oil Permian LLC	5555 San Felipe St.	Houston	тх	77056	Marathon Oil Permian LLC 5555 San Felipe St. Houston, TX 77056			
A.J. Losee	Box 1720	Artesia	NM	88211	A.J. Losee Box 1720 Artesia, NM 88211			
Anne Ransome-Losee	3505 Calle Cuervo #218	Albuquerque	NM	87048	Anne Ransome-Losee 3505 Calle Cuervo #218 Albuquerque, NM 87048			
Arthur Dow	324 Yucca Dr. NW	Albuquerque	NM	87105	Arthur Dow 324 Yucca Dr. NW Albuquerque, NM 87105			
Black Mountain Operating LLC	500 Main St Ste 1200	Fort Worth	тх	76102	Black Mountain Operating LLC 500 Main St Ste 1200 Fort Worth, TX 76102			
Bradley S. Bates	2400 N. Pecos St.	Midland	тх	79705	Bradley S. Bates 2400 N. Pecos St. Midland, TX 79705			
Buckeye Energy Inc.	P.O. Box 3788	Midland	тх	79702	Buckeye Energy Inc. P.O. Box 3788 Midland, TX 79702			
Burlington Resources Oil & Gas Co LP	P.O. Box 51810	Midland	тх	79710	Burlington Resources Oil & Gas Co LP P.O. Box 51810 Midland, TX 79710			
C. W. Trainer	P.O. Box 3788	Midland	тх	79702	C. W. Trainer P.O. Box 3788 Midland, TX 79702			
Carmine Scarcelli	2111 Wellington Ct.	Midland	ТΧ	79705	Carmine Scarcelli 2111 Wellington Ct. Midland, TX 79705			

Carrie A. Haydel	149 14th St.	New Orleans	LA	70124	Carrie A. Haydel 149 14th St. New Orleans, LA 70124
Chevron USA Inc.	Chevron USA Inc. 1400 Smith St.		тх	77002	Chevron USA Inc. 1400 Smith St.
Cimarex Energy Company of Colorado	600 N. Marienfield St. Suite 600	Midland	тх	79701	Houston, TX 77002 Cimarex Energy Company of Colorado 600 N. Marienfield St. Suite 600 Midland, TX 79701
Devon Energy Production Company LP	333 W. Sheridan Ave	Oklahoma City	ОК	73102	Devon Energy Production Company LP 333 W. Sheridan Ave Oklahoma City, OK 73102
Diance C. Prince	816 Connectcut Ave NW	Washington	DC	20006	Diance C. Prince 816 Connectcut Ave NW Washington, DC 20006
Elizabeth Losee	328 Sierra Pl.	Albuquerque	NM	87108	Elizabeth Losee 328 Sierra Pl. Albuquerque, NM 87108
EOG Resources Inc.	P.O. Box 840321	Dallas	тх	75284	EOG Resources Inc. P.O. Box 840321 Dallas, TX 75284
Frederick Prince IV	816 Connectcut Ave NW	Washington	DC	20006	Frederick Prince IV 816 Connectcut Ave NW Washington, DC 20006
Highpoint Operating Corp.	216 16th St. Ste 1100	Denver	со	80202	Highpoint Operating Corp. 216 16th St. Ste 1100 Denver, CO 80202
Jesus Salazar Family LP	2400 Rose NW	Albuquerque	NM	87104	Jesus Salazar Family LP 2400 Rose NW Albuquerque, NM 87104
John Blackburn	P.O. Box 340535	Austin	тх	78734	John Blackburn P.O. Box 340535 Austin, TX 78734
Kent H. Berger	203 W. Wall St. #612	Midland	тх	79701	Kent H. Berger 203 W. Wall St. #612 Midland, TX 79701
Lewis O. Campell	8111 Lamp Post Cir SE	Albuquerque	NM	87123	Lewis O. Campell 8111 Lamp Post Cir SE Albuquerque, NM 87123
Losee Investments	P.O. Box 1720	Artesia	NM	88211	Losee Investments P.O. Box 1720 Artesia, NM 88211
Lynn S. Charulk	2401 Stutz Pl.	Midland	тх	79705	Lynn S. Charulk 2401 Stutz Pl. Midland, TX 79705
Mackenroth Interests LLC	3601 N. I-40 Service Rd.	West Martairie	LA	70002	Mackenroth Interests LLC 3601 N. I-40 Service Rd. West Martairie, LA 70002

					Mcnic O&G Properties
Mcnic O&G Properties	1360 Post Oak Blvd	Houston	тх	77056	1360 Post Oak Blvd
Menie odd i roperties		nouston	17	//050	Houston, TX 77056
					PBEX Resources
PBEX Resources	223 W. Wall St. Ste 900	Midland	тх	79701	223 W. Wall St. Ste 900
I BEX Resources		ivitalatia	17	/5/01	Midland, TX 79701
					Penwell Energy Inc.
					600 N. Marienfield St. Suite
Penwell Energy Inc.	600 N. Marienfield St. Suite 1100	Midland	ТΧ	79701	1100
					Midland, TX 79701
					PXP Producing LLC
PXP Producing LLC	717 Texas St Ste #2100	Houston	тх	77002	717 Texas St Ste #2100
FAF FIOUUCINg LLC	/1/ 10/03 51 510 #2100	Houston	17	77002	Houston, TX 77002
					Robert M. Dow Revocable
					Trust
Robert M. Dow Revocable	5136 Lomas De Artisto Rd NW	Albuquerque	NM	1 87105	5136 Lomas De Artisto Rd
Trust	SISO LONIAS DE ALLISLO RUNIV	Albuqueique		8/105	NW
					Albuquerque, NM 87105
					Sealy Hutchings Cavin Inc.
Sealy Hutchings Cavin Inc.	504 N Wyoming Ave	Roswell	NM	88201	504 N Wyoming Ave
					Roswell, NM 88201
					South Highway 14 Bus Co
South Highway 14 Bus Co	324 Yucca Dr. NW	Albuquerque	NM	87105	324 Yucca Dr. NW
South Fighway 14 Bus Co	Sz4 fucca DI. NW	Albuqueique		8/105	Albuquerque, NM 87105
					Southwest Royalties Inc
Southwest Royalties Inc	6 Desta Dr. Ste 3700	Midland	тх	79705	6 Desta Dr. Ste 3700
Southwest Royalties Inc	o Desta DI. Ste 3700	witalatia	17	19705	Midland, TX 79705
					Strata Production Co
Strata Production Co	P.O Box 1030	Roswell	NM	/ 88292	P.O Box 1030
Strata i roduction co			INIVI		Roswell, NM 88292
					The Gray Exploration Co
The Gray Exploration Co	3601 N. I-40 Service Rd.	West Martairie	LA 70	70002	3601 N. I-40 Service Rd.
	5001 N. 1 40 SCIVICE NO.	west martance	L/1	70002	West Martairie, LA 70002
					The Ninety-Six Corp
The Ninety-Six Corp	550 W. Texas #1225	Midland	тх	79701	550 W. Texas #1225
The Ninety Six corp	550 W. TCAUS #1225	Witalana		/5/01	Midland, TX 79701
					Trainer Partners LTD
Trainer Partners LTD	P.O. Box 3788	Midland	тх	79702	P.O. Box 3788
		indiana	17	/5/02	Midland, TX 79702
					XTO Energy Inc.
					22777 Springwoods Village
XTO Energy Inc.	22777 Springwoods Village Pkwy	Spring	ТΧ	77389	Pkwy
					Spring, TX 77389
					XTO Holdings LLC
					22777 Springwoods Village
XTO Holdings LLC	22777 Springwoods Village Pkwy	Spring	ТΧ	77389	Pkwy
					Spring, TX 77389
					XTO Holdings LLC
XTO Holdings LLC	P.O. Box 840780	Dallas	тх	75284	P.O. Box 840780
					Dallas, TX 75284
					POGO PRODUCING CO.
POGO PRODUCING CO.	P.O. Box 10340	Midland	тх	79702	P.O. Box 10340
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			1	1	1111010110, 1X / J/02

Avogato Area Notice List

Name	Street	City	State	Zip Code	Merged			
	Surfac	e Owners		-				
State Land Office	308 Old Santa Fe Trail	Santa Fe	NM	87501	State Land Office 308 Old Santa Fe Trail Santa Fe, NM 87501			
Leasehold Operators								
CIMAREX ENERGY CO.	600 N. Marienfield St. Suite 600	Midland	тх	79701	CIMAREX ENERGY CO. 600 N. Marienfield St. Suite 600 Midland, TX 79701			
EOG Resources Inc.	P.O. Box 2267	Midland	тх	79702	EOG Resources Inc. P.O. Box 2267 Midland, TX 79702			
Matador Production Company	5400 LBJ Freeway Ste 1500	Dallas	тх	75240	Matador Production Company 5400 LBJ Freeway Ste 1500 Dallas, TX 75240			
Wagner Oil Co	500 Commerce Suite 500	Fort Worth	тх	76102	Wagner Oil Co 500 Commerce Suite 500 Fort Worth, TX 76102			
Affected Persons								
1 Timothy 6 LLC	P.O. Box 30598	Edmond	ОК	73003	1 Timothy 6 LLC P.O. Box 30598 Edmond, OK 73003			
2019 Permian Basin JV	P.O. Box 10	Folosom	LA	70437	2019 Permian Basin JV P.O. Box 10 Folosom, LA 70437			
Accelerate Resources Operating LLC	5949 Sherry Ln.	Dallas	ΤХ	75225	Accelerate Resources Operating LLC 5949 Sherry Ln. Dallas, TX 75225			
C.D. Martin	P.O. Box 12	Midland	тх	79702	C.D. Martin P.O. Box 12 Midland, TX 79702			
Cal-Mon Oil Company	200 N. Loraine St. Ste 1404	Midland	тх	79701	Cal-Mon Oil Company 200 N. Loraine St. Ste 1404 Midland, TX 79701			
Campeche Petro LP	500 Commerce St. Ste 600	Fort Worth	тх	76102	Campeche Petro LP 500 Commerce St. Ste 600 Fort Worth, TX 76102			
Cardinal Plastics	P.O. Box 935	Odessa	тх	79760	Cardinal Plastics P.O. Box 935 Odessa, TX 79760			

P.O. Box 8028	Santa Fe	NM	87504	Conrad E. Coffield P.O. Box 8028
P.O. Box 840321	Dallas	тх	75284	Santa Fe, NM 87504 EOG Resources Inc. P.O. Box 840321
				Dallas, TX 75284 Kastman Oil Company
P.O. Box 5930	Lubbock	тх	79408	P.O. Box 5930 Lubbock, TX 79408
2626 Cole Ave Ste 300	Dallas	тх	75204	Lonsdale Resources LLC 2626 Cole Ave Ste 300
				Dallas, TX 75204 Maduro Oil & Gas LLC
3102 Maple Avenue Suite 400	Dallas	тх	75201	3102 Maple Avenue Suite 400 Dallas, TX 75201
P.O. Box 246	Roswell	NM	88202	SDS Properties Inc. P.O. Box 246 Roswell, NM 88202
P.O. Box 41270	Reno	NV	89504	Silverstone Resources Inc. P.O. Box 41270 Reno, NV 89504
P.O. Box 293	Midland	тх	79702	Tocor Investments Inc. P.O. Box 293 Midland, TX 79702
Box 1720	Artesia	NM	88211	A.J. Losee Box 1720 Artesia, NM 88211
3505 Calle Cuervo #218	Albuquerque	NM	87048	Anne Ransome-Losee 3505 Calle Cuervo #218 Albuquerque, NM 87048
324 Yucca Dr. NW	Albuquerque	NM	87105	Arthur Dow 324 Yucca Dr. NW Albuquerque, NM 87105
2400 N. Pecos St.	Midland	тх	79705	Bradley S. Bates 2400 N. Pecos St. Midland, TX 79705
P.O. Box 3788	Midland	тх	79702	Buckeye Energy Inc. P.O. Box 3788 Midland, TX 79702
P.O. Box 51810	Midland	тх	79710	Burlington Resources Oil & Gas Co LP P.O. Box 51810 Midland, TX 79710
P.O. Box 3788	Midland	тх	79702	C. W. Trainer P.O. Box 3788 Midland, TX 79702
	P.O. Box 840321 P.O. Box 5930 2626 Cole Ave Ste 300 3102 Maple Avenue Suite 400 P.O. Box 246 P.O. Box 41270 P.O. Box 293 Box 1720 3505 Calle Cuervo #218 324 Yucca Dr. NW 2400 N. Pecos St. P.O. Box 3788 P.O. Box 51810	Image: constraint of the sector of the sec	Image: constraint of the section of	Image: Mark Stress of the stress of

Carmine Scarcelli	2111 Wellington Ct.	Midland	тх	79705	Carmine Scarcelli 2111 Wellington Ct. Midland, TX 79705
Carrie A. Haydel	149 14th St.	New Orleans	LA	70124	Carrie A. Haydel 149 14th St. New Orleans, LA 70124
Devon Energy Production Company LP	333 W. Sheridan Ave	Oklahoma City	ОК	73102	Devon Energy Production Company LP 333 W. Sheridan Ave Oklahoma City, OK 73102
Diance C. Prince	816 Connectcut Ave NW	Washington	DC	20006	Diance C. Prince 816 Connectcut Ave NW Washington, DC 20006
Elizabeth Losee	328 Sierra Pl.	Albuquerque	NM	87108	Elizabeth Losee 328 Sierra Pl. Albuquerque, NM 87108
EOG Resources Inc.	P.O. Box 840321	Dallas	тх	75284	EOG Resources Inc. P.O. Box 840321 Dallas, TX 75284
Frederick Prince IV	816 Connectcut Ave NW	Washington	DC	20006	Frederick Prince IV 816 Connectcut Ave NW Washington, DC 20006
Jesus Salazar Family LP	2400 Rose NW	Albuquerque	NM	87104	Jesus Salazar Family LP 2400 Rose NW Albuquerque, NM 87104
John Blackburn	P.O. Box 340535	Austin	ТΧ	78734	John Blackburn P.O. Box 340535 Austin, TX 78734
Kent H. Berger	203 W. Wall St. #612	Midland	ТΧ	79701	Kent H. Berger 203 W. Wall St. #612 Midland, TX 79701
Lewis O. Campell	8111 Lamp Post Cir SE	Albuquerque	NM	87123	Lewis O. Campell 8111 Lamp Post Cir SE Albuquerque, NM 87123
Losee Investments	P.O. Box 1720	Artesia	NM	88211	Losee Investments P.O. Box 1720 Artesia, NM 88211
Lynn S. Charulk	2401 Stutz Pl.	Midland	тх	79705	Lynn S. Charulk 2401 Stutz Pl. Midland, TX 79705
Mackenroth Interests LLC	3601 N. I-40 Service Rd.	West Martairie	LA	70002	Mackenroth Interests LLC 3601 N. I-40 Service Rd. West Martairie, LA 70002

Mcnic O&G Properties 1360 Post Oak Blvd Houston TX 77056	
	1360 Post Oak Blvd
	Houston, TX 77056
PBEX Resources 223 W. Wall St. Ste 900 Midland TX 79701	PBEX Resources 223 W. Wall St. Ste 900
PBEX Resources223 W. Wall St. Ste 900MidlandTX79701	
	Midland, TX 79701 Penwell Energy Inc.
600 N. Marienfield St.	600 N. Marienfield St.
Penwell Energy Inc. Suite 1100 Midland TX 79701	Suite 1100
	Midland, TX 79701
	PXP Producing LLC
PXP Producing LLC 717 Texas St Ste #2100 Houston TX 77002	717 Texas St Ste #2100
	Houston, TX 77002
	Robert M. Dow
Robert M. Dow Revocable 5136 Lomas De Artisto	Revocable Trust
Trust Rd NW Albuquerque NM 87105	5136 Lomas De Artisto Rd
	NW
	Albuquerque, NM 87105
	South Highway 14 Bus Co
South Highway 14 Bus Co 324 Yucca Dr. NW Albuquerque NM 87105	324 Yucca Dr. NW
	Albuquerque, NM 87105
	Southwest Royalties Inc
Southwest Royalties Inc 6 Desta Dr. Ste 3700 Midland TX 79705	6 Desta Dr. Ste 3700
	Midland, TX 79705
	The Gray Exploration Co
The Gray Exploration Co 3601 N. I-40 Service Rd. West Martairie LA 70002	3601 N. I-40 Service Rd.
	West Martairie, LA 70002
	The Ninety-Six Corp
The Ninety-Six Corp 550 W. Texas #1225 Midland TX 79701	550 W. Texas #1225
	Midland, TX 79701
	Trainer Partners LTD
Trainer Partners LTD P.O. Box 3788 Midland TX 79702	P.O. Box 3788
	Midland, TX 79702
	LIME ROCK RESOURCES
	A, L.P.
LIME ROCK RESOURCES A, L.P. 1111 Bagby Street Suite Houston TX 77002	1111 Bagby Street Suite
4600	4600
	Houston, TX 77002
	POGO PRODUCING CO.
POGO PRODUCING CO. P.O. Box 10340 Midland TX 79702	P.O. Box 10340
	Midland, TX 79702
	POGO PRODUCING
POGO PRODUCING COMPANY 700 Milliam Suite 1300 Houston TX 77002	COMPANY LLC
LLC 700 Milliam Suite 1300 Houston 1X 77002	700 Milliam Suite 1300
	Houston, TX 77002

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 22089

AFFIDAVIT OF STEPHEN JANACEK

I, Stephen Janacek, of lawful age and being first duly sworn, declare as follows:

1. My name is Stephen Janacek and I am employed by OXY USA Inc. ("OXY") as a petroleum engineer.

2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum engineering.

3. I am familiar with the application filed by OXY in this case, and the Division guidance and requirements regarding closed loop gas capture projects (CLGC Projects) such as this one. I also prepared exhibits in support of this application from pages 3-4, 7-8, 33-54, 56, 58-65, 99-109 in *Exhibit A* to OXY's application, and as <u>Exhibit A</u>.

4. In this case, Oxy seeks an order approving the proposed 320-acre, more or less, project area for this pilot project consisting of the W/2 W/2 of Sections 27 and 34, Township 22 South, Range 32 East, NMPM, Lea County, New Mexico. *See Exhibit A*, attached to the application in this case, at 7. The proposed project area is part of a larger area referred to as the Tanks area. A locator map identifying the general location of OXY's proposed Taco Cat Injection Pilot Project is included in *Exhibit A* at page 7.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089 5. OXY requests an initial project duration of five years to coincide with mechanical integrity tests every five years. OXY also requests the ability to administratively extend the project without the need for a hearing.

6. Within the proposed project area, OXY seeks authority to utilize the following producing well to occasionally inject produced gas into the Bone Spring formation [Red Tank; Bone Spring Pool (Pool Code 51683)]:

• The Taco Cat 27-34 Federal Com #11H well (API No. 30-025-44933), with a surface location 260 feet FNL and 855 feet FWL (Unit D) in Section 27, and a bottom hole location 20 feet FSL and 998 feet FWL (Unit M) in Section 34

7. Injection along the horizontal portion of the wellbore will be at the following approximate true vertical depths:

• The Taco Cat 27-34 Federal Com #11H well: between 9,339 feet and 9,517 feet.

8. A summary overview of the pilot project is located at pages 3-4 of *Exhibit A*.

9. A process flow diagram of the closed loop gas capture system is in the Attached *Exhibit A* at page 8. This diagram reflects the current and proposed system to be used for gas storage. OXY will utilize the existing gas lift infrastructure so no changes are shown. During normal operations, produced fluids flow from the wells down the green flowline to the Red Tank 27/28 Central Tank Battery (CTB). The source wells, which consist of all wells connected to the CTB, produce from the Bone Spring and Wolfcamp formations. Oil, water, and gas are separated out and leave the central tank battery. Oil is sold through the Lease Automatic Custody Transfer (LACT) at the CTB, water is sent to a disposal well, and gas enters the red, Low Pressure Gas Pipeline. Gas can then be sold to the DCP Primary Gas Takeaway, flared, or flow to the Centralized Gas Lift (CGL) Stations for compression and re-injection as gas lift gas. After the

gas goes through the CGL Stations, the pressure increases to a maximum of 1250 psig in the orange Centralized Gas Lift (CGL) Pipeline. Then it flows back to the wells with gas lift systems. The flow of fluids is similar yet different during a gas storage event. A gas storage event is initiated when gas cannot be sold to DCP and the source wells are not shut-in. The major changes are to the DCP Primary Gas Takeaway (which ceases taking gas) and the CLGC well (which cease producing and becomes a CLGC well). Since gas cannot be sold, it will begin to build up in the Low-Pressure Gas Pipeline as wells continue to produce oil, water, and gas. Once the pressure in the Low-Pressure Gas Pipeline increases to a certain point, the CLGC well will be activated. The CLGC well is activated by closing the Shutdown Valve (SDV) at the wellhead. When the interruption ends and gas can once again be sold to DCP, the gas storage event ends. The Shutdown Valve opens and the CLGC well produces down the flowline to a dedicated separator at the CTB for measurement.

10. A map depicting the pipeline that ties the CLGC well for the pilot project into the gathering system and the affected compressor station is included in the attached *Exhibit A* at page 7. The colors and components of the system are the same as the process flow diagram in the attached *Exhibit A* at page 8 with some additional items. The black line represents the wellbore trajectory of the CLGC well. The First Take Point (FTP) and Last Take Point (LTP) are labeled on the well trajectory. The project area is outlined with a dashed, dark-blue line, which is based on the CLGC well's horizontal spacing unit as shown on the attached *Exhibit A* at pages 13. The gas source wells are not on this map.

11. Data for each CLGC well, including well diagrams and well construction, casing, tubing, packers, cement, perforations, and other details for each proposed injection well are

included in the attached *Exhibit A* at pages 33-34. The CGLC well has a gas lift system which injects down the casing and produces up the tubing with a packer in the hole.

12. When needed, OXY proposes to place a packer as deep as possible but no more than 100 feet above the top of the injection zone.

13. A cement bond log demonstrates the placement of cement in the CLGC well proposed in the CLGC project, and that there is a good and sufficient cement bond with the production casing and the tie-in of the production casing with the next prior casing in the well. *See Exhibit A* at 35-38.

14. The current average surface pressures under normal operations for the proposed injection well is approximately 670 psi. *See Exhibit A* at 39. The maximum achievable surface pressure (MASP) for the CLGC well will be 1,200 psi. *Id*.

15. Assuming a full fluid column of reservoir brine water, the proposed maximum allowable surface pressure will not exert pressure at the top perforation in the wellbore of the CLGC well in excess of 90% of the burst pressure for the production casing. *See Exhibit A* at 39. In addition, the proposed maximum allowable surface pressure will not exceed 0.14 psi per foot as measured at the top of the uppermost perforation in the CLGC well and will not exert pressure at the top-most perforation in excess of 90% of the formation parting pressure. *See Exhibit A* at 39. 39.

16. OXY plans to monitor gas storage injection and operational parameters for the CLGC Project using an automated supervisory control and data acquisition (SCADA) system with pre-set alarms and automatic shut-in safety valves that will prevent injection pressures from exceeding the MASP. *See* Exhibit A at 40 and 50-51. The wellhead diagram for the CLGC well is found in *Exhibit A* at 40. Injection starts at the flowmeter where the injection rate is measured

and moves through the following components: first, the injection flow control valve which controls the injection pressure, the casing safety shutdown valve (SSV), which can open and close automatically, the casing-tubing annulus, the tubing, the tubing SSV, which can open and close automatically and is also closed when a CLGC well is activated, and finally another flow control valve (FCV), which controls flowline pressure. Pressure Indicating Transmitters (PITs) are located on the casing valve and tubing valves. PITs capture pressure data that is stored in the SCADA system and then used to automatically control the SSVs and FCVs.

17. The proposed average injection rate for the CLGC well is 1.8 MMSCFD with a maximum injection rate of 2.0 MMSCFD during injection. *See Exhibit A* at 39.

18. The well proposed for injection in the CLGC Project has previously demonstrated mechanical integrity. *See Exhibit A* at 41. OXY will undertake a new test to demonstrate mechanical integrity for the CLGC well proposed for this pilot project as a condition of approval prior to commencing injection operations.

19. The source of gas for injection will be from wells producing in the Bone Spring and Wolfcamp formations that are identified in the list of wells in *Exhibit A* at page 43.

20. OXY has prepared an analysis of the composition of the source gas for injection and a corrosion prevention plan. *See Exhibit A* at 42-48. *Exhibit A* at 42 is a summary of the gas analyses included in the application and the components in the system. All source wells flow to the single CTB. From there, gas can flow to the CGL station. Gas analyses have been provided for the CGL Station and the formation for gas injection. The gas analysis for the CGL Station is similar to the gas analysis for the zones for gas injection. H2S is not found in any of the gas analyses. CO2 is found in all the analyses at various amounts.

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21. Since CO2 is already present in this system, OXY intends to continue with its existing Corrosion Prevention Plan in the CLGC well outlined at page 48 of *Exhibit A*. In the existing Corrosion Prevention Plan, produced gas is processed through a gas dehydration unit to remove water. Then corrosion inhibitor is added to the system of each well downstream of the gas dehydration unit. Fluid samples are taken regularly and checked for iron, manganese, and residual corrosion inhibitor in the produced fluids. The process allows OXY to continuously monitor and adjust the chemical treatment over the life of the well to minimize corrosion. Additionally, fluid samples will be taken prior to gas injection to establish a baseline for analysis. After a CLGC event, fluid samples will be taken to check for iron, manganese, and residual corrosion inhibitor in the produced fluids in the CLGC well. OXY will continue to monitor and adjust the chemical treatment over the life of the project.

22. Using an automated supervisory control and data acquisition (SCADA) system, OXY will monitor a multitude of rates and pressures to allow for efficient and safe operation, proper allocation and reporting of volumes, and immediate response to unexpected events. *See Exhibit A* at 40 and 50-51. The CLGC well will also include automated safety devices, including automatic shut-in valves among other operational safety measures. OXY will also monitor and track various operational parameters at the pilot project's central tank battery and central gas lift compressor. *See Exhibit A* at 50-51.

23. OXY proposes a Data Collection Plan for the Taco Cat CLGC Project as seen in its Data Collection Plan, attached as <u>Exhibit B-1</u>, to collect and report data pertinent to CLGC operations. The plan is similar to the data collection process outlined in the Injection Order R-21747 but proposes some changes. Consistent with Order R-21747, the Data Collection Plan will apply to the wells listed in the table in the Exhibit. A gunbarrel view is not included with the

Data Collection Plan because there are no offset horizontal wells operated by OXY. In the OXY Data Collection Plan for Taco Cat, there are some changes to the reporting requirements. First, to lessen the administrative burden of these requirements, OXY will provide status updates every 12 months. Second, the recovery analysis will be required only if the change in production casing pressure or production volume is related to the CLGC event. These wells are on gas lift most of the time, and changes in casing pressure or production volumes are not unusual for artificially lifted wells. Third, if the CLGC well is being produced pursuant to an approved commingling permit, OXY will use best efforts to obtain the well production volumes at the frequency required, but measurements necessary for the proper allocation of volumes need to take precedent over these requirements. Lastly, OXY shall not be required to install additional facilities or measurement equipment to collect the data described. These changes create an achievable Data Collection Plan for Taco Cat. If a data collection plan is required as outlined in the Injection Order R-21747, additional well testing equipment will be required. If required, it will severely impact OXY's ability to pursue the CLGC Project due to the capital costs associated with installing the additional well testing equipment.

24. I also conducted an analysis of the half-mile area of review and two-mile area surrounding the CLGC well. A map depicting wells and their trajectories within the half-mile area of review and two-mile radius around the CLGC well is located at page 54 of *Exhibit A*. A map identifying each surface tract by ownership type within the half-mile area of review and two-mile area surrounding the CLGC well is located at page 53 of *Exhibit A*. Finally, a map depicting all wells identified with completed laterals all or partially within the half-mile area of review is located at page 56 of *Exhibit A*. It assigns a well identification number to each well within the area of review that may be cross referenced in the following well data tabulation chart on pages 58-61 of

Exhibit A. The well data tabulation chart provides detailed information for identification, location, drilling, casing, cement, current completion, and current producing pool of each well.

25. Wellbore schematics for the seven wells that penetrate the proposed injection interval and have been plugged and abandoned are included at pages 62-68 in *Exhibit A*. Review of the wellbore diagrams indicate adequate casing, cement, and cement plug placement to sufficiently contain gas within the injection interval.

26. To properly determine gas production the CLGC well, OXY will apply a Percentage Gas Allocation Method. *See* Gas Allocation, attached as **Exhibit B-2**. Per existing commingling permits,¹ gas sales are allocated by well test. For a period of time after a storage event, the Percentage Gas Allocation Method will be used to differentiate between native gas (owned by the owners of the CLGC well) and recovery of previously stored gas (owned by the owners of the source wells). This method is simple compared to individual GOR forecasting and decline curve analysis for the well. A similar method is in the proposed Unit Agreement for OXY's pending Cedar Canyon Section 23/24 EOR "Juno" Unit. The method allows for native gas production and associated payments to occur each month regardless of the injection gas volumes. I believe it is a fair and reasonable method for allocating gas production after a storage event. We met with the Bureau of Land Management on June 8, 2021 to present and discuss the method. They did not voice any objections to the method.

27. Working with OXY's in-house land department, I also prepared a list of affected parties required to receive notice of this application. The map on page 100 of *Exhibit A* reflects that the BLM is the surface owner with respect to the CLGC well. The map on page 101 depicts

¹ PLC-1334.

the area of review and identifies the designated operator for each tract that falls within the halfmile area of review for each of the wells within the Bone Spring formation.

28. Pages 103-105 of *Exhibit A* identify all each leasehold operators and other affected persons within any tract wholly or partially contained within one-half mile of the completed interval of the wellbore for each of the proposed injection wells entitled to notice in accordance with Division regulations, including the owner of the BLM as the surface owner where the CLGC well is located.

29. Parties entitled to notice were identified based on a determination of the title of lands and interests as recorded in the records of Lea County or from a review of New Mexico Oil Conservation Division and Bureau of Land Management operator records as of the time the application was filed or from OXY's internal records (division orders).

30. It is my opinion that OXY undertook a good faith effort to locate and identify the correct parties and valid addresses required for notice within the half-mile area of review. To the best of my knowledge the addresses used for notice purposes are valid and correct. There were no unlocatable parties for whom we were unable to locate a valid address.

31. I provided the law firm of Holland & Hart LLP a list of names and addresses of the affected parties identified on pages 103-105 for purposes of providing notice.

32. As reflected on **Exhibit B-3**, notice of this application was provided in accordance with 19.15.26.8(B)(2) NMAC. Notice was also published in the Hobbs Daily News.

33. **OXY Exhibits B-1** through **B-3** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT.

A STEPHEN JANACEK

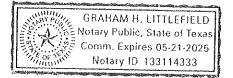
STATE OF TEXAS)
CONTRACT DOLZOC)
COUNTY OF BMZOS	_)

SUBSCRIBED and SWORN to before me this <u>31d</u> day of <u>AUQUS</u> 2021 by

Stephen Janacek.

NOTARY PUBLIC

My Commission Expires: 25



PROPOSED DATA COLLECTION PLAN FOR TACO CAT CLGC PROJECT

CLGC Well Name	Completion Reservoir	Involved Well (West Side)	Involved Well (East Side)
Taco Cat 27-34 Federal Com			
11H	Avalon	None	None

Since there are not involved offset wells to the east or west of the Taco Cat 27-34 Federal Comm 11H, no Gunbarrel View is submitted at the end of the proposed Data Collection Plan.

Applicant shall provide to the OCD Engineering Bureau at ocd.engineer@state.nm.us, project status updates every twelve (12) months after the approval of this Order and a summary report no later than three (3) months after the cessation of the pilot project or upon request from OCD. Status updates shall include a summary of the actions taken and problems and solutions identified and implemented. The summary report(s) shall include:

a. a summary of all project-related activity;

b. a review regarding any problems and solutions identified and implemented;

c. for each period of injection, a summary of the results, including for each CLGC Well in which injection occurred:

i. average and maximum injection flow rates;

ii. injection duration; and

iii. total injected volume.

d. for each period of injection, the following data graphed and tabulated with a resolution of at least: one (1) data point per hour beginning twenty-four (24) hours before the injection, four (4) data points per hour during the injection, and one (1) data point per hour ending twenty-four (24) hours after the injection:

i. for each CLGC well, the oil and gas production and injection flow rates and production casing pressure.

e. for each period of injection, a recovery profile for each CLGC Well which experienced a change in production casing pressure or production volume related to the injection during or immediately following the injection. The volume of recovered gas shall be determined by taking the difference between the gas production following the injection and baseline production. The baseline production shall be determined by using production history to plot a production curve that estimates what the production would have been had injection not occurred. The recovery profile shall include: BEFORE THE OIL CONSERVATION DIVISION

FORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B1 Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089 i. a summary of the results, including the volume and percent of total production recovered and the duration of time required to achieve that recovery; and

ii. a tabulation of daily oil and gas production and baseline production totals; beginning a week before the injection and ending when either the gas production is near equal to its baseline production or Applicant conducts another period of injection on a CLGC Well.

f. If any of the CLGC wells are being produced pursuant to an approved commingling permit, Applicant will use best efforts to obtain the well production volumes at the frequency required in subparagraphs (d) or (e) above, but measurements necessary for proper allocation of volumes under the commingling permit shall take precedent over these requirements. Also, Applicant shall not be required to install additional facilities or measurement equipment to collect the data described above in subparagraphs (d) or (e) above.

Gas Production Percentage Allocation Method for CLGC- TC

- Simple compared to a GOR method.
- Similar method utilized in the proposed Unit Agreement for Cedar Canyon Sec 23/24 EOR "Juno" Unit.
- Native gas production and royalty payments occur each month regardless of storage gas volumes.
- Fair and reasonable method for allocating gas production after a storage event.
- BLM (met 6/8/21) did not voice any objections.
- Method
 - During a storage event, storage gas is metered. The cumulative metered volume equals the stored injection volume.
 - After a storage event, produced gas will be measured and allocated on a monthly basis between gas lift, native gas production and recovered storage injection volume.
 - Total wellhead volume less gas lift injection equals gross production.
 - Until 100% of storage injection volume is recovered, gross production will be apportioned as follows:
 - 70% return of storage injection volume and
 - 30% native gas production.
 - After all stored injection volume is recovered, all gross production will be treated as native gas.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B2 Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 22089

AFFIDAVIT

STATE OF NEW MEXICO)) ss. COUNTY OF SANTA FE)

Adam G. Rankin, attorney in fact and authorized representative of OXY USA Inc, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application has been provided under the notice letters and proof of receipts attached hereto.

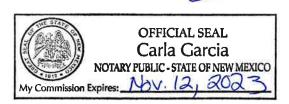
Adam G. Rankin

SUBSCRIBED AND SWORN to before me this 3rd day of August, 2021 by Adam G.

Rankin.

Notary Public

My Commission Expires:



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. B3 Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089



Adam G. Rankin Phone (505) 988-4421 agrankin@hollandhart.com

July 16, 2021

<u>VIA CERTIFIED MAIL</u> <u>CERTIFIED RECEIPT REQUESTED</u>

TO: ALL AFFECTED PARTIES

Re: Application of OXY USA Inc. for Closed Loop Gas Capture Injection Pilot Project, Lea County, New Mexico. <u>Taco Cat 27-34 Fed Com #11H wells</u>

Ladies & Gentlemen:

This letter is to advise you that OXY USA Inc. has filed the enclosed application with the New Mexico Oil Conservation Division.

During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on August 5, 2021 beginning at 8:15 a.m., until it is concluded. To participate in the electronic hearing, see the instructions posted on the OCD Hearings website: http://www.emnrd.state.nm.us/OCD/announcements.html.

You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date. Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed online or in person at the Division's Santa Fe office and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Stephen Janacek, at (713) 497-2417, or Stephen_Janacek@OXY.com.

Sincerely,

Adam G. Rankin ATTORNEY FOR OXY USA INC.

OXY_Taco Cat CLGC injection project Case No. 22089 Postal Delivery Report

TrackingNo	ToName	DeliveryAddress	City	State	Zip	USPS_Status
						Your item was delivered to an individual at the address at 12:48 pm
9402811898765804642011	BLM	620 E Greene St	Carlsbad	NM	88220-6292	on July 22, 2021 in CARLSBAD, NM 88220.
						Your item has been delivered to an agent for final delivery in
9402811898765804642455	Bradley S. Bates	2400 N Pecos St	Midland	тх	79705-7652	MIDLAND, TX 79705 on July 22, 2021 at 3:36 pm.
						Your item was delivered at 12:46 pm on July 26, 2021 in MIDLAND,
9402811898765804642462	Buckeye Energy Inc.	PO Box 3788	Midland	тх	79702-3788	TX 79701.
						Your item has been delivered to an agent for final delivery in
9402811898765804642424	Burlington Resources Oil & Gas Co LP	PO Box 51810	Midland	тх	79710-1810	MIDLAND, TX 79705 on July 30, 2021 at 6:44 pm.
						Your item was delivered at 1:37 pm on July 22, 2021 in MIDLAND, T
9402811898765804642400	C. W. Trainer	PO Box 3788	Midland	тх	79702-3788	79701.
						Your item has been delivered to an agent for final delivery in
9402811898765804642493	Carmine Scarcelli	2111 Wellington Ct	Midland	тх	79705-1700	MIDLAND, TX 79705 on July 22, 2021 at 1:54 pm.
						Your item was delivered in or at the mailbox at 7:16 pm on July 21,
9402811898765804642448	Carrie A. Haydel	149 14th St	New Orleans	LA	70124-1209	2021 in NEW ORLEANS, LA 70124.
	· · · · · · · · · · · · · · · · · · ·					Your item was delivered to an individual at the address at 12:12 pm
9402811898765804642486	Chevron U.S.A. Inc. attn Land Department	6301 Deauville	Midland	тх	79706-2964	on July 23, 2021 in MIDLAND, TX 79706.
						Your item was delivered at 1:30 pm on July 29, 2021 in HOUSTON, T
9402811898765804642431	Chevron USA Inc.	1400 Smith St	Houston	тх	77002-7327	77002.
						Your item was delivered to an individual at the address at 9:59 am
9402811898765804642479	Cimarex Energy Company of Colorado	600 N Marienfeld St Ste 600	Midland	тх	79701-4405	on July 22, 2021 in MIDLAND, TX 79701.
						Your item was delivered at 8:43 am on July 21, 2021 in OKLAHOMA
9402811898765804642516	Devon Energy Production Company LP	333 W Sheridan Ave	Oklahoma City	ок	73102-5010	CITY, OK 73102.
			,			Your item was delivered to an individual at the address at 8:23 am
9402811898765804642059	CIMAREX ENERGY CO.	600 N Marienfeld St Ste 600	Midland	тх	79701-4405	on July 21, 2021 in MIDLAND, TX 79701.
						Your item departed our USPS facility in WASHINGTON DC
						DISTRIBUTION CENTER on August 1, 2021 at 7:13 am. The item is
9402811898765804642554	Diance C. Prince	816 Connecticut Ave NW	Washington	DC	20006-2705	currently in transit to the destination.
						Your item was returned to the sender on July 29, 2021 at 3:01 pm in
						SANTA FE, NM 87501 because the addressee moved and left no
9402811898765804642561	Elizabeth Losee	328 Sierra Pl NE	Albuquerque	NM	87108-1139	forwarding address.
						Your item was delivered at 7:18 pm on July 21, 2021 in DALLAS, TX
9402811898765804642509	EOG Resources Inc.	PO Box 840321	Dallas	тх	75284-0321	75266.
						Your item arrived at the Post Office at 8:44 am on July 31, 2021 in
9402811898765804642592	Frederick Prince IV	816 Connecticut Ave NW	Washington	DC	20006-2705	WASHINGTON, DC 20016.
						Your item was returned to the sender on July 29, 2021 at 3:01 pm ir
						SANTA FE, NM 87501 because the addressee moved and left no
9402811898765804642547	Highpoint Operating Corp.	216 16th St Ste 1100	Denver	со	80202-5115	forwarding address.
						This is a reminder to arrange for redelivery of your item or your iten
9402811898765804642585	Jesus Salazar Family LP	2400 Rose Ave NW	Albuquerque	NM	87104-1942	will be returned to sender.
						This is a reminder to arrange for redelivery of your item or your iten
9402811898765804642530	John Blackburn	PO Box 340535	Austin	ΤХ	78734-0009	will be returned to sender.
						Your item arrived at the SANTA FE, NM 87504 post office at 7:43 am
9402811898765804642578	Kent H. Berger	203 W Wall St Ste 612	Midland	ΤХ	79701-4555	on July 30, 2021 and is ready for pickup.
						Your item was forwarded to a different address at 1:22 pm on July
						22, 2021 in ALBUQUERQUE, NM. This was because of forwarding
						instructions or because the address or ZIP Code on the label was
9402811898765804640215	Lewis O. Campell	8111 Lamp Post Cir SE	Albuquerque	NM	8712	3 incorrect.
						This is a reminder to arrange for redelivery of your item or your iten
9402811898765804640260	Losee Investments	PO Box 1720	Artesia	NM	88211-1720	will be returned to sender.

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OXY_Taco Cat CLGC injection project Case No. 22089 Postal Delivery Report

						Your item was delivered to the front desk, reception area, or mail
9402811898765804642066	Marathon Oil Permian LLC	5555 San Felipe St	Houston	тх	77056-2701	room at 2:06 pm on July 22, 2021 in HOUSTON, TX 77056.
9402811898709804042000		5555 San Tenpe St	nouston		77030-2701	Your item arrived at the Post Office at 1:19 am on August 2, 2021 in
9402811898765804640222	Lynn S. Charulk	2401 Stutz Pl	Midland	тх	79705-4931	MIDLAND, TX 79711.
						Your package will arrive later than expected, but is still on its way. It
9402811898765804640208	Mackenroth Interests LLC	3601 N. I-40 Service Rd.	West Martairie	LA	70002	is currently in transit to the next facility.
						Your item arrived at the SANTA FE, NM 87504 post office at 7:22 am
9402811898765804640291	Mcnic O&G Properties	1360 Post Oak Blvd	Houston	ΤХ	77056-3030	on July 31, 2021 and is ready for pickup.
						Your item was delivered to an individual at the address at 12:45 pm
9402811898765804640284	PBEX Resources	223 W Wall St Ste 900	Midland	ТΧ	79701-4567	on July 23, 2021 in MIDLAND, TX 79701.
						Your item was delivered to an individual at the address at 4:05 pm
9402811898765804640239	Penwell Energy Inc.	600 N Marienfeld St Ste 1100	Midland	ТΧ	79701-4395	on July 23, 2021 in MIDLAND, TX 79701.
						Your item arrived at the SANTA FE, NM 87504 post office at 9:10 am
9402811898765804640277	PXP Producing LLC	717 Texas St Ste 2100	Houston	ТΧ	77002-2753	on July 31, 2021 and is ready for pickup.
						Your item was delivered to an individual at the address at 11:19 am
9402811898765804640819	Robert M. Dow Revocable Trust	5136 Lomas De Atrisco Rd NW	Albuquerque	NM	87105-1569	on July 29, 2021 in ALBUQUERQUE, NM 87105.
						Your item arrived at the SANTA FE, NM 87504 post office at 7:43 am
9402811898765804640857	Sealy Hutchings Cavin Inc.	504 N Wyoming Ave	Roswell	NM	88201-2169	on July 30, 2021 and is ready for pickup.
						This is a reminder to arrange for redelivery of your item or your item
9402811898765804640864	South Highway 14 Bus Co	324 Yucca Dr NW	Albuquerque	NM	87105-1935	will be returned to sender.
						Your item was returned to the sender on July 29, 2021 at 3:01 pm in
						SANTA FE, NM 87501 because the addressee moved and left no
9402811898765804640826	Southwest Royalties Inc	6 Desta Dr Ste 3700	Midland	ТХ	79705-5516	forwarding address.
						Your item was delivered at 7:04 pm on July 22, 2021 in DALLAS, TX
9402811898765804642028	XTO Holdings LLC	PO Box 840780	Dallas	ТХ	75284-0780	75260.
						Your item was delivered at 7:30 am on July 21, 2021 in SANTA FE,
9402811898765804640802	State Land Office	308 Old Santa Fe Trail	Santa Fe	NM	87501	NM 87501.
0.0000.0000.0000.0000.0000.0000.0000.0000		20.2.4020			00000 4000	Your item was delivered at 11:00 am on July 22, 2021 in ROSWELL,
9402811898765804640895	Strata Production Co	PO Box 1030	Roswell	NM	88202-1030	NM 88201.
0403011000705004040040	The Crew Evaluration Co	3601 N. I-40 Service Rd.	West Martairie	LA	70002	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9402811898765804640840	The Gray Exploration Co	3601 N. I-40 Service Rd.	west Martaine	LA	70002	Your package will arrive later than expected, but is still on its way. It
9402811898765804640888	The Ninety Six Corn	550 W Texas Ave Unit 1225	Midland	тх	79701-4257	is currently in transit to the next facility.
94020110907050040400000		550 W Texas Ave Offic 1225	IVIIUIAIIU	1	79701-4257	Your item was delivered at 12:46 pm on July 26, 2021 in MIDLAND,
9402811898765804640833	Trainer Partners ITD	PO Box 3788	Midland	тх	79702-3788	TX 79701.
94020110907030040400033		FU BUX 3786	Iviluiariu	1	79702-3788	Your item has been delivered to an agent for final delivery in
9402811898765804640871	XTO Energy Inc	22777 Springwoods Village Pkwy	Spring	тх	77389-1425	SPRING, TX 77389 on July 21, 2021 at 9:56 am.
5402011050705004040071			561118		77505 1425	Your item has been delivered to an agent for final delivery in
9402811898765804640710	XTO Holdings LLC	22777 Springwoods Village Pkwy	Spring	тх	77389-1425	SPRING, TX 77389 on July 21, 2021 at 9:56 am.
5102012050705001010710			oping		77000 1120	Your item was delivered at 7:04 pm on July 22, 2021 in DALLAS, TX
9402811898765804640758	XTO Holdings LLC	PO Box 840780	Dallas	тх	75284-0780	75260.
				· ·		Your item was returned to the sender on July 29, 2021 at 3:01 pm in
						SANTA FE, NM 87501 because the addressee moved and left no
9402811898765804640765	POGO PRODUCING CO.	PO Box 10340	Midland	тх	79702-7340	forwarding address.
						Your item was delivered to the front desk, reception area, or mail
9402811898765804642004	Marathon Oil Permian LLC	5555 San Felipe St	Houston	тх	77056-2701	room at 2:06 pm on July 22, 2021 in HOUSTON, TX 77056.
						This is a reminder to arrange for redelivery of your item or your item
9402811898765804642097	A.J. Losee	PO Box 1720	Artesia	NM	88211-1720	will be returned to sender.
						Your item was returned to the sender on July 29, 2021 at 3:01 pm in
						SANTA FE, NM 87501 because the addressee moved and left no

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Page 134 of 149

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OXY_Taco Cat CLGC injection project Case No. 22089 Postal Delivery Report

						This is a reminder to arrange for redelivery of your item or your item
9402811898765804642035	Arthur Dow	324 Yucca Dr NW	Albuquerque	NM	87105-1935	will be returned to sender.
						Your item was forwarded to a different address at 10:02 am on July
						30, 2021 in FORT WORTH, TX. This was because of forwarding
						instructions or because the address or ZIP Code on the label was
9402811898765804642417	Black Mountain Operating LLC	500 Main St Ste 1200	Fort Worth	ΤХ	76102-3926	incorrect.

THE HALL

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Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

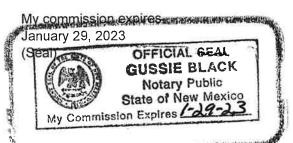
> Beginning with the issue dated July 25, 2021 and ending with the issue dated July 25, 2021.

Publisher

Sworn and subscribed to before me this 25th day of July 2021.

Black

Business Manager



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said LEGAL NOTICE July 25, 2021 STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION SANTA FE, NEW MEXICO

The State of New Mexico, Energy Minerals and Natural Resources Department, Oil Conservation Division ("Division") hereby gives notice that the Division will hold public hearings before a hearing examiner on the following case. During the COVID-19 Public Health Emergency, state buildings are closed to the public and Division hearings will be conducted remotely. The public hearing for the following case will be electronic and conducted remotely. The hearing will be conducted on **Thursday, August 5, 2021, beginning at 8:15 a.m.** To participate in the electronic hearing, see the instructions posted below. The docket may be viewed at http://www.emrd.state.nm.us/OCD/hearings.html or obtained from Marlene Salvidrez, at Marlene.Salvidrez@state.nm.us. Documents filed in the case may be viewed at http://ocdimage.emrd.state.nm.us/imaging/CaseFileCriteria.aspx. If you are an individual with a disability who needs a reader, amplifier, qualified sign language interpreter, or other form of auxiliary aid or service to attend or participate in a hearing, contact Marlene Salvidrez at Marlene.Salvidrez@state.nm.us, or the New Mexico Relay Network at 1-800-659-1779, no later than July 25, 2021.

Persons may view and participate in the hearings through the following link:

https://nmemnrd.webex.com/nmemnrd/onstage/g.php?MTID=e12d56bf176d7f28 0e15d2923570bbb1c Event number: 146 234 7684 Event password: u47kXsERRb4

Join by video: 1462347684@nmemnrd.webex.com Numeric Password: 949758 You can also dial 173.243.2.68 and enter your meeting number

Join by audio: 1-844-992-4726 United States Toll Free Access code: 146 234 7684

STATE OF NEW MEXICO TO: All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

To: All affected persons, including: Bureau of Land Management; Cimarex Energy Co.; Marathon Oil Permian LLC; XTO Holdings LLC; A.J. Losee, his or her heirs and devisees; Anne Ransome-Losee, her heirs and devisees; Arthur Dow, his heirs and devisees; Black Mountain Operating LLC; Bradley S. Bates, his heirs and devisees; Black Mountain Operating LLC; Bradley S. Bates, his heirs and devisees; Buckeye Energy Inc.; Burlington Resources Oil & Gas Co LP; C. W. Trainer, his or her heirs and devisees; Carmine Scarcelli, his heirs and devisees; Carrie A. Haydei, her heirs and devisees; Chevron USA Inc.; Cimarex Energy Company of Colorado; Devon Energy Production Company LP; Diance C. Prince, her heirs and devisees; Elizabeth Losee, her heirs and devisees; EOG Resources Inc.; Frederick Prince IV, his heirs and devisees; Highpoint Operating Corp, Jesus Salazar Family LP; John Blackburn, his heirs and devisees; Kert H. Berger, his heirs and devisees; Lewis O. Campell, his heirs and devisees; Losee Investments; Lynn S. Charulk, her heirs and devisees; Mackenroth Interests LLC; Mcnic O&G Properties; PBEX Resources; Penwell Energy Inc.; PXP Producing LLC; Robert M. Dow Revocable Trust; Sealy Hutchings Cavin Inc.; South Highway 14 Bus Co; Southwest Royalties Inc; State Land Office; Strata Production Co; The Gray Exploration Co; The Ninety-Six Corp; Trainer Partners LTD; XTO Energy Inc.; XTO Holdings LLC; and Pogo Producing Co.

Case No. 22089: Application of OXY USA Inc. for Closed Loop Gas Capture Injection Pilot Project, Lea County, New Mexico. Applicant in the above-styled cause seeks an order authorizing it to engage in a closed loop gas capture injection pilot project ("pilot project") in the Bone Spring formation in the Red Tank, Bone Spring Pool (Pool Code 51683) within a 320-acre, more or less, project area for this pilot project consisting of the W/2 W/2 of Sections 27 and 34. Township 22 South, Range 32 East, NMPM, Lea County, New Mexico, by occasionally injecting into the Taco Cat 27-34 Federal Com #11H well (API No. 30-025-44933), with a surface location 260 feet FNL and 855 feet FWL (Unit D) in Section 27, and a bottom hole location 20 feet FSL and 998 feet FWL (Unit M) in Section 34. OXY seeks authority to utilize this producing well to occasionally inject produced gas into the Bone Spring formation at total vertical depths between approximately 9,339 feet and 9,517 feet along the horizontal portion of each wellbore at surface injection pressures of no more than 1,200 psi. The source of the produced gas will be the Bone Spring and Wolfcamp formations. The subject acreage is located approximately 30 miles northwest of Jal, New Mexico.

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 22089

AFFIDAVIT OF PETER SENIOR

I, Peter Senior, of lawful age and being first duly sworn, declare as follows:

1. My name is Peter Senior. I work for OXY USA, Inc. ("OXY"), as a petroleum geologist.

2. I have not previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology. My relevant work experience and educational background are summarized the attached **Exhibit C-1**.

3. I am familiar with the application filed by OXY in this case for approval of a closed loop gas capture injection pilot project in the Bone Spring formation, and I have conducted a geologic study of the lands in the subject area that is in included in *Exhibit A* to OXY's application. My analysis and conclusions are summarized at pages 79-86 of the Exhibit.

4. A general characterization of the geology of the Bone Spring formation and its suitability for the proposed injection, including identification of confining layers and their ability to prevent vertical movement of the injected gas is included in my analysis. *See Exhibit A* at 80-86.

5. Page 80 of *Exhibit A* depicts a type log for the project area, showing the proposed injection zone, adjacent oil and gas zones, and confining layers. The proposed injection zone is the Avalon Shale, a sub-unit of the larger Bone Spring Formation. Adjacent oil and gas zones are the

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. C Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089 underlying First Bone Spring Sand, and overlying Avalon Sand and Brushy Canyon Formation. Confining layers that will prevent migration of injected gas into adjacent oil and gas zones are the underlying First Bone Spring Lime and overlying Bone Spring Formation.

6. Page 81 is a cross-section map depicting the location of three representative wells used to construct a cross-section across the pilot project area on the following page. The cross section on Page 82 indicates that the Avalon Shale dips to the east and maintains a consistent thickness across the project area. There is no evidence of faults, pinch-outs, or other potential pathways for out-of-zone migration indicated by the cross-sections.

7. Page 83 is a structure map on the top of the Avalon Shale that shows the structure gently dipping to the east. There is no evidence of faults, pinch-outs, or other potential pathways for out-of-zone migration indicated by the structure map.

8. Page 84 is a thickness map and reflects that the Avalon Shale maintains a consistent thickness across the pilot project area of between about 500-600 feet. There is no evidence of faults, pinch-outs, or other potential pathways for out-of-zone migration indicated by the thickness map.

9. In this proposed CLGC Project, the Taco Cat 27-34 Fed Com 11H will inject into the Avalon Shale at an average total vertical depth of approximately 9,500 feet across the length of the well's horizontal wellbore, which has a lateral length of approximately 10,000 feet. The proposed injection interval is an unconventional reservoir composed of very fine-grained quartzrich and brittle siltstone. *See Exhibit A* at 85. Low-permeability barriers to fluid flow exist within the Bone Spring Formation above and below the Avalon Shale. Below the Avalon Shale is the First Bone Spring Lime, a low permeability, approximately 100-foot thick carbonate-rich interval which provides isolation from the underlying productive First Bone Spring Sand. Above the

Avalon Shale, the Bone Spring Formation consists of fine-grained siltstones, carbonate mudstone and dolomudstone that have very low permeabilities and an average thickness of 250 feet and provide isolation from the overlying productive Avalon Sand and Brushy Canyon Formation. Above the Brushy Canyon Formation are impermeable anhydrite, gypsum, and salt layers of the Castile, Salado, and Rustler Formations. Due to the thickness of multiple impermeable rock layers above the injection reservoir there is little possibility for migration upward into freshwater aquifers where they exist.

10. Laterally, the injection will be contained in the reservoir volume that has been previously and partially depleted by the CLGC wells. The low-permeability reservoir will be the primary constraint on movement of the injection gas and is expected to contain the injected gas within the pilot project area. *See Exhibit A* at 85.

11. My analysis concludes that the Bone Spring formation in this area is suitable for the proposed CLGC Project and that there are geologic barriers that will contain the proposed injection within the Bone Spring formation. *See Exhibit A* at 80-86.

12. I have examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water. *See Exhibit A* at 86.

13. In my opinion, the granting of OXY's application in this case is in the best interest of conservation, the prevention of waste, and protection of correlative rights.

FURTHER AFFIANT SAYETH NOT.

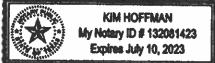
nios

Peter Senior

STATE OF TEXAS) COUNTY OF HARRIS

SUBSCRIBED and SWORN to before me this <u>27th</u> day of <u>JULY</u>, 2021 by

PETER SENIOR.



NOTARY PUB C KIM HOFFMAN

My Commission Expires:

JULY 10, 2023

Page 140 of 149

Education:

- Kansas State University
 - > B.S. Geology -2009
- University of Kansas
 - > M.S. Geology- 2012

Experience:

- Oxy, Inc- 2012-Present
 - > Production & Development Geologist in
 - Texas (2012-2020)
 - > Production & Development Geologist in
 - New Mexico (2020-Present)

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. C1 Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

APPLICATION OF OXY USA INC. FOR A CLOSED LOOP GAS CAPTURE INJECTION PILOT PROJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 22089

AFFIDAVIT OF XUEYING XIE

I, Xueying Xie, of lawful age and being first duly sworn, declares as follows:

1. My name is Xueying Xie and I am employed by Oxy USA Inc. ("OXY") as a reservoir engineer.

2. I have not previously testified before the New Mexico Oil Conservation Division as an expert witness. My relevant work experience and educational background are summarized in the curriculum vitae, attached as **Exhibit D-1**.

3. I am familiar with the application filed by OXY in this case and the Division guidance regarding closed loop gas capture injection (CLGC) projects such as this one. I have conducted an engineering study of the reservoir to evaluate the potential effects of the proposed temporary injection on the reservoir and future production. The conclusions I have drawn from my analysis are summarized in pages 86 to 98 in *Exhibit A* attached to OXY's application.

4. I have examined the available geologic and engineering data and found no evidence of open faults or other hydrologic connections between the injection zone and any underground source of drinking water. *See Exhibit A* at 86.

5. The CLGC project will inject produced gas into a horizontal well with 10,000 ft lateral and into the productive zone of the Bone Spring Avalon formation. We applied simulation modeling techniques to investigate gas movement in the injection zone and any potential impacts

> BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. D Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089

on production performance of the CLGC well and direct offset wells (if drilled in the future, currently no direct offset wells). The model utilized data from our Cedar Canyon Section 16 Gas EOR Project ("CC 16 EOR Project") for verification. The CC 16 EOR Project began in 2017. It is located 21 miles away from the Taco Cat CLGC project area as shown on the maps on page 89. The bottom left box of page 90 shows the reservoir properties and conditions of the Bone Spring formation at the CC 16 EOR Project. In general, the Cedar Canyon and Taco Cat areas have very similar reservoir properties, except the Avalon Shale in Taco Cat has a permeability less than 0.001mD. The section, location, and well layout for the CC 16 EOR Project are shown on page 89. In this EOR project, Cedar Canyon 16-7H injected produced gas for five months in 2017 at a rate of 7 mmscf/d. After the five months of EOR gas injection, the final surface tubing head pressure was 4100 psi and bottom hole pressure was about 5000 psi. The simulation model incorporated both the primary production history of wells in the CC 16 EOR Project area and the EOR gas injection history with gas communication occurring between the EOR injection well and offset producing wells. During the first three months of EOR gas injection, there was no observed gas communication. However, after three months of EOR gas injection, there was gas communication in offset producers and the model was able to predict it. This gives us confidence in the ability of the model to predict impacts on offset wells resulting from CLGC operations.

6. The reservoir model is a full section model with five wells. The top right of page 90 shows the 3D model grid. It has 56 layers and over a million cells. The four plots in the bottom right show history match results of all five wells in the CC 16 EOR project area. The dots represent historical field data and the curves are modeling results. The first three plots show the primary production match from 2013 to 2017 for all five wells in the section. The green plot shows oil rate match, the blue plot shows water rate match, and the red plot shows gas rate

match. The bottom right plot shows gas injection bottom hole pressure match of EOR gas injection in 2017. The model shows a good match for all rates and pressure.

7. With the high EOR gas injection rates and injection pressures in the CC 16 EOR Project, the reservoir simulation model was created to capture the gas communication between injection wells and the offset producers. This modeling improved our understanding of the complexity of connected fractures based on actual field response. The model was used to simulate the effects of CLGC operations in the Taco Cat and other areas, since the reservoirs have similar properties. We believe the model should be able to predict communication caused by CLGC operations because it was "tuned" based on actual gas communication between wells. First, we created a base case for normal production without any gas injection. Then we ran numerous gas injection cases to simulate CLGC operations and compared those with the base case to determine the impact on well production rate and recovery in both CLGC well and offset wells. To further validate our injection rate assumptions, we integrated the reservoir model with a Prosper wellbore model to predict the injection rate at a wellhead injection pressure of 1200 psi. The results are shown on the plot of page 92. For a 10,000 ft lateral length well (representative of our proposed Taco Cat CLGC well), 3 mmscf/day is the predicted max injection rate. It declines to about 50% of the initial value after three weeks. Despite the injection rate decline over time, Oxy ran all cases in the model with flat injection rates to simulate worstcase scenarios. The results of these model runs are shown on page 95 and discussed more fully below.

8. Reservoir modeling indicates the horizontal movement of injected gas is anticipated to be approximately 100 feet or less from the CLGC wellbore within the Bone Spring formation. *See Exhibit A* at 93. This is illustrated by comparing gas

saturation pre-injection and post-injection. The top left plot on page 93 shows preinjection gas saturation. The wellbores are depicted as east-west lines, and the numerous hydraulic fractures created in each wellbore are shown as NE-SW angled lines. The blue color shows no gas while the cyan color shows gas exists in the fractures. A warmer color indicates a higher gas saturation. The middle plot shows gas saturation after one week of injection. The gas injected into the middle well and the fractures near wellbore show a warmer color. The bottom plots have a magnified view of the CLGC well gas saturation for a clearer comparison. We can clearly see that the fractures near wellbore in the injection case have a warmer color than those of the preinjection case. Additionally, further away from the CLGC wellbore, there is no gas saturation change in the factures even though there are connected fractures between wells. This is because the injected gas volume during CLGC operations is too small to move very far away from the CLGC wellbore. And even when we have fracture communication between wells, there is not very high conductivity for immediate gas communication as was observed in our CC 16 EOR project which had a much higher injection rate and pressure. The gas storage injection in Taco Cat will inject at a much lower rate (<3 mmscf/d) for a shorter period of time with much lower tubing head pressure (1200psi) compared with CC 16 EOR Project in 2017, so it is not unexpected that the model shows no gas communication. Finally, after a long period of production following a gas storage event, the gas saturation in the near wellbore of CLGC well is restored to pre-injection values as shown in the plot on the upper right of page 93. This is because the majority of injected gas has been recovered.

9. The pressure map plots of page 94 tell the same story as the gas saturation map plots. With gas injection, the pressure increases only in the fractures nearest the wellbore within 100 feet of the CLGC well.

10. We modeled all possible CLGC scenarios including different well spacing (from 4-8 Wells Per Section, or "WPS"), single well injection, multi-well injection, and a worst case with a higher injection rate and a longer injection period than historical upsets. The modeling results are summarized in the table on page 95 and in each case shows no impact. Taco Cat well is currently an isolated well with a future development plan of 5 WPS, and the model scenarios even tested narrower spacing of 8 WPS which still shows no impact. For the injection parameters, all possible scenarios— including the worst-case gas storage scenario—have much lower injection volumes and injection pressures compared to CC 16 EOR Project. In conclusion, the analysis indicates that there will be no change in the oil recovery from the proposed injection well or from any of the future offsetting wells because of CLGC operations. *See id.* at 95.

11. As a cross-check of the model results, I prepared an analysis of the expected gas storage capacity in the fracture network of the CLGC well relative to the gas injection volumes for the worst-case injection scenario lasting twenty days. *See Exhibit A* at 96. My analysis confirms that whether the capacity is estimated based on the fracture volume gas equivalent, or the total gas equivalent volumes produced from the proposed injection zone, the anticipated gas injection volumes will be considerably less than the estimated volume capacity for gas storage within the project area.

12. Fracture dimensions are predicted by a fracture model software package called Gohfer, which is based on reservoir geo-mechanical properties and actual well

hydraulic fracturing procedure history matching. The fracture dimensions for an Avalon well are shown at page 97. The bottom row of the table on the right shows Stimulated Reservoir Volume (SRV) for Taco Cat CLGC well, which is around 2.4 billion cubic feet.

13. In my analysis, examining the available geologic and engineering data, I have determined that the total recoverable volume of hydrocarbons from the reservoir will not be adversely affected by the pilot project and that the gas composition of the injected gas will not damage the reservoir. *See Exhibit A* at 98.

14. **OXY Exhibit D-1** and pages 86 through 98 of **Exhibit A** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT.

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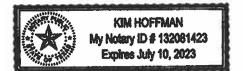
STATE OF TEXAS

COUNTY OF HARPIS

SUBSCRIBED and SWORN to before me this <u>22 nd</u> day of <u>July</u>, 2021, by

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XUEYING XIE.



NOI Kim Hoffman

My Commission Expires:

JULY 10, 2023



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Rice University, Graduate 2005

• Chemical Engineering PhD

Shell, 2005 - 2016

• Reservoir Engineer for multiple geographic areas/reservoirs and drive mechanisms for a full value chain from exploration to development to production

Oxy, 2016 - Present

Unconventional Technical Manager in New Mexico

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico Exhibit No. D1 Submitted by: OXY USA INC. Hearing Date: August 05, 2021 Case No. 22089

