AE Order Number Banner

Application Number: pMSG2334953519

PMX-337

OCCIDENTAL PERMIAN LTD [157984]



5 Greenway Plaza, Suite 110, Houston, Texas 77046-0521 P.O. Box 27570, Houston, Texas 77227-7570 Phone 713.215.7000

November 2, 2023

State of New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 1220 S. St. Frances Dr. Santa Fe, NM 87505

RE: Pressure Maintenance Project North Hobbs Unit Well No. 431; API 30-025-07537 Lea County, NM

Occidental Permian Ltd. respectfully requests administrative approval to inject produced CO2 into the above referenced injector in the North Hobbs Unit per Order No. R-6199-F. The wells are currently authorized to inject water and purchased CO2. The H2S contingency plan which covers both North and South Hobbs Units will be updated to reflect this change.

In support of this request, please find the following documentation:

- Administrative Application Checklist
- Form C-108 with required data attached
- Injection Well Data Sheet with Wellbore Schematic
- Form C-102
- AOR Map

Per R-6199-F Paragraph 3 on page 9, "(...) Application for approval of additional injection wells in the expanded Phase I Area of the North Hobbs Unit shall be filed in accordance with NMAC 19.15.26.8 and may be approved administratively by the Division Director without Notice and hearing." The injector in this application is located within the expanded Phase I Area of the North Hobbs Unit.

If you have any questions regarding this application, please contact me at 713-215-7827 or email roni_mathew@oxy.com.

Sincerely,

Roni Mathew

Roni Mathew Regulatory Advisor

Recei	ved by OCD: 12/1	5/2023 2:57:261	PM			Pag	e 3 of 23
	<i></i>						
	DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.	
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION



- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Application Acronyms:
[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]"
[A] Location - Spacing Unit - Simultaneous Dedication"
Check One Only for [B] or [C]"
[B] Commingling - Storage - Measurement" DHC CTB PLC PC OLS OLM"
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery"
[D] Other: Specify Additional Injector within approved project area (R-6199-G)Á
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[A]
[B] Offset Operators, Leaseholders or Surface Owner
[C] Application is One Which Requires Published Legal Notice
[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Roni Mathew	Roni Mathew	Regulatory Advisor	10/19/2023
Print or Type Name	Signature	Title	Date

roni_mathew@oxy.com e-mail Address Received by OCD: 12/15/2023 2:57:26 PM STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL

RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 *Page 4 of 23* FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery X Pressure Maintenance Application qualifies for administrative approval? X Yes No	DisposalStorage
II.	OPERATOR: OCCIDENTAL PERMIAN LTD	
	ADDRESS: P.O. Box 4294 Houston, TX 77210-4294	
	CONTACT PARTY: Roni Mathew	PHONE: 713-215-7827
III.	WELL DATA: Complete the data required on the reverse side of this form for each well pro Additional sheets may be attached if necessary.	pposed for injection.
IV.	Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: <u>R-6199-F</u>	
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection a drawn around each proposed injection well. This circle identifies the well's area of review.	well with a one-half mile radius circle

- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Roni M	athew	TITLE: Regulatory Advisor
SIGNATURE:	Roni Mathew	DATE: <u>10/19/2023</u>

E-MAIL ADDRESS: <u>roni_mathew@oxy.com</u>

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: <u>February 11, 2014 as part of Order No. R-6199-F application</u> Side 2

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

C-108 Application Attachment Occidental Permian Ltd. North Hobbs G/SA Unit No. 431 Lea County, New Mexico

- I. This is a pressure maintenance project. The project qualifies for administrative approval.
- II. OCCIDENTAL PERMIAN Ltd. P.O. Box 4294 Houston, TX 77210-4294 Contact Party: Roni Mathew, 713-215-7827
- III. Injection well data sheet and wellbore schematic has been attached for NORTH HOBBS G/SA UNIT No. 431
- IV. This is an expansion of an existing project authorized under Order No. R-6199-F.
- V. The map with a two mile radius surrounding the injection well and a one half mile radius for area of review is attached.
- VI. In accordance to Order No. R-6199-F Section 4 OCCIDENTAL PERMIAN Ltd certifies that: The area of review for well "NORTH HOBBS G/SA UNIT #431" shows no substantive changes in the information furnished in support of Order No. R-6199-F concerning the status of construction of any well that penetrates the injection interval within the one-half (1/2) mile around the injection well, with the exemption of the wells listed below:

ΑΡΙ	Well Name	Operator	Status after Jan 2014
30-025-12504	NORTH HOBBS G/SA UNIT #532	OCCIDENTAL PERMIAN LTD	Plugged
30-025-23116	STATE A #005	Contango Resources, LLC	Plugged
30-025-44720	NORTH HOBBS G/SA UNIT #697	OCCIDENTAL PERMIAN LTD	Active
30-025-44721	NORTH HOBBS G/SA UNIT #696	OCCIDENTAL PERMIAN LTD	Active
30-025-41578	NORTH HOBBS G/SA UNIT #948	OCCIDENTAL PERMIAN LTD	Active
30-025-41643	NORTH HOBBS G/SA UNIT #949	OCCIDENTAL PERMIAN LTD	Active
30-025-49478	NORTH HOBBS G/SA UNIT #967	OCCIDENTAL PERMIAN LTD	Active
30-025-43282	NORTH HOBBS G/SA UNIT #693	OCCIDENTAL PERMIAN LTD	Active

The wellbore diagrams, their tabulated data, and the area of review map are attached.

VII. Proposed Operation

1.	Average Injection Rate	3,000 BWPD / 10,000 MCFGPD
	Maximum Injection Rate	8,000 BWPD / 20,000 MCFGPD

- 2 This will be a closed system.
- 3. Average Surface Injection Pressure 1,300 PSIG Maximum Surface Injection Pressure

infulli Surface injection Pressure	
Produced Water	1,150 PSIG
CO2	1,250 PSIG
CO2 w/produced gas	1,650 PSIG

(In accordance with Order No. R-6199-F, effective 7/18/13)

- Source Water San Andres Produced Water
 (Analysis previously provided at hearing, Case No. 14981)
- VIII. The information was previously submitted as part of Order No. R-6199-F application

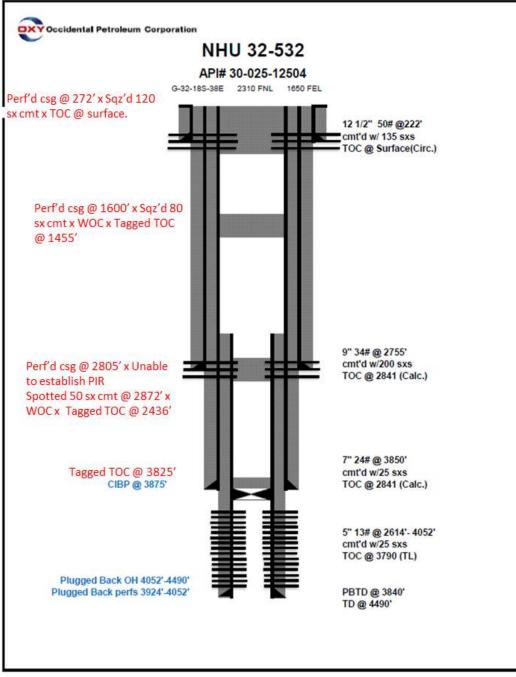
- IX. Acid stimulate well with ~4,000 gal 15% HCL. Max rate = 4-5 BPM. Flush acid with ~200 bbls off fresh water.
- X. Logs were filed at the time of drilling.
- XI.Per our field personnel, there is only 1 water well located within 1 mile of the subject well.Water analysis from DUNLIN-1 and a location map are included with the application.

WATER WELL NAME	LAT	LONG	Date Collected
DUNLIN-1	32°41'33.50"N	103°10'24.76"W	8/30/2019

- XII. N/A. This is a pressure maintenance project, not a disposal well.
- XIII. Order No. R-6199-F allows the administrative approval, from the Division Director, of additional injection wells without notice and hearing. Notices to producers and surface owners for the water/CO2 flood area were provided at the time of the application and hearing for Order No. R-6199-F.

API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD	COMPLETION	REMARKS
ATTROMEER	OFERATOR	NAME	NO.	TYPE	UNATOO	N/S	14/0	E/W		UNIT	ULU.	Tonii .	100.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	mild.	COMPLETION	NEMAKIKO
																12.250	10.250	222	135	Surf	Circ	4052'-4490'	Well Plugged on 05/26/2022
30-025-12504	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	532	01	Plugged, Not Released	2310	N	1650	F	6	32	185	38E	11021	4490	9.000	8.625	2755	200	2841	Calc	HOBBS; GRAYBURG-SAN ANDRES	
50-025-12504	OCCIDENTAL LENGINARY ETD	NORTH HOBBS G/SK ONT	552		These a, Not heleased	2310		1050	L .	0	52	105	502	11021	4450	7.000	5.500	3850	25	2841	Calc		
																	5.000	4052	25	3790	TL		

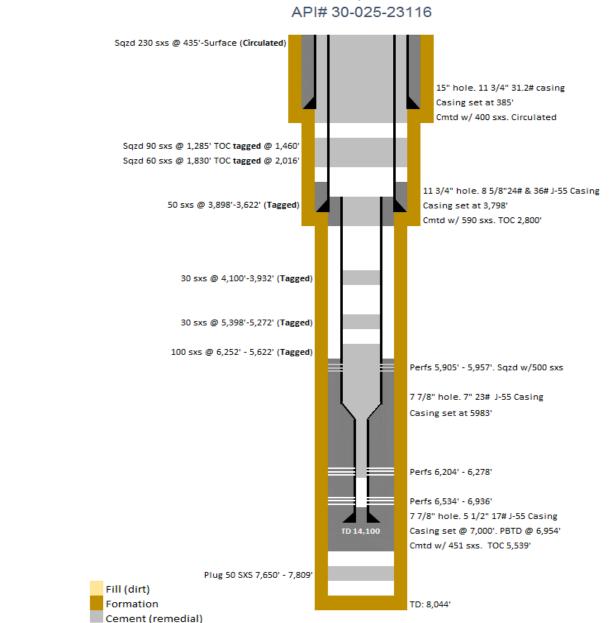
Page 8 of 23



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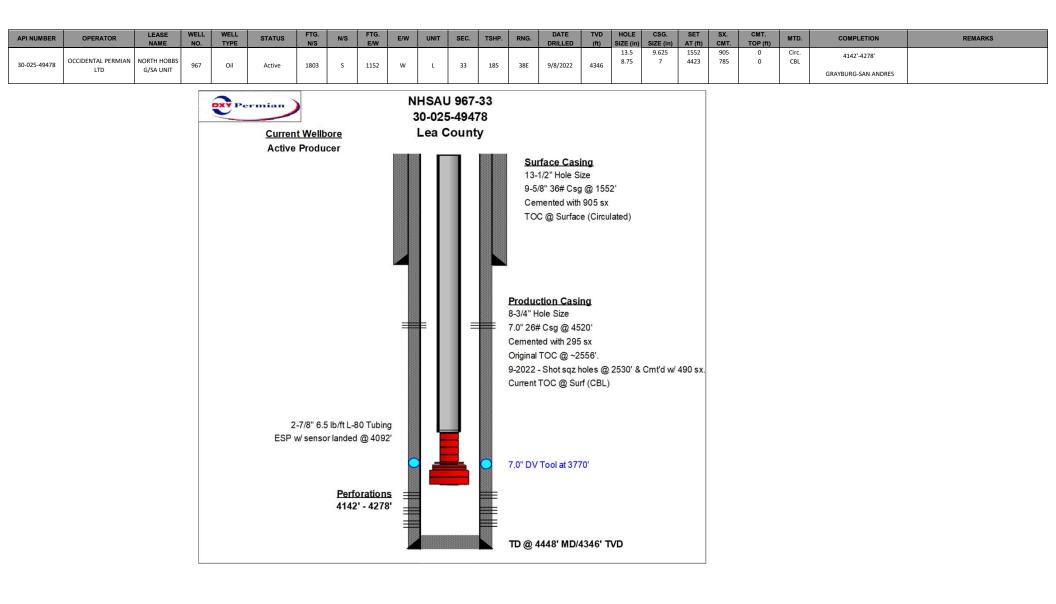
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-23116	Contango Resources, Inc.	STATE A	005	Oil	Plugged, Site Released	660	N	660	E	A	32	185	38E	4/24/1969	8044	11.750 8.625 7 & 5.5	11.750 8.625 7.000	385 3798 1000	400 590 501	Surf 2800' 5539'	Circ Calc Calc	6674'-6936' LOWER BLINEBRY 5905'-5957' DRINKARD	Well Plugged on 05/08/2018 and site released on 1/26/2021.

STATE A No. 5



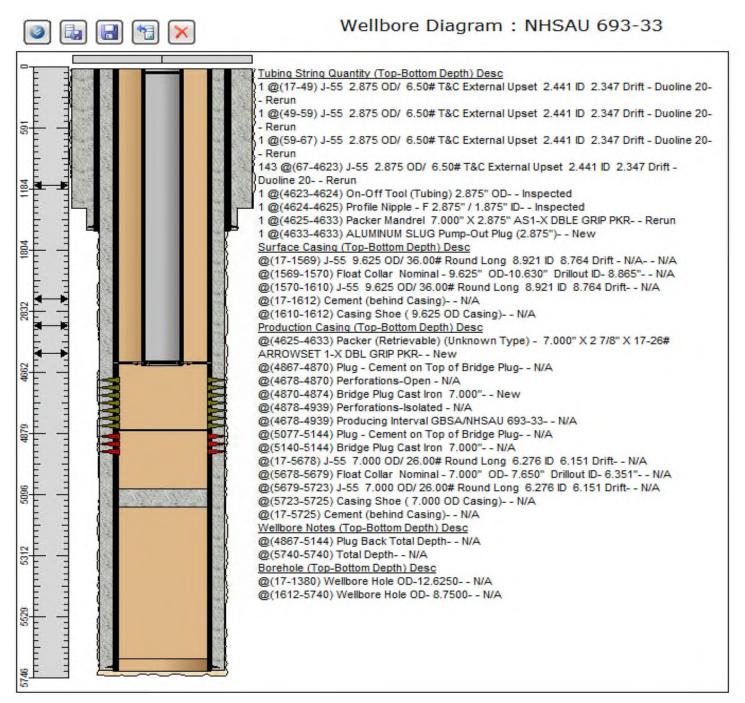
669' FNL 660' FEL, SEC 32, T-18S, R-38E LEA COUNTY, NEW MEXICO

Page 9 of 23



	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-43282	OCCIDENTAL PERMIAN LTD	NORTH HOBBS	693	Injection	Active	1880	s	1298	×	L	33	18S	38E	6/18/2016	5106	12.625 8.750	9.625 7.000	1569 5724	630 1350	Surf 0	Calc Calc	4678'-4939' GRAYBURG-SAN ANDRES	

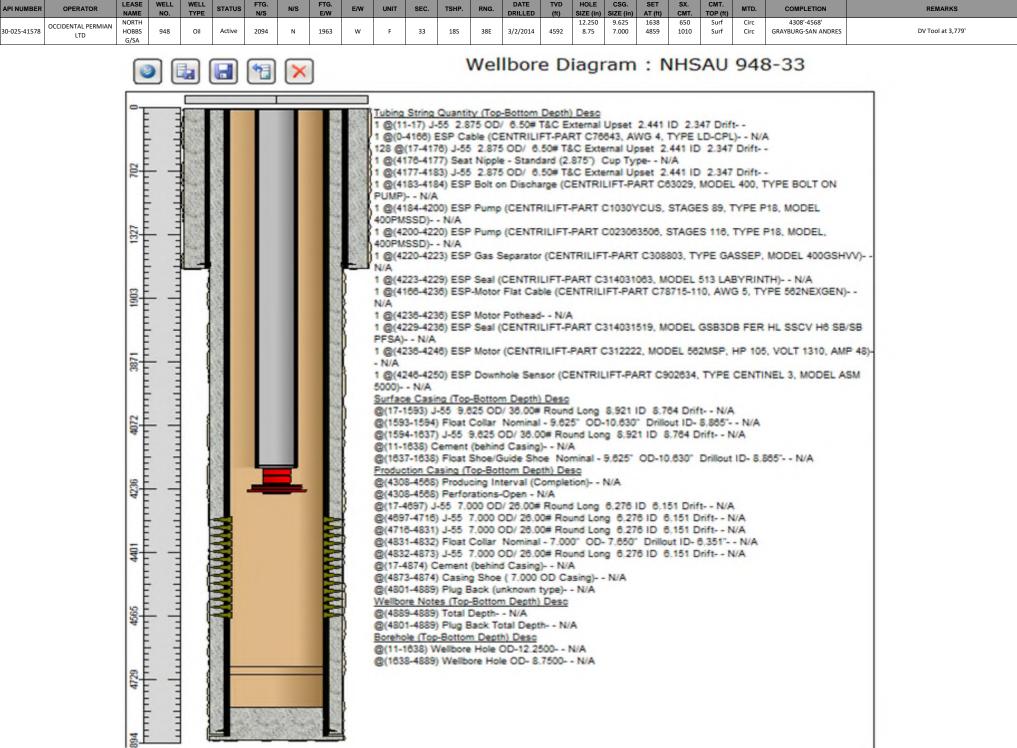
Page 11 of 23



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AP	NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-(25-44721	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	696	Oil	Active	1298	s	1702	w	N	33	185	38E	1/8/2019	4449	13.500 8.750	9.625 7.000	1593 4911	865 1155	Surf 0	Circ Calc	4421'-4723' GRAYBURG-SAN ANDRES	DV tool at 3,987'

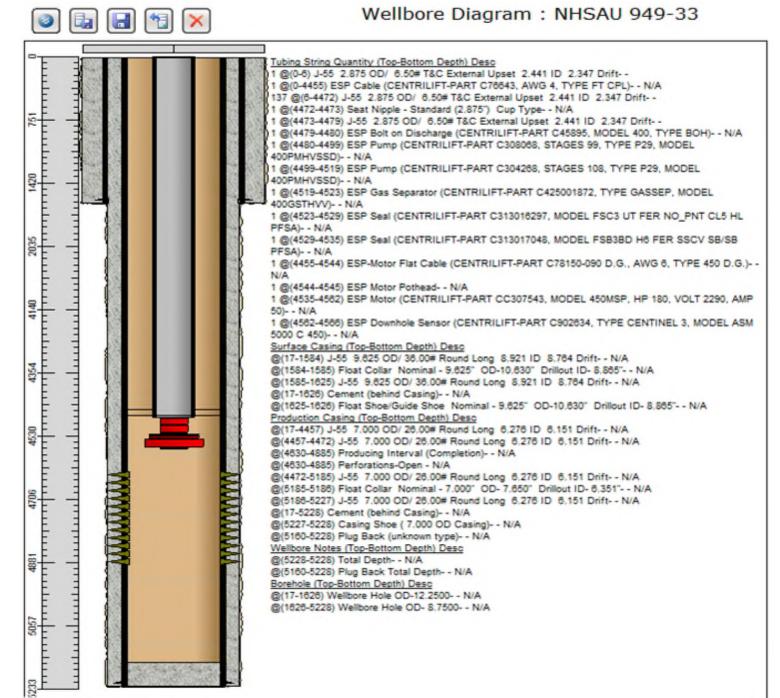
o 🖬 🔚 😭 🗙	Wellbore Diagram	: NHSAU 696-33
	ID 2.347 Drift New 1.@(15-4700) ESP Cable (REDA) -102737344 201807004/201808055 4 AWG 5 KV Flat Galvanized New 146 @(21-4737) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift New	©(4453-4461) Perforations - Open-Open - N/A @(4484-4488) Perforations - Open-Open - N/A @(4495-4503) Perforations - Open-Open - N/A @(4519-4513) Perforations - Open-Open - N/A @(4529-4535) Perforations - Open-Open - N/A @(4529-4536) Perforations - Open-Open - N/A @(4552-4556) Perforations - Open-Open - N/A @(4568-4576) Perforations - Open-Open - N/A
	1 @(4738-4744) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drfft - New 1 @(4744-4745) ESP Boto on Discharge (Non-Serialized/Reda)- BOH New 1 @(4745-4766) ESP Pump (Non-Serialized/Reda)-2FAJ&J4897504 103078844 CR-ES	@(4582-4598) Perforations - Open-Open - N/A @(4604-4610) Perforations - Open-Open - N/A @(4616-4620) Perforations - Open-Open - N/A @(4626-4632) Perforations - Open-Open - N/A @(4668-4653) Perforations - Open-Open - N/A @(4668-4672) Perforations - Open-Open - N/A
	D3550 CR-CT CS Monel coating New 1 @(4766-4788) ESP Pump (Non-Serialized/Reda)-2FAJ8J4897503 103078844 CR-ES D3550 CR-CT CS Monel coating New 1 @(4788-4789) ESP Gas Separator (Non-Serialized/Reda)-REAJ6E4806188 102773887 Bolt On intake CS Monel coating New 1 @(4789-4797) ESP Seal	@(4677-4683) Perforations - Open-Open - N/A @(4688-4705) Perforations - Open-Open - N/A @(4710-4714) Perforations - Open-Open - N/A @(4421-4723) Perforations - Open-Open - N/A @(4719-4723) Perforations - Open-Open - N/A @(3888-4870) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A - N/A @(4870-4871) Float Collar Nominal - 7.000" OD- 7.650"
	(Non-Serialized/Reda)-3TAJ8K4673488 102689396 LSLSL CS Monel coating New 1 @(4700-4805) ESP-Motor Flat Cable (REDA) - 100496111 496 456 Series MAXLOK 4 AWG 5 KV New 1 @(4797-4805) ESP Seal (Non-Serialized/Reda)-3CAJ8K4865830 102973834 LSBPB CS Monel coating New	Drillout ID- 6.351" - N/A N/A @(4871-4910) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A - N/A @(18-4911) Cement (behind Casing) - N/A N/A @(4869-4911) Plug Back (unknown type) N/A
	1 @(4805-4805) ESP Motor Pothead New 1 @(4805-4834) ESP Motor (Non-Serialized/Reda)-1CAJ8L4669886 101901140 240HP 2676V 58.7A CS Monel coating New 1 @(4834-4836) ESP Downhole Sensor (Non-Serialized/Reda)-S103X18KN06516 100655610 Phoenix	@(4911-4911) Total Deptn N/A @(4869-4911) Plug Back Total Deptn N/A Borehole (Top-Bottom Deptn) Desc @(18-1614) Weilbore Hole OD-13.5000 - N/A N/A @(1614-4911) Weilbore Hole OD-8.5000 - N/A N/A
	XT-150 Type 0 Stainless S New 1 @(4788-4842) ESP Motor Shroud - 5.50' CS Monel Coated New <u>Surface Casing (Top-Bottom Depth) Desc</u> @(18-38) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A - N/A	
	(@(38-55) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A - N/A @(55-1570) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A - N/A @(1570-1571) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A - N/A @(1571-1613) J-55 9.625 OD/ 36.00# Round Long 8.921 ID	
	(18/1-1613) 3-35 9/65 OD/ 36:00 Prouid Long & 3211D 8.764 Drift - N/A - N/A (2(18-1614) Cement (benind Casing) - N/A - N/A (2(1613-1614) Float Collar Nominal - 9.625" OD-10.630" Drillout ID - 8.855" - N/A - N/A Production Casing (Top-Bottom Depth) Desc (2(18-34) L-80 7.000 OD/ 26:00# Round Long 6.276 ID 6.151	
	 Drift - N/A N/A @(34-1342) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A N/A @(1342-3985) NA N/A @(3965-3968) DV Tool (Diverter Tool) N/A 	
2/15/2023 2.59-00 PM	(4421-4429) Perforations - Open-Open - N/A (4435-4443) Perforations - Open-Open - N/A	

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API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-41643	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	949	Oil	Active	2243	N	2046	w	F	33	185	38E	3/16/2014	4548.6	12.250 8.750	9.625 7.000	1626 5228	650 940	Surf Surf	Circ Circ	4630'-4885' GRAYBURG-SAN ANDRES	DV tool at 4,020'

Page 15 of 23



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Side 1

Page 16 of 23

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INJECTION	WELL DATA	SHEET
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OPERATOR: OCCIDENTAL PERMIAN LTD

WELL NAME & NUMBER: North Hobbs G/SA Unit #431

WELL LOCATION: 2316 FSL, 334 FEL	Ι	32	18S	38E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		<u>WELL Co</u> Surface	<u>ONSTRUCTION DAT</u> Casing	<u>'A</u>
See attached				
	Hole Size: <u>17"</u>		Casing Size: 12.5"	
	Cemented with: 225	SX.	or	ft ³
	Top of Cement: Surf.	ace	Method Determined	l: Circ.
		<u>Intermedia</u>	te Casing	
	Hole Size: <u>11.75</u> "		Casing Size: 9.625	1
	Cemented with: 475	SX.	or	ft ³
	Top of Cement: 1667	71	Method Determined	l: Calc.
		Production	n Casing	
Liner1 Hole Size = 6.125	Hole Size: 8.75"		Casing Size: 7"	
Liner1 Casing Size = 5" Liner1 Cmt = 65 sx Liner1 TOC = 2580'	Cemented with: <u>350</u>	SX.	or	ft ³
Liner1 TOC = 2380 Liner1 TOC Method = CE Liner1 Top = 0'	BL Top of Cement: 2585	5'	Method Determined	_{l:} Calc.
Liner1 Btm = 4244'	Total Depth: 3968'			
		Injection	Interval	
	4086'	fee	t to 4190' (F	Perforated)

(Perforated or Open Hole; indicate which)

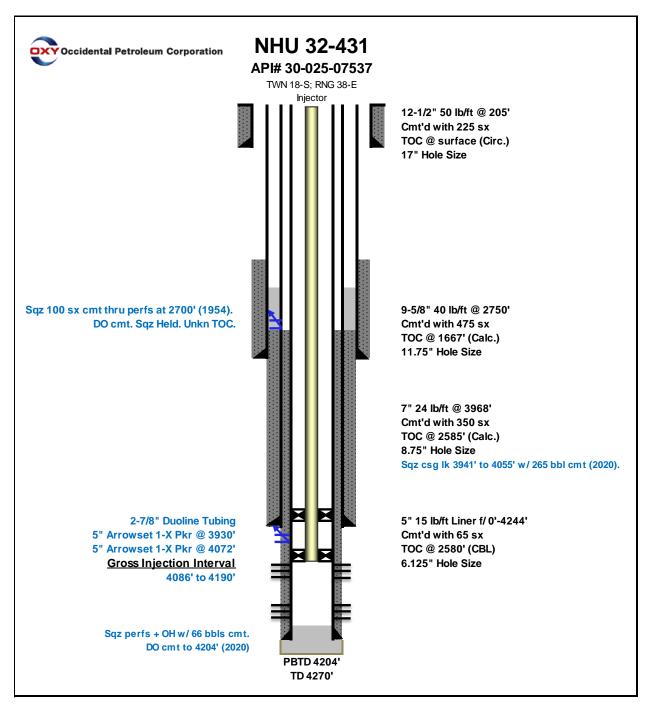
Side 2

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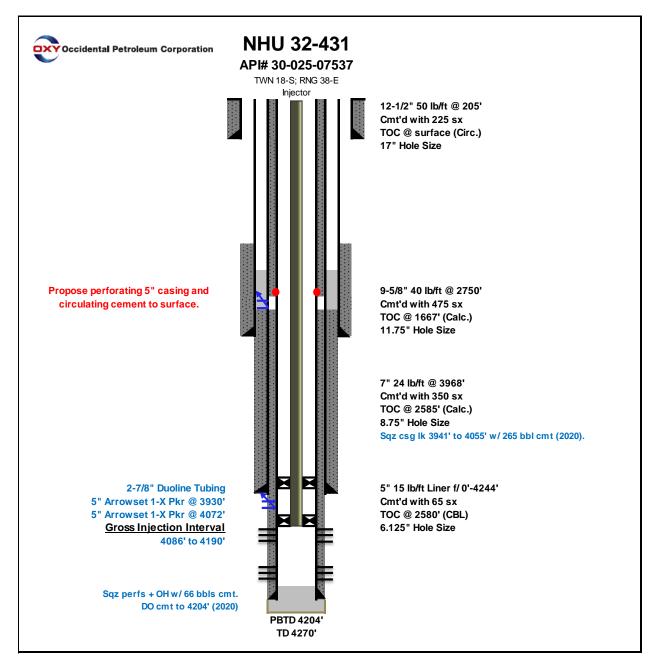
INJECTION WELL DATA SHEET

Tubing Size: <u>2.875</u> "	Lining Material: Duoline (fiberglass)
Type of Packer: <u>5" Arrowset 1-X (dual tandem)</u>	
Packer Setting Depth: 3930' & 4072'	
Other Type of Tubing/Casing Seal (if applicab	le): NA
Ad	ditional Data
1. Is this a new well drilled for injection?	Yes <u>X</u> No
If no, for what purpose was the well origin	nally drilled? Producer
2. Name of the Injection Formation: Graybu	rg/San Andres
3. Name of Field or Pool (if applicable): <u>Ho</u>	bbs; Grayburg - San Andres
4. Has the well ever been perforated in any or intervals and give plugging detail, i.e. sach	
injection zone in this area:	s zones underlying or overlying the proposed
Byers (Queen) @ 270' TVDSS	
Glorieta @ -1670' TVDSS	

Current WBD



Proposed WBD



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

□ AMENDED REPORT

			WEL	L LOCA	TION AND	ACI	REAGE D	EDICATIC	NPLAT					
	API	Number		I	Pool Code	Pool Name HOBBS; GRAYBURG-SAN ANDRES								
30-025-	-0753	37		31920										
Proper	rty Code					Property	v Name		Well Number					
19250					NORTH H	OBBS	S G/SA			431				
	ID No.					Operato.	r Name					Elevation		
157984	4				OCCIDENT	3637.6'								
	Surface Location													
UL or lot no.	Section	Township		Rang	ze.	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County		
Ι	I 32 18 SOUTH			38 EAST,	N. M. P. M.		2316'	SOUTH	334'	EAS	ST	LEA		
Bottom Hole Location If Different From Surface														
UL or lot no.	Section	Township		Rang	<i>ge</i>	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County		
									-					
Dedicated	Acres	Joint or Infil	Con	solidation Code	e Order No.									
40														

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

			OPERATOR CERTIFICATION
			I hereby certify that the information contained herein is true and
			complete to the best of my knowledge and belief, and that this
			organization either owns a working interest or unleased mineral
			interest in the land including the proposed bottom hole location or
	1	1	has a right to drill this well at this location pursuant to a contract
			with an owner of such a mineral or working interest, or to a
			voluntary pooling agreement or a compulsory pooling order
			heretofore entered by the division. Roni Mathew 10/19/2023 Signature Date
			Roni Mathew
			Printed Name
		1	roni_mathew@oxy.com
<u> </u>	+		L-mail Address
	SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=621396.58 US FT LAT:: N 32.7028519' LONG: W 103.1625997' NAD 1983 Y=621456.44 US FT LAT:: N 32.7029652' LONG:: W 103.1630844'	334'	SURVEYOR CERTIFICATION I hereby corrigo that the welt location shown on this plat wasplotted room field notes of actual surveys made by moorputer my supervision, and that the same is that and corfect to the best of my belief. 15079 JULY 29, 2022 Date of Survey Signature and Sea of Professional Surveyor, SIONAL
			Semy Asul 0/2/2022 Certificate Mugder 15079
		¥	WO# 220729WL—a (KA)

Released to Imaging: 12/15/2023 2:59:00 PM

Renton (10) 205/2023 2:57:20		L 2 30 ² 025 ¹ 2917 30-025-07361 (F) 925-05487	30-025-07362	0-025-07367 36330-025-12490 NESE	(E)	SENW (F) 30-025-07382 NESW	(G) SENE (H)	SWNW (E)	SENW (F)	SWNE SENE (G) w Coal Ave(H) WE Ton Ave NESE	SWANW VE Bal Ave NWSW		(G) C SENE (H) HO C (H) HO C (H) HO
	(1)	30-025-37410 (K)	(30-025-2919	2260130-025-3744	30-025-232	06 30-025-27214 30-025-07384 20	NWSE 30/025-0731 30-025-0737230-025-0737630-025 90-025-07381	87 -0738630-025-0739	30-025-07394	90696 ₃₀₋₀₂₅₋₀₇₃₉₂ (1)	(L) W.Gold Ave	(K)	E Albertson Dr
G/SA Unit 431	.0	30-025-4422830-025-44227	W Jones Lr		-025-28961	•					Silver Dr	Gold Ave	Æ Sunset Dr
AOR	SESE (P) •30-	L 4 SES 30-025 30-025-07365 (N 30-025	5-23481 (O) 6-23481 (O) 6-30-025-124 80-025-07364	W TRESTORD	SWSWW Tre (M) 0736630-025-0738	vino Rd <mark>SESW</mark> 3 (N) 30-025-1	SWSE SESE 249330-025-07371 30-025-073 30-025- W Partice Plut	swsw 73 30-025-0739 07385	SESW (N30-025 30-025-07391	22690 SWSE SESE 30-025-07396 30-025-07397 25-22602 30-025-07397	SWSW (M)	SESW (N)	SWSE SESE (O) E St Anne Pi(P)
Oil and Gas Wells	•30-	30-025-07077 025-05503 30-025-29063	30-025-232	70 30-025-291975	0-025-07470 	30-025-3745 2 0 30-0	25-07433 174 NWNE NENE 30-025-2362130-025-074330-025 173 00-025-074330-025 174 00-025-074330-025 175 00-025-074330-025 174 00-025-074330-025 174 00-025-074330-025 174 00-025-074330-025 174 00-025-074330-025 175 00-025-074330-025 175 00-025-074330-025 175 00-025-074 175 00-00			NWNE NENE	NWNW		
Wells - Large Scale	(A)	L 1 30-025-37102) 30-0	25 35332 ^B)	(A)	5-23384 830-025- 30-025-2391	30-025-374 9 30-025-23622	30-025-2362130-025-0743230-025	-07455 30-025-074	22 (C) 3	0-025-07425 (A)	(D) 2 2	(C)	(B) (A)
 Miscellaneous 		30-025-29064 30-025-26833	2 30-0 30-025-28412	30-025-27059	30-025	-21964 30-025-26	⁶⁹³⁴ 30-025-28883	454 ,0		30-025-07417 30-025-07419 329 30-025-07419 30-025-07419 30-025-07419 30-025-07416 30-025-07418 30-025-07418 30-025-07418 30-025-07412 30-025-07418 30-025-07412 30-025-07418 9276 W Berry Dr 30-025-07412 30-025-07418 9276 W Berry Dr 30-025-07414 90-025-07414 9276 W Berry Dr 30-025-07414 90-025-07414 9276 W Berry Dr 30-025-07414 90-025-07414 920-025-0744 90-025-07414 920-025-0744 90-025-07414 920-025-0744 90-025-07414 90-025-0744 90-025-07414 90-025-0744 90-025-07418 90-025-0744 90-025-07418 90-025-0744 90-025-07418 90-025-0744 90-025-07418 90-025-0744 90-025-07418 90-025-0744 90-025-0758 90-025-0744 90-025-07414 90-025-0758 <t< td=""><td>30-025-24490 30-025-23375</td><td></td><td>er qr</td></t<>	30-025-24490 30-025-23375		er qr
🔆 CO2, Active	185 3	30-026-3629	30-025-28555	a in	30-025-28953	025-37213 30-	025-37128 30-025-37475 30-025-074	30-025-28964	30-025-074	129	lumet	Z Z	Kinley Habo
🔆 CO2, Cancelled	SENE (H) 30	L 2 (F) 025-05504 (F)	07465 SWNE 3	0-025-07488 _{JE} 30 (H) 167 30-025-074	-025-2317,600 30-025-21963	0-025-37558	30-025-2362030-025-07434 SENE	SWA30-025- (F) 30-025-0742	07426 SEN30-025- 0 30-025-0742	07428 SWNE SENE 730-025-07416 her 1. (H)	27243 SWNW (130-025-30910	SENW (F)	SWNE LAbo (SENE (G)z (H)
🔆 CO2, New	2	*30-025-07464 30-025-221 20-025-289	7230-025-22367	30-025-07461*	30-025-36897 30-025-35754	30-025-36315 ₃₀₋₀	all	•	• 3643 Ji	30-025-31655	30-025-12494	Di Di Vier Si	
🔆 CO2, Plugged	25 30	-025-05492 30-025-2595 30-025-22995	30-025-07472	30-025-074	74 30- 20 025	025-07447 30-025-	3725030-025-3554130-025-35376	30-025-124 -025-07458	97 30-025-28882	W Princess Jeanne Dr		W Alto DZ	E Mesa Dr
🔆 CO2, Temporarily Abandoned	NESE	30-025-07486 80-025-37120 SW 30-0	25-36216 5-30-0	25-36281 NESE 30-02	5-28580 30-025- 025-07450/SW 30-	025-23131W	NWSE 30-025-23049,ESE 30-02	25-23400WSV30-025	23277 30-025	07423 NW 30-025-07415 NESE	NWSWo or	NESW ¹⁶⁵⁰	NWSE NESE
🕸 Gas, Active	30-02 €657 ft	30-025-26935	30-025-289	55 30-025	30-025-34	1871	30-025-37293 30-025-074	56 30-0	25-07421	08 30-025-07412 30-025-0741	3 30-025-07410 30-025-3534930	125-12495	
🌣 Gas, Cancelled	30	025-05499 30-025-07487	30-025-35755		01	30-025-34	1870 30-025-28884 30-025-35673 30-025-28884 30-025-3464	30-023-26665	030-025-2	29276 2 2		iet St	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
🌣 Gas, New	SESE	30-025-0748430-025-3	6247 30-025-362	86 30-025-26485 ₃₀	-025-36837 36242 SWSW 30-02	25-2302230-025-229	30-025-35384 30-025-074 Seve	42 30-025	23246 30-025-23	304 SW 30-025-07414 SESE	swsw	SESW 30-	025-07407 Green Acres 6
🔅 Gas, Plugged	(P3)	025-05493 30-025-28886 30-025-07482	30-025-21965	30-025-28959	30-025-074	4830-025-0744130- 67430-025-28413	025-07437) (P) 30-025-07445 30-025-35672	0744430-025-1249	6 (N) 30-025	-1249830-025-12489 (P)30-02	07411 (M) 30 30-025-07408	-025-07409	(O) E Yucca Dr
🌣 Gas, Temporarily Abandoned	30	025-05539	-W Sanger S		25-07473	9 ⁴	30-025-35670 30-025-29017	30-025-35671	30-025-29026	0.025.07564 30-025-29931	Texa	w Sanger St	
Injection, Active	-36	NE 30-025-07511/v 30-025-07512 (C)	025-07503 30-025-074	30-025-07494 191 30-025-4974330	-025-4974930-025-I	NENW 07528 (30-025-30	258 N30-025-30263 NENE 30	30-025-125	05 NEN-80-025	4947 030-025-07555 NEN30-025- 23330 130-025-23438 (A30-025- 30-025-23438 (A30-025-23438)	28299 NWNW 07556 (D)30-025-2890	NENW 34	E Corbett SNENE
∫ Injection, Cancelled	NENE	NF30-025-4	(130-02)	5-07496 30-025	-23204 30-025-	22627 30-025-2 30-025-35657	2792 (B) 30-025-23116 30-0. 30-025-36149	25-35820 • 3	30-025-12752 0-025-44718_30-0	30-025-34994 30-02 25-44719 WE charbaker St. NENE	5-29677 30-025-0757	530-025-07579	(B) E Lea St 30-025-12509 NENE
S Injection, New	(4)	L1 (C)	30-025-37428	30-025-27060 (A)30	-025-07493	30-025-07525	30-025-35667 30-025-26973	30-025-29074	30-025-34643	42 ft (B) 30-025-271694)	(D)	(C) #	(B) (A)
o Injection, Plugged	4 0-	025-09926 30-025-07513 30 30-025-07514 30	0-025-07506		30-025-2300	7 30-025-27140 30-025-27140	25-07520 20.025 26150	30-025-3 30-025-	4906 37577	5-49739	W Clinton St	W Clinton St E	ent St Hous I Selim
Injection, Temporarily Abandoned	SENE (H)	L 2 0 SENW (F30-025	SW130-02	192 (30-025-2	-0749530-025-0753 888730-025-36245	(F ₃₀₋₀₂₅₋₃	566830-025-07518 (H30-025 566830-025-07518 (H30-025 30	-23130 (2) 30	26330-025-23334 025-0756030-02	30-025-34372 5-41643 (G) 30-025-28268 30-025	24928 230-025-26375	• (F)	SWNE SENE (G) (H) 30-025-12510 (H)
Oil, Active	1		- 30	-025÷30204 ●	•	30-025-28944	30-025-12504 30-025-12504	•30-025-0755	30-025-0	756230-025-07552 ³⁰⁻⁰²⁵⁻²⁸⁹⁵¹ 3	0-025-34997 30-025-289	6930-025-28970	30-025-0757
Oil, Cancelled	30-	025-22753 30-025-07509 S 37E 18S 38E	-025-07507, 3639)	30-025-37214	w.c.30-025-075	27 30 025-	07521 30-025-07538 30-025-23309 30-0	0-025-07537	30-025-07545	30-025-28410 W Cain St 30-025-35758	ew Me	W Cain St	owler
Oil, New	NESE	L3 NESW 30	025-0749930-02	5-12503 NE30-025-	9768 30-025-23045	30-025-35385	30-025-34374 NWSE (130-025	-07542 (1.)	9530-025-43282	756230-025-0755230-025-28951 3 30-025-28410 W Caim St 30-025-38758 W Caim St (J) 30-025-0755330-025-385 (J) 30-025-0755330-025-282 (J) 30-025-0755330-025-282	30-025-26583	30-025-07570	30-025-07566 NESE • NWSFor St (1)
Oil, Plugged			(J) 30-	025-49764 30-025-07500		30-025-27139	NWSE (130-025 30-025-29173 30-025-26974	30-025-34	98030-025-26834 W Bryadwa	(J 30-025-07553-0-023-202	og (=7 30-025-2	8331'	(J) 30-025-07567
		30-025-07510	+	-025-4974030-025-4 0-025-07502	3765-30-025-2894 30-0	3	753330-025-35452 ³	30-025-343 30-025-28411 0-025-3553430-025	30-025-447 -3499330-025-447	20 ³⁴		30-025-30486 30-025-35342	• • • • • • • • • • • • • • • • • • • •
Oil, Temporarily Abandoned Sale Water Integration Active	SEBE	SESW	SWSE	SE:30-025	30-025-3166 12502 SWSW	230-025-28265	30-025-0754030-025-29906	SW 30-025-	07543 E 30-025	20 21 W Durnam St 00025-24005 00025-24005 00025-26207 00025-26267 00025-26267	7561 SW 30-025-0757	SEGUITE 5-30-025	5-28971 5 SESE
Salt Water Injection, Active Salt Water Injection, Concelled	5	(N)	(0)	(P) ₃₀₋₀₂	507498 ³⁰¹⁰²⁵⁻⁰⁷⁵	23 (N) 30-025-	0752 30-025-07539 (P30-025 30-025-28266		(N)	30-025-28267	6830-025 31211 30-025-2	8333 Byers St	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Salt Water Injection, Cancelled	\neg	30-025-07649 30	025-07647	30-025-28304	0763630-025-0762	30-025-0	762430-025-07614			30-025-28307 5-28306 30-025-07629 12768 30-025-24079-05-03 25-2989230-025-31421 30-025-28335 W Humble St	30-025-28332	, ,	
Salt Water Injection, New		3645 ft 30-025-27622 30-025	29442	0-025-07640 000	5-0763530-025-289	75 30-0	25-0762730-025-07615 30-025	-07619	07605	30-025-28307 25-28306 30-025-07629 30-025 12768 30-025-07629 30-025	25-29756 W Gypsy St 30-025-2	W Gypsy St 3 353030-025-0758	30-025-28972 7 30-025-07582 30-025-07585
Salt Water Injection, Plugged	L1	L4 L30-02	5-49524 #30-025-29	30-025-28973	30-025-28974	30-025-2897	6 L-2 30-025-297521 30-025-28979	30-025-28	3305 30-025 318 30-025	-07604	025-29757	Harden	E E Roxana :
 Salt Water Injection, Temporarily Abandoned 		· · · · · · · · · · · · · · · · · · ·	0.025.07648	30-025-07639 30	.025.29519	30-025-26115	30-025-29751	30-025-26116	30-025-29753 30-025-29891	30-025-28335 W Humble St		B/VQ	<u></u>
Water, Active	SENE	1 Sec	SWNE	30-02 30-02	5-44610 30-025- 025-07641 30-025	07628 30-025-27 -07631 •30	628 0-025-29083 30-02	30-025-28 5-07613 30	334 30-02 025-3726630-02	5-31427 30-025-31419 5-07610SWNE 30-025-31419	07599 30-025-075	W Main St	SWINE E Man St St
Water, Cancelled	(H) 011	S 37E 19S 38E	(G) 29410	30-025-2945	(E) Midwe	SEN 30-025-0	7630 (G ^{-30-025-07620 SENE} (H)	(E) 30	-025-07.597	30-025-31422 (AP) 3 30-025-07600	0-025-2833730-025-261	20 30-025-28342 () 30-025-075	88 30-025-07544 (H)
Water, New	2		*30-025-44	389 • •	30-025-26118	30-025-28980	7630 (G 30-025-07620 SENE (H) 5 30-025-44612 - 30-025-29084 30-025-29084 30-025-29084	30-025-28981 •30	-025-43099	07604 #0072-24010 pm cm 3 5228982*02025-31421 W 10mbe 5 531427 00.025-31431 30-025-28335 W 10mbe 5 531427 00.025-31432 30-025-31422 30-025-31432 30-025-28339 30-025-07600 30-025-760028025-26246300	0.025-283/41 exas 3t	S Lin	
Water, Plugged	there is a	30-025-2819730	-025-07646 30	-025-0764430-025-	0764230-025-44611	30-025-44313	30-025-20933	-125-42596 30-02	25-42595	30-025-28340 30-025-0760230/25-42645300 30-025-265230 30-02 30-025-26340 30-025-26340 30-025-28344 29 30-025-314330-025-28345 58 \$ 25 \$ 30-02	25-42648	20.025(075)	
Water, Temporarily Abandoned	NESE (1)	L6 NESW (K)	NWSE (J)	NESE	NWSW (E)	-29520 NESW (-K)	NWSE 30-025-076175E	30-025-43096 30-025-4309730-0	25-43102;sw 25-4309(8K)	30-025-26980 30-025-26980 30-025-26980	3-42698 30-025-0759	(K)	NW2E NESE (1)
? undefined		\mathbf{X}	3618	•30-025-2944	30-025-29460	30-025-28	982 30-025-3494	× 30-025-285	30-025-28343 983 30-025-314	30-025-28344 30-025-31430 30-025-28345	Тех	9	Cinter S
	SESE (P)	L7 SESW	SWSE	30-025-07645 3	0-025-07643V	30-025-07633 ₃₀₋	025-29521E 30-025-076229E (0) 30-025-24447)	1 (84)	(11)	(0) (0)	G/ MA X	(M)	parace St (D)
OCD Districts and Offices	2				4 8		SWSE	/	-07612 _/30-025	-07608 SM#30-025-07611/30-02	07609 30-025-251	27: 0:30-025-283	4830-025-07596
OCD District Offices	01 ^S	BE L7 SESW (N)	30-025-44	309 SESE (P)			92 30-025-29054 30-025-2898 (P) 30	30-025-28986	(N)	04 (P)		(N) 03	94 (O) SESE (P)
*	Tere 1		(0)				025-07653 30-025-12512	-025-07618 ' 30:025-43106 ³⁰ -0 10-025-43105 ³⁰⁻⁰²⁵	25-43100 30-025-4	3101 3025-283		5-28353	30-025-4254
Public Land Survey System	NENE	NENW	NWNE	NENE	NWNW 🧹	NENW	NWNE NENE	0-025-43105-020 0-025-07652	30-025	-07662 30-025-07669 30-02 NV/NE (AB) (A)	228355 30-028-076	2 30-025-076	76 30-025-4254 30-025-4254 30-025-4254
	(A)	L 1 (C) 19S 37E19S 38E	(B)	(A)	(D)	(C)	(B) 30-025-31933	(D) 30-025-2	(°C) 854430-025-28356	(B) (A) 30-025-28357 30-025-28358 30-025-28357 30-025-28358	9	·(C)] •	30-025-07679 (A) 30-025-0767
PLSS Second Division	12		07	+		0	8		-025-07670 30	99	025-28359	25-28360 30-02 10	5-28361
					CUIT		25-07655 30-025-12513 30-025-0765 SWNE SENE	56 🔎	SENW	30-025-23416	30-020-40101 20 020	-44609 '8	30-025-07681 30-025-2044
¹ Refeased to Imaging: 12/15/2023 2:59	:00	PM SENW (F)	SWNE (G)	SENE (H)	(E)	SENW (F)	SWNE SENE (G) (H)	SWNW (E)	SENW (F) 30-025-2836	GRESOLICES Depart 4030-025	FEMA30.0250246063000	85 28738e New Me rs, New Mexico State	30-025-07681 30-025 2011 Wergy, Mineral 30-025 2011 University/TexaseRatiks Wildlife,
			5.00						• 3	30-025-29549 F. Esri, HERE, Garmin, 30-025-2836430-0	sateGraph, GeoTechnologie	is, inc, METUNASA, U	ISGS, EPA, NPS, US Census Bureau, USDA, BLM

GSI Job No. 5238 Issued: 7 November 2019 Page 1 of 2



TABLE 1 WATER QUALITY ANALYTICAL RESULTS Results of Water Supply Well Sampling and Investigation South Hobbs Grayburg/San Andres Unit, Hobbs, New Mexico Occidental Petroleum Corporation

						Matrix:	Groundwater							
						Location ID:	Aldaz-1	Aldaz-1	Cochran D-1	Cochran D-1	Curtis-1	Dulin-1	IWW-1	Levey-1
						Location ID.	Aluaz-1	Aluaz-1	Cochian D-1	Cooman D-1	Curus-1	Duin-1	10000-1	Levey-1
						Sample Date:	8/29/2019	10/18/2019	9/3/2019	9/3/2019	9/5/2019	8/30/2019	10/23/2019	7/24/2019
						Sample Type:	N	N	N	Dup	N	N	N	N
		USE	PA	NN	IED	Collected By:	GSI							
Analyte Type	Analyte	Screening	Limit Type	Screening	Limit Type	Units								
	•	Limit		Limit										
Coliform	E. Coli		NS		NS	Unitless	-	-	-	-	-	-	-	Absent
Coliform	Fecal Coliforms		NS		NS	MPN/100 mL	-	-	-	-	-	-	-	<2
Coliform	Total Coliforms		NS		NS	Unitless	-	-	-	-	-	-	-	Present
Inorganic	Alkalinity, Bicarbonate as CaCO3		NS		NS	mg/L	242	-	149	102	158	270	-	1040
Inorganic	Alkalinity, Bicarbonate as HCO3		NS		NS	mg/L	-	-	-	-	-	-	386	-
Inorganic	Alkalinity, Carbonate as CaCO3		NS		NS	mg/L	<20	-	<20	<20	<20	<20	-	<20
Inorganic	Alkalinity, Total as CaCO3		NS		NS	mg/L	242	-	149	102	158	270	316	1040
Inorganic	Chloride	250	SMCL	250	WQS	mg/L	143	-	78.3	77.4	50.5	174	88	248
Inorganic	Nitrate Nitrite as N	10	MCL	10	WQS	mg/L	1.96	-	1.77	1.76	3.46	5.99	0.031	0.334
Inorganic	Sulfate	250	SMCL	600	WQS	mg/L	137	-	53.7	53.2	56.1	62.4	94.6	287
Inorganic	Sulfide (Total)		NS		NS	mg/L	-	-	-	-	-	-	<0.01	-
Inorganic	Sulfide as H2S, Dissolved-Dissolved		NS		NS	mg/L	0.137	-	< 0.00954	<0.00954	<0.00954	< 0.00954	-	-
Inorganic	Total Dissolved Solids (TDS)	500	SMCL	1000	WQS	mg/L	756	-	369	377	355	774	579	1750
Inorganic	Total Organic Carbon		NS		NS	mg/L	-	-	-	-	-	-	-	1.3
Metal	Calcium		NS		NS	mg/L	111	-	70.5	72.8	72.2	139	48.8	369
Metal	Iron	0.3	SMCL	1	WQS	mg/L	2.52	-	<0.027	<0.027	<0.027	<0.027	0.71	11
Metal	Iron, Dissolved	0.3	SMCL	1	WQS	mg/L	-	-	-	-	-	-	0.283	-
Metal	Magnesium		NS		NS	mg/L	19.1	-	12.5	12.8	12.1	24.4	11.9	64.1
Metal	Manganese	0.05	SMCL	0.2	WQS	mg/L	0.133	-	0.0004 J	0.0005 J	0.0005 J	0.0533	0.161	12.5
Metal	Manganese, Dissolved	0.05	SMCL	0.2	WQS	mg/L	-	-	-	-	-	-	0.134	-
Metal	Potassium		NS		NS	mg/L	3.61 b	-	2.3	2.36	2.28	3.66 b	4.6 Ja	5.77
Metal	Sodium		NS		NS	mg/L	132 b	-	47.7	48.9	40.9	95.6 b	160	88.8 b
Field Parameter	Dissolved Oxygen		NS		NS	mg/L	7.73	1.12	8.3	8.3	12.5	2.47	1	8.24
Field Parameter	Oxidation-reduction Potential (ORP)		NS		NS	mV	-35	53	79	79	101	12	-36	9
Field Parameter	pH, Field	6.5 - 8.5	SMCL	6 - 9	WQS	ph Units	7.41	7.26	7.21	7.21	6.86	7.24	7.59	5.96
Field Parameter	Specific Conductance, Field		NS		NS	mmhos/cm	1.2	1.26	0.671	0.671	0.65	1.24	0.966	2.51
Field Parameter	Temperature		NS		NS	°C	19.83	18.41	19.95	19.95	19.52	20.12	19.96	22.72
Field Parameter	Turbidity		NS		NS	NTU	24.3	0	0	0	0	5.6	0	47.6
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<u>Notes</u>

1. NS = No standard; "-" = not analyzed.

2. "<" = concentration below the Minimum Detection Limit (MDL); "J" = estimated concentration above the MDL but below the quantitation limit; "b" = compound was found in the blank and the sample.

3. mg/L = milligrams per liter; MPN/100 mL = Most Probable Number of viable cells in 100 milliliters of sample.

3. Samples analyzed at Eurofins TestAmerica, Houston, Texas and Cardinal Laboratories, Hobbs, New Mexico.

4. MCL = Maximum Contaminant Level; SMCL = Secondary Maximum Contaminant Level. These standards are set by the U.S. Environmental Protection Agency (U.S. EPA).

5. WQS = Water quality standards for groundwater presented in 20.6.2 NMAC New Mexico Water Quality Control Comission Regulations, New Mexico Environment Department (NMED).

6. The Levey-1 sample was comprised of water actively expelled from the wellhead at the time of sampling.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	295251
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By Condition Condition Date mgebremichael 12/15/2023 None

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CONDITIONS

Action 295251