AE Order Number Banner

Application Number: pMSG2335333715

PMX-338

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. 132; API 30-025-27139 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

DATE IN SUSPENSE ENGINEER LOGGED IN TYPE APP NO.	Receiv	ved by OCD: 12/1	9/2023 9:24:29 /	1 <u>M</u>			1	Page 3 of 23
DATE IN SUSPENSE ENGINEER LOGGED IN TYPE APP NO.								3
		DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.	

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" WFX X PMX SWD IPI EOR PPR"
[D] Other: Specify <u>Additional Injector within approved project area (R-6199-G)</u>
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[A] Working, Royalty or Overriding Royalty Interest Owners
[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: 12/19/2023 9:24:29 AM* 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 Application qualifies for administrative approval?		Pressure Maintenance Yes	No	_Disposal	Storage
II.	OPERATOR: OCCIDENTAL PERMIAN LTD					
	ADDRESS: P.O. Box 4294 Houston, TX 77210-42	.94				
	CONTACT PARTY: Roni Mathew				_PHONE: _	713-215-7827
III.	WELL DATA: Complete the data required on the Additional sheets may be attached			ell proposed	for injectior	1.
IV.	Is this an expansion of an existing project? If yes, give the Division order number authorizing					
V.	Attach a map that identifies all wells and leases wi drawn around each proposed injection well. This of		• 1 1 0		th a one-hal	f 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 Math	new	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>

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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. 132 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. 132
- 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 #132" 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
30-025-49764	NORTH HOBBS G/SA UNIT #971	OCCIDENTAL PERMIAN LTD	Active
30-025-49765	NORTH HOBBS G/SA UNIT #972	OCCIDENTAL PERMIAN LTD	Active
30-025-49768	NORTH HOBBS G/SA UNIT #980	OCCIDENTAL PERMIAN LTD	Active
30-025-49740	NORTH HOBBS G/SA UNIT #970	OCCIDENTAL PERMIAN LTD	Active
30-025-49767	NORTH HOBBS G/SA UNIT #978	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.
- Average Surface Injection Pressure 1,300 PSIG
 Maximum Surface Injection Pressure
 Produced Water 1,150 PSIG

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)

4. 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.

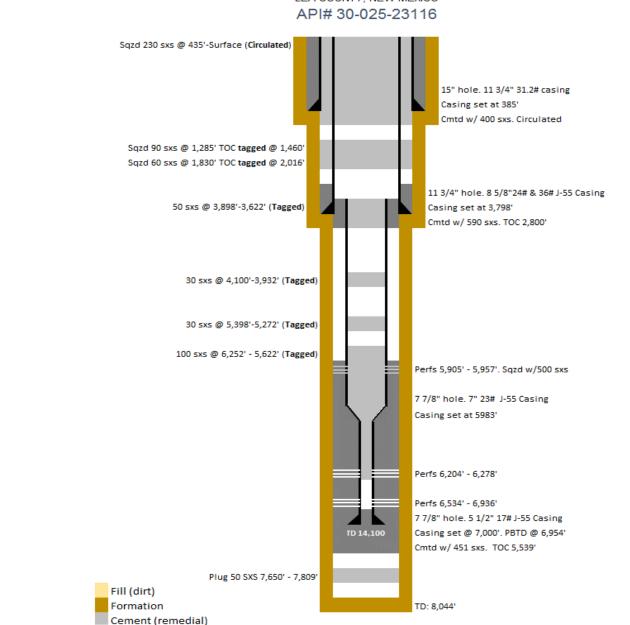
- X. Logs were filed at the time of drilling.
- XI. Water analysis from 72697 Going Lane Office and DUNLIN-1 and their location map are included with the application.

WATER WELL NAME	LAT	LONG	Date Collected
72697 Going Lane Office	32°42′18.86″N	103°11′01.82″W	10/31/2013
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 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
30-025-23116	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.

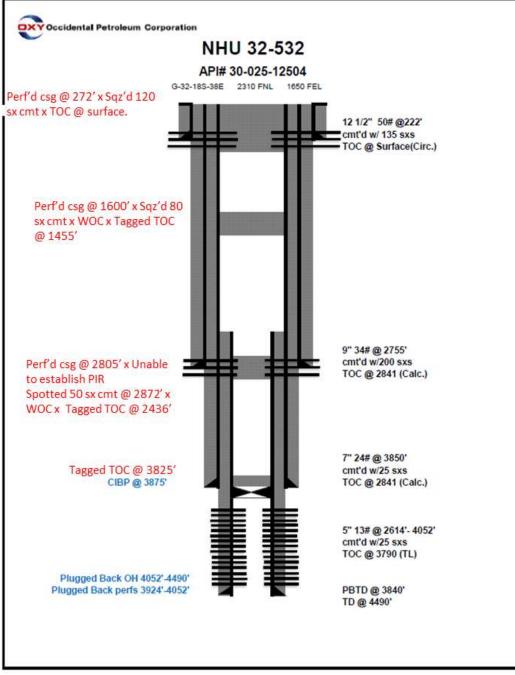
STATE A No. 5



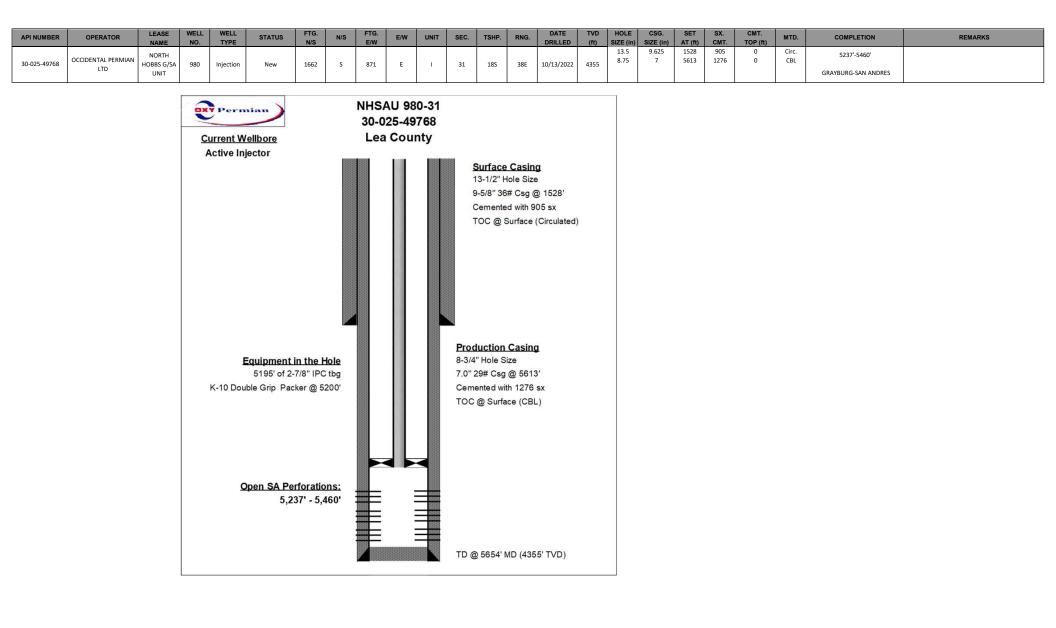
669' FNL 660' FEL, SEC 32, T-18S, R-38E LEA COUNTY, NEW MEXICO

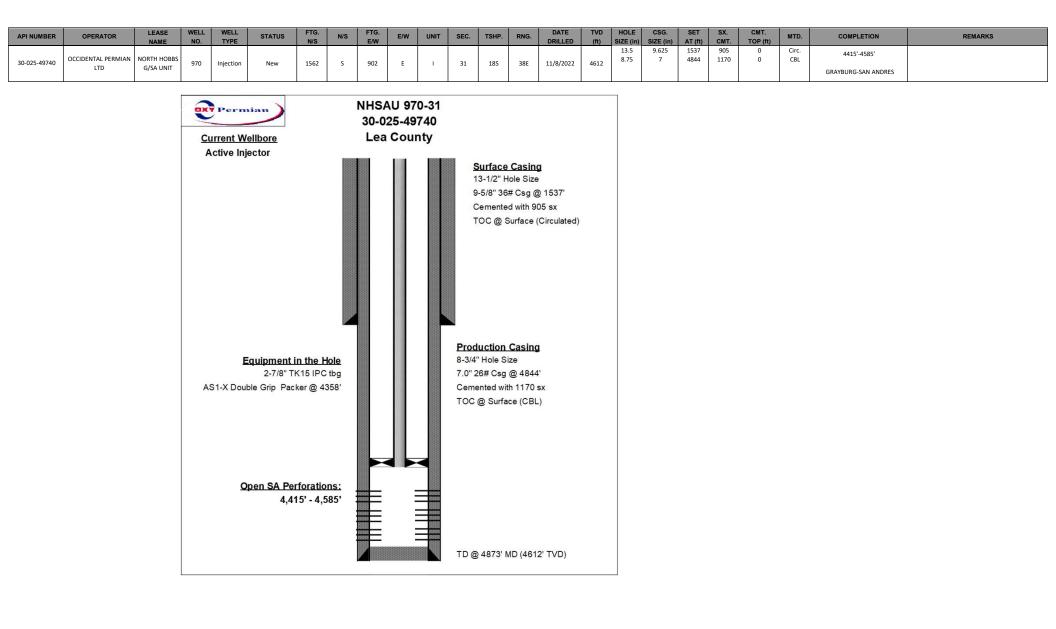
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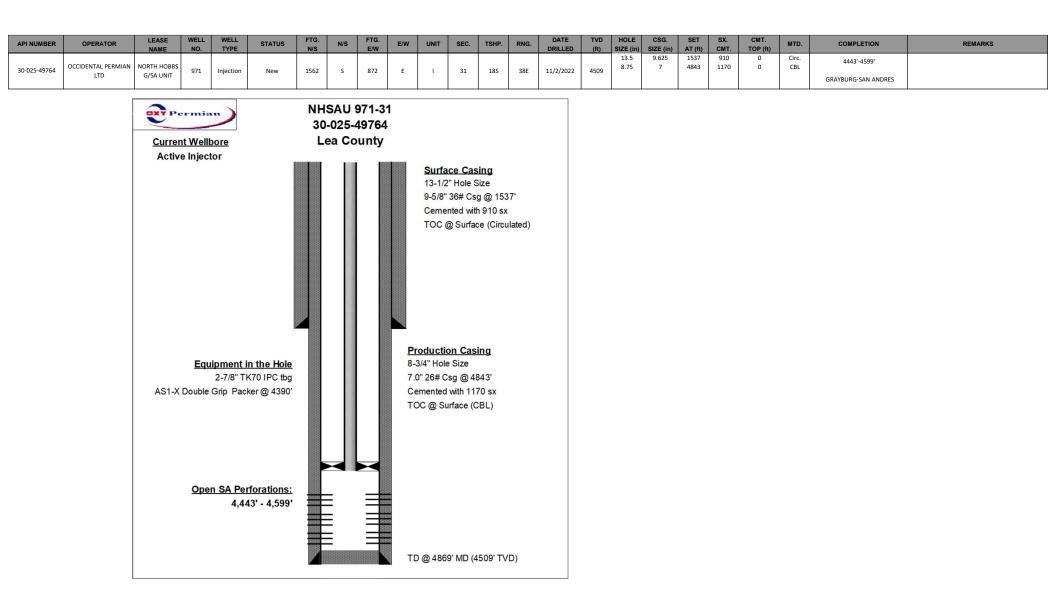
API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	LINIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD	COMPLETION	REMARKS
ATTROMBER	OFERATOR	NAME	NO.	TYPE	UNATOO	N/S	10/0	E/W		UNIT			Rivo.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	mild.	COMPLETION	NEMARINO .
																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	Oil	Plugged, Not Released	2310	N	1650	F	G	32	185	38E	11021	4490	9.000	8.625	2755	200	2841	Calc	HOBBS; GRAYBURG-SAN ANDRES	
30-023-12504	OCCIDENTAL TERMINAN ETD	NORTHODDS G/SK ONT	552	0"	These a, Not heleased	2510		1050	L .	0	52	105	JOL	11021	4450	7.000	5.500	3850	25	2841	Calc		
																	5.000	4052	25	3790	TL	1	



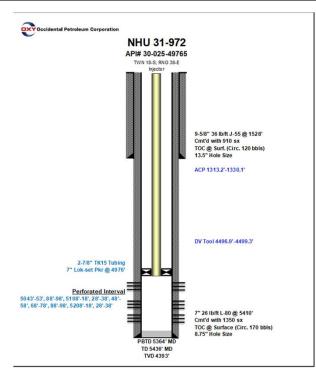
Page 9 of 23



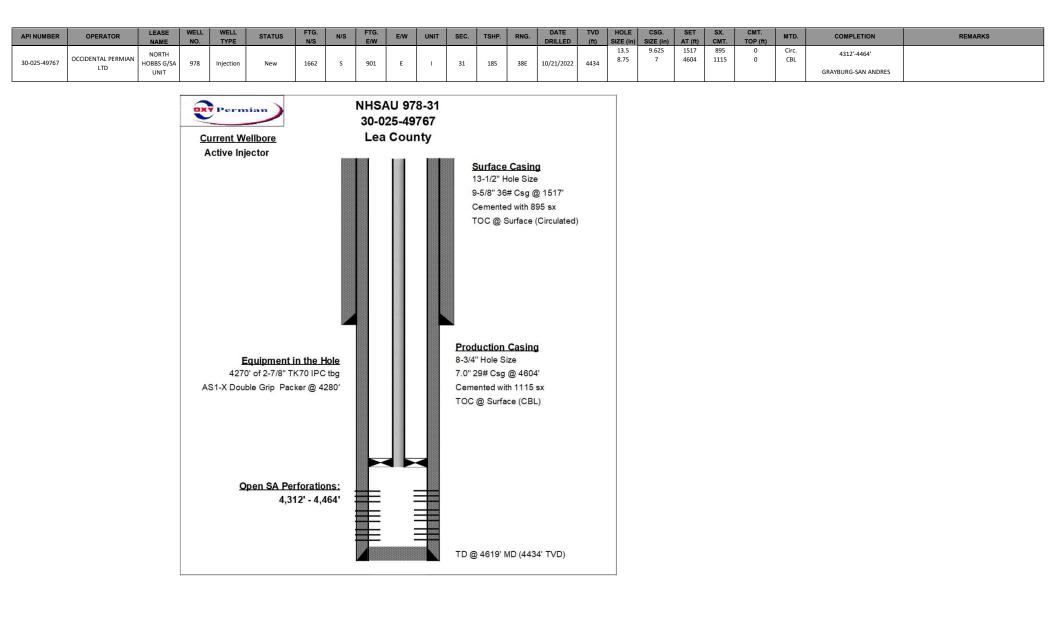




API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
AFTNOMBER	OPERATOR	NAME	NO.	TYPE	STATUS	N/S	10/5	E/W	E/**		JEC.	TOHF.	KNO.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WITD.	COMPLETION	REMARKS
		NORTH														13.5	9.625	1528	910	0	Circ.	5043'-5238'	
30-025-49765	OCCIDENTAL PERMIAN	HOBBS G/SA	972	Injection	New	145	6	1604			31	100	205	10/28/2022	4393	8.75	7	5410	1350	0	CBL	5045 5256	
30-023-43703	LTD	UNIT	972	injection	New	145	3	1004	vv		51	105	300	10/28/2022	4395							GRAYBURG-SAN ANDRES	



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Side 1

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OPERATOR: OCCIDENTAL PERMIAN LTD

WELL NAME & NUMBER: North Hobbs G/SA Unit #132

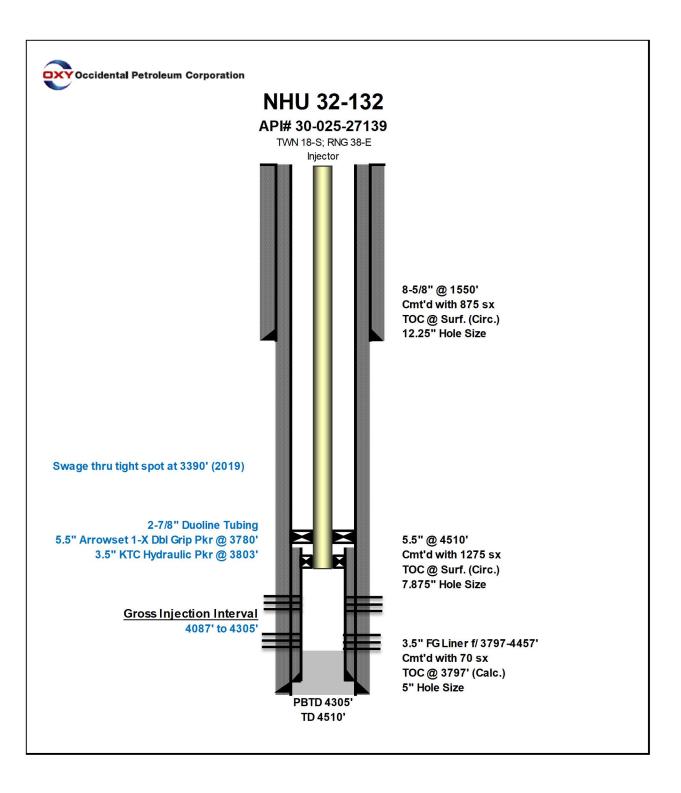
WELL LOCATION: 1403 FSL, 1300 FWL	L	32	18S	38E		
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE		
<u>WELLBORE SCHEMATIC</u>			<u>CONSTRUCTION DATA</u> e Casing	<u>"A</u>		
See attached						
	Hole Size: 12.25"	Casing Size: 8.625"				
	Cemented with: 875	SX.	or	ft ³		
	Top of Cement: Sur	face	Method Determine	d: Circ.		
		Intermedia	te Casing			
	Hole Size: 7.875"		Casing Size: 5.5" @	0 4510' (Production)		
	Cemented with: 127	5sx.	or	ft ³		
	Top of Cement:	rface	Method Determined	d: Circ.		
		Productio	Tr Casing			
	Hole Size: <u>5</u> "		Casing Size: 3.5"	(fiberglass Liner)		
	Cemented with: 70	SX.	or	ft ³		
	Top of Cement: <u>379</u>	7'	Method Determined	_{d:} Calc.		
	Total Depth: 3797' to	o 4457'				
		Injection	Interval			
	4087	fee	t to4305' (F	Perforated)		

Side 2

.

INJECTION WELL DATA SHEET

Tubing Size: <u>2.875</u> "	Lining Material: Duoline (fiberglass)
Type of Packer: <u>5.5" Arrowset 1</u>	-X Dbl Grip & 3.5" KTC Hydraulic Tandem Pkr
Packer Setting Depth: 3780'	& 3803'
Other Type of Tubing/Casing	Seal (if applicable): <u>NA</u>
	Additional Data
1. Is this a new well drilled	for injection?YesX_No
If no, for what purpose v	vas the well originally drilled? Injector
2. Name of the Injection Fo	ormation: Grayburg/San Andres
3. Name of Field or Pool (i	f applicable): Hobbs; Grayburg - San Andres
	erforated in any other zone(s)? List all such perforated ng detail, i.e. sacks of cement or plug(s) used. <u>No</u>
injection zone in this are	as of any oil or gas zones underlying or overlying the proposed a:
Byers (Queen) @ 240' 1	
<u> Glorieta @ -1690' TVI</u>	DSS



NEM MEXICO OIL CONSERVATION COMMISS WEL.

OCATION AND ACREAGE DEDICATIO, LAT Page 18 of 23

Form C-100

Ethnolise (+ 168

a must be from the outer boundaries of the Section A11 12 8-1 r eroner 132 North Holles Unit Sec. 32 Shull Oil Co Finge w \$512 Trut Let Lea 38 East 18 South 1300 West South 1400 feet from the line and feet that the Griund Lyvel Elev Producing Formation Pool Credit rated: Anneage: Hobbs (G/SA) 40 3626.41 (G/SA)A res 1. Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plot below 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? Unitization If answer is "ves," type of consolidation ____ X Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated the communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION certify that the information conis true and complete to the extedge and belief J. Fore Engr. Technician Senior Shell Oil Company 5-7-80 I hereby certify that the well location shown on this plat was plotted from field wers made by me or er my supervision, and that the same true and correct to the best of my knowledge and tellef 300 5. at # 12-8-1979 Engistered Emlessional Engineer and or Land Surveyor 676 2000 1 500 1000 Released to Maging: 12979/2923 9.26:24 A Me + +0 500 Ronald J. Eidson 3239

Religentin del 0 10 10 10 2023 9:24:29	AM	1 30.025.4	3mm7.9	30-025-05488 (1) 30-025-43038 BEBE		30-025-27138 10-025-14227 363020-025	2 30-025-29195		SWSWW TYP	(K) (K) 20	HWSE	NEEL SEA	(L) SWSW	30-025-07394 (K) SESW (N 70-025	(J)	Page 19	of 23
			1	-	30-025-07	1	-23481 SWSE -30-025-12491 30-025-07364	(P)0-025-	736630-025-07383	(M 38-025-12	149330-025-07371	30-025-073	07385	0 (N 30-025- 30-025-0739(30-0	30/025-073 5-22602 0)	96 30-025-07397	(N) (N)
G/SA Unit 132	30-025	44027		-05506 0 30-025-37480	30-025-0	077 30-025-29063	5 0746330.025.232	70 30	025-07470	30-025-37451	15-07433	ar bud		1			in j
AOR	NWNW	NENW ICI	NAME	37481 (30-025-27	9007 L1 30	025-37102 30-	87466 ³⁰⁻⁰²⁵⁻⁰⁷⁴⁶⁹ 125-35332 ⁸)	(A+	23384 30-025-23 30-025-23919 30-025-2			NENE 25-0743230-025	NWNW 07455 30-025-07	422 (C) 30	-025-07425	NENE (A)	(D) (C)
Nen			-	30-025-26933	30-025-290	64 30-025-2683	30-025 30-025-26412	30-025-27059	30-025 -	30-025-26	934 30-025-2680	· [©] 30 ⁵ 020-074	54 J ^C	p.	30-025-07	417 30-025-07419	30-015-04490
Oil and Gas Wells	SWNW	SENIN 30	025 05425 30-025	P		36-025-3629 95-30-025	- 30-025 10-025-27855 07465 syme 30 0 07465 syme 30 0 0755 syme 50 5 0755 syme 50 5 0755 syme 30 0 0755 syme 30 0	25-07486 _{1F} 30-	30-025-29953 30-02 25-2317630-025-12	25-37213 30-0	25-37128 30-0 435 5Wg30-025-0	25-37475 30-025-074	10-025-2896-	30-025-074	29 27428 - WHIE	SENS	SWININ SENIN
Wells - Large Scale	(8)	(F) *	(0)	(H) 30-	25-05504 \$30-025-074	1F 30-025	0746230-025-07467	30-025-0746 00-025-07461*	30-025-36897	-025-37558	30-025-2362030-	025-07431	30-025-074 -025-07459	20 30-020-0742	30-029-074	16 30-025-07418 025-31655	27243 30-025-30910
Miscellaneous		30	-025-05495	30	025-05492	30-025-209	20 30-025-07472	-025-28954	30-025-35754 30-02	25-07447 30-025-	37250 30-025-3554	130-025-3537	30-025-12	497 30-025-28882	W Princess jean		30-025-12494 • 27
★ CO2, Active ★ CO2, Cancelled	NWSW	NESW	185 /FE	-025-05500	0-025-0748630	461 025-371205W 30-0	25-36216 30-025-3	5727 30-025 -36251 - 30-0	26580 30-025-30 5-07450 5W 30-0	601130-025-07438 25-23131	185-88E	23049E5E30-02	-025-07456	5-23277 30-025-	07420 apri20-025	07415 met	NWEW MESH
CO2, Cancelled	(1)	(#)	100	(1) 30-02	5-37105	30-025-26935	30-025-28955	30-025-357	36280 30-025-219 30-025-348	6230-025-07440 871	30,025-3	-025-37,409 1293 30-025-074	1C.	101035-233	30-025-074	12 30-025-074	3 30-025-07410
* CO2, Plugged		39	025-05501	30	025-05499 3	0-025-07487	30-025-21966-30-0	25-24565 30-0	30,025-26917-0-	30-025-34	30-025-28884	30-025-35673-	4	30-025-2	9276	W BARRY DI	
CO2, Temporarily Abandoned	SWSW (M)	SESW	SHISE 0	0-025-05497 *	L4 30-0	25-0745430-025-3	5247 30-025-36286	30-025-2648530	6242 SWSW 30-025	5-2302230-025-229	34 30-025-35	184 30-075-074	30-02	5-23246 30-025-23 91 30-025 3 663	104 Sty 30-025	07414 W.R	SWSW SESW
🔅 Gas, Active		1	101	.30-	25-05493 *30-025-074	30-025-2888	10-025-2323 30 ⁵ 025-2196	5 30-025-28959	30-025-0744 025-07473	30-025-35674 30-025-35674	·30-025-07445	10-025-35672	0744430-025-124	96 30-025-	1249830-025-124	89 29	0-025-07408-
🌣 Gas, Cancelled		12	0-025-05542 30	-025-05541 30	025-05539	0.025.07511 3	0-025-07505	30-025-0749430	10-025-35CE3	30.00.000.000.000	26-07522	30-025-29017	-025-07516 30-	30-025-29026	30-025-29199101 5-07555	025-29931	20-023-07409
🌣 Gas, New		NENW IGS	NWNE (B)	NENE (A)	30-075-07512 L 1	NEWW	30-025-07503 30-025-07491	30,025-4974	30-025-0752830-0	25-3025830-025-22	1792 30-029-230	76 30-021-2211	30-025-12	505 30-025-22330 ³⁴	-025-07564 3	-020-07556/E	28299 30-025-28968
🔅 🛛 Gas, Plugged	1	1.01	36	(8)		2 2	3130.025.37428 3	10-025-27060	30-025-2263	30-025-35657	30-025-35304 00-025-35667	*30-025-26973	30.025.29074	30-025-3464330-0	5-44719	025-27169	30-020-07575
Gas, Temporarily Abandoned		SENW	SWNE /	0'025-05540 30-	25-09926 3	0-025-07013 3	-025-07506	SENE .	25-07493 30-025-0752 30-025-23007 7495 30-025-0	6 30-025-27140	30-025-1250	30-025-35726	30-025-	30-025-26975	-49739		Witness St.
Dijection, Active	(8)	(F)	(6)	SENE . (H)	1.2	30-025-07514	(030-025-0	7497 30,025-	7495 30-025-0	7531 30-025-07	30	-025-36150	23130 30-025-2	26330-025-233343	0-025-34372 34	(H30-025 -025-24926 30-025	07554 30-025-29375 -28309 0-025-34997
Injection, Cancelled	SWIN	SENW	SWNE (G)	SENE (H)	L2	SELCORS (F)	30-025-074-02	5-30204	88730 025/36245	an one notes		30-025-29198	entering and a		SWHE	52 30-025 282683	0-025-34997
Injection, New	1		1-1-1	1	25-22753						752 30-025-0753	8 30-025	-07537 30-025-075	44 30-025-07545 1	0-025-28410	30-025-28961	5
Injection, Plugged	NWENY	NESW (K)	NONSE.	MESE (1)	La	NESW 30	025-0749930-025-1	500 ME20-025-0	50120-025-22045	0-025-35385	(J) 30-021-2	-025-34374	30-025-23	9530-025-13282 98030-025-26834	NW230-025	28269 30-025-303 0754630-025-385	30-025-26583
Injection, Temporarily Abandoned	T	185 37E	36		18	5 38E	36-03	30:025-07500	10-075-07520	30-025-27139	30-025-29173	30-025 ⁴ 26974	34375 30-025-34	198030-025-26834	30-02	5-0754630-025-385	72 30-025-28303 34
Oil, Active			2 0 0 4000	der .	5	10-025-0751U	0-029-07507, 019/ -025-0749930-025,1 (J) 36-03 31 30-00 0025 01508 30-	25-07502 25-07502	765 30-025-2694 30-02	25-0753430-025-07	83330-025-3545	3	0 025 3553430-02	1 30-025-447 5-3499330-025-447	20	W Department	
 Oil, Cancelled Oil, New 	Shon (N)	SESW 2 (N) 2	S SWISE	SESE (P)	1.4	SESW (N)	SMSE (0)	(P)	30-025-31662 2502 30-025-0752	30-025-29265	20-025-07540-0	025-29906 30-025	07536 025	-07543 30-025-	07547	4005 5530-075-0	361 30-025-07572 30-025-07576
Oil, Plugged	1	1 Bot	10	1	12 mars	1									30-025-20267	3 3	30-025-28383
 Oil, Temporarily Abandoned 	1	-			2000		-025-07647 30-0	30-025-28304	763630-025-07625 07635 07635 1,030-025-0197	-30-025-07	624 30-075-07614		2	in the	. 10	10-025-28307	30-025-29-32
▲ Salt Water Injection, Active	14	Lā	1.2	L1	L4 3	0-025-29442 30-025	L 27622 L 2	125-0763 0-025	07635 ³⁰⁻⁰²⁵⁻²⁸⁹⁷ Le30-025-0	5 30-025 28970	5-07 2730-025-01 12 30-0	615 30-025 25-29752	-07619 30-025	-07605 30-025-	5-28306 30-025 12768 30-025	-07629 30-0 25-24079L 025	25-29756 07598 30-025-0/603
△ Salt Water Injection, Cancelled	1		Sameri ou	(TRA)		• 10-03										1421 In Humbry St	50-012-0 003
△ Salt Water Injection, New	T		Club			2	0.025-07648 30	025-07639 30-025	075-79519 44610 25-07641 30-025-0	7628 30-025-276	30-023-23/31	30-029-30300	30 015 1	30-025-29751 30-025-29801 10-07	121427 3	141E 220-0	Marris
Salt Water Injection, Plugged	E)	ENW F7	SOWNE [G]	SENE (H)	L 5	SENVI (F)a mar	SWNE (G)	30-025-2945	HEN Mallant	1 1025-07	(-G)	17620 (H)	SWNW	0-025-07597	30-075-314	22 (A) 30	LEL (F)
Salt Water Injection, Temporarily Abandoned		X					30-025-44389		1	30-032-38360	0-025-44612	30-025-29084	30-025-2898	0-025-43099	0-025-28339,	0-025-07600	30-025-07589
Water, Active	1		01 195 37E			30-025-2019730	06 30-02	25-0764430-025-0	64230-025-44611	0-025-44313	195 18F	10-1120-200300 30	10-025-4759330-0 	25-42595	50-02%-076075	30-025-28340 0-025-4264630-025	
Water, Cancelled	NWSW	(K)	NWSE [J]	NESE (1)	LG	NESW (K)	NWSE (J)	NEBE 30	025-0763430-025-2	(4F 1 (4F 1	30-025-0 30-025-0 882 30-025-290	5.07617 BE	30-025-43096 ₃₀₋₄ 30-025-4309730-	025-43098()	0020-24000	30-075-07607	SALESTE) - (K)
Water, New			1 24	15.0			who	+30-025-29443	30-025-29440				· 30-025-21	30-025-28343	30-025-28344		
Water, Plugged			1	1.11			30	025-07645 30	-025-07643 g ² 30-	30-025-07633-30-0 025-07632 5E-9W	25-29521 30-0	10-07622	0-025-28984			1	015 (014
Water, Temporarily Abandoned	wewe (M)	SESN' (N)	(Q)	SESE (P)	1.7	SEBW (M)	SW8E 30-025-44306	SESE (P)	SHEW 1.41) 30-025-29411	589W	BWSE	an Pak ang	SWRW HW)	5-07612 30-025	30-025-31424	5-0/611 0-02 4025-2 1 10-02	07609: 0981 SWSW SESW
? undefined				2						\$30-025-29412	30-025-29054	0.025.01110	025.43104	1	1	1	30-025-07583
OCD Districts and Offices	(D)	NENW (C)	(B) 12	NENE (A)	Lt	NENW (C)	07 NWNE (8)	NENE 30- (A) •	025-07650 ^{(W} 30-0 (0) 920-0	25-07654 ¹ 06	187 - 187	025-12512NE 3	0.025-3995530-02	5-43105 30-025-	13100 NW/NE (B)	30'025-283	100
	NUNTRA	NEWW!	NONE	NENE		NENW	NV/VE	NENE	NUNN	NENW	•30.025-30954		10.025 100120-000	30-025	07662 30.02	5-07669 30-025	-28355 7754 - 1000 1000
*		(C)	(8)	a	L1	(c)	(8)	(A)	(0)	(c)	(B) •	(A)	(D)	30-025-28356	30-029 26357 3	0-025-28358	(D) (C) 025-28359
							SWINE				25-07655 30-00 SWWF	25-12513 *30-025-0765		0-025-07670 30	045-07657 30	-025-23416 5-07671 30-075	30-025-44609 2854330-025-07678
Public Land Survey System	SWNW (E)	(F)	(G) 12	SENE (H)	195 ME	SENNV (F)	(G)	SENE (H)	5WHW (E)	SENW (F)	(9)	SENE (H)	(E)	Service and	(6)	SE 30-025	30-025-44609 2854330-025-02678 30-025-44608 30-025-28733
PLSS Second Division		195 37E			ing all					08			- /	-		30-025-2836430-	
- (2)				-		1							025-0754130-025	oress d	025-07664 30-02	5-07668 10-025	30-025-97675
PLSRefeased to Imaging: 12/19/2023 9:26.	:25 .	AM	(J)	NESE (1)	L.3	(K)	(3)	NESE (1)	(L)	(K)	(J)	NE SE	prices Deputyment, 1	in CommUN Mups	winer SW proll	New AMAR Breg	Miner Walt
			.80.1					-	-			.00	NAME DIN HERE GA	ww. Sub-Graph. Geol	Chronome in Sac	IQNASA, USGS, ERA A	USDA BUA

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MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Nalco	o Comp	oany					
Well Number: Lease: Location:	Going I OXY	Lane Offi	ce			Sample Temp: Date Sampled Sampled by:		
Date Run: Lab Ref #:	10/31/ 13-nov	2013 7-n72697				Employee #: Analyzed by:	27-022 GR	
				Dissolved C	Gases			
		(1120)				Mg/L	Eq. Wt.	MEq/L
Hydrogen Su Carbon Dioxi		(H2S)		NOT ANA		.00	16.00	.00
Dissolved Ox		(CO2) (O2)		NOT ANA				
				Cations				
Calcium		(Ca++)				57.89	20.10	2.88
Magnesium		(Mg++))			21.03	12.20	1.72
Sodium Barium		(Na+) (Ba++)		NOT ANAL	VZED	116.11	23.00	5.05
Manganese		(Mn+)		NUT ANAL		.00	27.50	.00
Strontium		(Sr++)		NOT ANAL	YZED	100	2,100	
				Anions				
Hydroxyl		(OH-)				.00	17.00	.00
Carbonate		(CO3=)				.00	30.00	.00
BiCarbonate Sulfate		(HCO3-				342.16	61.10	5.60
Chloride		(SO4=) (Cl-)				56.00 103.11	48.80 35.50	1.15 2.90
Chionae		(CI-)				105.11	55.50	2.90
Total Iron		(Fe)				0	18.60	.00
Total Dissolve						696.30		
Total Hardne						230.95		
Conductivity	MICROM	HOS/CM				976		
рН	7.600				Specifi	c Gravity 60/6	50 F.	1.000
CaSO4 Solubi	lity @ 80	F.	19.	15MEq/L,	CaSO4 s	scale is unlike	ly	
CaCO3 Scale In	dex							
70.0	:	280	100.0	.070	130.	0.5	80	
80.0		150	110.0	.310	140.	0.5	80	
90.0		070	120.0	.310	150.	0.8	10	

Nalco Company

Goins Lane Office 32°42′18.86″N 103°11′01.82″W

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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
	,									-	-			

<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	296075
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	12/19/2023

CONDITIONS

Action 296075

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