AE Order Number Banner

Application Number: pMSG2335334976

PMX-340

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. 331; API 30-025-07538 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

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	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" NSL NSP SD"
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)
[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 9:46:26 AM* STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery X Press Application qualifies for administrative approval? X Ye	ure MaintenanceNo	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 Additional sheets may be attached if necessary.	form for each well proposed	for injection.
IV.	Is this an expansion of an existing project? X Yes If yes, give the Division order number authorizing the project: <u>R-619</u>		
V.	Attach a map that identifies all wells and leases within two miles of a	inv proposed injection well w	vith a one-half mile radius circle

- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- 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 Mathew	TITLE: Regulatory Advisor
SIGNATURE: <u>Roni Mathew</u>	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. 331 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. 331
- 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 #331" 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
30-025-07520	NORTH HOBBS G/SA UNIT #221	OCCIDENTAL PERMIAN LTD	PLUGGED
30-025-12504	NORTH HOBBS G/SA UNIT #532	OCCIDENTAL PERMIAN LTD	PLUGGED
30-025-07542	STATE LAND SECTION 32 #008	OXY USA INC	PLUGGED
30-025-07541	STATE LAND SECTION 32 #007	OXY USA INC	PLUGGED

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

- VII. Proposed Operation
 - 1. Average Injection Rate3,000 BWPD / 10,000 MCFGPDMaximum Injection Rate8,000 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
 CO2 02 w/produced gas 1,650 PSIG

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

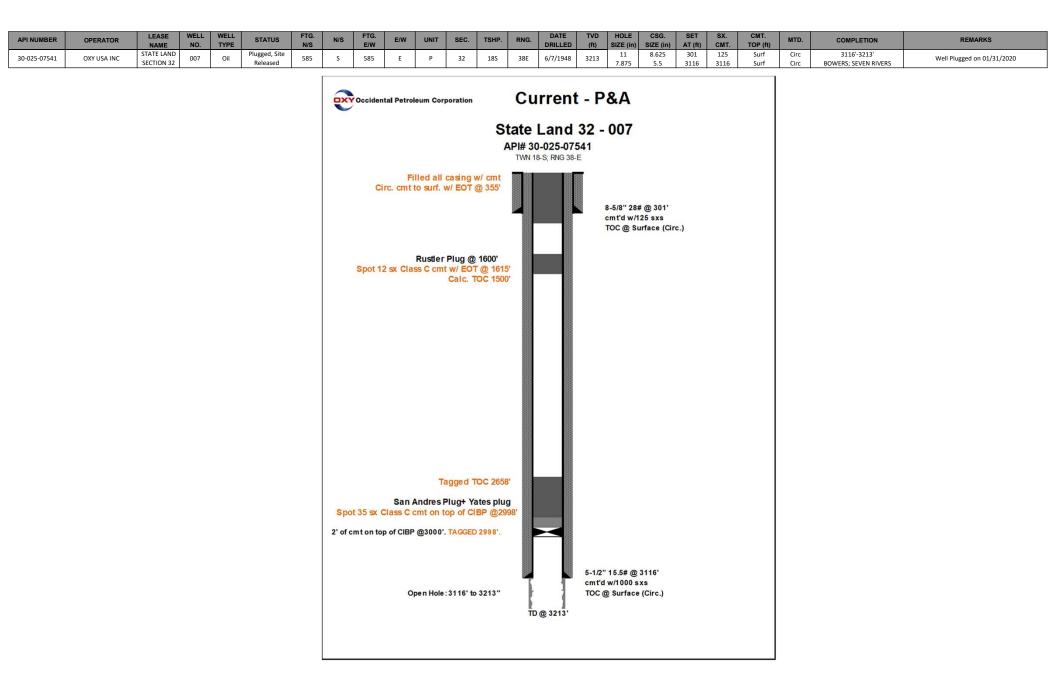
- Source Water San Andres Produced Water (Analysis previously provided at hearing, Case No. 14981)
- VIII. The information was previously submitted as part of Order No. R-6199-F application
- IX. Acid stimulate well with ~4,000 gal 15% HCL. Max rate = 4-5 BPM. Flush acid with ~200 bbls off fresh water.
- X. Logs were filed at the time of drilling.

XI. 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

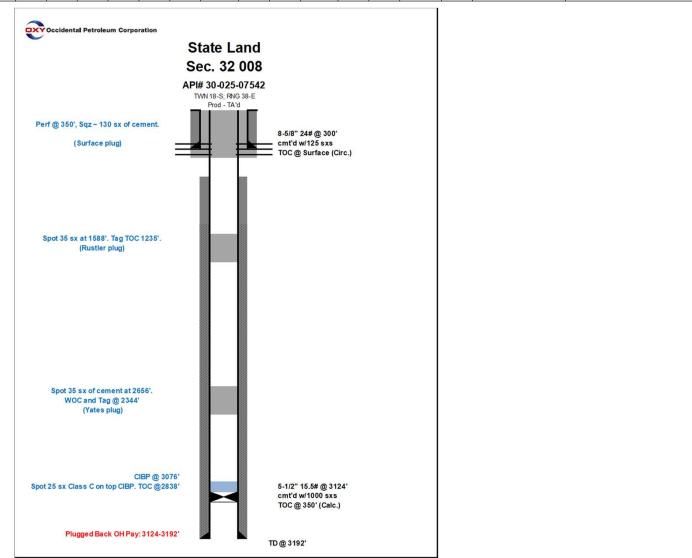
XII. N/A. This is a pressure maintenance project, not a disposal well.

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.



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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
30-025-07542	OXY USA INC	STATE LAND	008	Oil	Plugged, Site	1980	s	660	F	1	32	185	38F	7/1/1945	3102	11	8.625	300	125	Surf	Circ	3124'-3192'	Well Plugged on 09/14/2021
55 525 07542	OAT OBA INC	SECTION 32	000	01	Released	1980	5	660	-	'	32	185	301	,,1,1345	5192	7.875	5.5	3124	1000	350	Calc	BOWERS; SEVEN RIVERS	Wein 1066e0 01 09/14/2021



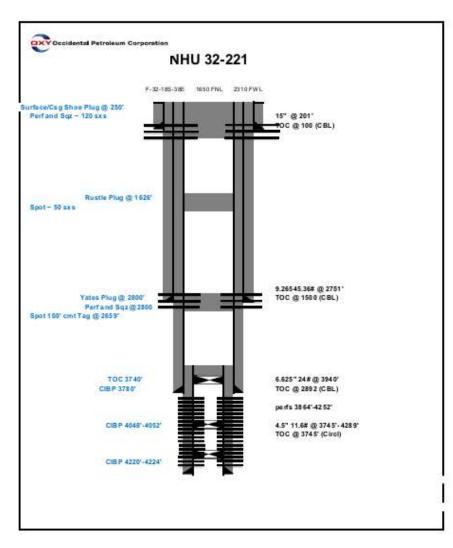
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API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)
30-025-07520	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	221	Oil	Plugged, Not Released	1650	Ν	2310	w	F	32	185	38E	N/A	4290

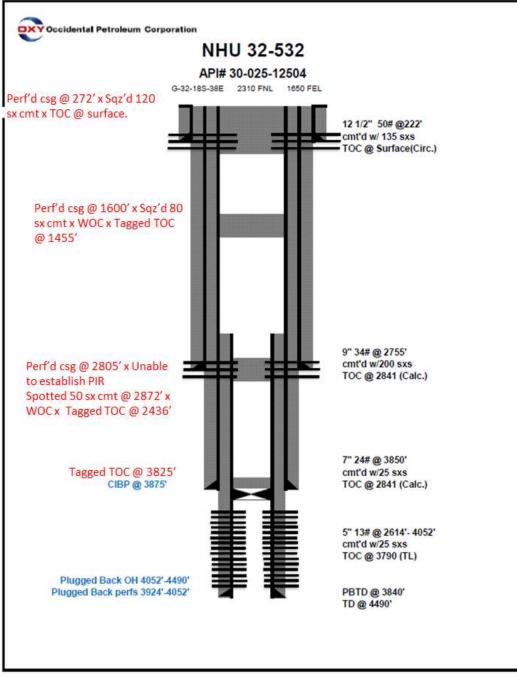
HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WITD.	COMPLETION	
	15.500	201	200	Surf	Circ	3876-4252	Well Plugged on 10/20/2021
	9.625	2751	600	Surf	Circ	HOBBS; GRAYBURG-SAN ANDRES	
	6.625	3940	200	Surf	Circ		
	4.500	4289	75	3748	CBL		



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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
ATTROMOLIK	OFERATOR	NAME	NO.	TYPE	UNATOO	N/S	14/0	E/W					NNO.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	MITD.	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	G	32	195	38E	11021	4490	9.000	8.625	2755	200	2841	Calc	HOBBS; GRAYBURG-SAN ANDRES	
50-025-12504	OCCIDENTAL PERMIAN ETD	NORTHIODDS G/SA ONIT	552		i lugged, Not Keleased	2510		1050	⁻	0	52	105	JUL	11021	4450	7.000	5.500	3850	25	2841	Calc		
																	5.000	4052	25	3790	TL	1	

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Side 1

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INJECTION WELL DATA SHEET

OPERATOR: OCCIDENTAL PERMIAN LTD

WELL NAME & NUMBER: NORTH HOBBS G/SA UNIT #	331							
WELL LOCATION: 2315' FSL 2322' FEL	J	32	18S	38E				
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP RANGE					
<u>WELLBORE SCHEMATIC</u> See attached		<u>WELL C</u> Surface	<u>ONSTRUCTION DAT</u> Casing	<u>'A</u>				
	Hole Size: 17"		Casing Size: 15-1/2	<u>-</u>				
	Cemented with: 25	0 sx.	or	ft ³				
	Top of Cement: <u>Su</u>	rface	Method Determined	l: Circulated				
		Intermedia	<u>e Casing</u>					
	Hole Size: <u>11.0</u> "		Casing Size: 9-5/8"					
	Cemented with: 500) sx.	or	$_{\rm max}$ ft ³				
	Top of Cement: Su	rface	Method Determined	l: Calculated				
		Productio	n Casing					
Production Casing 2: Hole Size = 6-1/4" Casing Size = 5.0"	350	(Primary 1930) (Remediation 1955)sx.	Casing Size: 7.0"					
Cemented with = 75 sx TOC = 2440'			Method Determined	**				
Method Determined = CBL		Top of Cement: Surface						
Casing TD = 4247'	Total Depth: <u>3940'</u>		Intornal					
	4075' (Perfc	<u>Injection</u>	t to Approx. 42	7' (Perforated)				
		fee	t to <u>, , , , , , , , , , , , , , , , , , ,</u>					

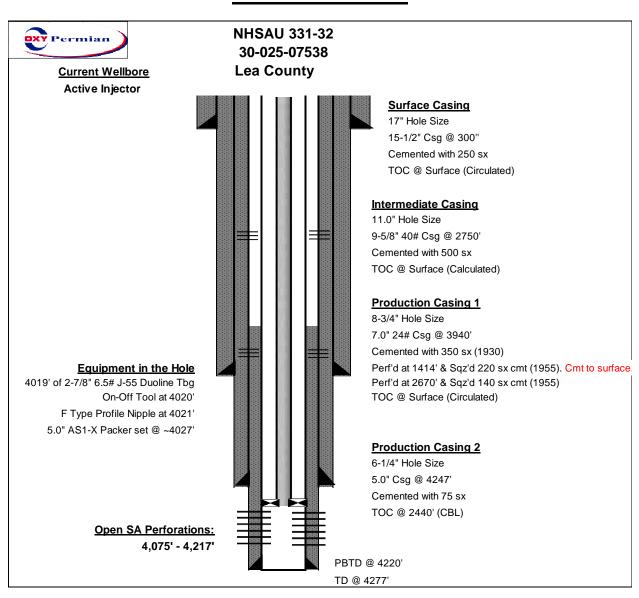
(Perforated or Open Hole; indicate which)

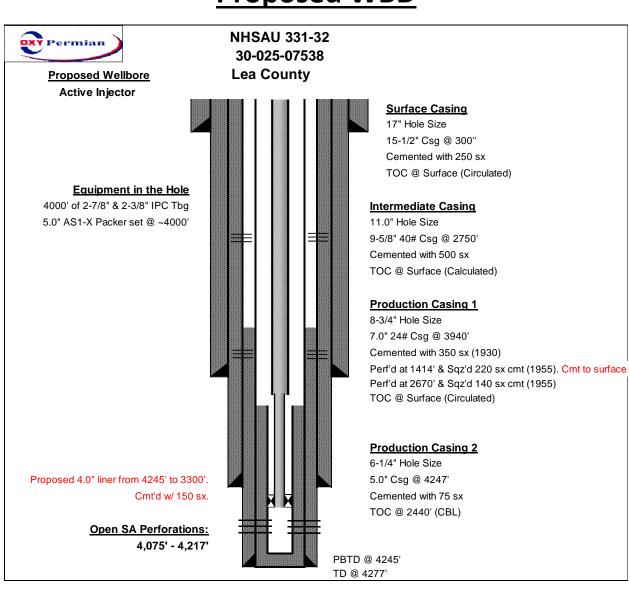
.

Side 2

INJECTION WELL DATA SHEET

Tubing Size: <u>2-7/8</u> "	Lining Material: Duoline
Type of Packer:5" 11.5-15# ARROWSET 1-X DBL	. GRIP
Packer Setting Depth: 4027'	
Other Type of Tubing/Casing Seal (if applicable	e):
<u>Addi</u>	tional Data
1. Is this a new well drilled for injection?	Yes <u>X</u> No
If no, for what purpose was the well originate	Illy drilled? Production
2. Name of the Injection Formation: <u>San Andr</u>	es
3. Name of Field or Pool (if applicable): <u>Hob</u>	os; Grayburg - San Andres
4. Has the well ever been perforated in any oth intervals and give plugging detail, i.e. sacks	1
Perf'd 7.0" csg & Sqz'd 140 sx @ 2670'. Perf'd	7.0" csg & sqz'd 220 sx @1414'. Circulated cmt to surface.
5. Give the name and depths of any oil or gas injection zone in this area:	
Queen @ 256' TVDSS	
Glorieta @ -1673 TVDSS	





<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztee, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 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 ANL	ACH	REAGE D	EDICA TIO	NPLAT				
API Number Pool Code						Pool Name							
30-025	-075	538 31920 HOBBS; GRAYBURG-SAN ANDRES											
Prope	erty Code	2				Property	v Name				И	Vell Number	
19250				1	VORTH H	OBBS	S G/SA	UNIT				331	
OGK	RID No.					Operato	r Name					Elevation	
15798	4		OCCIDENTAL PERMIAN LTD. 3634.8'									634.8'	
					Surfa	ace Lo	ocation						
UL or lot no.	Section	Township		Range	9	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County	
J	32	18 SOUTH	I i	38 EAST, N.M.P.M.			2315'	SOUTH	2322'	EAST		LEA	
	Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	nship Range		Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County		
Dedicated	Acres	Joint or Infill	Con	solidation Code	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
	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
SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=621374.43 US FT L=858147.77 US FT LAT:: N 32.7028512' LONG:: W 103.1690631' NAD 1983 Y=621434.45 US FT X=89327.91 US FT LAT:: N 32.7029649' LONG:: W 103.1695478'	heretofore entered by the division. Roni Mathew 10/19/2023 Signature Date Roni Mathew Printed Name roni_mathew@oxy.com E-mail Address
	SURVEYOR CERTIFICATION I hereby certify mar the well to out on shown on this plat was plotted from field notes of actual surveys made by ma of under my supervision, and that the same is the and correct to the best of my belief. Date of Survey Signature and Seat of SSIONA Professional Surveyor.
	Certificate Name WO# 220728WL-g (KA)
	107 22072011-0 (KA)

	30-025-36213 30-025	05487 ³⁰⁻⁰²⁵⁻⁰⁷³	61 030-025-07362 🔩	30-025-07367	•30-025-07382			N-Iron Ave	
Renierton Octo 02059/2023 9:46:26	AM (1) 30-025-05488	30-025-3	7410 (K) 30-025-2919	95 02260130-025-3744	30_025-23206 NESW 30_025-272	21430-025-0737230-025-0737630-025 • 30-025-07381	³⁸ 5-0738630-02 5-0 7393 (К)	596 NWSE NESE 30-025-07392 (1)	Page 17 of 21
C/CA Line + 221	24 %	30-025-29098 30-025-442283	30-025-27138 0 Wijones 1	W Jones Ln 30		20	30-099-07394		W Cielo Dr 22 Gold Ave
G/SA Unit 331	3667 ft 30 025 43038 SWSE 01 SESE (0) (P20 025	2 2	SESU30-025-12492 SWSE	d	SWSWW Trevino RdSESW	SWSE SESE	SWSW SESW (M) (N30-025-226	590 SEE	SWSW SESW SESW (M) (N) (O)
AOR	30-025-05490 30-025-29062i30-	²²⁴²¹ 30-025-0736 025-05486	30-025-07364	30-025-	0736630-025-07383	5-1249330-025-07371 30-025-073 • 30-025-07371	373 30-025-07390 (N30-025-226 -07385 30-025-07391 30-025-2	30-025-87396 30-025-07397 22602	
AUN	30-025-05506	30-025-070	77	30-025-29197	025-07470 30-025-37 30-025-07452 31 30-025-07452 31 30-025-07452 31 30-025-07452 31 30-025-07452 31 30-025-07452 31 30-025-07470 31 30-025-07470 30-025-37 30-025-37	0-025-07433	W Bender Biv		ă
Oil and Gas Wells	NWNE NE30-025-37481 (30-025-37481)		NEI30-025-07466 ³⁰⁻⁰²⁵⁻⁰⁷ NEI30-025-07466 ³⁰⁻⁰²⁵⁻⁰⁷ NWNE 25-37102-) 30-025-35332 ³)	469 NENE30-02 (A)	5-23384 30-025-23222 N-30-025-	37474 NWNE NENE	NWNW 5-07455 30-025-07422 (C) 30-02 1454 5	NWNE NENE 25-07425 (A)	NWNW DA NENW NWNE (D) A NENW NWNE (D) (C) (B)
Wells - Large Scale			30-025-26833 30-025-2841	025-34983	• 30-025-23919 30-025-239 • 30-025-21964 30-025	5-26934 30-025-28883	454 0	30-025-07417 30-025-07419	30-025-24490 Z 30-025-23375 Z
 Miscellaneous 			30-025-36297 30-025-28555	2	30-025-28953 30-025-37213	30-025-37128 30-025-37475	30-025-28964 30-025-07429		-w Arriba Dr
* CO2, Active	SW30-025-05505 SENE (G) (H) 20	L 2 025-05504 S 38E	SEN30-025-07465 SWNE	30-025-07488 _{NE} 30	025-2317630-025-12802 30-025-2196330-025-37558	5-07435 SW 30-025-07434 SENERT Dr 30-025-2362030-025-07431	SWN30-025-07426 SEN30-025-074	28 SWNE 30-025-07416 	27243 SWNW SWNE SENW SWNE (130-025-30910 (F) (36)
🔆 CO2, Cancelled	18\$ 37E	•30-025-0746	⁴ 30-025-2217230-025-22367	30-025-07461 [®]	30-025-36897 30-025-363153	30-025-35915 - 30-025-074	457 • 30-023-07420 • 30-023-07427	30-025-31655	30-025-12404
🔆 CO2, New	25 30	025-05492 0549530-025-074	30-025-22319 30-025-22319 81 30-025-2299530-02	20 30-025-0747 25-35727	4 30-025-07447 ³⁰⁻⁰	025-37250 ₃₀₋₀₂₅₋₃₅₅₄₁ 30-025-35376	30-025-12497 30-025-28882 28 0-025-07458	W Princess Jeanne Dr	W Alto Dr
🔆 CO2, Plugged	NWSE 30-025-05500 E	30-025-07486 ₃₀₋₀	25-37120 SW 30-025-36216vsr30-	025-36281NESE 30-02	25-07450 SW 30-025-23131;W	30-025-34869 30-025-23049ESE30-0	25-23400	123 NW 30-025-07415 NESE	3 30-025-07410
🔆 CO2, Temporarily Abandoned	30-02 ●657 ft	5-37105	30-025-26935 30-025-28 30'-025-35755	955 30-025-35	-36280 30-025-34871 756 ₃₀₋₀₂₅₋₂₆₉₁₇ 30-025-35852	30-025-37293 ³⁰⁻⁰²⁵⁻⁰⁷⁴ 30-025-07436	30-025-28885 30-025-07421 30 025 2800	30-025-07412 30-025-0741	3 30-025-07410 30-025-3534930-025-2495
☆ Gas, Active	30	025-05499 30-	025-07487 30-025-21966	30-025-24665 20.025 00 405	30-025-28958 • 30-025	5-34870 30-025-35673 30-025-28884 30-025-346	44	V Berry Dr	N COO
🌣 Gas, Cancelled	30-025-05497 × 0 SWSE (0) (P) 20	L 4 30-02	5-0748430-025-36247 30-025-36 (N) 30-025-24065	286 50-025-2040530 SE30-025-07477	-025-36837 36242 SWSW 30-025-2302230-025-3 30-025-0744830-025-07444	22934 30-025-35384' 30-025-074 30-025-07437/ (P)	42 30-025-23246 30-025-23304 30-025-37191 30-025-31663	SW30-025-07414 SESE	SWSW SESV3-025-07407 07411 (M) 30-025-07409 (O)
🌣 Gas, New	-30-	025-05493 *30-025-0748	30-025-28886	30-025-28959 25-23235 30	025-07473 30-025-356 	74 •30-025-07445 30-025-3567 3 30-025-35670	30-025-28964 30-025-07426 30-025-7426 30-025-07426 57 30-025-07426 30-025-12497 30-025-07426 30-025-12497 30-025-07426 30-025-12497 30-025-07426 30-025-12497 30-025-07426 30-025-12497 30-025-07427 30-025-12497 30-025-07427 30-025-22407 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2247 30-025-2026-300-025-1246 30-025-12496 30-025-1246 30-025-0266-300-025-12496 30-025-1246-30-025-1246 30-025-0266-300-025-12496 30-025-1246-30-	49830-025-12489	•30-025-07408
🌣 Gas, Plugged	30-025-05541	025-05539	025-07511 30-025-07505	30-025-07494 ³⁰	025-07490	30-025-07522 30-025-29017	2 30-025-35671 30-025-29026-30- 0-025-07516 30-028-49476 30-025-0 30-025-12505 30-028-49476 30-025- 53-025-12505 30-028-49476 30-025- 25-34964 (D) 30-025-49464 30-025-4 30-025-34464 30-025-4 30-025-3464 30-025-4 30-025-025-025-025-025-025-025-025-025-02	025-2919930-025-29931 07555 30-025-23438	W Sanger St
Gas, Temporarily Abandoned	WNE 36	30-025-07512 L 1	NENW 31 30-025-07 (Sc) 025 49742 30-025-07 (Sc) 025 49742 30-02	49130-0200074330 25-07496 (A30-025-	25-4974130-025-07528 NE 30-025- 23204 ()	-30258 30-025-23876 30-025-231 5-22792 30-025-23676 30-025-231	1630-025-12505 1630-025-12508 30-025-12508 30-025-12508 30-025-12508 30-025-12505	25-07564 30-025-07556 30-025- W Lea St (A)	28299 025-296771 30-025-28968 30-025-0757530-025-07579(B)
Injection, Active	NENE (A)	· · · (Ø (B)		30-025-22627 30-025-35657	7 30-025-35304 • 0-025-07525)*	30-025-3464330-025-4 ● ₩30-025-4	44719/NE 44718 B) Scharbauer St	NENV30-025-12509 (C)
, Injection, Cancelled	(B) 30-025-05540 30-	025-09926 30-	-30-023-37428	30-023-27060 30	023-07493	30-023-33067 8 30-023-26373	30-023-25014 30-023-26513	30-023-27 105 HL	Weldeston St. Weldeston St. Frank
↓ Injection, New	SWNE SENE (G) (H)	30 L 2	0-025-07514 SWI 30-02 SENW SWI 30-02 (520 025 0750420 025 07	25-07497 SEN30-025	07495 SV 30-025-07531 SEN 30-02	5-07529 SWNE 30-025-36150	5-23 30 025-2326330-025-2333430-0	30-025-34372 30-025-28268 30-025-28268 30-025	07554 30-025-26375 30-025-07578
Injection, Plugged	(0) (11)		30	-492 30-025-2 0-025-30204 ●	888730/025-36245 • ·30-02 30-025-2894	5-3566830-025-07518 30-025-12504 30-025-29198	(U30-025-32637 (U)130-025-01 830:025-2326330-025-2326330-025-23 30-025-0756330-025-07 30-025-0756330-025-075	e30-025-07552 W Alston St 56230-025-28951 30	-025-34997 30-025-2899930-025-28970
Join Injection, Temporarily Abandoned	30-	025-22753 30-			w 30-025-07527 30-0	25-07 30-025-07538 30-02	5-0753 30-025-07544 30-025-07545 30-0	025-28410 W Cain St	30-025-2896930-025-28970
Oil, Active	NWSE 36	18S 38E		7 30-025-37214 25-12503 NE <mark>30-025-0</mark>	750110:025:23045 768 30:025-07530 30.025 27138	30-025-23309 30-025-34374	5-0753 6279,637 30-025-07544 30-025-07545 30-025-07545 30-025-07545 30-025-07545 30-025-2319530-025-243282 33 5-34375 30-025-3498030-025-26834	025-35758 30-025-3030830-025-385	2 30-025-26583 30-025-07570 30-025-28308 30-025-28331 30-025-28331 30-025-07556
Oil, Cancelled	(J) NESE (I)		(K) NWSE 30	-025-4976 30 <u>0</u> 25-07500	30-025-07530 (K) 30-025-27139	NWSE 30-025-075421 30:025-29173 30-025-26974 30:025-29173 30-025-26974	5-34375 30-025-3498030-025-26834	NWS20-025-0755330-025-282 (J)	69 (T) 30-025-28331 30-025-07566 NESW (K)
• Oil, New		30	-025-07510	0-025-4974030-025-4	765-30 025-28943	5-0753320 025 25452	30-025-3553430-025-3499330-025-44721		30-025-30486
Oil, Plugged	SWSE SESE		SESW SWSE	SE 30-025-	30-025-31662 12502 SWSN 20-025-28265	30-025-0754030-025-29906	30-025-07543 SES30-025-075	W Dunnam St 547 \$30-025-24005 \$1530-025-0	30-025-35342 7561 Sw 30-025-07572 Start 20-025-28971 6830-025-31211 30-025-07576
Oil, Temporarily Abandoned	(O) (P) and (C) and (C	14	(N) (O)	(P) ₃₀₋₀₂	07498 ³⁰²⁰²⁵ 07523 (N)30-0	25-07524 30-025-07539 (P30-025 30-025-28266	5-07536 (M)	30-025-28267	30-025-28333 yers St
Salt Water Injection, Active		30	025-07649 30-025-07647	30-025-28304	0763630-025-07625	5-0762430-025-07814	a la		30-025-28332
 Salt Water Injection, Cancelled Salt Water Injection, New 		3646 ft	025-29442 ³⁰⁻⁰²⁵⁻²⁷⁶²² L 2	30-025-07640 0 30-025-07637 30-02	07635 30-025-28975	0-025-0762730-025-07615 30-025	5-07619 30-025-07605 30-025-28305 30-025-28305 30-025-28305 30-025-35318 30-025-07	30-025-28307 8306 30-025-07629 30-02 768 30-025-07629 30-025-	25-29756 W Gypty St W Gypty 25-29756 30-025-2353030-025-07587
Salt Water Injection, New Salt Water Injection, Plugged		L4	30-025-49524	30-025-28973	30-025-28974 30-025-2611	5 30-025-28979 5 00 005-025-28978	30-025-28305 30-025-35318 30-025-2	604 29892 ³⁰⁻⁰²⁵⁻³¹⁴²¹ 30-	025-29757
Salt Water Injection, Temporarily Abandoned	Hobbi Country Cub				30-025-35	30-025-29751	30-025-26116 30-025-297530 30-025-28334 30-025-29891 30-025-28334 30-025-31	0	Main St. 9. W Main St. 8
Water, Active	SWNE SENE			30-	25-07641 30-025-07631	-27628 •30-025-29083 30-02 5-07630 SWN30-025-07620 SENE	25-07613 30-025-3726630-025-07 SWNW 30-025-3726630-025-07	1427 30-025-31419 7610 SWNE SENE SENE	07599 30-025-07589 0-025-2833730-025-26120-130-025-283422 W Skelly St
Water, Cancelled	(G) (H)	L 5	(F) 30-025-29410 (G) 30-025-44	30-025-2945	9 (EY Midwest St (E) 30-025-26118 30-025-28980	(G) (H)	(E) 30-025-07597/ 30-025-28981 • 30-025-43099 - 30-0	30-025-31422 (A) 30-025-07600 025-28339	
Water, New	19S 37E 0	195	38E 06	0-025-0764430-025-0	764230-025-4461130-025-44313	05 30-025-44612 30-025-29084 30-025-29084 30-025-20933	30-025-4259430-025-42593	30-025-28340	0-025-28341 ^{Texes_St}
Water, Plugged	NWSE NESE		30-025-2819730-025-07646	NESE 30	025-0763430-025-29520 30-025-29520 30-025-29520	25-07623 30-025-07621	0-125-42595 30-025-42595 30-025-42595 30-025-43096 30-025-43102:5W 30-025-43098(X) 30-025-43098(X) 30-025-28343 30-025-28345 30-025-2855 30-025-2855 30-025-2855 30-025-2855 30-025-2855 30-025-2855 30-025-2855 3	30-025-0760230 025-4264630-0 30-025-26623 0 30-02 025-26623 0 30-02 025-26623 0 30-02 025-26623 0 30-02	25-42648 42696 30-025-26622 30-025-07593 6-42694 30-025-07591 NESW 30-025-07591
 Water, Temporarily Abandoned 	(1) (2	L 6	(K) (J)	30-025-44312 •30-025-29443	(K) 30-025-29460 30-025	25-07623 30-025-07621 NVSE 30-025-07617SE -28982 30-025-2908230-025-3494	30-025-4309730-025-43098K) 30-0 30-025-28343 30	25-26980 30-025-4294 12/ 0-025-28344	07607 (L) (K) 30-025-07590
? undefined	<u>3636 ft</u>			D //	025.07643 30.025.07633			30-025-31430	15554
	SWSE SESE (O) (P)	L7	SESW SWSE	SESE O	SWSW 0 30-025-07632	30-025-29521 30-025-07622 SWSE [™] 30-025-24447SE (O) (P)		608 SWSF 30-025-07611 SESF 30-025	07609 WSW 30-025-07594 SWSE 97619 M 30-025-25127 N 30-025-28348 9881 90-025-25127 30-025-07596
OCD Districts and Offices	2 5-8	\mathbf{X}	SESW		G ²				30-025-25127 30-025-07596 30-025-07596 30-025-28347 30-025-07596 30-025-07583 SESW SWSE
OCD District Offices	SWSE (O) 01 SESE (P)	LX	(N) 06 (O)	(P)	30:025:29522	42592 •30-025-29054 •30-025-289 US (O) (P)	30-025-4310630-025-43100 30-025-4310	(O) (P) 30-025-2635	(M) U3 (N) (O)
*				30	025-07650 30-025-07654	30-025-07653 30-025-12512 30-025-30954 NENE	30-025-43105 ³⁰⁻⁰²⁵⁻⁴³¹⁰⁴ 30-025-07652 30-025-07652	662 30-025-07669 30-025	30-025-28353 -28355 30-025-07672 30-025-07676
	NWNE NENE (B) (A)	L1	C) (B)	(A)	(D) (C)	(B) 30-025-31933	30-025-43103 30-025-43104 30-025-076 30-025-07652 30-025-07658 NEWW (D) 30-025-07658 (C) 30-025-28544 30-025-28356 30-025-28544 30-025-28566 30-025666 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-0256666 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-025-28566 30-020000000000000000000000000000000000	NWNE NE230-025- (-B) (A)	22754 NWNW 130-025-07679 AF (C) 30-025-28354
Public Land Survey System	198 37E		\					30-	30-025-28359
PLSS Second Division	12		07		•	0:025-07655 30-025-12513 • 30-025-076	30-025-07670 30-02 56	30-025-23416 30-025-07671 30-025	• 30-025-44609
	SWNE SENE (G) (H)	L 2	SENW SWNE (F) (G)	SENE (H)	SWNW SENW (E) (F)	SWNE SENE (G) (H)	SWNW (E) 30-025-28362	(G) (H30-025-	30-025-4460830-025-28733 (F) 30-025-07681
Pure Refeased to Imaging: 12/19/2023 9:47	:49 AM						Resources Department	 50.303123527363631 Conservation Divisio Esci Community 130/02552836430-0 	of the New Mexico Energy, Minerals and Natural 25 28 365 State University, Texas Parks & Wildlife
	NWSE NESE (J) (I)	L 3	NESW NWSE (K) (J)	NESE (1)	NWSW NESW (L) (K)	NWSE NESE 3(AUMONA CONAREGUSTI, HARBOS	きの作品を使います。GeoTed和空間空間を、In (J) (I)	METINA WUSGS, EPA, NPREMARE ENSUS (L)

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MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Nalco	o Comp	any					
Well Number: Lease: Location:	Going OXY	Lane Offi	ce			Sample Temp Date Sampled Sampled by:		
Date Run: Lab Ref #:	10/31/ 13-nov	2013 v-n72697				Employee #: Analyzed by:	27-022 GR	
				Dissolved (Gases			
Hydrogen Sul	fido	(H2S)				Mg/L .00	Eq. Wt. 16.00	MEq/L .00
Carbon Dioxic Dissolved Oxy	le	(CO2) (O2)		NOT ANA NOT ANA		.00	18.00	.00
				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+)		NOT ANAI	LIZED	.00	27.50	.00
Strontium		(Sr++)		NOT ANAI	LYZED	.00	27.50	100
				Anions				
Hydroxyl		(OH-)				.00	17.00	.00
Carbonate		(CO3=)				.00	30.00	.00
BiCarbonate		(HCO3-)			342.16	61.10	5.60
Sulfate		(SO4=)				56.00	48.80	1.15
Chloride		(Cl-)				103.11	35.50	2.90
Total Iron		(Fe)				0	18.60	.00
Total Dissolve	d Solids	. ,				696.30		
Total Hardnes	s as Ca	03				230.95		
Conductivity I	MICROM	HOS/CM				976		
рН	7.600				Specif	ic Gravity 60/	60 F.	1.000
CaSO4 Solubil	ity @ 80	F.	19.	15MEq/L,	CaSO4	scale is unlike	ely	
CaCO3 Scale Ind	dex							
70.0		280	100.0	.070	130.	.0 .5	580	
80.0		150	110.0	.310	140.	.0 .5	580	
90.0		070	120.0	.310	150.	.0.0.	310	

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	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
						Location ID:	Aldaz-1	Aldaz-1	Cochran D-1	Cochran D-1	Curtis-1	Dulin-1	IWW-1	Levey-1
							0/00/0010	10/18/2019	0/0/0040	9/3/2019	0/5/0040	0/00/0040	40/00/0040	7/24/2019
						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	1ED	Collected By:	GSI	GSI	GSI	GSI	GSI	GSI	GSI	GSI
Analyte Type	Analyte	Screening Limit	Limit Type	Screening Limit	Limit Type	Units								
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 <u>.</u> 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

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CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	296092
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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

CONDITIONS

Action 296092