AE Order Number Banner

Application Number: pMSG2335337210

PMX-342

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. 432; API 30-025-26974 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

Regulatory Advisor

Roni Mathew

APP NO. DATE IN ENGINEER LOGGED IN TYPE

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

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



		ADMINISTRATIVE APPLIC	CATION CHECKLIST	
THIS	CHECKLIST IS I	MANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE D		ND REGULATIONS
	on Acronyn	ns:		ication!
יון	[DHC-Dow [PC-P	Indard Location] [NSP-Non-Standard Pronormal Comming ing] [CTB-Lease Commol Comming ing] [OLS - Off-Lease Stora [WFX-Waterflood Expansion] [PMX-Pre [SWD-Salt Water Disposal] [IPI-Injalified Enhanced Oil Recovery Certification	ningling] [PLC-Pool/Lease Commage] [OLM-Off-Lease Measuremossure Maintenance Expansion] ection Pressure Increase]	ingling] ent]
[1] 7 0"	VDE OE A	DDI ICATION Cheek These Which Appl	y for [A]"	
[1] T	[A]	PPLICATION - Check Those Which Appl Location - Spacing Unit - Simultaneous I NSL NSP SD"		
	Chec	k One Only for [B] or [C]"		
	[B]	Commingling - Storage - Measurement" DHC CTB PLC	PC OLS OLM"	
	[C]	Injection - Disposal - Pressure Increase - WFX X PMX SWD	Enhanced Oil Recovery" IPI	
	[D]	Other: Specify Additional Injector within app	proved project area (R-6199-G)Á	
[2] N	OTIFICAT	CION REQUIRED TO: - Check Those Wh	nich Apply, or Does Not Apply	
	[A]	Working, Royalty or Overriding Roy	yalty Interest Owners	
	[B]	Offset Operators, Leaseholders or S	urface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent App. U.S. Bureau of Land Management - Commissioner of P	roval by BLM or SLO ublic Lands, State Land Office	
	[E]	For all of the above, Proof of Notific	cation or Publication is Attached, an	d/or,
	[F]	Waivers are Attached		
-		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ATION REQUIRED TO PROCES	SS THE TYPE
approval is	s accurate a	TION: I hereby certify that the information and complete to the best of my knowledge. equired information and notifications are sub-	I also understand that no action wil	
	Note	: Statement must be completed by an individual wi	ith managerial and/or supervisory capacity	y.
Roni Ma	thew	Roni Mathew Signature	Regulatory Advisor	10/19/2023
Print or Ty		Signature / Vonu ///www.	Title	Date
•		-	roni_mathew@oxy.com	
			e-mail Address	

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE:Secondary RecoveryXPressure MaintenanceDisposalStorage Application qualifies for administrative approval?XYesNo
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 proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X Yes No If yes, give the Division order number authorizing the project: R-6199-F
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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: Roni Mathew DATE: 10/19/2023
*	E-MAIL ADDRESS: roni_mathew@oxy.com 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: February 11, 2014 as part of Order No. R-6199-F application

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. 432 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. 432
- 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 #432" 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:

API	Well Name	Operator	Status after Jan 2014
30-025-07624	SOUTH HOBBS G/SA UNIT #013	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
30-025-49478	NORTH HOBBS G/SA UNIT #967	OCCIDENTAL PERMIAN LTD	Active

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

VII. Proposed Operation

Average Injection Rate
 Maximum Injection Rate
 3,000 BWPD / 10,000 MCFGPD
 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

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)

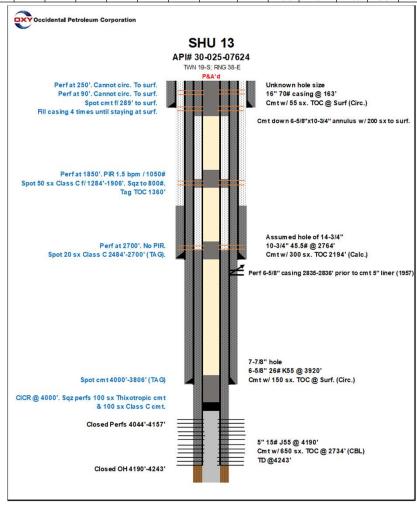
- 4. Source Water San Andres Produced Water (Analysis previously provided at hearing, Case No. 14981)
- VIII. The information was previously submitted as part of Order No. R-6199-F application
- IX. Acid stimulate well with \sim 4,000 gal 15% HCL. Max rate = 4-5 BPM. Flush acid with \sim 200 bbls off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

XI. Water analysis Malcomb Combs Windmill and DUNLIN-1 and their location map are included with the application.

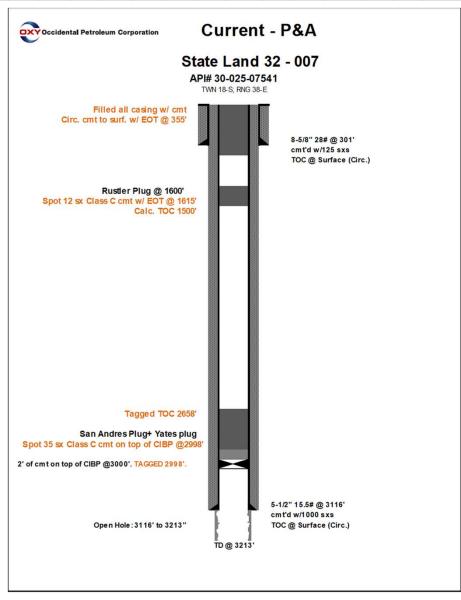
WATER WELL NAME	LAT	LONG	Date Collected
Malcomb Combs Windmill	32°41'13.53"N	103°9'51.426"W	3/25/2013
DUNLIN-1	32°41'33.50"N	103°10'24.76"W	8/30/2019

- 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.

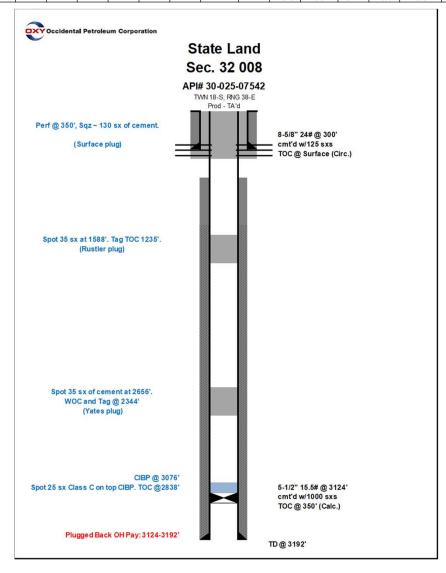
API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
	Of Electron	NAME	NO.	TYPE		N/S		E/W						DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)		30IIII 2211011	
		SOUTH														Unkn	16	163	55	Surf	Circ	4044'-4243'	
30-025-07624	OCCIDENTAL PERMIAN	HOBBS G/SA	012	Injection	Plugged, Site	220	NI NI	2310	\ _{\\\}	_	_	100	38F	9/4/1930	4243	14.75	10.75	2764	300	2194	Calc	4044 4245	Well Plugged on 09/05/2019
30-023-07024	LTD	UNIT	013	IIIJection	Released	330	IN.	2310	٧٧	٠ ا	,	153	300	3/4/1330	4243	7.875	6.625	3920	350	Surf.	Circ	GRAYBURG-SAN ANDRES	Well Flugged Oil 09/03/2019
		UNII														7.875	5	4190	975	2734	CBL	GRATBORG-SAN ANDRES	



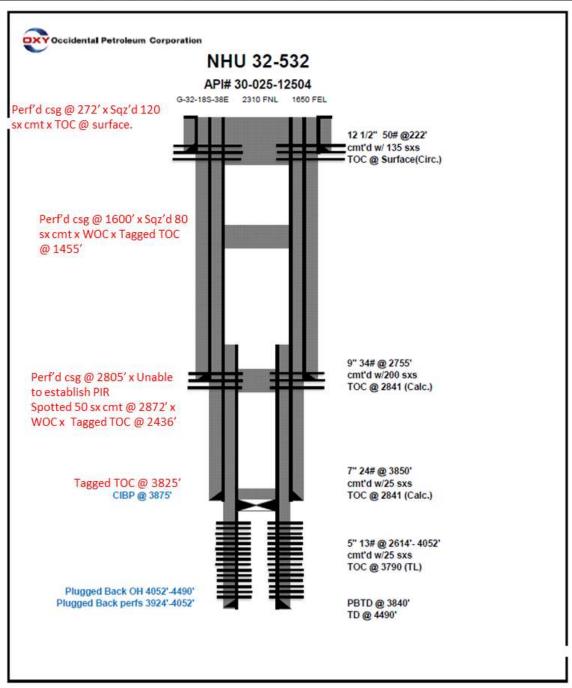
API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	F/M	LINIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
AITHOMBER	OFERATOR	NAME	NO.	TYPE	OTATOO	N/S	14/0	E/W	2700	UNIT	OLO.	10111	itito.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WITE.	COMPLETION	KEMAKKO
30-025-07541	OXY USA INC	STATE LAND	007	Oil	Plugged, Site	EOE	c	585	-	D	22	100	205	6/7/1948	3213	11	8.625	301	125	Surf	Circ	3116'-3213'	Well Plugged on 01/31/2020
30 023 07341	OXI OSA IIVC	SECTION 32	007	011	Released	585		303			32	103	302	0,7,1340	3213	7.875	5.5	3116	3116	Surf	Circ	BOWERS; SEVEN RIVERS	Well 1 ldgged 011 01/31/2020



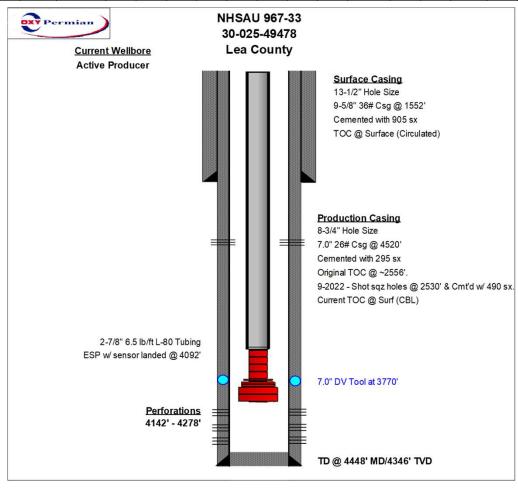
١	API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/W	UNIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
	AFTNOMBER	OFERATOR	NAME	NO.	TYPE	SIAIOS	N/S	14/3	E/W	L/VV	ONT	JEC.	I SHE.	KNG.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WITD.	COMPLETION	KEMAKKS
- [30-025-07542	OXY USA INC	STATE LAND		Oil	Plugged, Site	1000	c	660	-		22	185	205	7/1/1945	3192	11	8.625	300	125	Surf	Circ	3124'-3192'	Well Plugged on 09/14/2021
	30 023 07342	OXI O3A INC	SECTION 32	000	011	Released	1980	3	000	L .	' '	32	103	38E	//1/1545	3132	7.875	5.5	3124	1000	350	Calc	BOWERS: SEVEN RIVERS	Well Flugged 011 03/14/2021



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
AITHOMBER	OFERATOR	NAME	NO.	TYPE	O IA IOO	N/S	1470	E/W		ONT	OLO.	101111	ICITO.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WITE.	COMPLETION	KEMAKKO
																12.250	10.250	222	135	Surf	Circ	4052'-4490'	Well Plugged on 05/26/2022
30-025-12504	OCCIDENTAL PERMIAN LTD	NORTH HORRS G/SA LINIT	532	Oil	Plugged, Not Released	2310	N	1650	-	6	32	185	38E	11021	4490	9.000	8.625	2755	200	2841	Calc	HOBBS; GRAYBURG-SAN ANDRES	
30-023-12304	OCCIDENTAL I ENVIIANTED	NOKITI NOBBS G/SA ONTI	332	0"	i lugged, Not Neleased	2310		1030	- 1	١	32	103	JOL	11021	4490	7.000	5.500	3850	25	2841	Calc		
																	5.000	4052	25	3790	TL	1	



API NUI	BER OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	N/S	FTG.	E/M	UNIT	SEC.	TSHP.	RNG.	DATE	TVD	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
AFINO	SER OFERATOR	NAME	NO.	TYPE	SIAIUS	N/S	14/3	E/W	LIVV	ONIT	SEC.	ISHF.	KNG.	DRILLED	(ft)	SIZE (in)	SIZE (in)	AT (ft)	CMT.	TOP (ft)	WIID.	COMPLETION	REMARKS
																13.5	9.625	1552	905	0	Circ.	4142'-4278'	
30-025-	OCCIDENTAL PERMIAN	NORTH HOBBS	067	Oil	Active	1803	c c	1152	١ 🗤		33	185	205	9/8/2022	4346	8.75	7	4423	785	0	CBL	4142 4270	
30 023	LTD	G/SA UNIT	307	Oil	Active	1803	,	1132	**		33	103	361	3/8/2022	4340							GRAYBURG-SAN ANDRES	



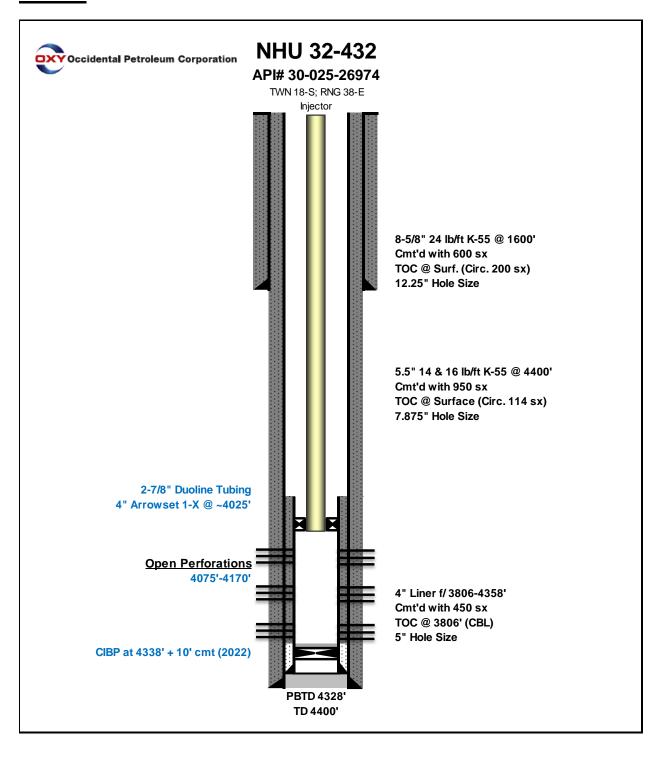
Side 1	INJECTION WELL DATA SHEET			
OPERATOR: OCCIDENTAL PERMIAN LTD				
WELL NAME & NUMBER: North Hobbs G/SA Unit	#432			
WELL LOCATION: 1401 FSL, 1295 FEL	I	32	18S	38E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC See attached		WELL Co Surface	ONSTRUCTION DAT Casing	<u>'A</u>
	Hole Size: 12.25"		Casing Size: 8.625	"
	Cemented with: 600	SX.	or	ft ³
	Top of Cement: Surface	:	Method Determined	d: Circ.
		Intermedia Productio		
	Hole Size: 7.875"		Casing Size: 5.5" @	9 4400' (Production)
	Cemented with: 950	SX.	or	ft ³
	Top of Cement: Surface		Method Determined	l: Circ.
		<u>Production</u> Liner	n Casing	
	Hole Size: 5"		Casing Size: 4" (Liner)
	Cemented with: 450	SX.	or	ft ³
	Top of Cement: <u>3806'</u>		Method Determined	ı: CBL
	Total Depth: 3806' - 435	58'		
		Injection	<u>Interval</u>	
	4075'	foo	t to 4170' (F	Perforated)

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2.875"	Lining Material: Duoline (fiberglass)
Type of Packer: 4" Arrowset 1-X Dbl Grip	
Packer Setting Depth: 4025'	_
Other Type of Tubing/Casing Seal (if applicable	e): <u>NA</u>
<u>Addi</u>	tional Data
1. Is this a new well drilled for injection?	YesXNo
If no, for what purpose was the well original	ally drilled? Injector
2. Name of the Injection Formation: Grayburg	/San Andres
3. Name of Field or Pool (if applicable): Hob	os; Grayburg - San Andres
4. Has the well ever been perforated in any of intervals and give plugging detail, i.e. sacks	
5. Give the name and depths of any oil or gas injection zone in this area:	zones underlying or overlying the proposed
Byers (Queen) @ 270' TVDSS	
Glorieta @ -1660' TVDSS	

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

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

 \square AMENDED REPORT

Phone: (505) 476-	-3460 Fax: (5)	05) 476-34	62								AIVILI	VDLD KLFOI
	A DI	Number		VELL LOCA		DACE	REAGE D	EDICATIO				
30-025				31920	ool Code	Н	OBBS; G	SRAYBUR(Pool Name G-SAN AN	NDRES	;	
<i>Propo</i> 19250	erty Code				NORTH H	Property IOBRS		IINIT			Ţ	Well Number 432
	RID No.					Operator	Name					Elevation
13730	'			(OCCIDEN'		ocation	LID.			3	630.3'
JL or lot no.	Section	To	wnship	Rang			Feet from the	North/South line	Feet from the	East/W	est line	County
I	32	18	SOUTH	38 EAST,	N. M. P. M.		1401'	SOUTH	1295'	EAS	ST	LEA
				Bottom H	ole Locati	on If I	Different l	From Surfac	e			
JL or lot no.	Section	To	wnship	Range	е	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County
Dedicated	d Acres	Joint	or Infill	Consolidation Code	Order No.							
	ahla wil	Il be ac	raigned to	this completion	until all into	roata ho	h.aa	anlidated on a				
ivision.	adie Wii	i de as	ssigned to	uns completion	unui aii inte	resis na	ve been cons	sondated of a i	non-standard	unit nas t	been app	roved by the
			1						Ol	PERATOR (CERTIFIC	ATION
									I hereby certi	ify that the inform	nation contained	d herein is true and
			1	l					complete to to	he best of my kno	nwledge and bei	lief, and that this
									organization	either owns a wo	orking interest o	or unleased mineral
			1	ı			1					ttom hole location or
												ursuant to a contract
			'				_ '		_	r of such a miner		
										oling agreement o		pooling order
			1				l I		_ <i>R</i>	tered by the divis OMi Ma	,	10/19/2023
							l .		Signature Roni M	/lathew		Date
									Printed Name	athew@	OVV COR	m
			i				_		E-mail Addre		OXY.COI	11
				ACE LOCATION MEXICO EAST			l		SUR	VEYOR CE	RTIFICAT	ION
			Y=620 X=859 LAT.: LONG.:	NAD 1927 0471.54 US FT 0471.55 US FT 0471.59 US FT 0471.003384' W 103.1657127' NAD 1983 0531.48 US FT 0368.67 US FT					I hereby c plat was made by same is tr	certiff that in plotted from ne or funder n wand correct	e well to eath field notes of my supervision of to the best	
_	_	_	LAT.:	0368.67 US FT N 32.7004520' W 103.1661973'				1295'	Date of S	JULY 2	5079 29, 202	SIRV
							1401,		Certificate	Number	?alac	8/4/2n 15079
							V				WO# 220	0729WL-b (KA)

30-025-27138 30-025-29195 025-28881W 30-025-4422830-025-44227 30-025-22421 30-025-07365 30.025-0736630-025-07383 N 30-025-1249330 025-07371 30-025-07364 30-025-0739 G/SA Unit 432 30-025-37480 30-025-0746330-025-23270 •30-025-07452 Ø 30-025-07433 30-025-07466³0-025-07469³0-025-29197 30-025-3 15-29197 NEMIS-0-025-23384 30-025-23222 N30-025-37474 NWNE 10-025-23919 10-025-23622-30-025-25621-30-025-07452-0-25-07452-0-25-07452 30-025-21964 30-025-28883 30-025-28883 30-025-07452 NENW NWNE (C) 30-025-07425 **AOR** 30-025-29064 30-025-29063 30-025-29064 30-025-29063 30-025-29063 30-025-29064 30-025-29063 30-02 L 1 30-025-371022) 30-025-353328) 30-025-37118 30-025-23375 30-025-26933 Oil and Gas Wells 30-025-07416 30-025-07418 Wells - Large Scale Miscellaneous 30-025-12494 CO2, Active CO2, Cancelled 30-025-07410 CO2, Temporarily Abandoned Gas. Cancelled Gas, Plugged 30-025-27660 30-025-27660 30-025-27660 30-025-37628 30-025-37638 30-02 Gas, Temporarily Abandoned 30-025-07506 SENE . Injection, Active (H) 30-025-0752; 30-025-07538 30-025-07544 30-025-07543 30-02 Injection, Cancelled 30,025-07552 30-025-2826830-025-34991V 30-025-2896930-025-28970 SENE (H) v 30-025-07527 30-025-07507 3639 ft 30-025-37214 NESW 30-025-0749930-025-12503 NE30-025-0 (K) (J) 30-025-4976 (30-025-48 NWS 30-025-3030830-025-38572 30-025-0755330-025-28269 (1) njection, Temporarily Abandoned \$S 37E 36 18S 38E 30-025-07500 5 30-025-28943 30-025-3653430-025-0753330-025-355340-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-0253400-025-Cancelled (P) 2 30-025-07649 30-025-07649 30-025-07649 30-025-07629 30-025-07625 30-02 , Temporarily Abandoned Salt Water Injection, Active It Water Injection, Cancelled 30-025-28334 30-025-31427 0SEME (H) (E) 30-025-3726-30-025-07610 WWW (H) (E) 30-025-07557 30-025-07610 30-025-07557 30-025-07610 10 WNE SEVE 30-025-31419 WAIN 51 WAIN alt Water Injection, New alt Water Injection, Plugged 30-025-44389 30-025-29084 30-025-20933 Salt Water Injection, Temporarily Abandoned 030-025-44612 30-025-0764430-025-0764230-025-4461130-025-44313 25-42596 30-025-42595 Water, Active 30-025-2819730-025-07646 19S 37E 30-025-07634₃₀₋₀₂₅₋₂₉₅₂₀ NESS 30-025-07621 30-025-07617 SE 30-025-07617 SE 30-025-07617 SE 30-025-29620 30-025-28982 30-025-2908230-025-34946 30-025-43096 30-025-4309730-025-43102:sw 30-025-4309730-025-43098K) Nater Cancelled (1) (1) 30-025-44312 30-025-28343 30-025-28344 30-025-28983 30-025-31429 Water, Plugged 30-025-28984 30-025-07612 30-025-07608 30-025-07611 30-025-07609 30-025-07611 30-025-07609 30-025-07611 30-025-07609 30-025-07611 30-025-07609 30-025-07611 30-02 Water, Temporarily Abandoned 30-025-44309 (N) 30-025-42592 30-025-29054 30-025-28985 -30-025-29412 30-025-07618 (N) 30-025-43104 30:025-43106 30:025-43101 NWNE (B) 30-025-28351 NENE 30-025-28352NW (A) OCD Districts and Offices 07672 3604 30-025-07676 30-025-07679 30-025-07662 30-025-07669 30-025-28355 3 **030-025-30954** OCD District Offices NWNE 30-025-31933NE L1 30-025-28356 30-025-28357 30-025-28358 (B) (A) 30-025-07670 30-025-07667 30-025-23416 30-025-23459 30-025-43107 30-025-44609 30-025-12513 30-025-07655 Public Land Survey System (G) SENV (F) 30-025-28362 30-025-28363 (E) (F) (H) PLSS Second Division 30-025-2836430-025-28365 30-025-0765130-025-07666 30-025-07675 For MSA LISCS, FIRSPOIL Conference of MSA Control of Section 1997 (Section 1997) FEReleased to Imaging: 12/19/2023 10:24526 AM

MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company: Nalco Company

Well Number: Malcomb Combs Windmill Sample Temp: 70

3/25/2013 Lease: OXY Date Sampled: Inj. #239 Sampled by: Bobby Hunt Location: 3/27/2013 Employee #: 27-022 Date Run: Lab Ref #: 13-mar-n69274 Analyzed by: GR

			Dissolved C	Gases	NA - /1	F- 14/4	MF = /1
Hydrogen Sulfid	e (H2S)				Mg/L .00	Eq. Wt. 16.00	MEq/L .00
Carbon Dioxide Dissolved Oxyge	(CO2)		NOT ANA		.00	10.00	
			Cations				
Calcium	(Ca++	•)			86.11	20.10	4.28
Magnesium	(Mg++	-)			16.88	12.20	1.38
Sodium	(Na+)				30.32	23.00	1.32
Barium	(Ba++	•)	NOT ANAL	YZED.			
Manganese	(Mn+)				.00	27.50	.00
Strontium	(Sr++)	NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)			.00	30.00	.00
BiCarbonate	(HCO3	-)			219.96	61.10	3.60
Sulfate	(SO4=)			28.00	48.80	.57
Chloride	(CI-)				100.11	35.50	2.82
Total Iron	(Fe)				0.14	18.60	.01
Total Dissolved S	Solids				481.52		
Total Hardness a	s CaCO3				284.48		
Conductivity MIC	CROMHOS/CN	1			875		
рН	7.070			Specific G	iravity 60/60	O F.	1.000
CaSO4 Solubility	@ 80 F.	18.2	22MEq/L,	CaSO4 sca	le is unlikely	,	
CaCO3 Scale Index							
70.0	830	100.0	480	130.0	.03	0	
80.0	700	110.0	240	140.0	.03	0	
90.0	480	120.0	240	150.0	.26	0	

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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 Groundwater

						Location ID:	Aldaz-1	Aldaz-1	Cochran D-1	Cochran D-1	Curtis-1	Dulin-1	IWW-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	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	77.4	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

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

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

CONDITIONS

Action 296120

CONDITIONS

Operator:	OGRID:
OCCIDENTAL PERMIAN LTD	157984
P.O. Box 4294	Action Number:
Houston, TX 772104294	296120
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

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