

AE Order Number Banner

Application Number: pMSG233255523

PMX-323

OCCIDENTAL PERMIAN LTD [157984]



Occidental Permian LTD.

A subsidiary of Occidental Petroleum Corporation

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

October 30, 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. 222; API 30-025-26934
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

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 Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: _____

ADDRESS: _____

CONTACT PARTY: _____ PHONE: _____

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? _____ Yes _____ No
If yes, give the Division order number authorizing the project: _____

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: _____ TITLE: _____

SIGNATURE: Roni Mathew DATE: _____

E-MAIL ADDRESS: _____

* 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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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. 222
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. 222
- 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 #222" 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
30-025-07430	NORTH HOBBS G/SA UNIT #221	OCCIDENTAL PERMIAN LTD	Plugged
30-025-07454	NORTH HOBBS G/SA UNIT #411	OCCIDENTAL PERMIAN LTD	Plugged
30-025-23585	HOBBS STATE #001	SABRE OP INC	Plugged
30-025-23620	HOBBS STATE #002	SABRE OP INC	Plugged

- VII. The wellbore diagrams, their tabulated data, and the area of review map are attached.
Proposed Operation
 - 1. Average Injection Rate 3,000 BWPD / 10,000 MCFGPD
Maximum Injection Rate 8,000 BWPD / 20,000 MCFGPD
 - 2. This will be a closed system.
 - 3. Average Surface Injection Pressure 1,300 PSIG
Maximum Surface Injection Pressure
 - 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 72699 Smith Irrigation and 72700 NMOCD Sprinkler and their location map are included with the application.

WATER WELL NAME	LAT	LONG	Date Collected
72699 Smith Irrigation	32°43'45.64"N	103°10'44.90"W	10/24/2013
72700 NMOCD Sprinkler	32°43'05.88"N	103°09'44.88"W	10/24/2013

- 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.

Smith Irrigation System 32°43'45.64"N 103°10'44.90"W

NM OCD Sprinklers

32°43'05.88"N 103°09'44.88"W

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OCCIDENTAL PERMIAN LTD

WELL NAME & NUMBER: North Hobbs G/SA Unit #222

WELL LOCATION: <u>1369' FNL 1851' FWL</u>	<u>F</u>	<u>29</u>	<u>18S</u>	<u>38E</u>
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

See attached

Hole Size: 12-1/4" Casing Size: 8-5/8"
 Cemented with: 950 sx. *or* _____ ft³
 Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____
 Cemented with: _____ sx. *or* _____ ft³
 Top of Cement: _____ Method Determined: _____

Production Casing

Liner1 Hole Size = 5.012"
 Liner1 Casing Size = 4.5"
 Liner1 Cmt = 50 sx
 Liner1 TOC = 3773'
 Liner1 TOC Method = Calc.
 Liner1 Top = 3773'
 Liner1 Btm = 4262'

Hole Size: 7-7/8" Casing Size: 5-1/2"
 Cemented with: 1050 (Primary Job in 1980)
425 (Remediation in 1981) sx. *or* _____ ft³
 Top of Cement: Surface Method Determined: Circulated
 Total Depth: 4510'

Injection Interval

4177' (Perforated) feet to 4350' (Perforated)

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2.875" Lining Material: Duoline

Type of Packer: 4.5" AS1-X Packer

Packer Setting Depth: 4125'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? _____ Yes X No

If no, for what purpose was the well originally drilled? Injection

2. Name of the Injection Formation: San Andres

3. Name of Field or Pool (if applicable): Hobbs; Grayburg - San Andres

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. _____

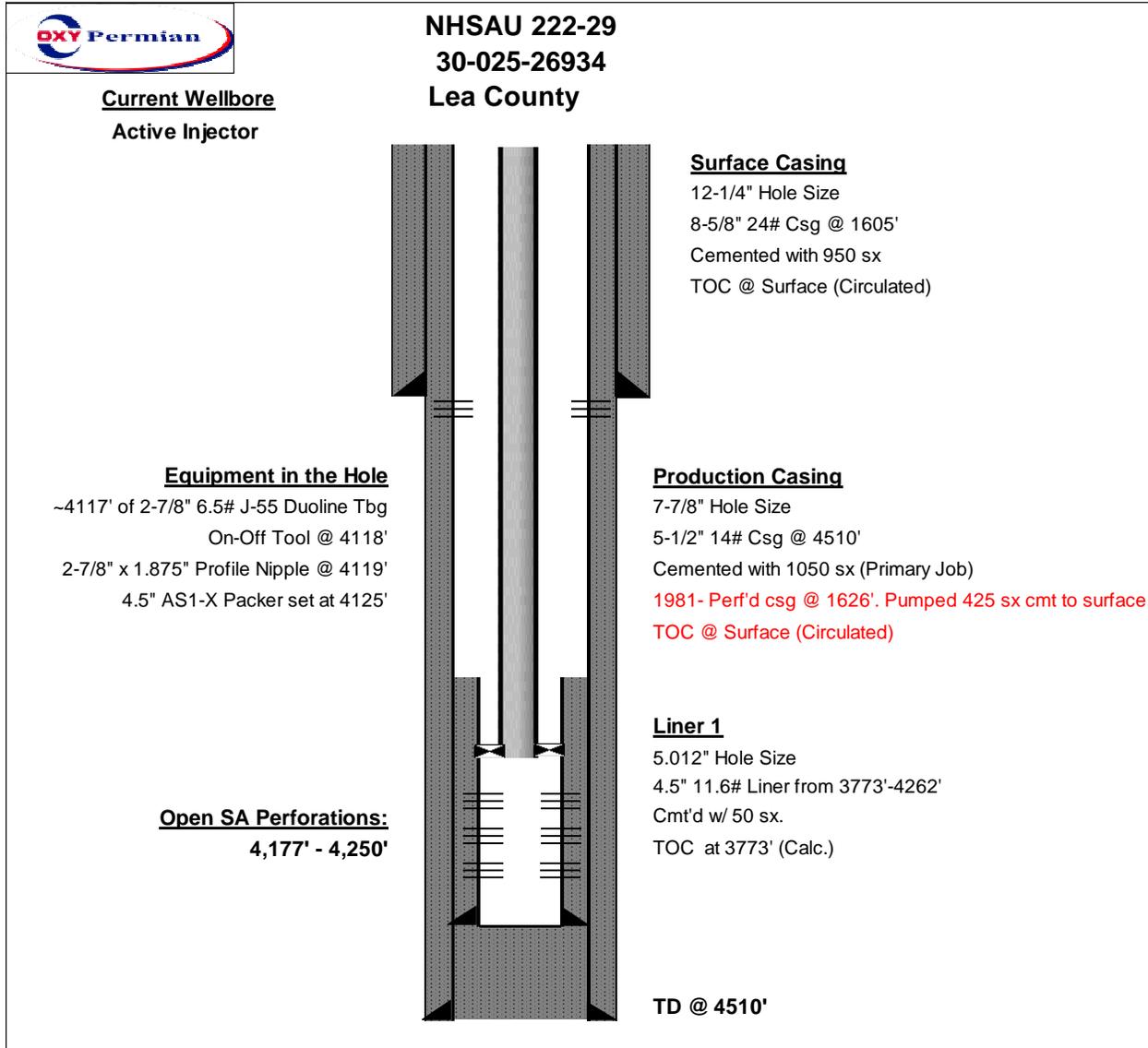
In 1981 Perf'd at 1626' & Sqz'd 425 sx cmt. Circulated cmt to surface.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

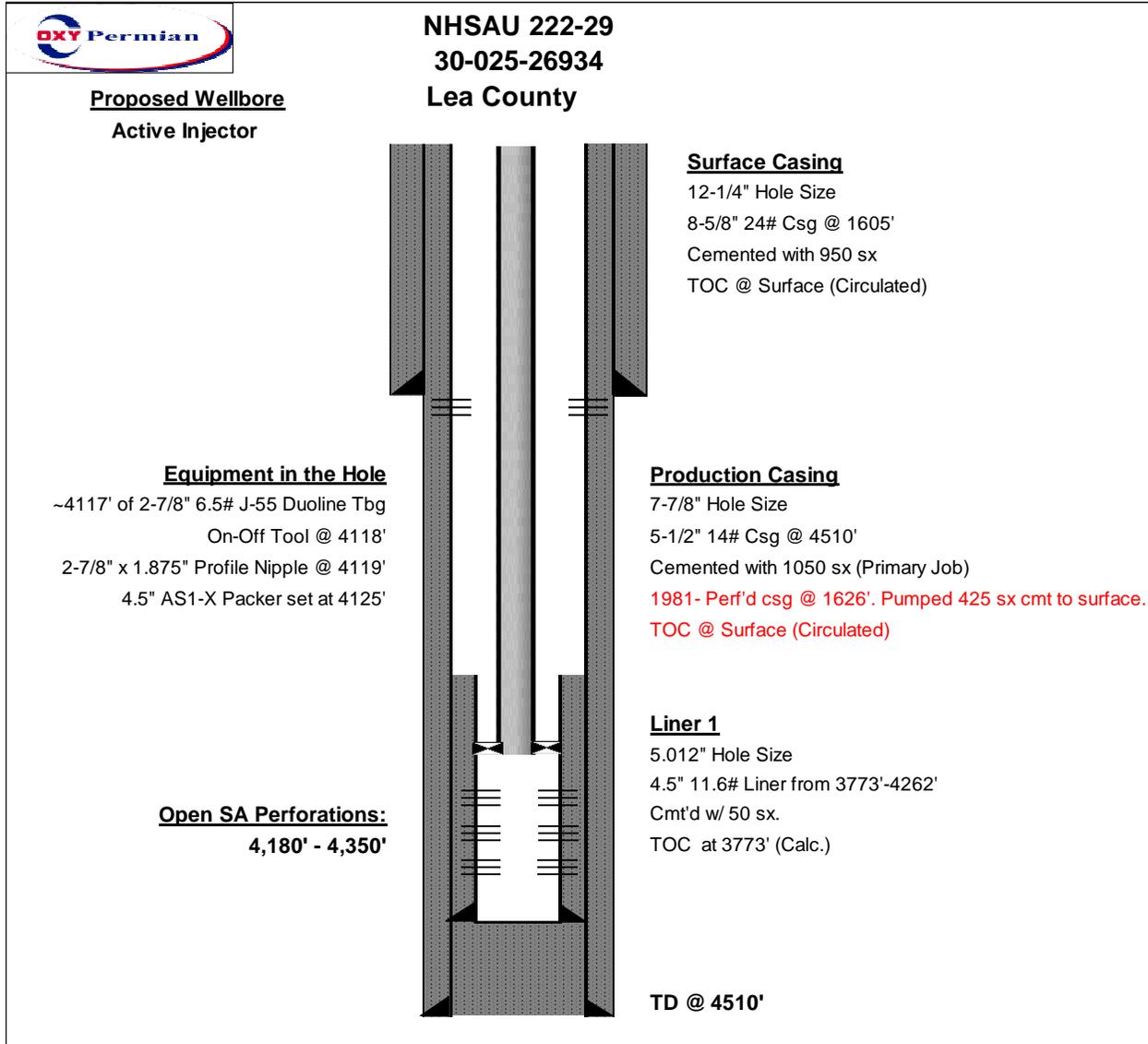
Queen @ 208' TVDSS

Glorieta @ -1777' TVDSS

Current WBD



Proposed WBD



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-26934		Pool Code 31920	Pool Name HOBBS; GRAYBURG-SAN ANDRES
Property Code 19250	Property Name NORTH HOBBS G/SA UNIT		Well Number 222
OGRID No. 157984	Operator Name OCCIDENTAL PERMIAN LTD.		Elevation 3646.1'

Surface Location

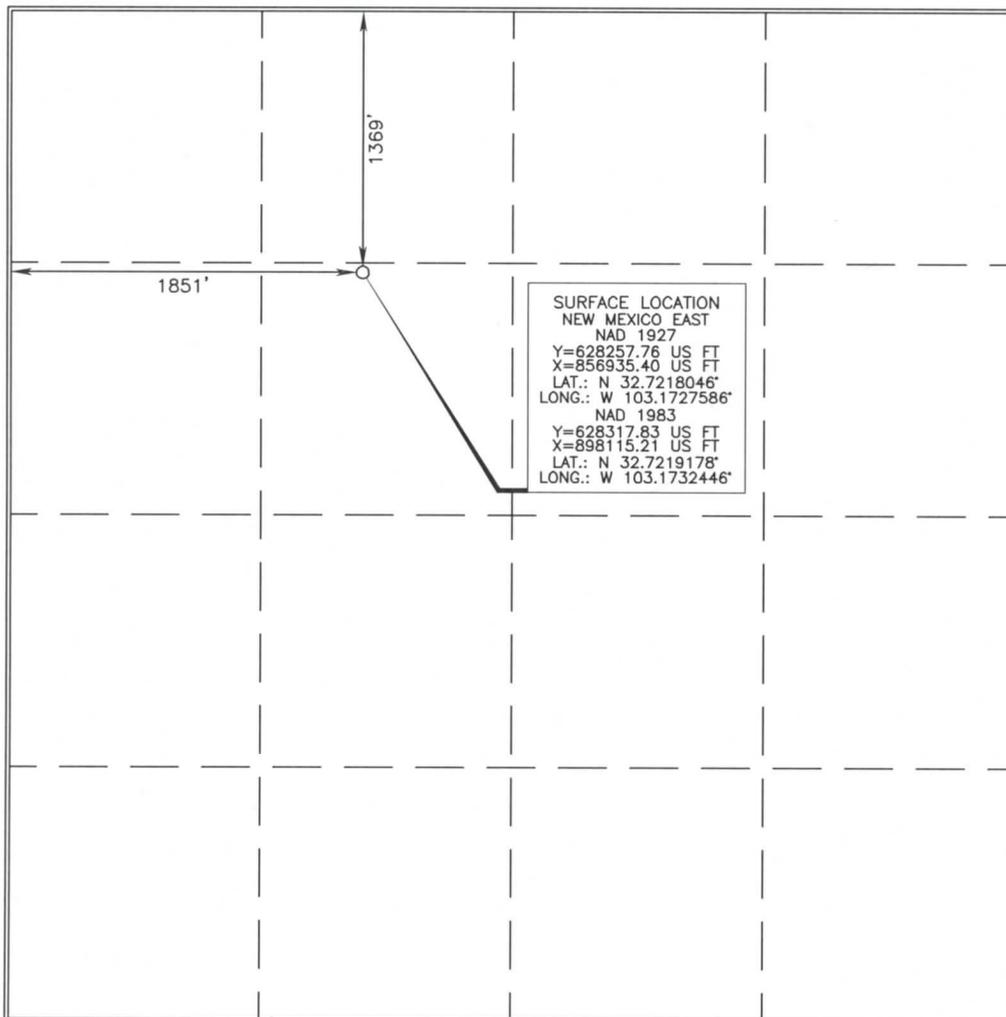
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	29	18 SOUTH	38 EAST, N.M.P.M.		1369'	NORTH	1851'	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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 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 that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Jerry J. Asel 15079
Date of Survey

Signature and Seal of Professional Surveyor

Jerry J. Asel 8/1/2022
Certificate Number 15079

WO# 220727WL-b (KA)

North Hobbs G/SA Unit 222 AOR

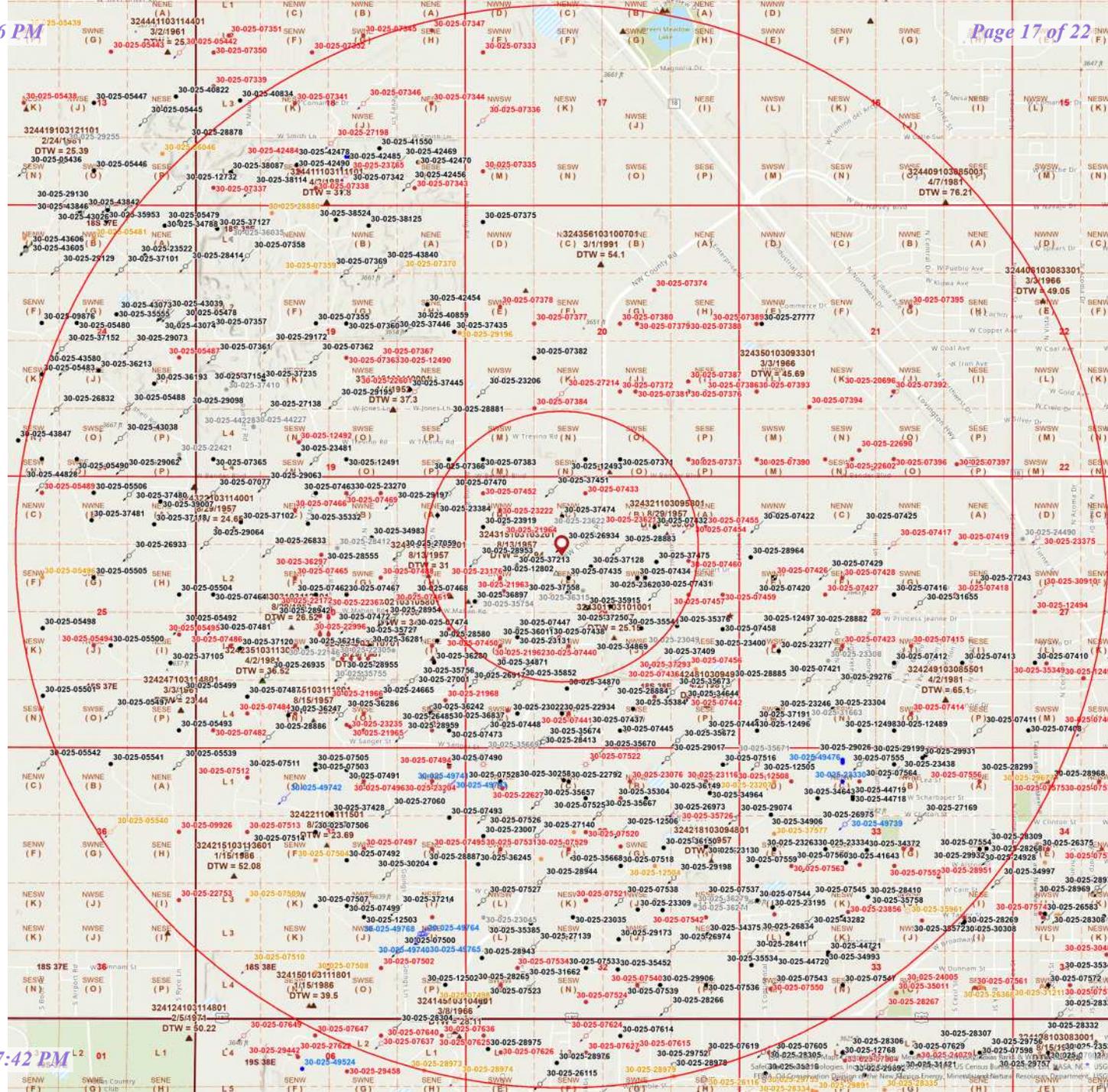
- Oil and Gas Wells**
- Wells - Large Scale
 - Miscellaneous
 - CO2, Active
 - CO2, Cancelled
 - CO2, New
 - CO2, Plugged
 - CO2, Temporarily Abandoned
 - Gas, Active
 - Gas, Cancelled
 - Gas, New
 - Gas, Plugged
 - Gas, Temporarily Abandoned
 - Injection, Active
 - Injection, Cancelled
 - Injection, New
 - Injection, Plugged
 - Injection, Temporarily Abandoned
 - Oil, Active
 - Oil, Cancelled
 - Oil, New
 - Oil, Plugged
 - Oil, Temporarily Abandoned
 - Salt Water Injection, Active
 - Salt Water Injection, Cancelled
 - Salt Water Injection, New
 - Salt Water Injection, Plugged
 - Salt Water Injection, Temporarily Abandoned
 - Water, Active
 - Water, Cancelled
 - Water, New
 - Water, Plugged
 - Water, Temporarily Abandoned
 - undefined

OCD Districts and Offices

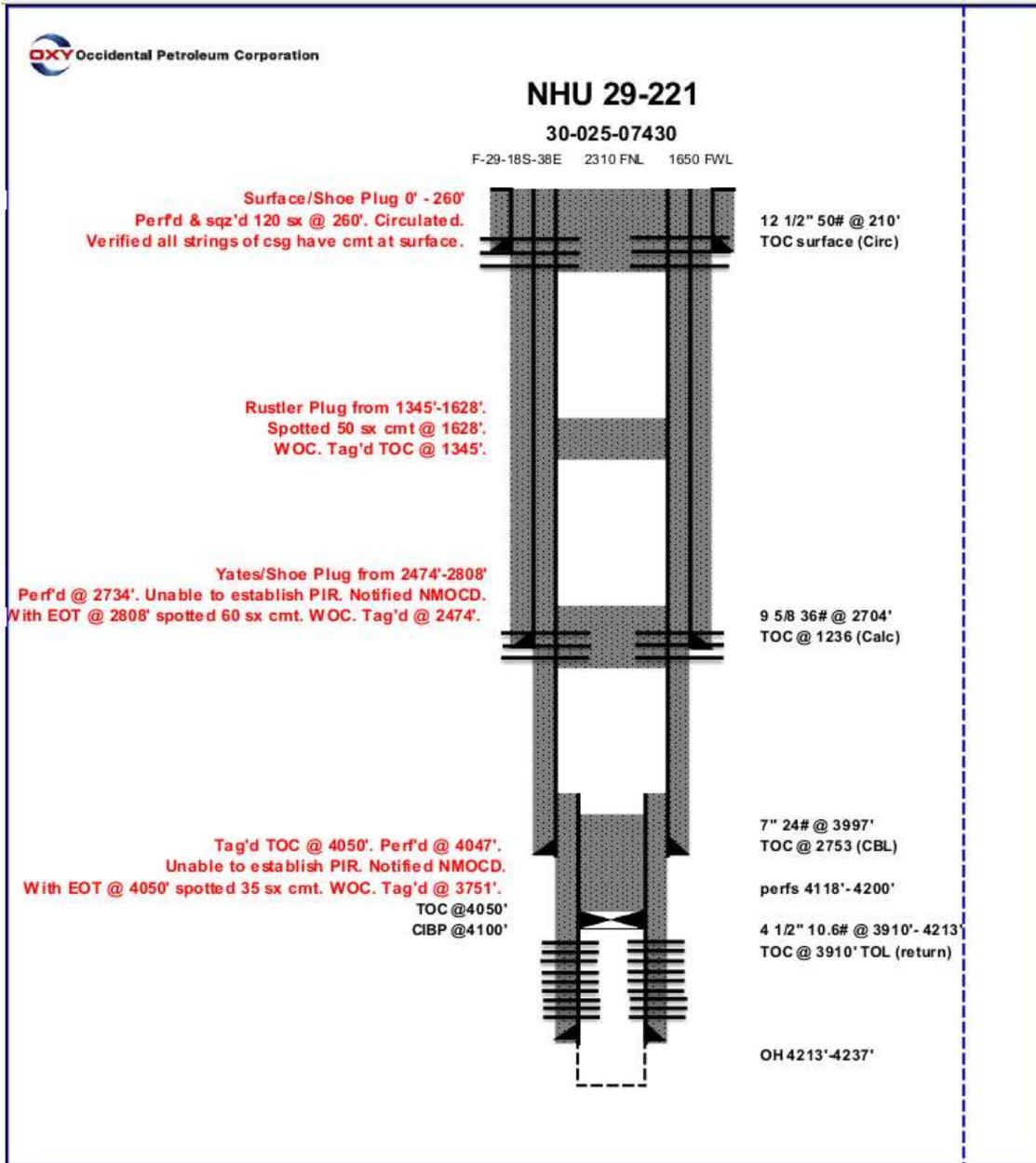
- OCD District Offices

Public Land Survey System

- PLSS Second Division



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		SET		SX. CMT. TOP (ft)	MTD.	COMPLETION	REMARKS	
																SIZE (in)	SIZE (m)	AT (ft)	CMT.					
30-025-07454	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	411	Injection	Plugged, Not Released	990	N	990	E	A	29	185	38E	8/5/1930	4335	15	12.5	245	250	Surf	Circ.	4217'-4335'	Well Plugged on 10/15/2021	
																11.25	9.625	2750	650	365				Calc.
																8.75	7	4045	300	2980				Calc.
																6.125	5.5	3941'-4217'	30	3941				Circ.

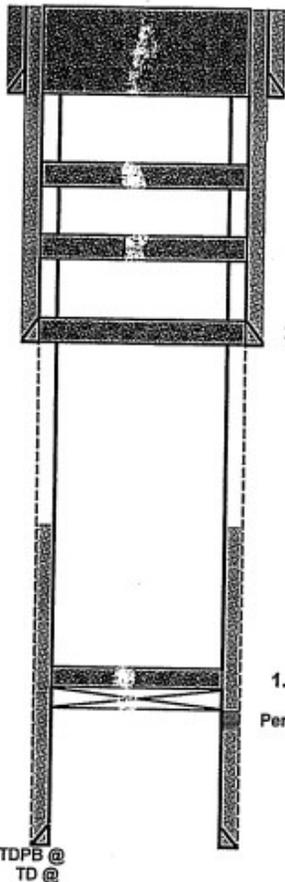


API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)
30-025-23620	SABRE OP INC	HOBBS STATE	002	Oil	Plugged, Site Released	1980	N	1830	E	G	29	18S	38E	11/7/1970	7075

HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
12.75	9.625	358	200	Surf	Circ	6318-6352	Well Plugged on 12/20/2022
8.625	7.000	3850	250	Surf	Circ	HOBBS DRINKARD	
6.75	4.500	7075	425	Surf	Circ		

Sabre Op Inc
 Author: Abby BCM
 Well Name: Hobbs State Well No. #2
 Field/Pool: Hobbs Drinkard API #: 30-025-23620
 County: Lea Location: Sec 29, T18S, R38E
 State: NM 1980 FNL & 1830 FSL
 Spud Date: 11/7/1970 GL: 3653

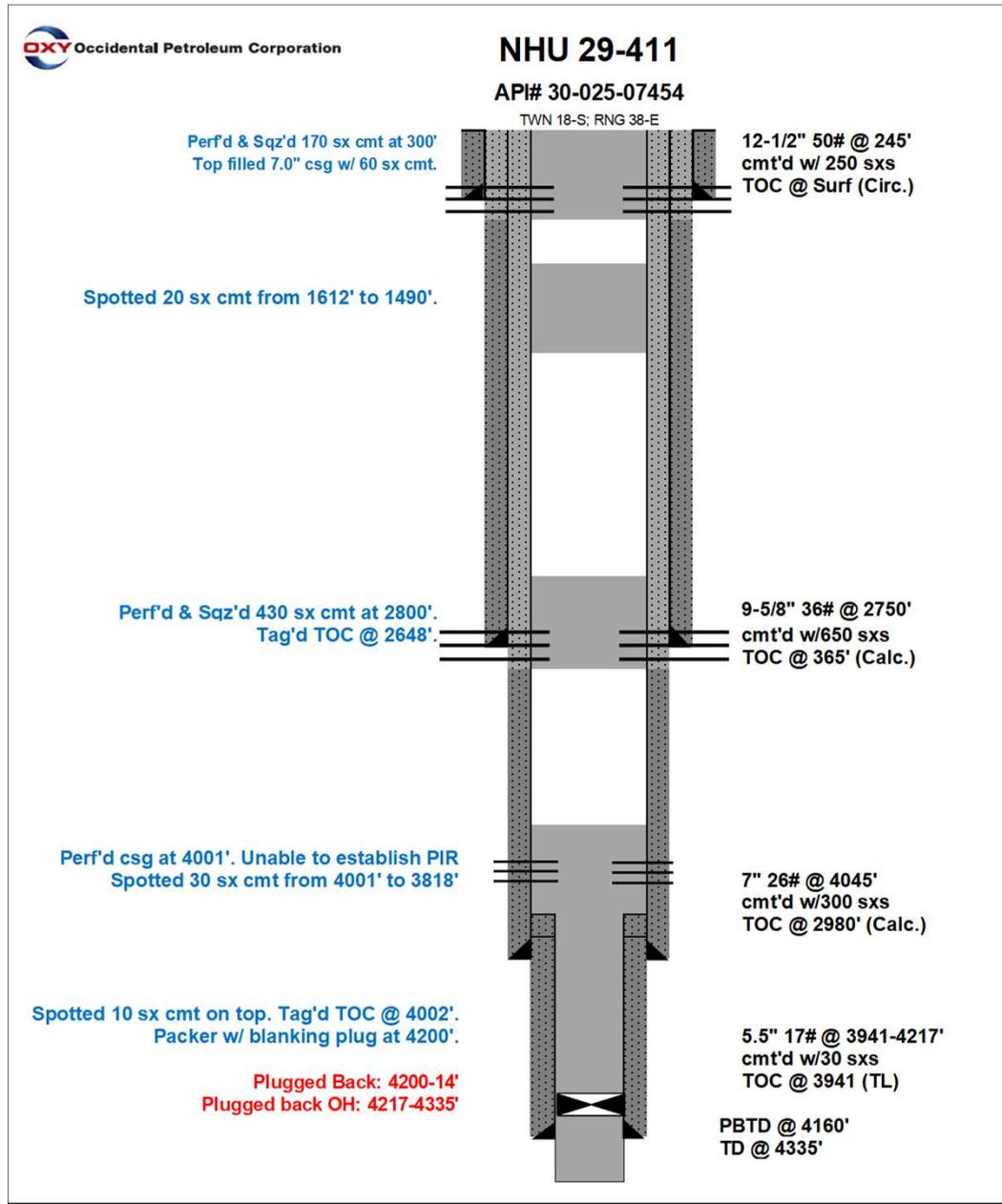
Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	9 5/8		36#	358	12 3/4	200	0
Inter Csg	7		20 & 23#	3,850	8 5/8	250	2600
Prod Csg	4 1/2		11.60#	7,075	6 3/4	425	3,839



- 9 5/8 36# CSG @ 358
- 5. Perf & Sqz 60 sx cmt @ 408' to surface. (9 5/8" Shoe)
- 4. Perf & Sqz 30 sx cmt @ 1665-1465'. WOC & Tag (T/Salt)
- 3. Perf & Sqz 30 sx cmt @ 2500-2300'. WOC & Tag (B/Salt)
- 7 20 & 23# CSG @ 3,850
- 2. Perf & Sqz 30 sx cmt @ 3900-3700'. WOC & Tag (San Andres & 7" Shoe)
- 1. Set 4 1/2 CIBP @ 6655'. Circ hole w/ MLF. Pressure test csg. Spot 25 sx cmt @ 6655-6355'.
Perfs @ 6705-7030
- 4 1/2 11.60# CSG @ 7,075

Formation Top	
Anhy	1520
T/Salt	1615
B/Salt	2450
Yates	2650
Grbg	3735
San Andre	3835
Glorieta	5371
Bilinebry	5810
Tubb	6453
Drinkard	5670

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
30-025-07454	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	411	Injection	Plugged, Not Released	990	N	990	E	A	29	18S	38E	8/5/1930	4335	15	12.5	245	250	Surf	Circ.	4217'-4335'	Well Plugged on 10/15/2021
																11.25	9.625	2750	650	365	Calc.		
																8.75	7	4045	300	2980	Calc.		
																6.125	5.5	3941'-4217'	30	3941	Circ.	GRAYBURG-SAN ANDRES	



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 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 287793

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 287793
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	11/21/2023