

AE Order Number Banner

Application Number: pMSG2404534164

PMX-351

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

January 9, 2024

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
South Hobbs Unit
Well No. 237; API 30-025-31430
Lea County, NM

Occidental Permian Ltd. respectfully requests administrative approval without hearing, to commence injection (water, CO₂, and produced gas) per the authorized Order No. R-4934-F. 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-4934-F Paragraph 3 on page 11, *"(...) Application for approval of additional injection wells in the South Hobbs Project Area shall be filed in accordance with NMAC 19.15.26.8 and may be approved administratively by the Division Director without Notice and hearing."*

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

Sincerely,

Roni Mathew

Roni Mathew
Regulatory Advisor

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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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"
 WFX PMX SWD IPI EOR PPR"

- [D] Other: Specify Additional Injector within approved project area (R-6199-G)A

[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	<i>Roni Mathew</i>	Regulatory Advisor	1/9/2024
Print or Type Name	Signature	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 Recovery Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? Yes _____ No

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? Yes _____ No
If yes, give the Division order number authorizing the project: R-4934-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:
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: Roni Mathew DATE: 1/9/2024

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: July 18, 2013 as part of Order No. R-4934-F application

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.
 South Hobbs G/SA Unit No. 237
 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 SOUTH HOBBS G/SA UNIT No. 237
- IV. This is an expansion of an existing project authorized under Order No. R-4934-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-4934-F Section 4 OCCIDENTAL PERMIAN Ltd certifies that: The area of review for well "SOUTH HOBBS G/SA UNIT #237" shows no substantive changes in the information furnished in support of Order No. R-4934-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 below:

API	Well Name	Operator	Status after Jul 2013
30-025-43101	SOUTH HOBBS G/SA UNIT #271	OCCIDENTAL PERMIAN LTD	New
30-025-43100	SOUTH HOBBS G/SA UNIT #268	OCCIDENTAL PERMIAN LTD	New
30-025-42648	SOUTH HOBBS G/SA UNIT #258	OCCIDENTAL PERMIAN LTD	New
30-025-42647	SOUTH HOBBS G/SA UNIT #256	OCCIDENTAL PERMIAN LTD	New
30-025-42646	SOUTH HOBBS G/SA UNIT #257	OCCIDENTAL PERMIAN LTD	New
30-025-42697	SOUTH HOBBS G/SA UNIT #259	OCCIDENTAL PERMIAN LTD	New
30-025-42696	SOUTH HOBBS G/SA UNIT #260	OCCIDENTAL PERMIAN LTD	New
30-025-43096	SOUTH HOBBS G/SA UNIT #264	OCCIDENTAL PERMIAN LTD	New
30-025-43097	SOUTH HOBBS G/SA UNIT #265	OCCIDENTAL PERMIAN LTD	New
30-025-43098	SOUTH HOBBS G/SA UNIT #266	OCCIDENTAL PERMIAN LTD	New
30-025-43103	SOUTH HOBBS G/SA UNIT #263	OCCIDENTAL PERMIAN LTD	New
30-025-43102	SOUTH HOBBS G/SA UNIT #261	OCCIDENTAL PERMIAN LTD	New
30-025-07601	SOUTH HOBBS G/SA UNIT #043	OCCIDENTAL PERMIAN LTD	Plugged
30-025-07610	SOUTH HOBBS G/SA UNIT #032	OCCIDENTAL PERMIAN LTD	Plugged
30-025-26980	STATE A AMOCO #038	OCCIDENTAL PERMIAN LTD	Plugged
30-025-28336	SOUTH HOBBS G/SA UNIT #132	OCCIDENTAL PERMIAN LTD	Plugged
30-025-28338	SOUTH HOBBS G/SA UNIT #135	OCCIDENTAL PERMIAN LTD	Plugged

The wellbore diagrams and tabulated well data is attached.

- VII. Proposed Operation
 - 1. Average Injection Rate 4,000 BWPD / 15,000 MCFGPD
 Maximum Injection Rate 9,000 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 1,770 PSIG
 (In accordance with Order No. R-4934-F, effective 7/18/13)

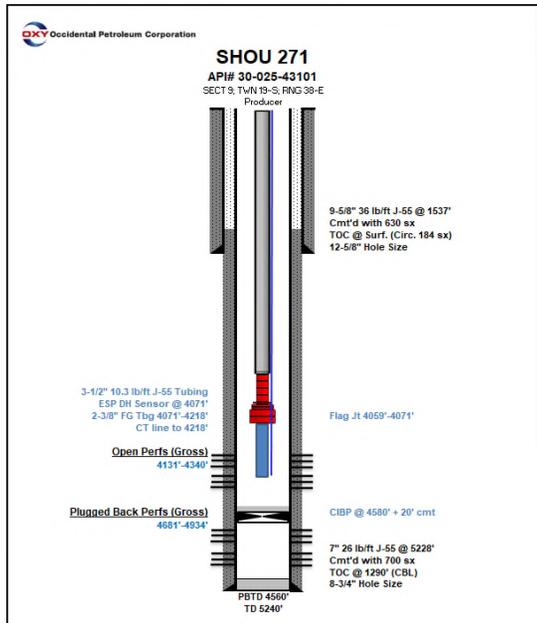
4. Source Water – San Andres Produced Water (Analysis previously provided at hearing, Case No. 14981)

- VIII. The information was previously submitted as part of Order No. R-4934-F application
- IX. Acid stimulate well with ~4,000 gal 15% HCL. Max rate = 4-5 BPM. Flush acid with ~200 bbls of fresh water.
- X. Logs were filed at the time of drilling.
- XI. As noted in the table below, there is 1 freshwater well within 1 mile of the subject well. The location is noted below and the chemical water analysis is attached.

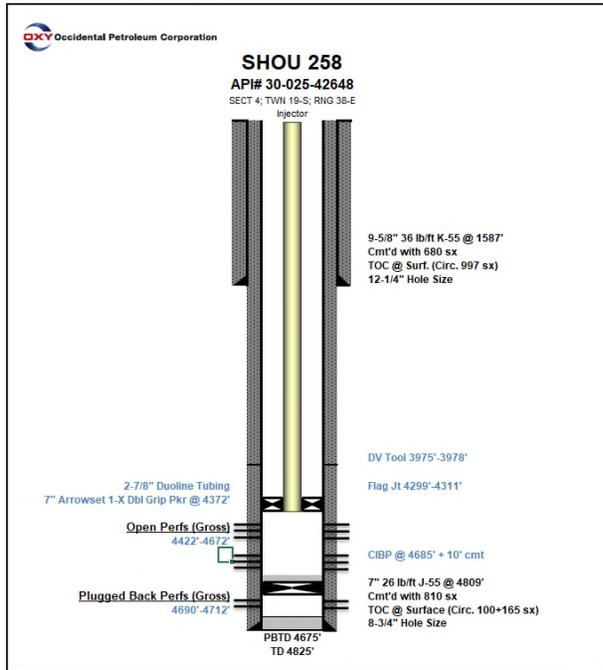
Water Well Name	Lat	Long	Date Collected
Malcomb Combs Windmill	32.687093°	-103.164285°	3/25/2013

- XII. N/A. This is a pressure maintenance project, not a disposal well.
- XIII. Order No. R-4934-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-4934-F.

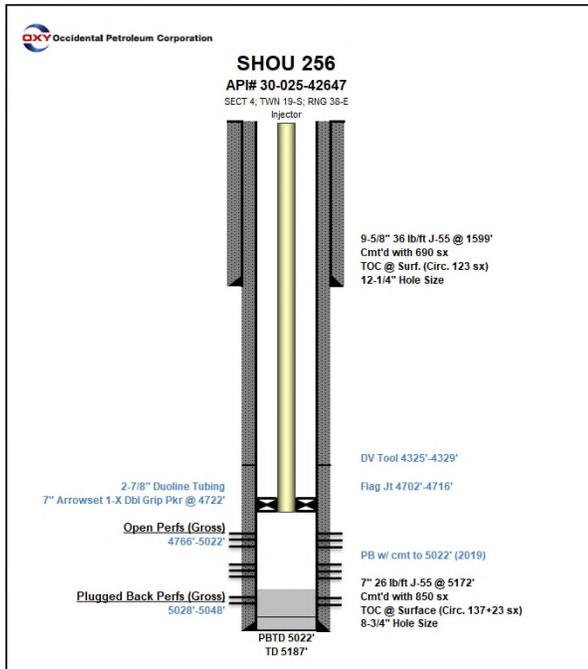
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-43101	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	271	Oil	Active	180	N	1890	W	C	9	19S	38E	5/16/2016	5237	12.625	9.625	1537	630	0	Circ. CBL	4131'-4340' GRAYBURG-SAN ANDRES	



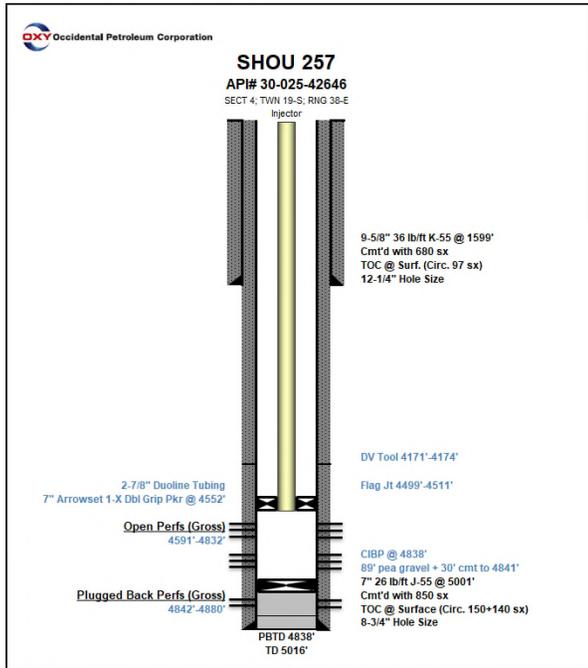
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-42648	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	258	Injection	Active	2188	S	557	E	I	4	19S	38E	9/15/2015	4401	12.25 8.75	9.625 7	1587 4809	680 810	0 0	Circ. Circ.	4422'-4672' GRAYBURG-SAN ANDRES	



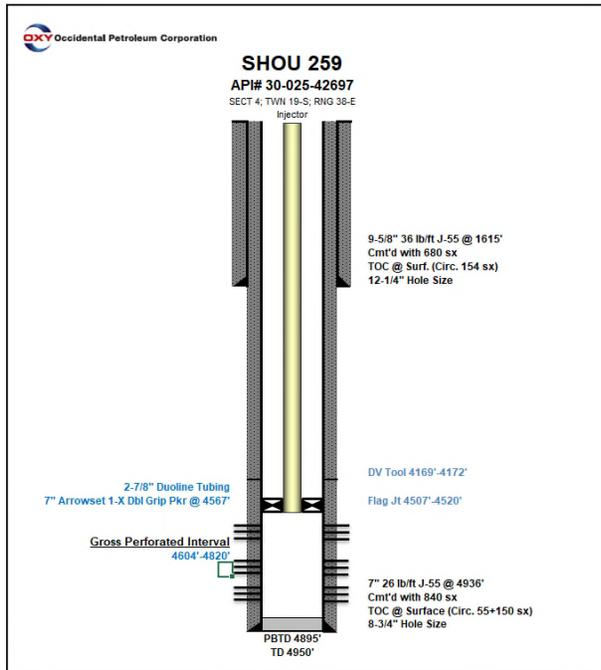
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-42647	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	256	Oil	New	2188	S	657	E	I	4	19S	38E	9/3/2015	4411	12.25 8.75	9.625 7	1599 5172	690 850	0 0	Circ. Circ.	4766'-5022'	GRAYBURG-SAN ANDRES



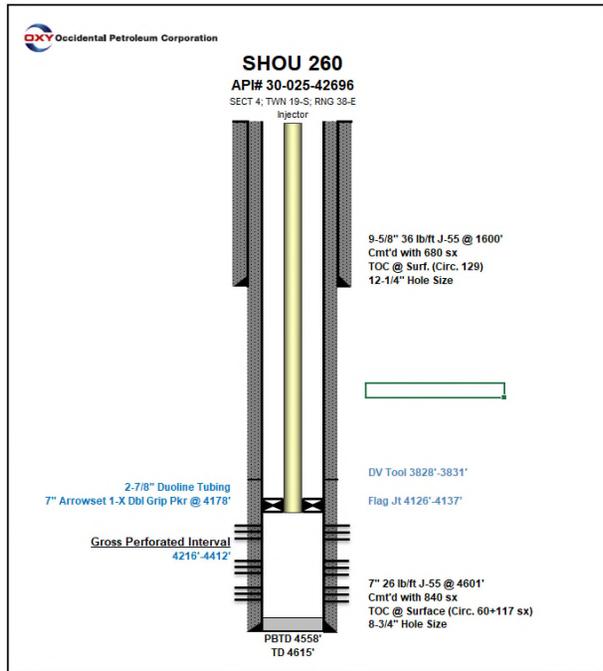
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30-025-42646	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	257	Injection	New	2188	S	607	E	I	4	19S	38E	9/9/2015	4418	12.25	9.625	1599	680	0	Circ.	4591'-4832'	
																					GRAYBURG-SAN ANDRES		



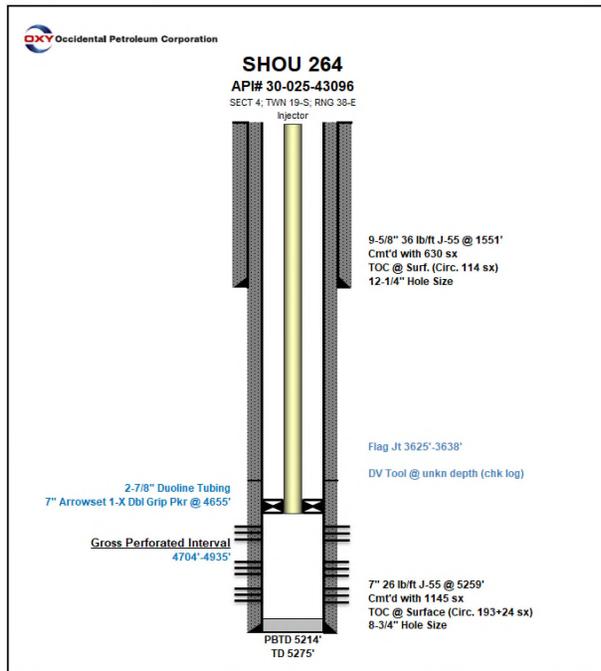
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30-025-42697	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	259	Injection	New	2018	S	557	E	I	4	19S	38E	9/19/2015	4413	12.25 8.75	9.625 7	1615 4936	680 840	0 0	Circ. Circ.	4604'-4820'	GRAYBURG-SAN ANDRES



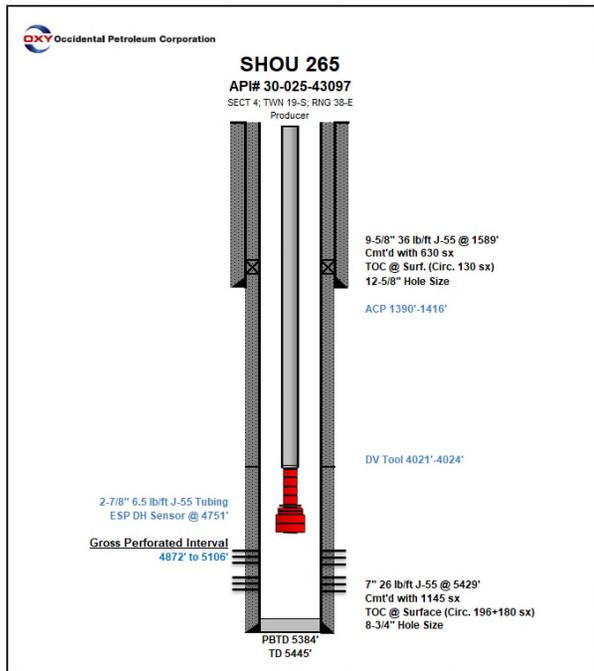
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30-025-42696	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	260	Injection	New	2018	S	607	E	I	4	19S	38E	9/24/2015	4509	12.25 8.75	9.625 7	1600 4601	680 840	0 0	Circ. Circ.	4216'-4412'	GRAYBURG-SAN ANDRES



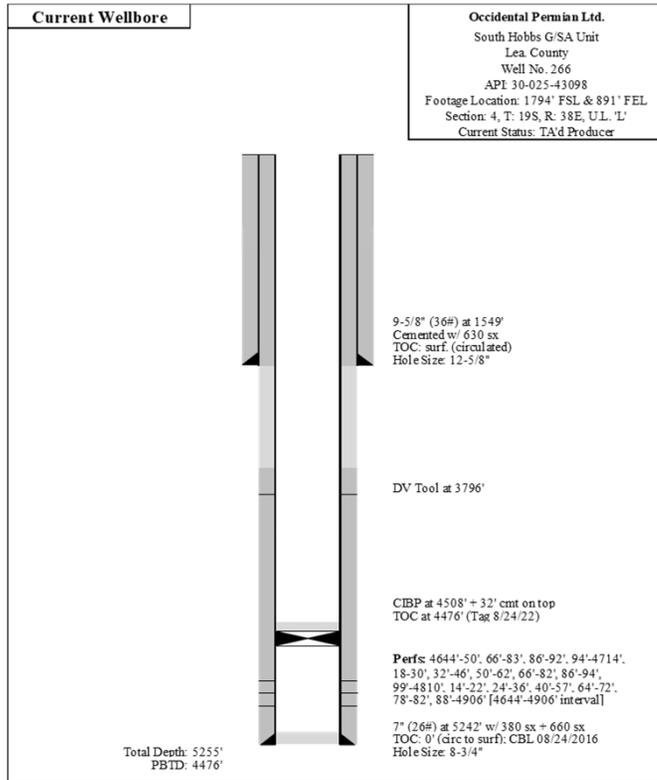
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30-025-43096	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	264	Injection	Active	1967	S	929	W	L	4	19S	38E	5/31/2016	5222	12.625 8.75	9.625 7	1551 5259	630 1145	0 0	Circ. Circ.	4704'-4935'	GRAYBURG-SAN ANDRES



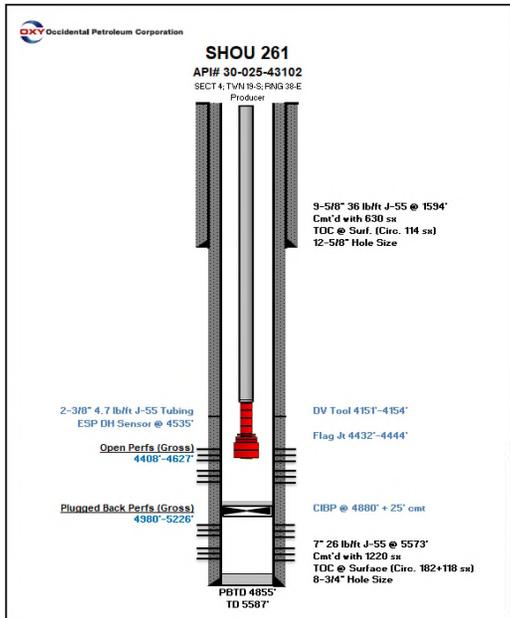
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30-025-43097	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	265	Oil	Active	1791	S	841	W	L	31	19S	38E	6/5/2016	5228	12.625 8.75	9.625 7	1589 5429	630 1145	0 0	Circ. Circ.	4872'-5106'	GRAYBURG-SAN ANDRES



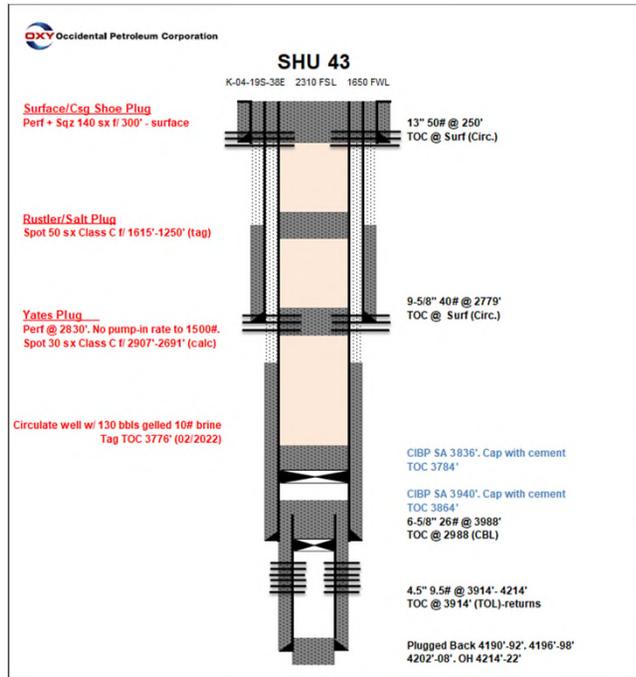
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30-025-43098	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	266	Oil	Temporary Abandonment	1794	S	891	W	L	4	19S	38E	6/9/2016	5243	12.625 8.75	9.625 7	1549 5242	630 1040	0 0	Circ. Circ.	NA GRAYBURG-SAN ANDRES	



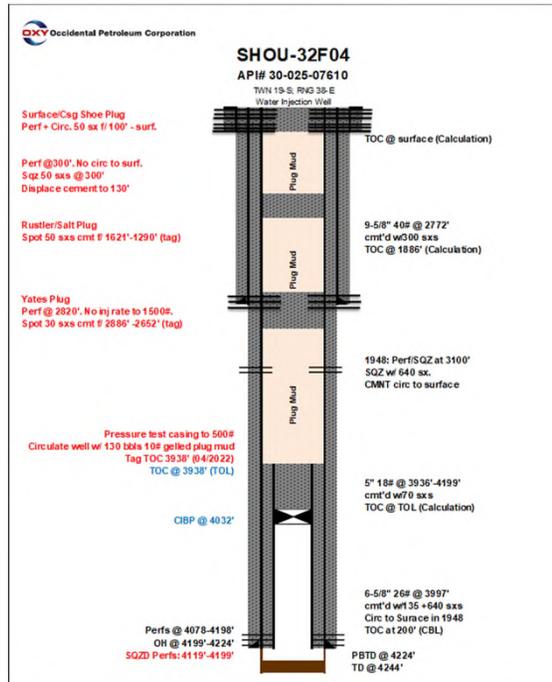
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-43102	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	261	Oil	Active	1964	S	879	E	L	4	19S	38E	5/25/2016	5242	12.625 8.75	9.625 7	1594 5573	630 1220	0 0	Circ. Circ.	4408'-4627'	GRAYBURG-SAN ANDRES



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
30-025-07601	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	43	Injection	Plugged, Not Released	2310	S	1650	W	K	4	19S	38E	6/21/1930	4225	16 est.	13	250	150	0	Calc.	NA	
																12.25 est	9.625	2779	300	1514	Calc.		
																8.75 est	6.625	3988	200	2988	CBL		
																6	4.5	3914-4214	90	3914 TOL	Circ.	GRAYBURG-SAN ANDRES	



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
30-025-07610	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	32	Injection	Plugged, Not Released	1980	N	1980	W	F	4	19S	38E	7/10/1930	4244	16 est. 12.25 est 8.75 est 6	13 9.625 6.625 5	253 2772 3997 3996-4199	80 300 775 75	0 1886 200 3996 (TOL)	Calc Calc CBL Calc	NA GRAYBURG-SAN ANDRES	



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
30-025-26980	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	38	Gas	Plugged, Not Released	1880	S	1730	E	J	4	19S	38E	10/27/1980	3750	12.25 8.75	9.625 7	408 3750	350 1042	0 0	Circ. Circ.	NA GRAYBURG-SAN ANDRES	



ST A 38-J0B4

30-025-26980

Lea County

12-1/4" Hole Size
9-5/8" 36# @ 408'
Cemented with 350 sxs.
TOC @ Surface (Circ. 25 sx)

Current Wellbore
P&A'd Producer

Surface Csg Plug 0' - 510'

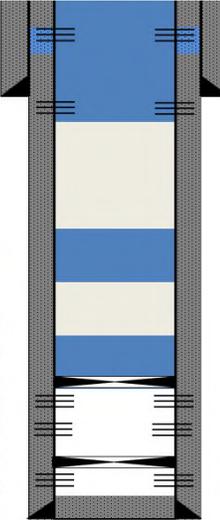
Perforate 7" csg at 458'. Cannot est. inj rate. Perforate 7" csg at 100'. Est. rate w/ 2 bpm at 800 psi but no circulation to surface. Circulate 60 sx Class C w/ EOT at 510'. NU Capflange & Sqz 100 sx Class C into perfs at 100'. ND capflange and verify cmt at surface.

Spot 30 sx Class C f/ 1627'-1473' (Tag)

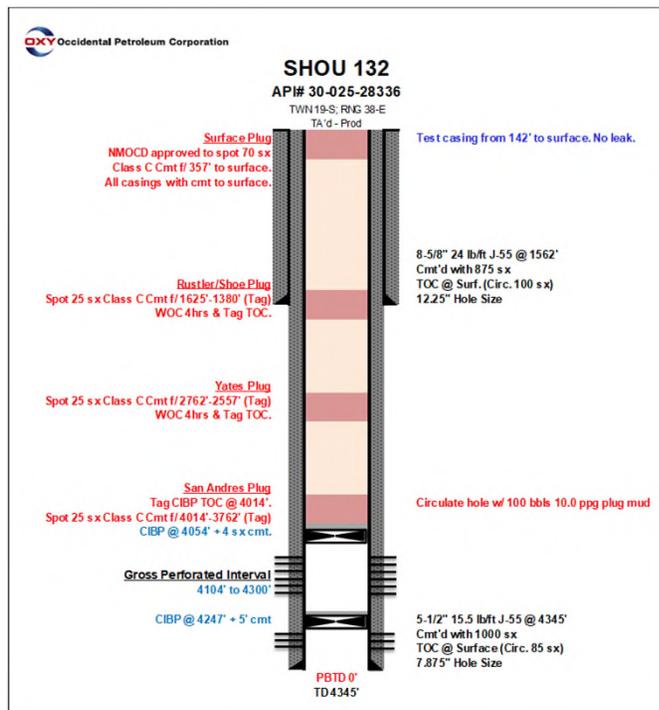
Spot 30 sx Class C Cmt f/ 2601'-2442' (Tag)
Tag CIBP 2601'. Circulate 10# gelled plug mud
CIBP @ 2600'

Perforations
2711'-3260'
CIBP @ 3506'
Perforations
3719'-3723'

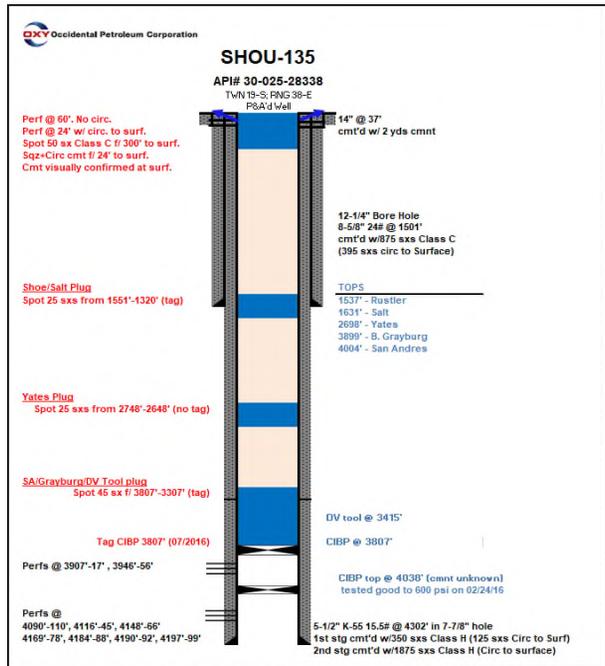
8-3/4" Hole Size
7.0" 20# @ 3,750'
Cemented with 1042 sxs
TOC @ Surface (Circ. 50 sx)



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
30-025-28336	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	132	Oil	Plugged, Not Released	1790	N	1185	E	H	4	19S	38E	12/1/1983	4345	12.25 7.875	9.625 5.5	1562 4345	875 1000	0 0	Circ. Circ.	NA GRAYBURG-SAN ANDRES	



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
30-025-28338	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	135	Oil	Plugged, Not Released	2558	N	1353	W	F	4	19S	38E	10/29/1983	4302	12.25 7.875	8.625 5.5	1501 4302	875 2225	0 0	Circ. Circ.	NA GRAYBURG-SAN ANDRES	



Side 1

INJECTION WELL DATA SHEET

OPERATOR: Occidental Permian LTD.

WELL NAME & NUMBER: SOUTH HOBBS G/SA UNIT #237

WELL LOCATION: 1300 FSL / 1910 FEL O 4 19S 38E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 14.75" Casing Size: 10-3/4"
Cemented with: 1100 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

Hole Size: 9.875" Casing Size: 7.0"
Cemented with: 1500 sx. *or* _____ ft³
Top of Cement: Surface Method Determined: Circulated
Total Depth: 4298 ft MD

Injection Interval

~4050' MD/TVD (Perforated) _____ feet to ~4298' MD/TVD (Perforated) _____

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" _____ Lining Material: IPC _____

Type of Packer: 7" AS1-X Packer _____

Packer Setting Depth: Approx. 4000' MD / TVD

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? Oil Production _____

2. Name of the Injection Formation: San Andres _____

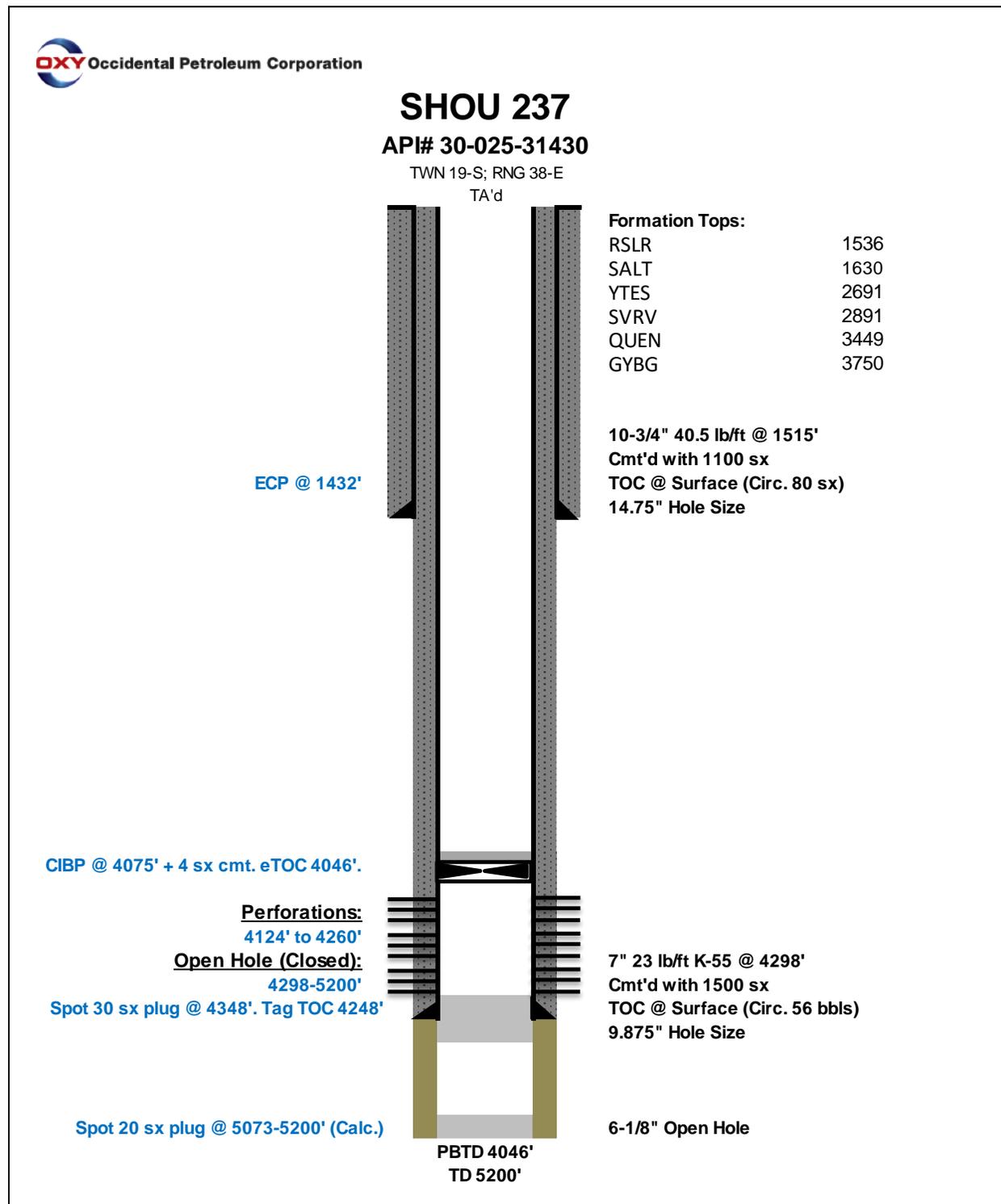
3. Name of Field or Pool (if applicable): Hobbs; Grayburg - San Andres _____

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. No _____

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

Glorieta @ -1735 ft TVDSS

Current WBD



Proposed WBD



SHOU 237

API# 30-025-31430

TWN 19-S; RNG 38-E

Active Injector

Formation Tops:

RSLR	1536
SALT	1630
YTES	2691
SVRV	2891
QUEN	3449
GYBG	3750

10-3/4" 40.5 lb/ft @ 1515'

Cmt'd with 1100 sx

TOC @ Surface (Circ. 80 sx)

14.75" Hole Size

ECP @ 1432'

2-7/8" IPC Tbg
7" ASI-X Pkr Set ~4000'

Perforations:
~4050' to 4298'
Open Hole (Closed):
4298-5200'

Cmt plug 4298'-4348'

7" 23 lb/ft K-55 @ 4298'

Cmt'd with 1500 sx

TOC @ Surface (Circ. 56 bbls)

9.875" Hole Size

Spot 20 sx plug @ 5073-5200' (Calc.)

6-1/8" Open Hole

PBTD 4298'
TD 5200'

SHU-237 Convert-to-Injector Job Plan:

1. PU & RIH w/ bit.
2. DO CIBP @ 4075'.
3. CO to current PBTB 4248'.
4. DO cmt to new PBTB 4298'.
5. Perforate injection interval ~4050'-4298'.
6. Acid Treat perfs w/ ~4000 gal 15% HCl.
7. RIH w/ injection pkr set ~4000'. Install IPC tubing.
8. Return to injection as **sour** WAG injector.

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
 Odessa, Texas 79765-8538
 561-5579

Company: **Nalco Company**

Well Number:	Malcomb Combs Windmill	Sample Temp:	70
Lease:	OXY	Date Sampled:	3/25/2013
Location:	Inj. #239	Sampled by:	Bobby Hunt
Date Run:	3/27/2013	Employee #:	27-022
Lab Ref #:	13-mar-n69274	Analyzed by:	GR

Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)	.00	16.00	.00
Carbon Dioxide	(CO2)	NOT ANALYZED		
Dissolved Oxygen	(O2)	NOT ANALYZED		

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 ANALYZED		
Manganese	(Mn+)	.00	27.50	.00
Strontium	(Sr++)	NOT ANALYZED		

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	(Cl-)	100.11	35.50	2.82
Total Iron	(Fe)	0.14	18.60	.01
Total Dissolved Solids		481.52		
Total Hardness as CaCO3		284.48		
Conductivity MICROMHOS/CM		875		

pH 7.070 Specific Gravity 60/60 F. 1.000

CaSO4 Solubility @ 80 F. 18.22MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	-.830	100.0	-.480	130.0	.030
80.0	-.700	110.0	-.240	140.0	.030
90.0	-.480	120.0	-.240	150.0	.260

Nalco Company

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

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

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

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

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

CONDITIONS
 Action 314256

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 314256
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	2/14/2024