

## **AE Order Number Banner**

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**Application Number: pMSG2334952281**

**PMX-335**

**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

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. 422; API 30-025-29074  
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](mailto: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  
 Print or Type Name

Roni Mathew  
 Signature

Regulatory Advisor  
 Title

10/19/2023  
 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-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:
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: 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

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.

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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. 422  
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. 422
- 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 #422" 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
30-025-12504	NORTH HOBBS G/SA UNIT #532	OCCIDENTAL PERMIAN LTD	Plugged
30-025-23116	STATE A #005	Contango Resources, LLC	Plugged
30-025-07542	STATE LAND SECTION 32 #008	OXY USA INC	Plugged
30-025-23252	STATE 1-29 #006	TEXLAND PETROLEUM-HOBBS, LLC	Plugged
30-025-41578	NORTH HOBBS G/SA UNIT #948	OCCIDENTAL PERMIAN LTD	Active
30-025-41643	NORTH HOBBS G/SA UNIT #949	OCCIDENTAL PERMIAN LTD	Active
30-025-44719	NORTH HOBBS G/SA UNIT #695	OCCIDENTAL PERMIAN LTD	Active
30-025-44718	NORTH HOBBS G/SA UNIT #694	OCCIDENTAL PERMIAN LTD	Active
30-025-49739	NORTH HOBBS G/SA UNIT #965	OCCIDENTAL PERMIAN LTD	New
30-025-49476	NORTH HOBBS G/SA UNIT #963	OCCIDENTAL PERMIAN LTD	Active
30-025-49477	NORTH HOBBS G/SA UNIT #964	OCCIDENTAL PERMIAN LTD	Active
30-025-49475	NORTH HOBBS G/SA UNIT #962	OCCIDENTAL PERMIAN LTD	Active
30-025-49478	NORTH HOBBS G/SA UNIT #967	OCCIDENTAL PERMIAN LTD	Active
30-025-43282	NORTH HOBBS G/SA UNIT #693	OCCIDENTAL PERMIAN LTD	Active

- 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

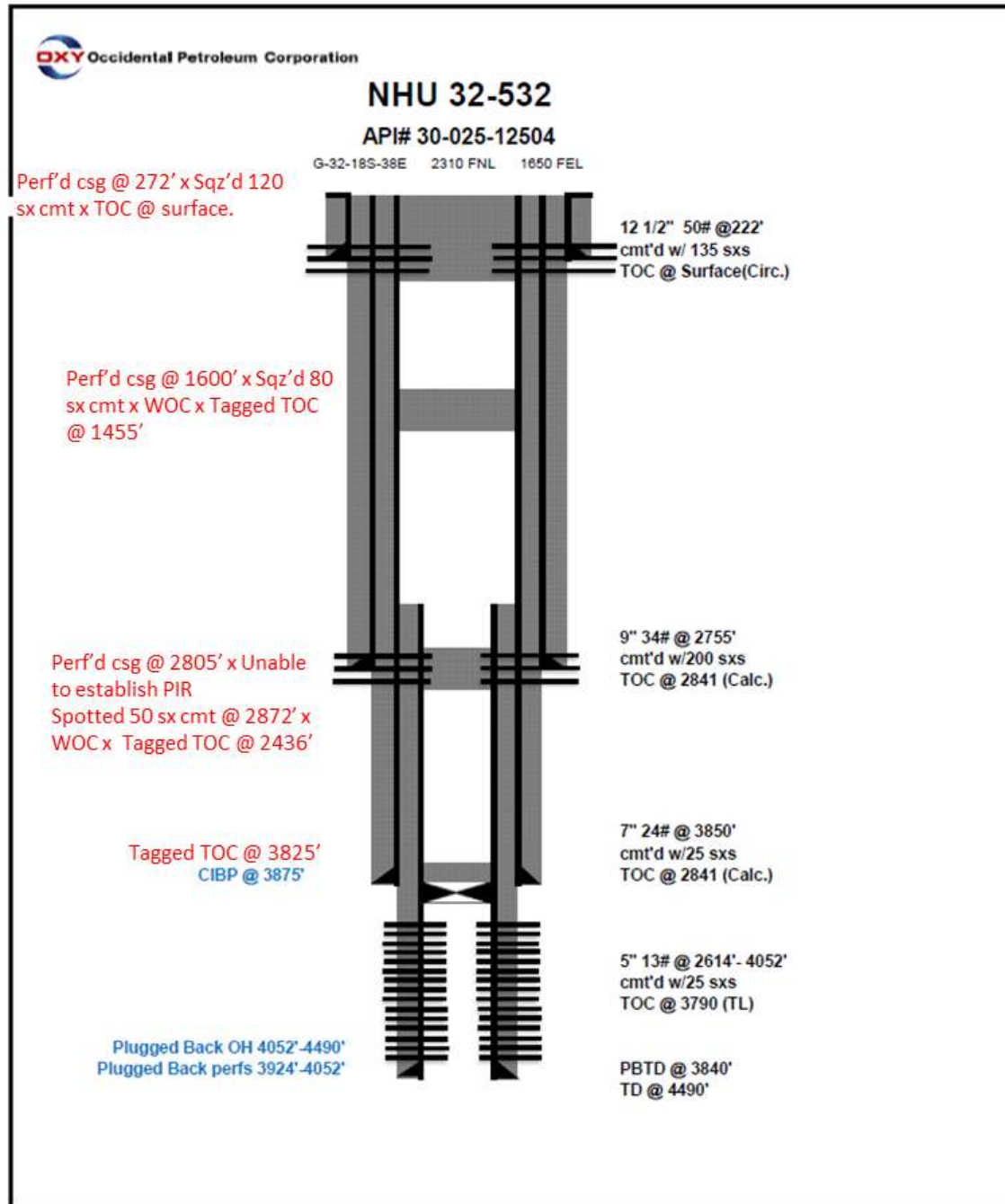
(Analysis previously provided at hearing, Case No. 14981)

- 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. Per our field personnel, there is only 1 water well located within 1 mile of the subject well. Water analysis from 72700 NMOCD Sprinkler and a location map are included with the application.

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

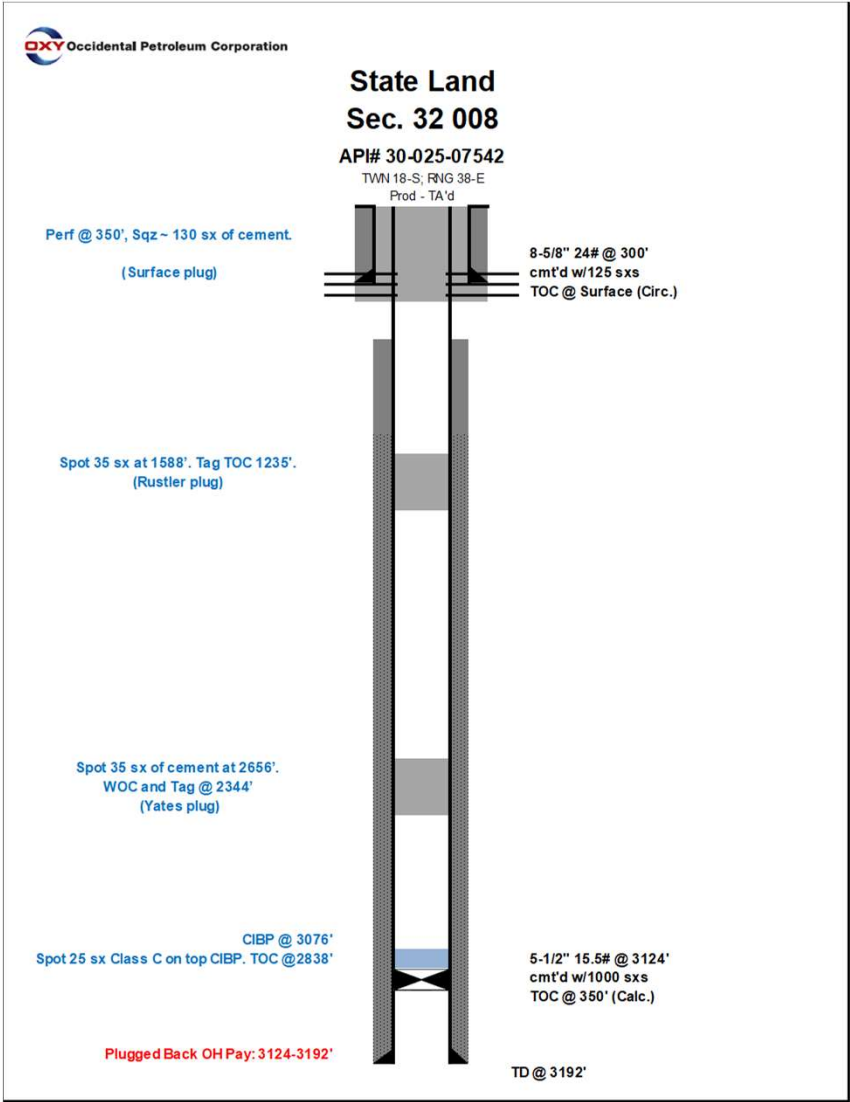
- XII. N/A. This is a pressure maintenance project, not a disposal well.
- XIII. Order No. R-6199-F allows the administrative approval, from the Division Director, of additional injection wells without notice and hearing. Notices to producers and surface owners for the water/CO2 flood area were provided at the time of the application and hearing for Order No. R-6199-F.

API NUMBER	OPERATOR	LEASE	WELL NO.	WELL TYPE	STATUS	FTG.	N/S	FTG.	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
		NAME				N/S		E/W															
30-025-12504	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	532	Oil	Plugged, Not Released	2310	N	1650	E	G	32	185	38E	11021	4490	12.250	10.250	222	135	Surf	Circ	4052'-4490' HOBBS; GRAYBURG-SAN ANDRES	Well Plugged on 05/26/2022
																9.000	8.625	2755	200	2841	Calc		
																7.000	5.500	3850	25	2841	Calc		
																	5.000	4052	25	3790	TL		

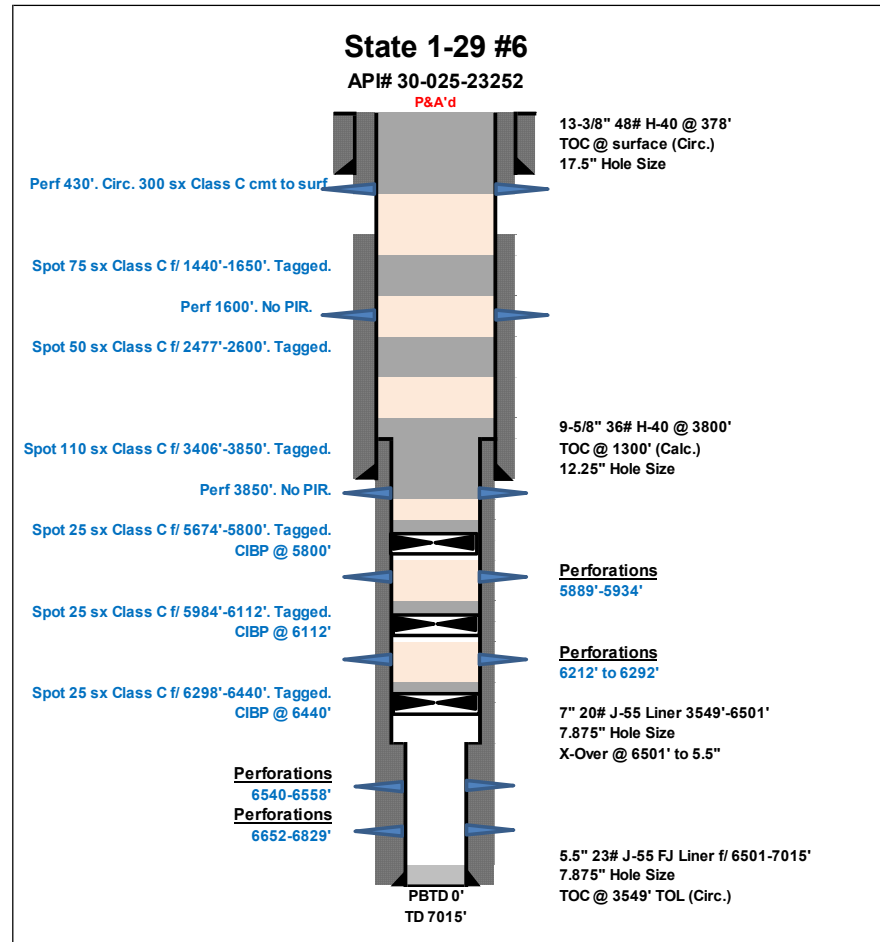




API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-07542	OXY USA INC	STATE LAND SECTION 32	008	Oil	Plugged, Site Released	1980	S	660	E	I	32	185	38E	7/1/1945	3192	11 7.875	8.625 5.5	300 3124	125 1000	Surf 350	Circ Calc	3124'-3192' BOWERS; SEVEN RIVERS	Well Plugged on 09/14/2021



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
30-025-23252	TEXLAND PETROLEUM-HOBBS, LLC	STATE 1-29	006	Oil	Plugged, Site Released	330	S	660	E	P	29	18S	38E	8/22/1969	7015	17.5 12.25 7.875	13.375 9.625 7 x 5-1/2	378 3800 3549-7015	400 600 700	Surf 1300 3549	Circ Calc Circ	6540'-6829'	Well Plugged on 07/19/2021
																							HOBBS; UPPER BLINEBRY



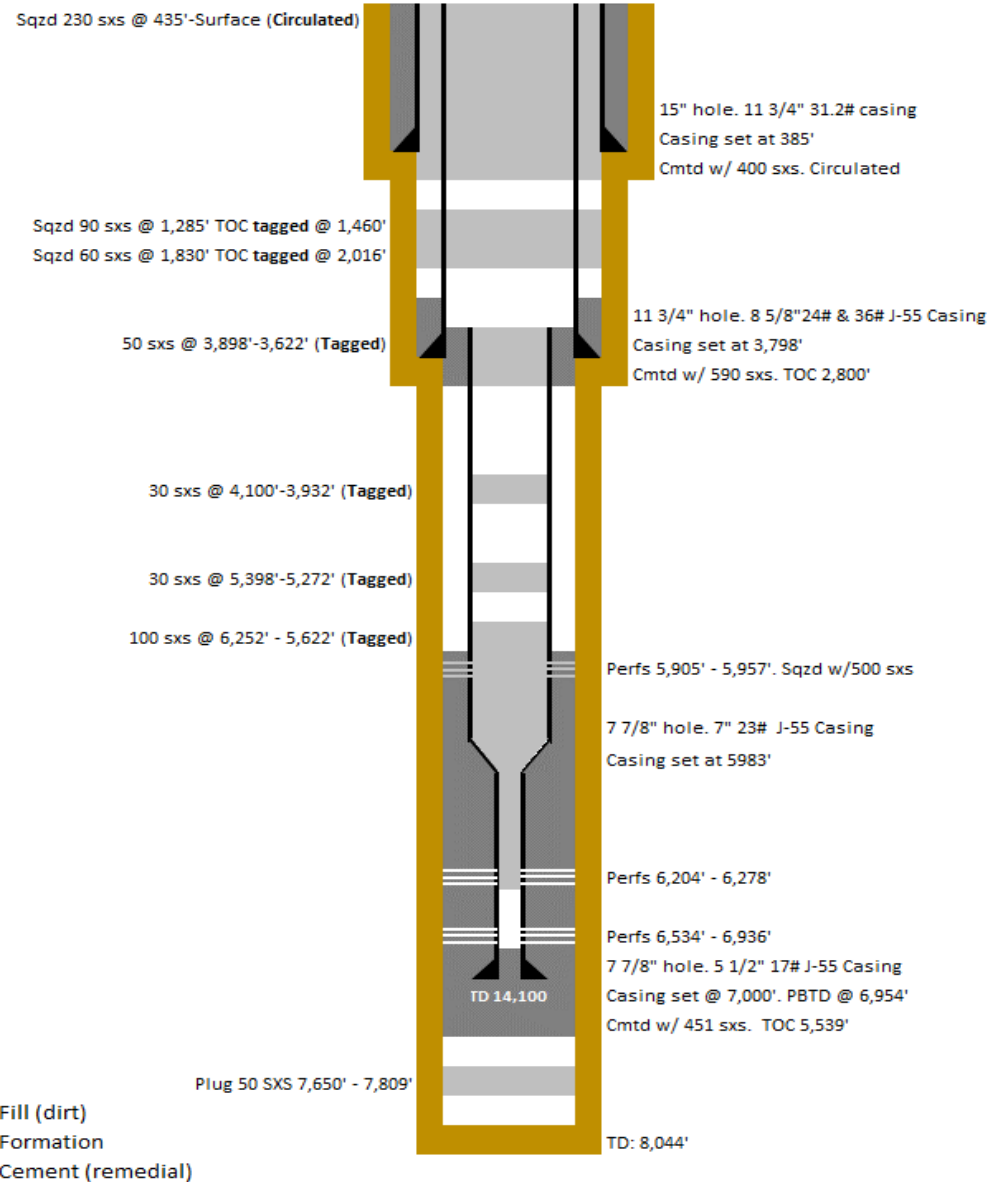
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30-025-23116	Contango Resources, Inc.	STATE A	005	Oil	Plugged, Site Released	660	N	660	E	A	32	18S	38E	4/24/1969	8044	11.750 8.625 7 & 5.5	11.750 8.625 7.000	385 3798 1000	400 590 501	Surf 2800' 5539'	Circ Calc Calc	6674'-6936' LOWER BLINEBRY 5905'-5957' DRINKARD	Well Plugged on 05/08/2018 and site released on 1/26/2021.

## STATE A No. 5

669' FNL 660' FEL, SEC 32, T-18S, R-38E

LEA COUNTY, NEW MEXICO

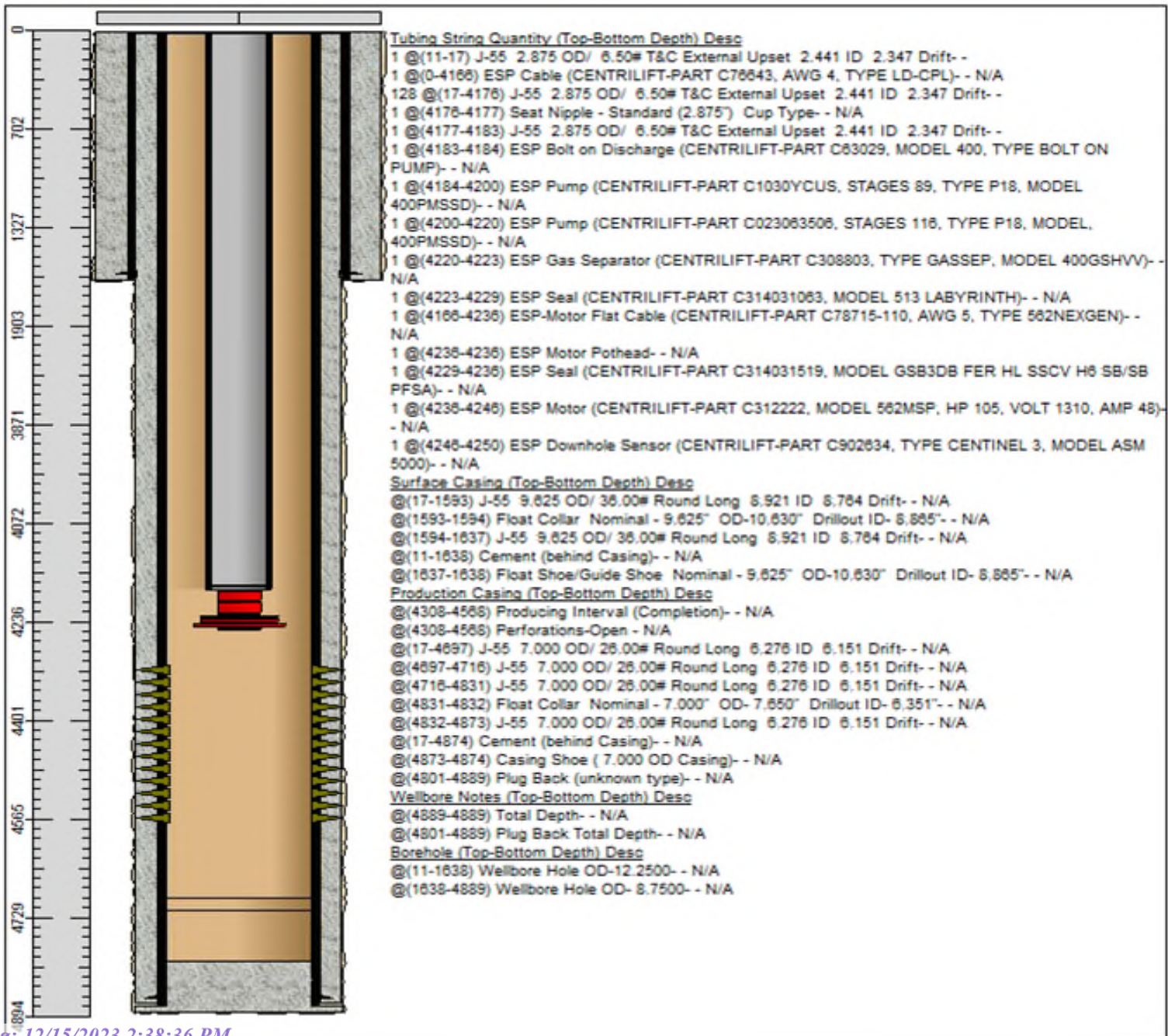
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30-025-41578	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	948	Oil	Active	2094	N	1963	W	F	33	18S	38E	3/2/2014	4592	12.250 8.75	9.625 7.000	1638 4859	650 1010	Surf Circ	Circ Circ	4308'-4568' GRAYBURG-SAN ANDRES	DV Tool at 3,779'



## Wellbore Diagram : NHSAU 948-33

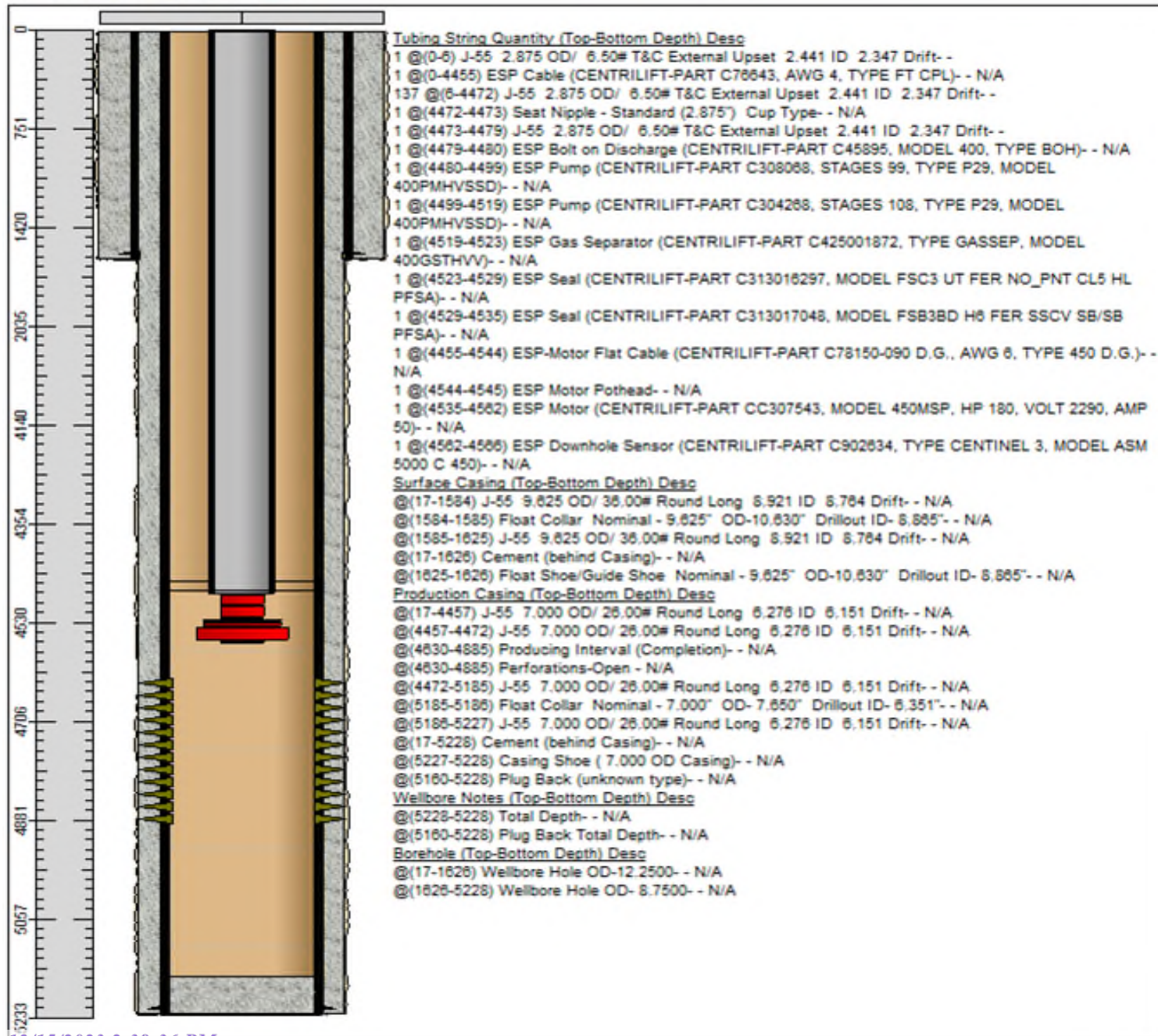




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30-025-41643	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	949	Oil	Active	2243	N	2046	W	F	33	185	38E	3/16/2014	4548.6	12.250 8.750	9.625 7.000	1626 5228	650 940	Surf Surf	Circ Circ	4630'-4885' GRAYBURG-SAN ANDRES	DV tool at 4,020'



## Wellbore Diagram : NHSAU 949-33

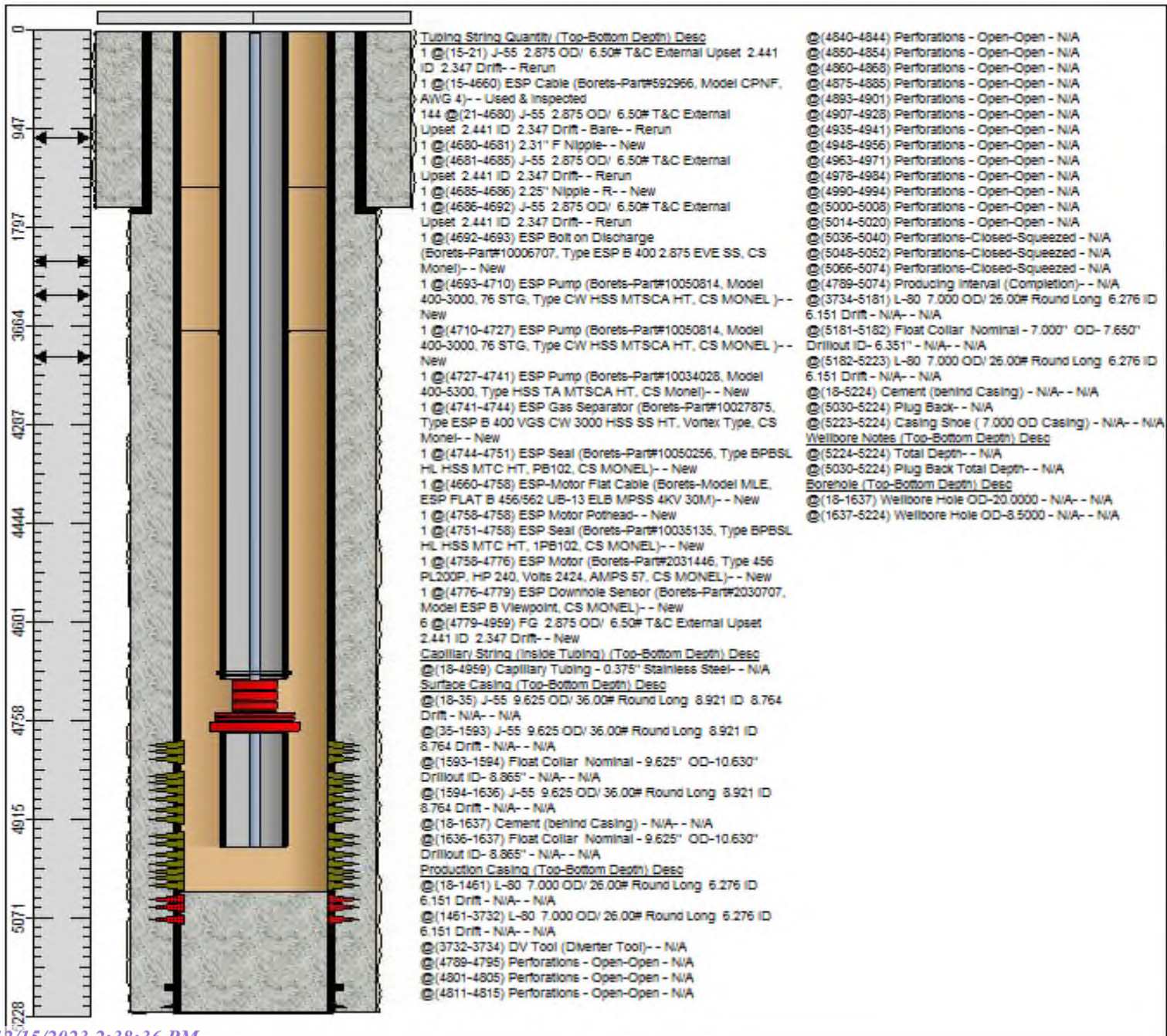




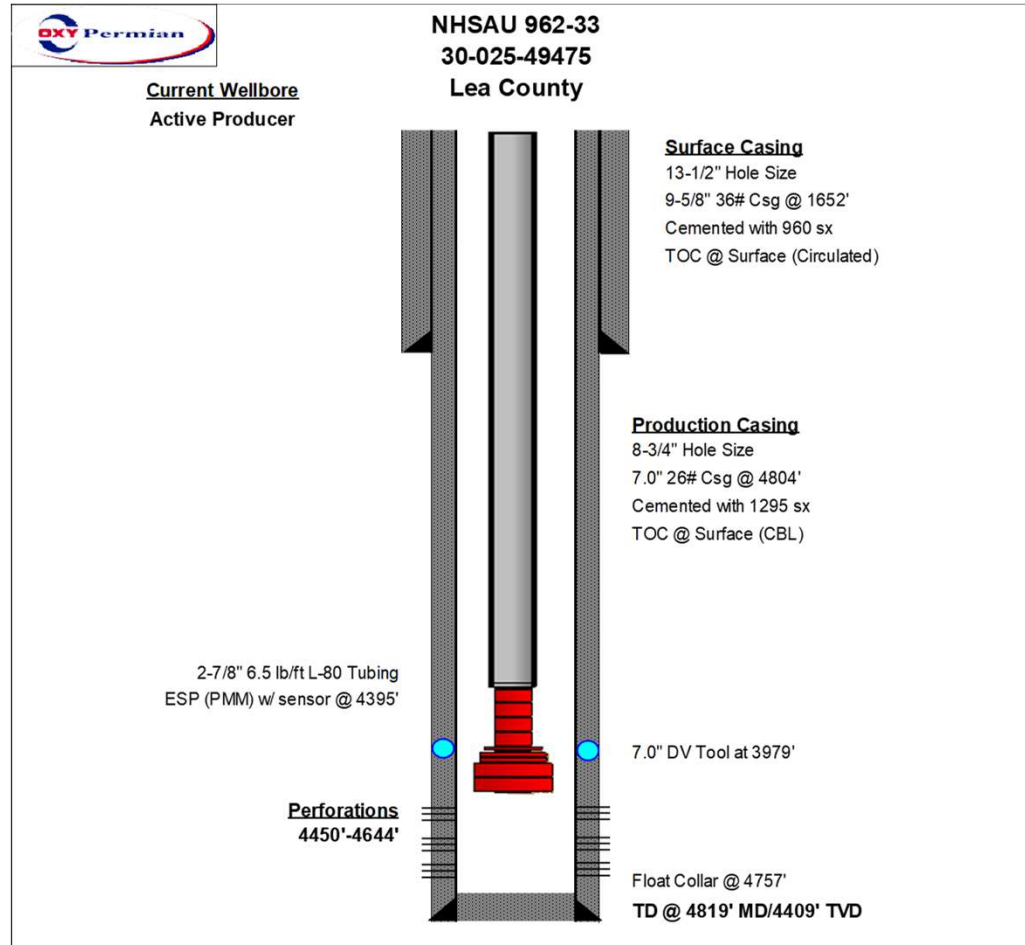
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30-025-44719	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	695	Oil	Active	950	N	2188	W	C	33	185	38E	12/30/2018	4446	13.500 8.750	9.625 7.000	1637 5224	885 885	Surf 0	Circ Calc	4789'-5074' GRAYBURG-SAN ANDRES	DV tool at 3,735'



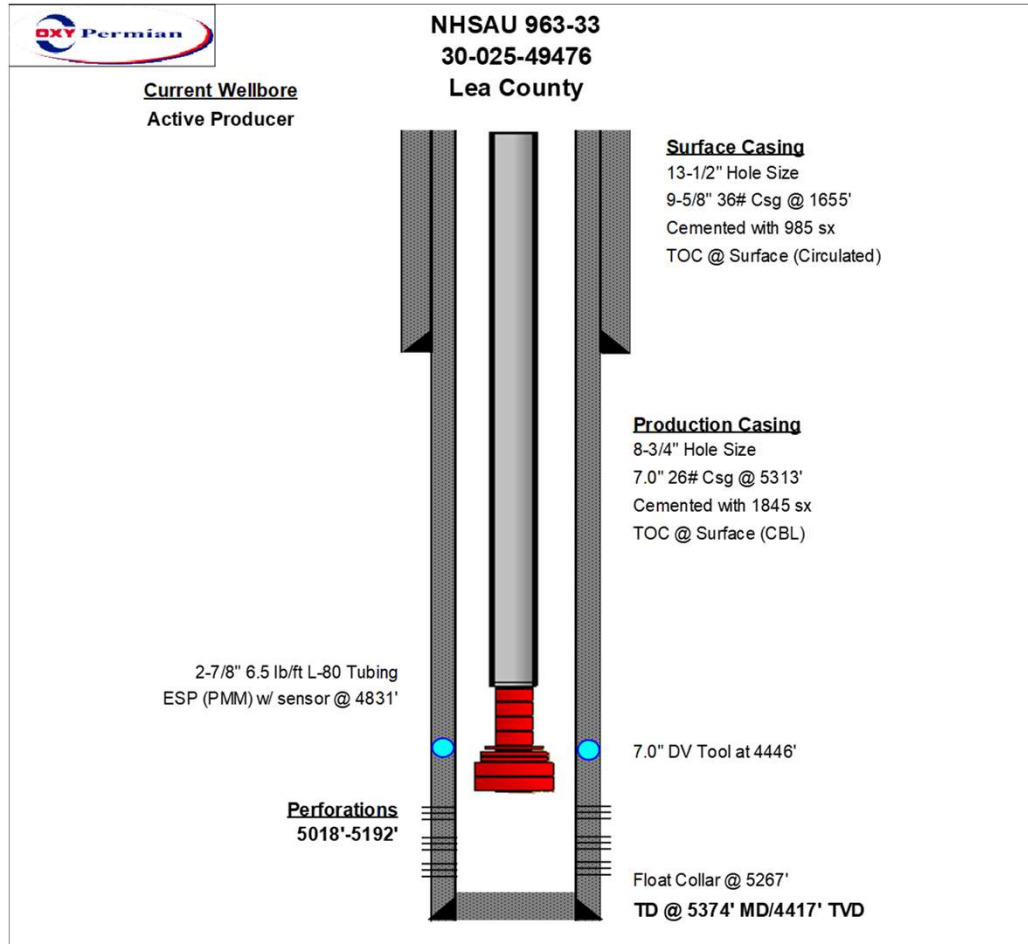
Wellbore Diagram : NHSAU 695-33



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
30-025-49475	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	962	Oil	Active	232	N	1989	W	C	33	18S	38E	8/14/2022	4417	13.5 8.75	9.625 7	1652 4804	960 1295	0 0	Circ. CBL	4450'-4644' GRAYBURG-SAN ANDRES	

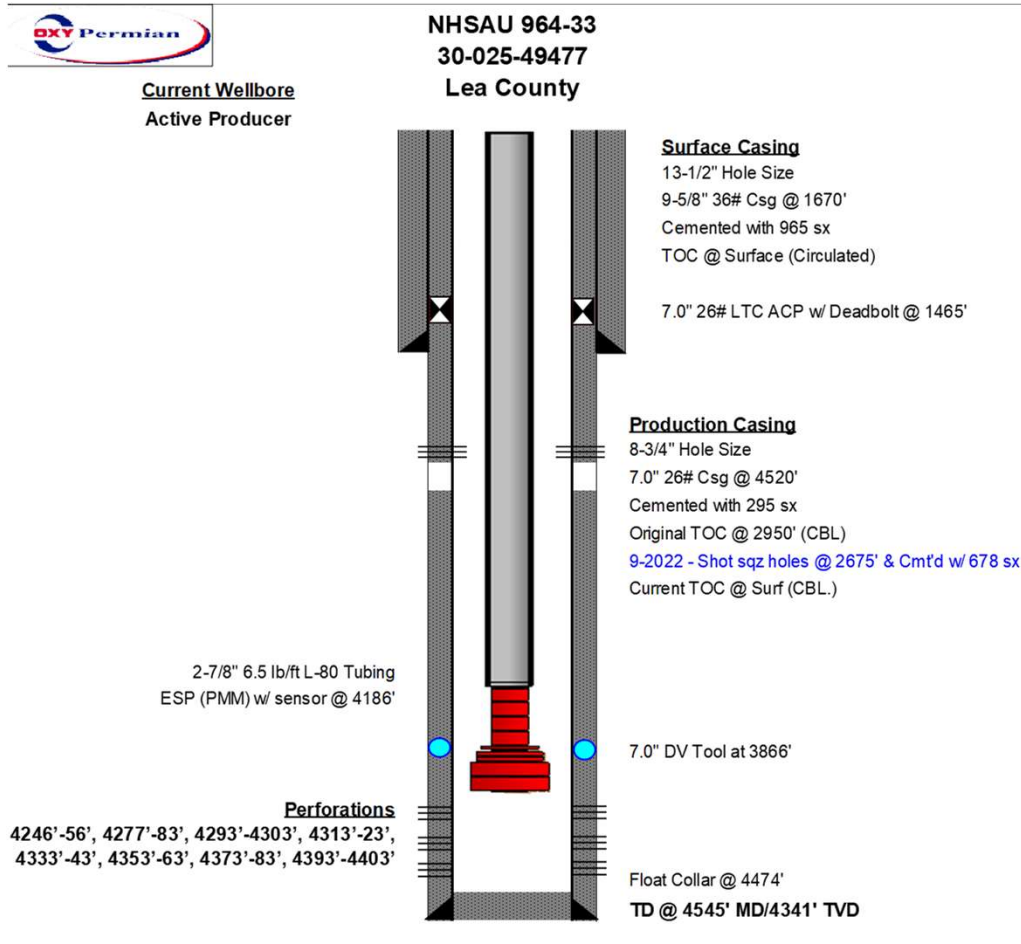


API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-49476	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	963	Oil	Active	262	N	1989	W	C	33	185	38E	8/24/2022	4417	13.5 8.75	9.625 7	1655 5313	985 1845	0 0	Circ. CBL		5018'-5192' GRAYBURG-SAN ANDRES

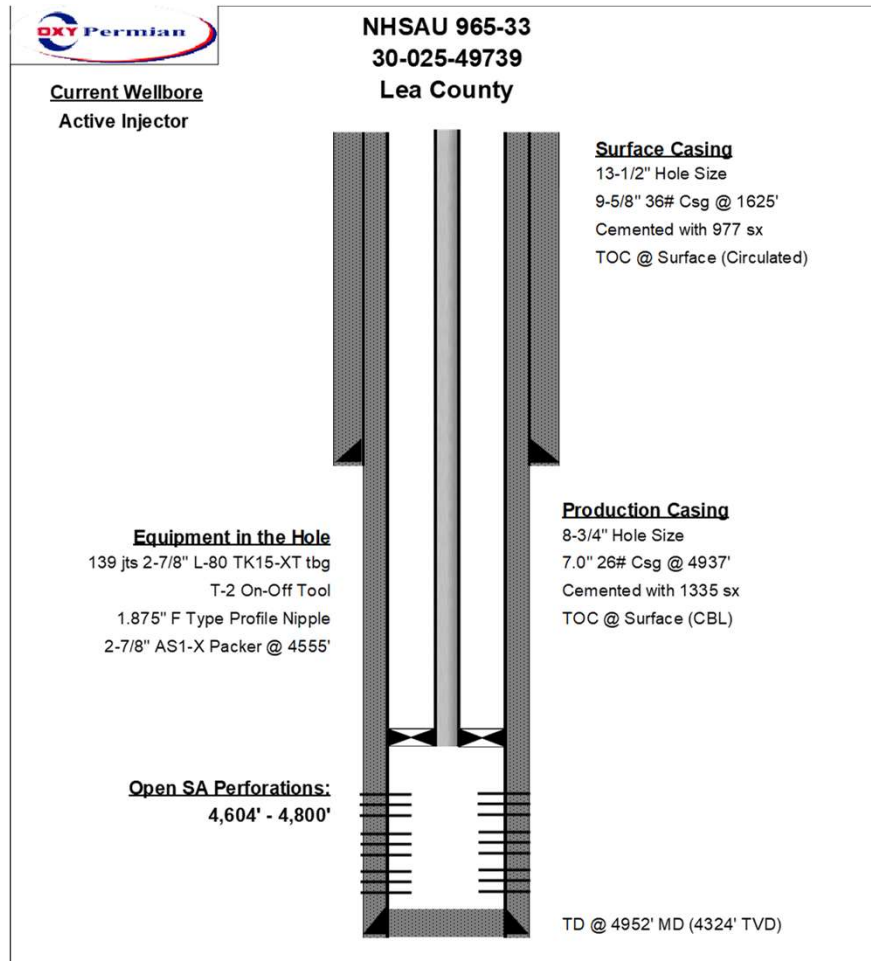




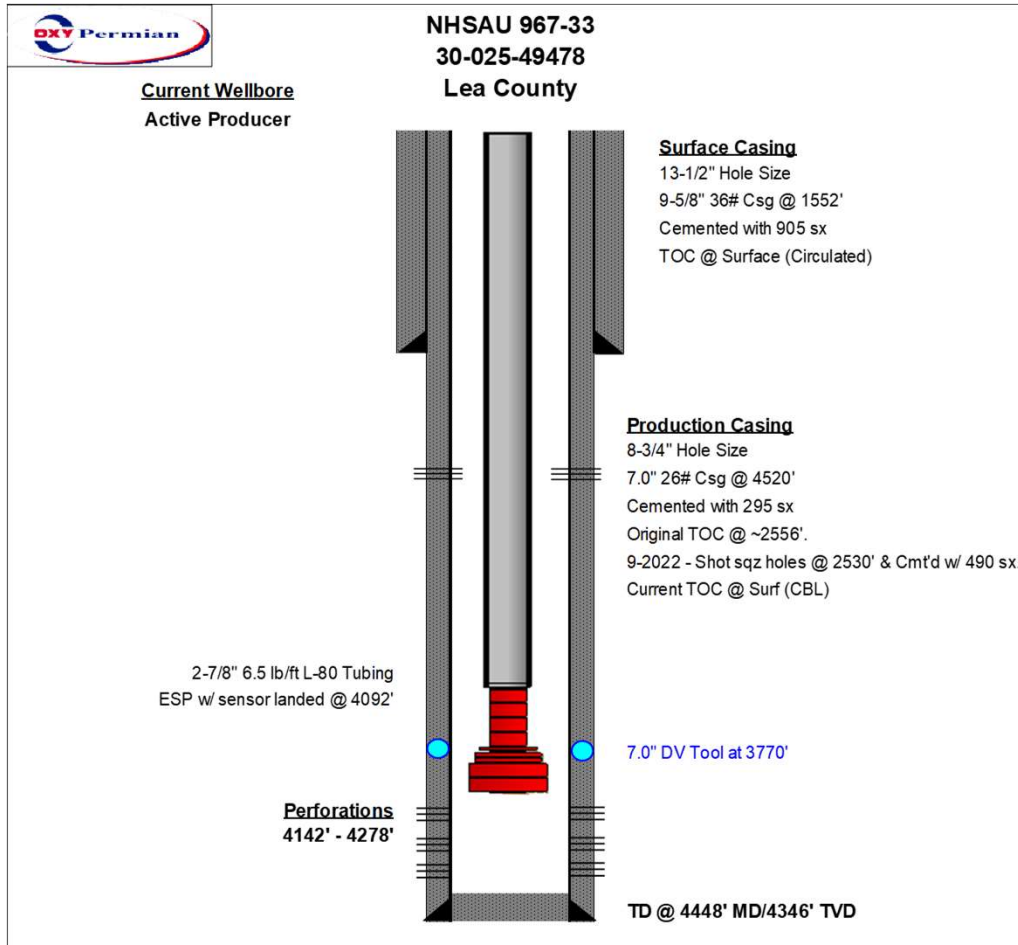
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30-025-49477	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	964	Oil	Active	292	N	1989	W	C	33	18S	38E	8/30/2022	4341	13.5 8.75	9.625 7	1670 4520	965 973	0 0	Circ. CBL		4246'-4403'  GRAYBURG-SAN ANDRES



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
30-025-49739	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	965	Injection	New	1488	N	2027	W	F	33	18S	38E	8/4/2022	4324	13.5 8.75	9.625 7	1625 4937	977 1335	0 0	Circ. CBL		4604'-4800'  GRAYBURG-SAN ANDRES



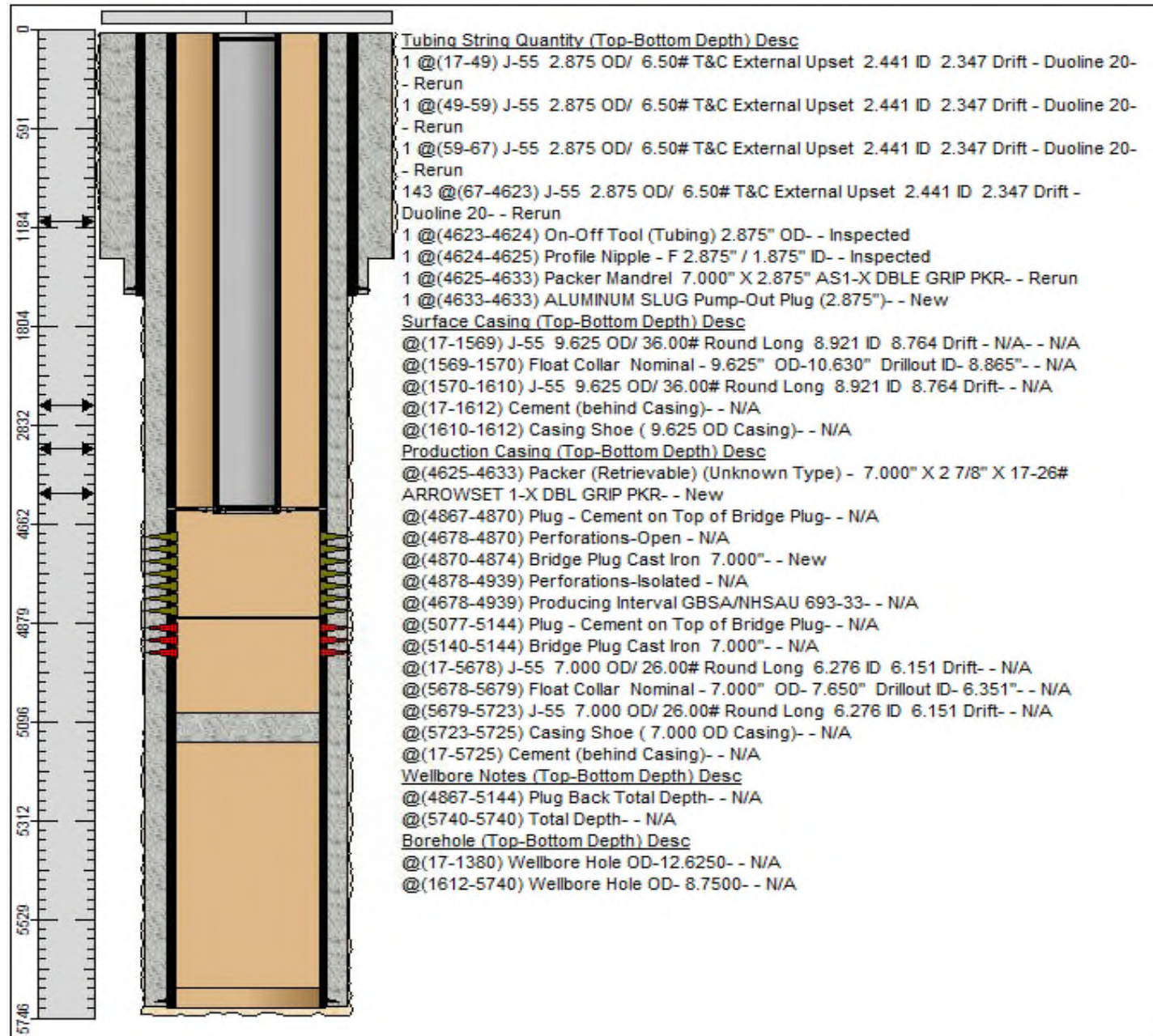
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-49478	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	967	Oil	Active	1803	S	1152	W	L	33	18S	38E	9/8/2022	4346	13.5 8.75	9.625 7	1552 4423	905 785	0 0	Circ. CBL		4142'-4278'  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
30-025-43282	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	693	Injection	Active	1880	S	1298	W	L	33	185	38E	6/18/2016	5106	12.625	9.625	1569	630	Surf 0	Calc	4678'-4939'	GRAYBURG-SAN ANDRES



## Wellbore Diagram : NHSAU 693-33

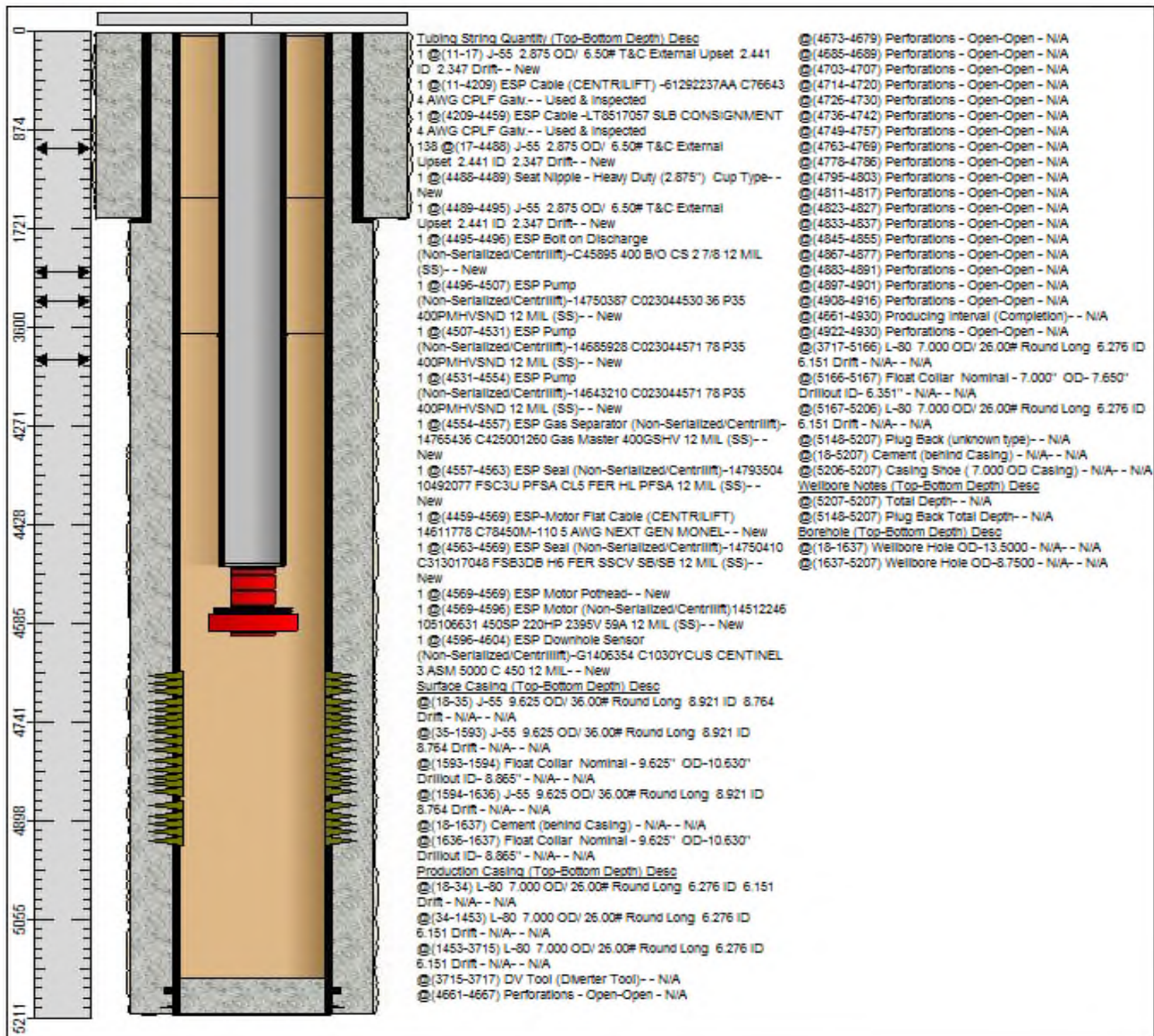




API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-44718	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	694	Oil	Active	1000	N	2188	W	C	33	185	38E	12/22/2018	4541	13.500 8.750	9.625 7.000	1655 5207	820 1110	Surf 0	Circ Calc	4661'-4930' GRAYBURG-SAN ANDRES	DV tool at 3,717'



## Wellbore Diagram : NNSAU 694-33



Side 1

## INJECTION WELL DATA SHEET

OPERATOR: OCCIDENTAL PERMIAN LTDWELL NAME & NUMBER: North Hobbs G/SA Unit #422WELL LOCATION: 1385 FNL, 110 FEL

FOOTAGE LOCATION

H

UNIT LETTER

32

SECTION

18S

TOWNSHIP

38E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

See attached

Hole Size: 12.25" Casing Size: 9.625"Cemented with: 575 sx. **or**  ft<sup>3</sup>Top of Cement: Surface Method Determined: Circ.Intermediate CasingHole Size:  Casing Size: Cemented with:  sx. **or**  ft<sup>3</sup>Top of Cement:  Method Determined: Production CasingHole Size: 8.75" Casing Size: 7"Cemented with: 800 sx. **or**  ft<sup>3</sup>Top of Cement: 1469' Method Determined: CBLTotal Depth: 4369'Injection Interval4050' feet to 4193' (Perforated)

(Perforated or Open Hole; indicate which)

Side 2

**INJECTION WELL DATA SHEET**Tubing Size: 2.875" Lining Material: Duoline (fiberglass)Type of Packer: 7" Arrowset 1-X Dbl GripPacker Setting Depth: 4024'Other Type of Tubing/Casing Seal (if applicable): NAAdditional Data

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

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

2. Name of the Injection Formation: Grayburg/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: \_\_\_\_\_

Byers (Queen) @ 280' TVDSS

Glorieta @ -1670' TVDSS

## Current WBD



Occidental Petroleum Corporation

**NHU 32-422****API# 30-025-29074**

TWN 18-S; RNG 38-E

Injector

2-7/8" Duoline Tubing  
7" Arrowset 1-X Dbl Grip Pkr @ 4024'

Gross Injection Interval  
4050' to 4193'

CIBP at 4225' + 10' gravel/sand

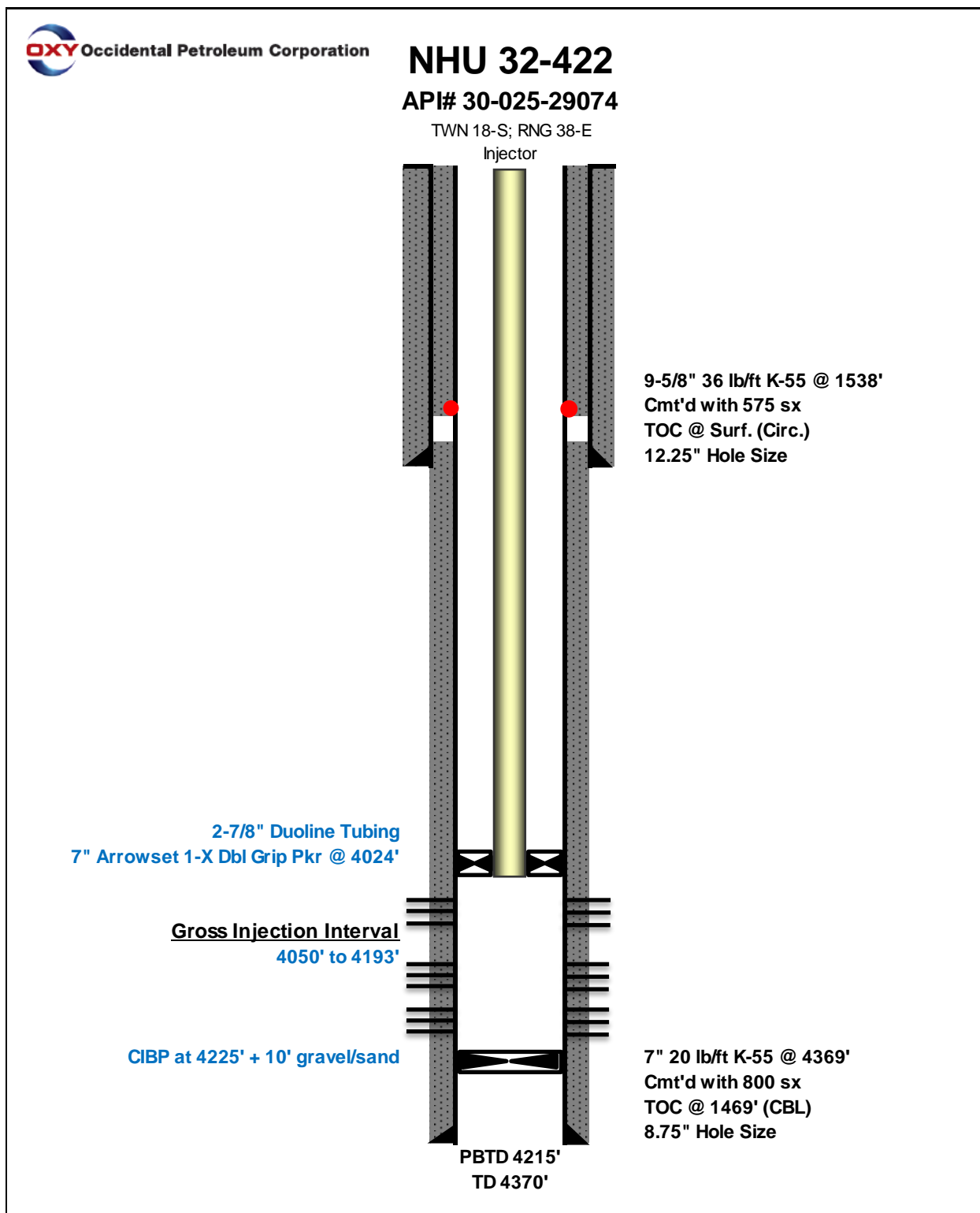
PBTD 4215'  
TD 4370'

9-5/8" 36 lb/ft K-55 @ 1538'  
Cmt'd with 575 sx  
TOC @ Surf. (Circ.)  
12.25" Hole Size

7" 20 lb/ft K-55 @ 4369'  
Cmt'd with 800 sx  
TOC @ 1469' (CBL)  
8.75" Hole Size



## Proposed WBD



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

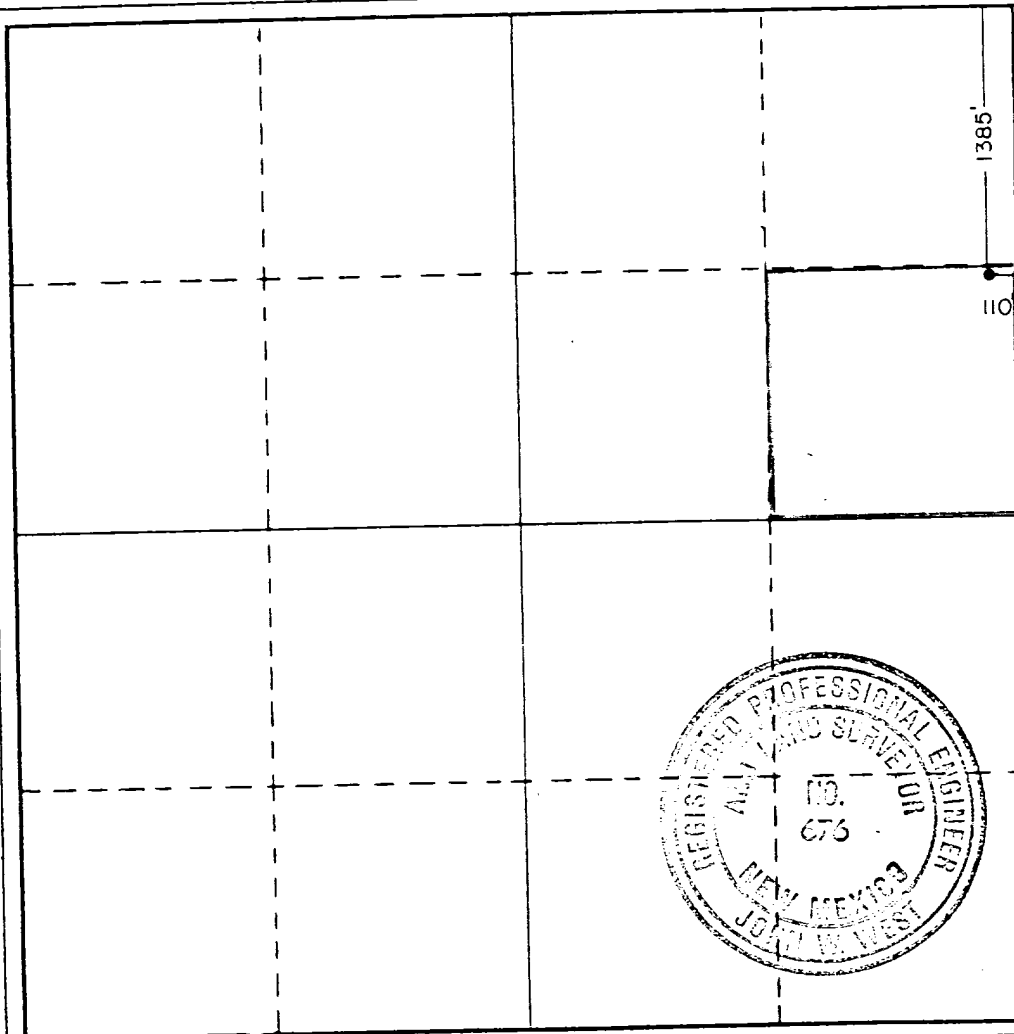
Operator <b>SHELL WESTERN E. &amp; P., INC.</b>			Lease <b>NORTH HOBBS (G/SA) UNIT SECTION 32</b>		Well No. <b>422</b>
Unit Letter <b>H</b>	Section <b>32</b>	Township <b>18S</b>	Range <b>38E</b>	County <b>LEA</b>	
Actual Footage Location of Well: <b>1385</b> feet from the <b>NORTH</b> line and <b>110</b> feet from the <b>EAST</b> line					
Ground Level Elev. <b>3642.3</b>	Producing Formation <b>GRAYBURG/SAN ANDRES</b>		Pool <b>HOBBS (GRAYBURG/SAN ANDRES)</b>		Dedicated Acreage: <b>40</b> Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes   ☐ No   If answer is "yes," type of consolidation UNITIZATION

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name A. J. FORE

Position SUPERVISOR REG. & PERMITTING

Company SHELL WESTERN E&P INC.

Date APRIL 26, 1985

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 knowledge and belief.

Date Surveyed 4/19/84

Registered Professional Engineer and/or Land Surveyor

Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239

# G/SA Unit 422

## AOR

### Oil and Gas Wells

- Wells - Large Scale
- Miscellaneous
  - CO<sub>2</sub>, Active
  - CO<sub>2</sub>, Cancelled
  - CO<sub>2</sub>, New
  - CO<sub>2</sub>, Plugged
  - CO<sub>2</sub>, 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

#### PLSS Third Division

# MITCHELL ANALYTICAL LABORATORY

2638 Faudree  
Odessa, Texas 79765-8538  
561-5579

Company: **Nalco Company**

Well Number: NM OCD Sprinkler System Well  
Lease: OXY  
Location:  
Date Run: 10/31/2013  
Lab Ref #: 13-nov-n72700

Sample Temp: 70  
Date Sampled: 10/24/2013  
Sampled by: Bobby Hunt  
Employee #: 27-022  
Analyzed by: GR

## Dissolved Gases

		Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H <sub>2</sub> S)	.00	16.00	.00
Carbon Dioxide	(CO <sub>2</sub> )	<b>NOT ANALYZED</b>		
Dissolved Oxygen	(O <sub>2</sub> )	<b>NOT ANALYZED</b>		

## Cations

Calcium	(Ca <sup>++</sup> )	105.89	20.10	5.27
Magnesium	(Mg <sup>++</sup> )	12.15	12.20	1.00
Sodium	(Na <sup>+</sup> )	54.56	23.00	2.37
Barium	(Ba <sup>++</sup> )	<b>NOT ANALYZED</b>		
Manganese	(Mn <sup>+</sup> )	.02	27.50	.00
Strontium	(Sr <sup>++</sup> )	<b>NOT ANALYZED</b>		

## Anions

Hydroxyl	(OH <sup>-</sup> )	.00	17.00	.00
Carbonate	(CO <sub>3</sub> <sup>=</sup> )	.00	30.00	.00
BiCarbonate	(HCO <sub>3</sub> <sup>-</sup> )	268.84	61.10	4.40
Sulfate	(SO <sub>4</sub> <sup>=</sup> )	54.00	48.80	1.11
Chloride	(Cl <sup>-</sup> )	111.12	35.50	3.13
Total Iron	(Fe)	0	18.60	.00
Total Dissolved Solids		606.58		
Total Hardness as CaCO <sub>3</sub>		314.54		
Conductivity MICROMHOS/CM		858		

pH 7.960 Specific Gravity 60/60 F. 1.000

CaSO<sub>4</sub> Solubility @ 80 F. 18.02MEq/L, CaSO<sub>4</sub> scale is unlikely

## CaCO<sub>3</sub> Scale Index

70.0	.237	100.0	.587	130.0	1.097
80.0	.367	110.0	.827	140.0	1.097
90.0	.587	120.0	.827	150.0	1.327

Nalco Company

NM OCD Sprinklers                      32°43'05.88"N 103°09'44.88"W



**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 295241

CONDITIONS

Operator: OCCIDENTAL PERMIAN LTD P.O. Box 4294 Houston, TX 772104294	OGRID: 157984
	Action Number: 295241
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	12/15/2023