

# Initial Application Part I

Received 4/29/21

*This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete*



**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

April 26, 2021

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. 312  
API 30-025-29199  
Letter B, Section 33, T-18S, R-38E  
Lea County, NM

To Mr. Richard Ezeanyim, Chief Engineer:

Occidental Permian Ltd. respectfully request administrative approval, without hearing, to commence injection (water, CO<sub>2</sub>, and produced gas) per the authorized Order No. R-6199-F. In support of this request please find the following documentation:

- Administrative Application Checklist
- Form C-108 with miscellaneous data attached
- An Injection Well Data Sheet with Wellbore Schematic
- Form C-102
- Map
- AOR

\*\*\* Per Order No. R-6199-F, this application is eligible for administrative approval without notice or hearing \*\*\*

If you have any questions regarding this application, please contact me at 832-646-4450 or email Jose\_Gago@oxy.com.

Sincerely,

A handwritten signature in blue ink that reads 'Jose Gago'.

Jose Gago  
Regulatory Engineer

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 \_\_\_\_\_ Á

PMX-302

**[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.**

Print or Type Name

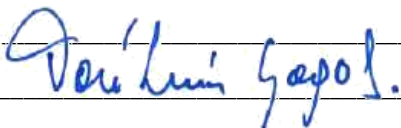
Signature

Title

Date

e-mail Address

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: \_\_\_\_\_ Secondary Recovery   X   Pressure Maintenance \_\_\_\_\_ Disposal \_\_\_\_\_ Storage  
Application qualifies for administrative approval?   X   Yes \_\_\_\_\_ No
- II. OPERATOR: OCCIDENTAL PERMIAN LTD  
ADDRESS: P.O. Box 4294 Houston, TX 77210-4294  
CONTACT PARTY: Jose L Gago PHONE: 832-646-4450
- 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:
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: Jose L Gago TITLE: Engineer, Regulatory  
SIGNATURE:  DATE: 04/21/2021  
E-MAIL ADDRESS: Jose\_Gago@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.

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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 Unit No. 312  
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: Jose Gago, 832-646-4450
- III. Injection well data sheet and wellbore schematic has been attached for NORTH HOBBS UNIT No. 312
- 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 #312" (API: 30-25-29199) 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 below:

API	Well Name	Operator	Status after Jan 2014
30-025-07548	NORTH HOBBS G/SA UNIT 321	OCCIDENTAL PERMIAN LTD	P & A
30-025-07556	NORTH HOBBS G/SA UNIT 411	OCCIDENTAL PERMIAN LTD	P & A
30-025-23759	CONOCO STATE 001	OXY USA INC	P & A
30-025-28951	NORTH HOBBS G/SA UNIT 323	OCCIDENTAL PERMIAN LTD	P & A
30-025-34416	NORTH HOBBS G/SA UNIT 545	OCCIDENTAL PERMIAN LTD	P & A
30-025-41578	NORTH HOBBS G/SA UNIT 948	OCCIDENTAL PERMIAN LTD	New Well
30-025-41643	NORTH HOBBS G/SA UNIT 949	OCCIDENTAL PERMIAN LTD	New Well
30-025-44718	NORTH HOBBS G/SA UNIT 694	OCCIDENTAL PERMIAN LTD	New Well
30-025-44719	NORTH HOBBS G/SA UNIT 695	OCCIDENTAL PERMIAN LTD	New Well

- The wellbore diagrams and tabulated well data is attached.
- VII. The area of review is attached.
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                      1,100 PSIG  
Maximum Surface Injection Pressure  
Produced Water                      1,100 PSIG  
CO2                      1,250 PSIG  
CO2 w/produced gas                      1,770 PSIG  
(In accordance with Order No. R-6199-G, 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. 15% HCL Acid stimulation using straddle packer assembly (PPI – tool) or salt rock as divertor. Approximately 0.5 to 1.5 bbls per net pay
- X. Logs were filed at the time of drilling.
- XI. Per our field personnel, no fresh water wells were found within 1 mile of this well.
- XII. N/A. This is a pressure maintenance project, not a disposal well.
- XIII. Section 3 of 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.

## INJECTION WELL DATA SHEET

OPERATOR: Occidental Permian LTD.

WELL NAME &amp; NUMBER: NORTH HOBBS G/SA UNIT #312

WELL LOCATION:	151' FNL & 1702' FEL	B	33	18S	38E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 650 sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft<sup>3</sup>

Top of Cement: Method Determined:

Production Casing

Hole Size: 8-3/4" Casing Size: 7"

Cemented with: 975 sx. or ft<sup>3</sup>

Top of Cement: Surface Method Determined: Circulated

Total Depth: 4428' MD

Injection Interval

3900' feet to 4500' - Perforated

(Perforated or Open Hole; indicate which)



**INJECTION WELL DATA SHEET**Tubing Size: 2 - 7/8" Lining Material: DuolineType of Packer: 7" x 2 3/8" 14-20# AS1-X Double Grip injection PackerPacker Setting Depth: 3850' MDOther 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? Producer

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:

Byers (Queen) @ +/- 3680'

Glorieta @ +/- 5300'

# WELLBORE DIAGRAM

(updated: 03/04/2021 CER)

Revision 0

WELL# NORTH HOBBS G/SA UNIT #312

API# 30-025-29199

Zone: San Andres

Spud: 5/22/1985

GL elev

3640.7'

## NORTH HOBBS G/SA UNIT #312

### CEMENT

### DEVIATION SURVEYS

DEPTH

DEGREE

#### Surface Casing

Cement with 450 sx Lite wt III + 2% S-1 + 1/2# sx D-29 lead, 200  
sxs HE II + 3% S-1 + 1/2# sx D-29

CIRCULATED 30 sx TO SURFACE

12-1/4" hole

9-5/8" 36# set at 1510'

#### Production Casing

Cement with 700 sx Lite wt + 2% D20 + 8#/sx D44 + 1/2#/ sx D-29  
lead, 275 sxs HE II + 4.8#/sx D44 + 1/2#/sx D-29

Circulate 40sx to surface

8-3/4" Hole

Perfs 4128, 4131, 4164, 4171, 4177, 4185, 4191, 4197, 4205, 4212, 4222,  
4236, 4241, 4251, 4261, 4270 w/2 SPI.

7" 20# set at 4428'



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 SHELL WESTERN E. & P., INC.		Lease NORTH HOBBS UNIT		SECTION 33		Well No. 312	
Unit Letter B	Section 33	Township 18S	Range 38E	County LEA			
Actual Footage Location of Well: 151 feet from the NORTH line and 1702 feet from the EAST line							
Ground Level Elev. 3639.3' GL	Producing Formation SAN ANDRES		Pool HOBBS (GRAYBURG/SAN ANDRES)		Dedicated Acreage: 40 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. 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?

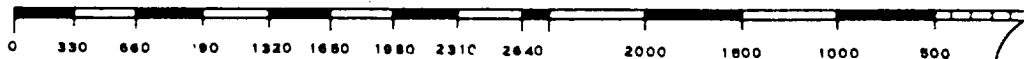
☒ Yes ☐ No If answer is "yes;" type of consolidation UNITIZATION

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.

NOTE: THIS WELL IS DIRECTIONALLY DRILLED.  
BOTTOM HOLE LOCATION IS 10' FNL AND  
1330' FEL.

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name <i>A. J. Fore</i>	A. J. FORE
Position SUPERVISOR REG. & PERMITTING	
Company SHELL WESTERN E&P INC.	
Date JULY 18, 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 1/7/85	
Registered Professional Engineer and/or Land Surveyor <i>Ronald J. Eidson</i>	
Certificate No.	JOHN W. WEST, 676
RONALD J. EIDSON, 3239	





# ★ NHTSAU 312 30-025-29199 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

- ★

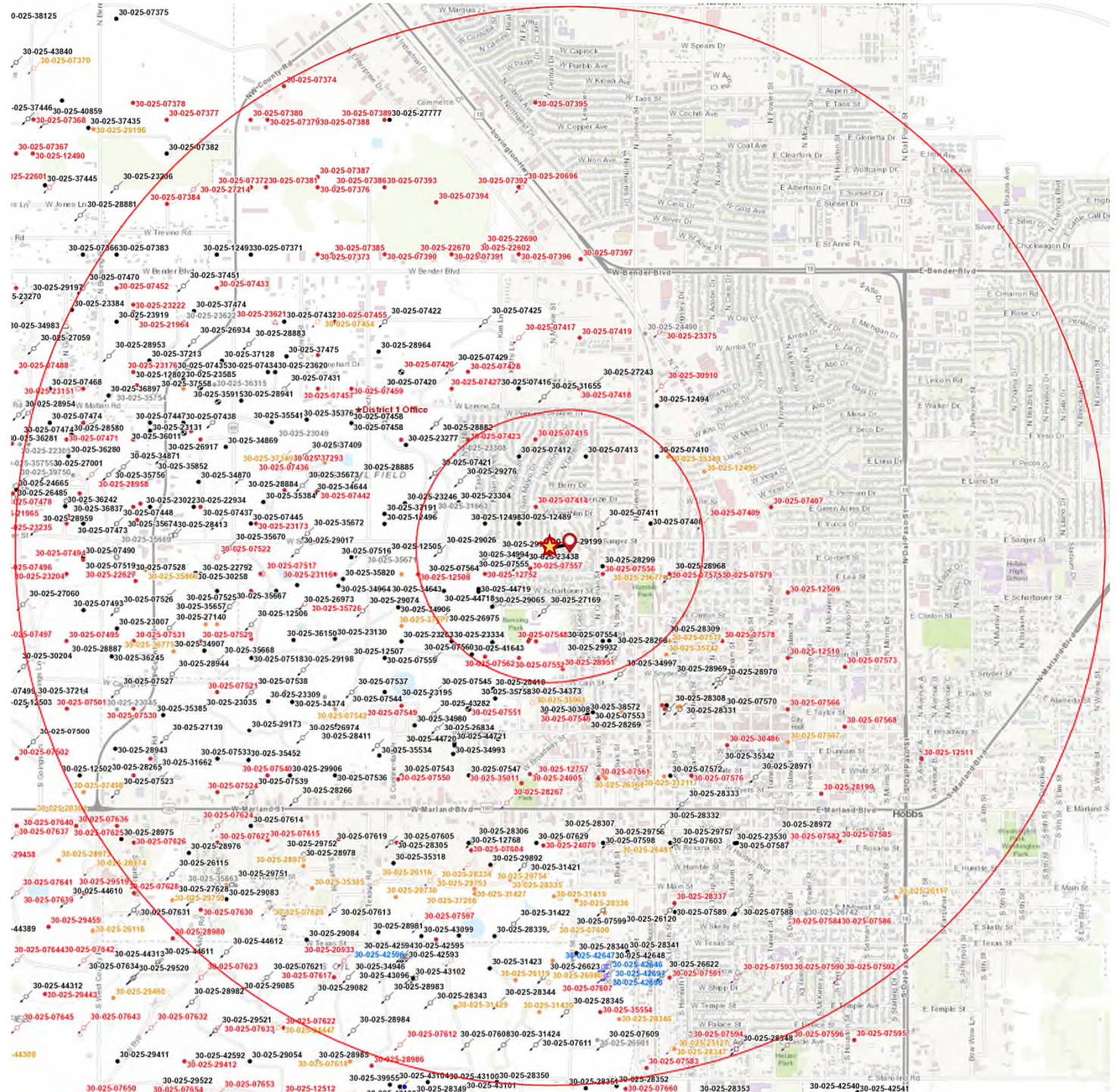
## Public Land Survey System

### PLSS Second Division

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### PLSS First Division

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API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-23759	OXY USA INC	CONOCO STATE	001	Oil	Plugged, Site Released	1980	N	2130	E	G	33	18S	38E	26046	7075	17 12.25 8.75 0	13.375 9.625 7 4.5	418 3799 7075 7010	410 350 900 845	Surf 1089 3658 Surf	Circ Calc Calc Circ	6611'-6975' UPPER BLINEBRY 6585'-6600' TUBB (GAS) 5871'-6029' DRINKARD	Well Plugged on 05/29/2019



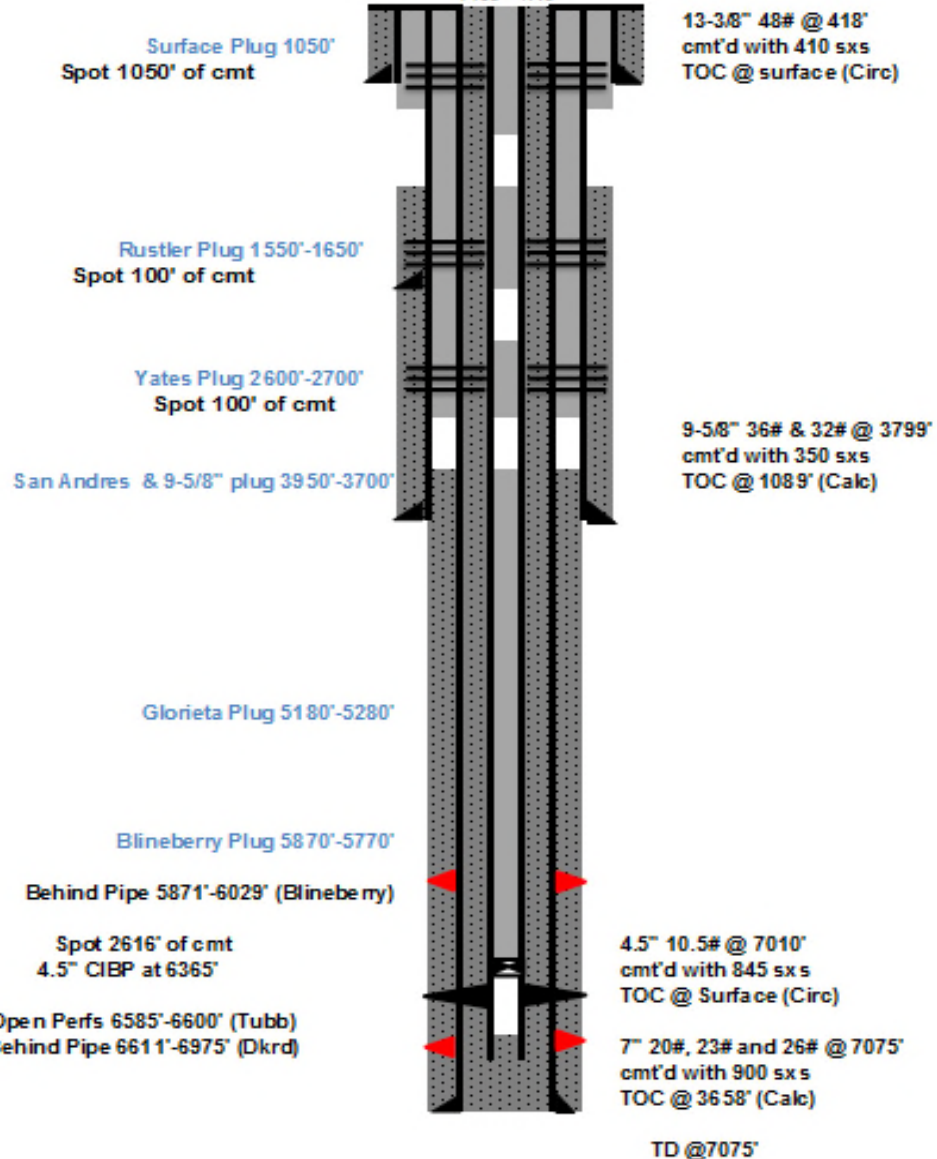
Occidental Petroleum Corporation

## Conoco St 1

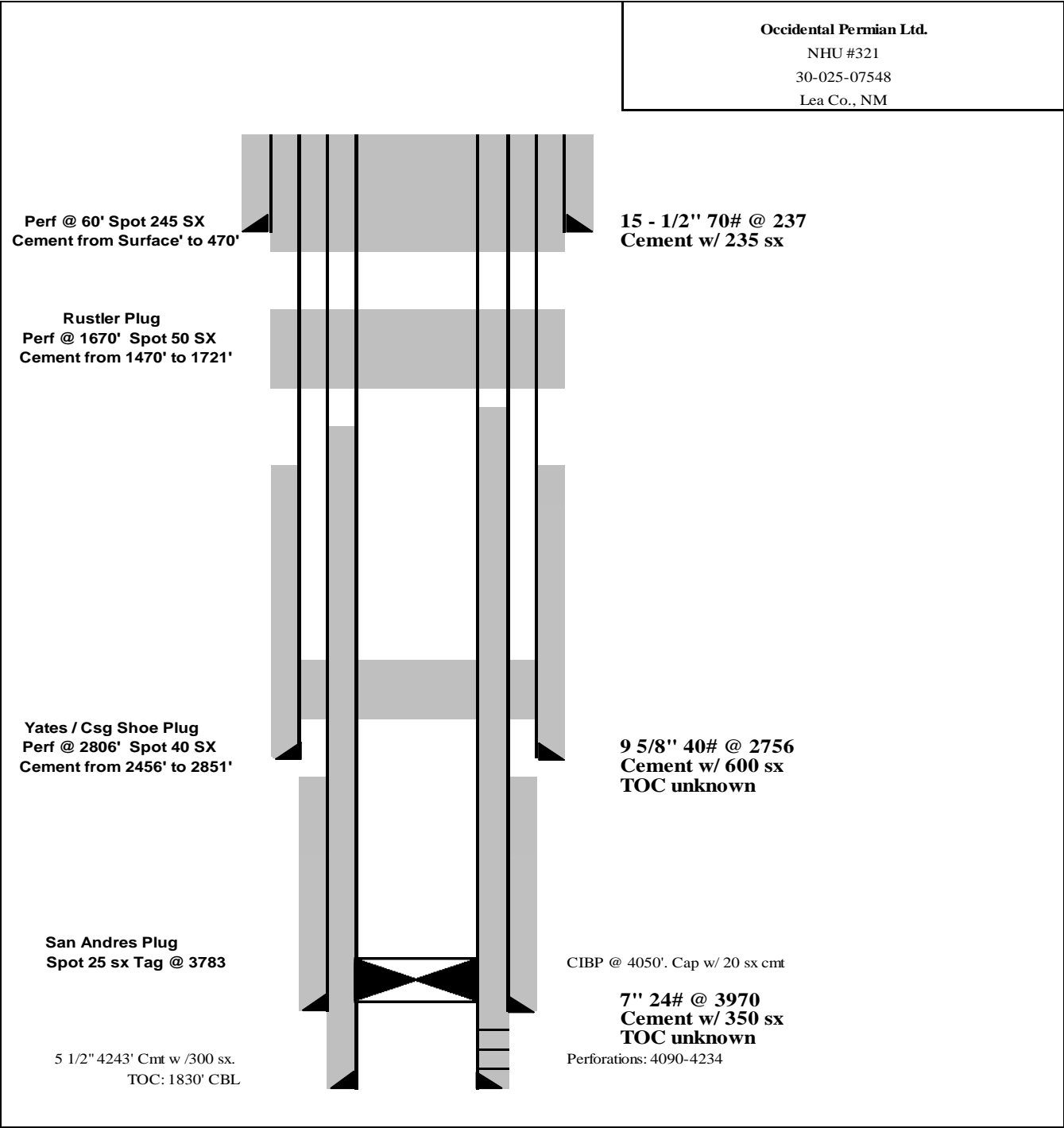
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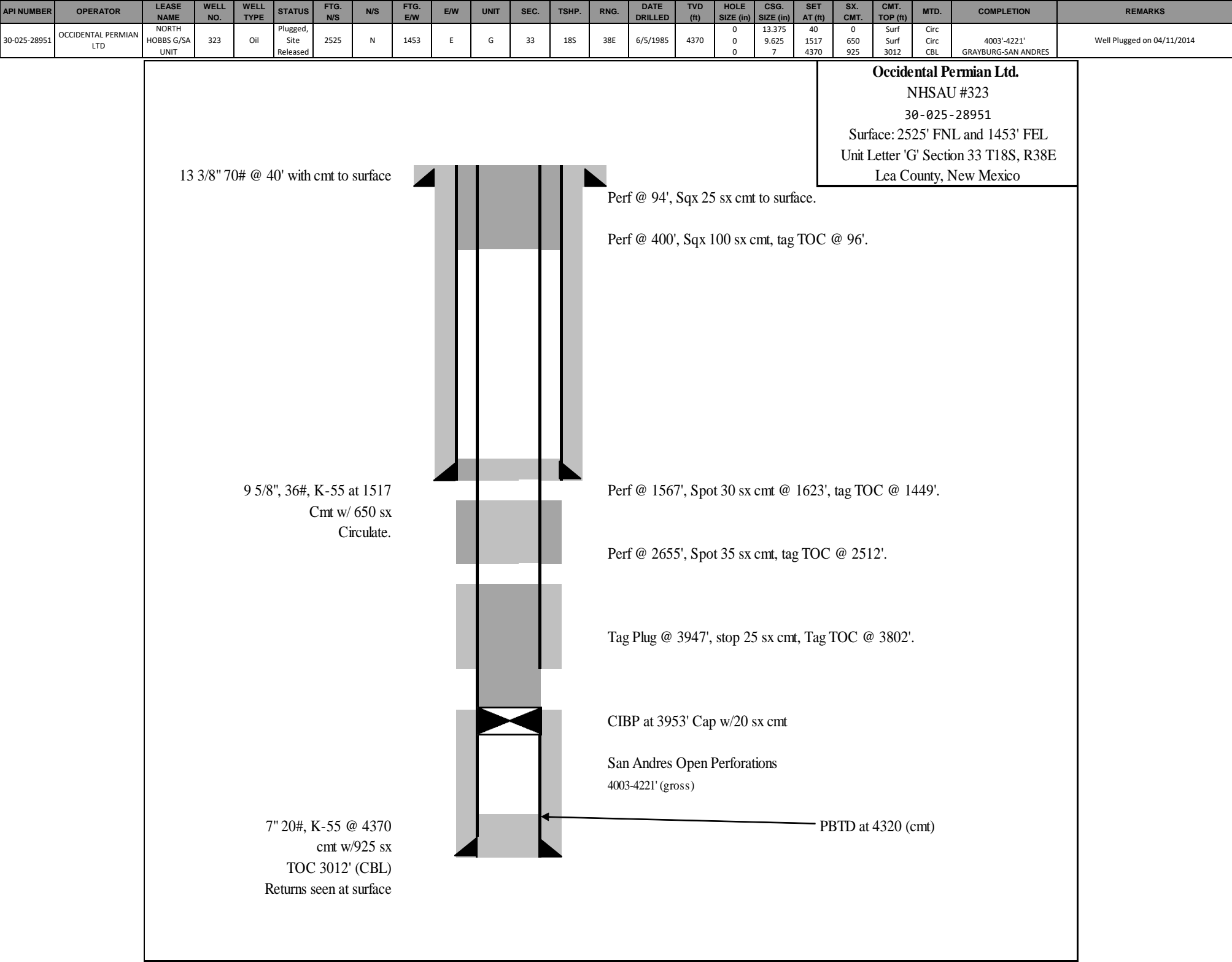
TWN 18-S; RNG 38-E

Prod - TAd



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
30-025-07548	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	321	Oil	Plugged, Site Released	1980	N	1980	E	G	33	18S	38E	11/18/1932	4244	0 0 0	15.5 9.625 7 5.5	237 2756 3970 4243	235 600 350 300	Surf 0 0 1830	Calc 0 0 CBL	4090'-4234' GRAYBURG-SAN ANDRES	There are no records of bit size or hole size. Cement tops for 9 5/8" and 7" casing could not be calculated. Well Plugged on 04/11/2014







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
30-025-07556	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	411	Oil	Plugged, Not Released	660	N	660	E	A	33	18S	38E	9/28/1934	4256	0 0 0 0	13.375 9.625 7 2.5	285 2739 3970 4175	200 350 150 40	Surf 1723 3260 3964	Circ Calc CBL Temp	4020'-4170' GRAYBURG-SAN ANDRES	Well Plugged on 03/28/2018



**Occidental Petroleum Corporation**

## NHU 33-411

API# 30-025-07556

TWN 18-S; RNG 38-E

P&A'd Well

Perf at 350' and Sqz 210 sx (50 bbl)  
Then spot 35 sx (8.2 bbls) down to 300'  
Perf at 60' and sqz 36 sx to surface  
(Surface Plug)

Perf at 1658 and 1598. Cemented under  
a packer with 50 sx (11.7 bbls). Tag @  
(Rustle Plug)

Perf and Sqz 100 sx from 2615' uncer  
CICR  
(Yates / Csg Shoe Plug)

Spot 25 sx on top of plug

TOC at 3915' (tagged)  
(85' cement)  
CIBP SA 4000'

**SQZD Perfs 4020-4058'**  
**Plugged Back: 4095-4170'**

13-3/8" 54.5# @ 285'  
cmt'd w/ 200 sxs  
TOC @ Surf (Circ.)

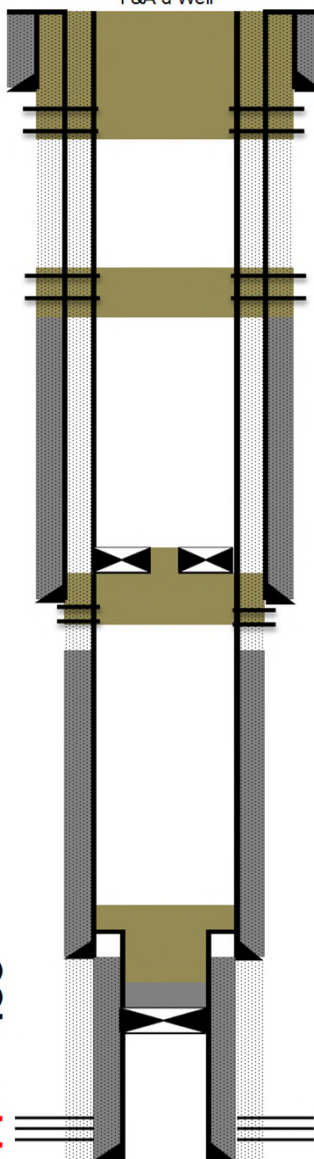
**Tops:**  
Rustler: 1608'  
Salt: 1690'  
Yates: 2727'  
B. Grayburg: 3915'  
San Andres: 4017'

9-5/8" 36# @ 2739'  
cmt'd w/350 sxs  
TOC @ 1723' (Calc.)

7" 24# @ 3970'  
cmt'd w/150 sxs  
TOC @ 3260' (CBL)

5-1/2" 14# @ 3919-4175'  
cmt'd w/40 sxs  
TOC @ 3964 (TS)

PBTD @ 3915'  
TD @ 4240'



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
30-025-34416	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	545	Oil	Plugged, Site	1925	N	2100	E	G	33	185	38E	7/19/1998	4404	8.625 5.500	8.625 5.500	1550 4558	800 1000	Surf Surf	Circ Circ	4275'-4354' GRAYBURG-SAN ANDRES	Well Plugged on 04/11/2014



Occidental Petroleum Corporation

NHU 33-545

API# 30-025-34416

TWN 18-S; RNG 38-E

Prod- Active

Surface Plug  
Spot 300' of cmt @ 300'  
Cement to surface

Rustler / Csg Shoe Plug  
Spot 100' of cmt @ 1600'  
TOC @ 1450

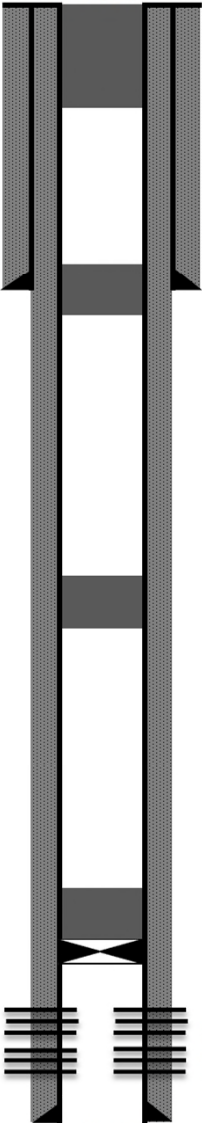
Yates Plug  
Spot 100' of cmt from 2800'  
TOC @ 2680'

San Andres Plug  
CIBP @ 4110 and cap w/ 25 sx TOC @  
4010'

Perfs 4160' to 4354'

8 5/8" 24# @ 1550'  
cmt'd w/550 sxs  
TOC @ Surface (Circ.)

5 1/2" 15.5# @ 4558'  
cmt'd w/1000 sxs  
TOC @ Surface (Circ.)



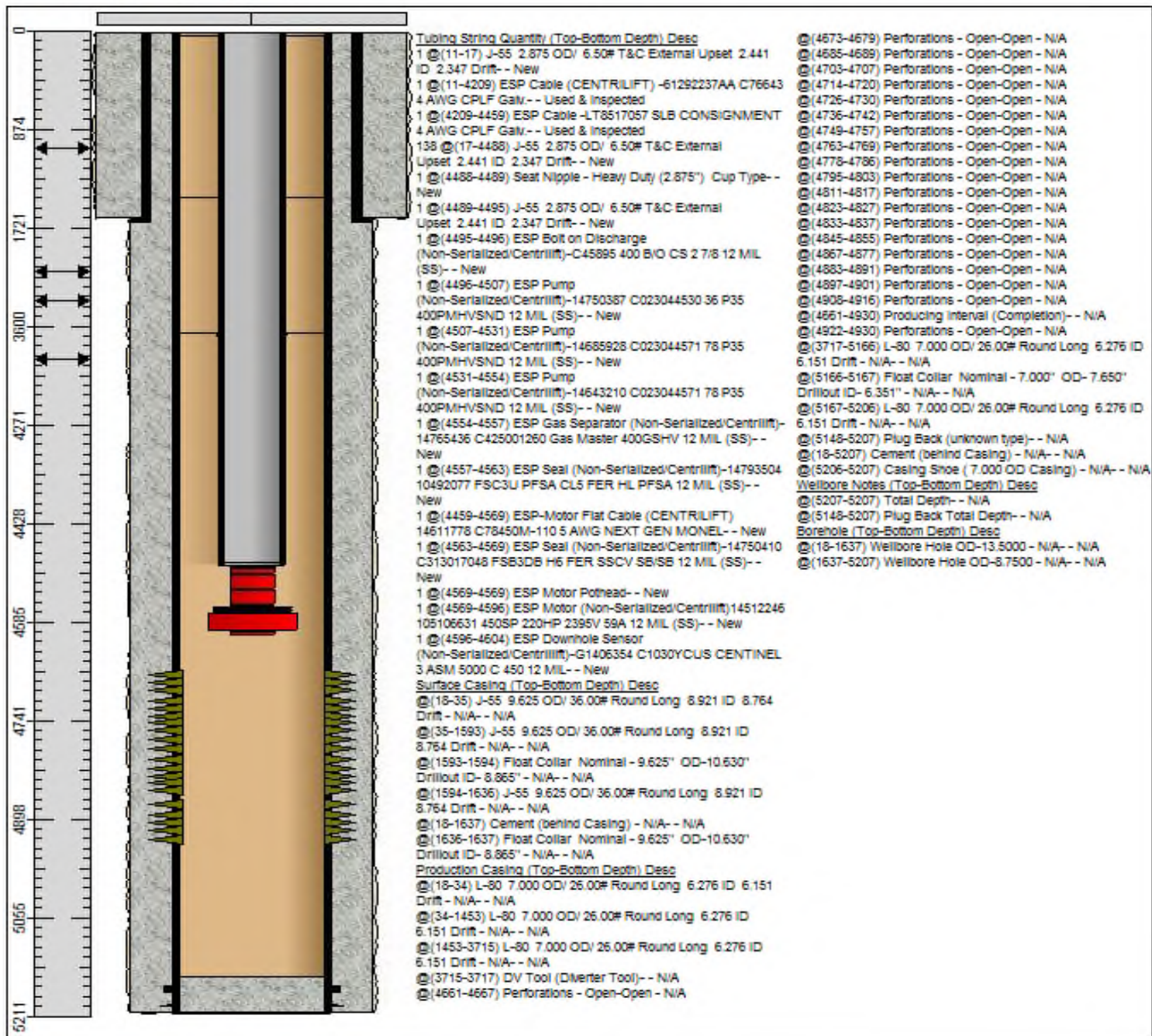
TD @ 4558

PBTD @ 4451

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 : NHSAU 694-33

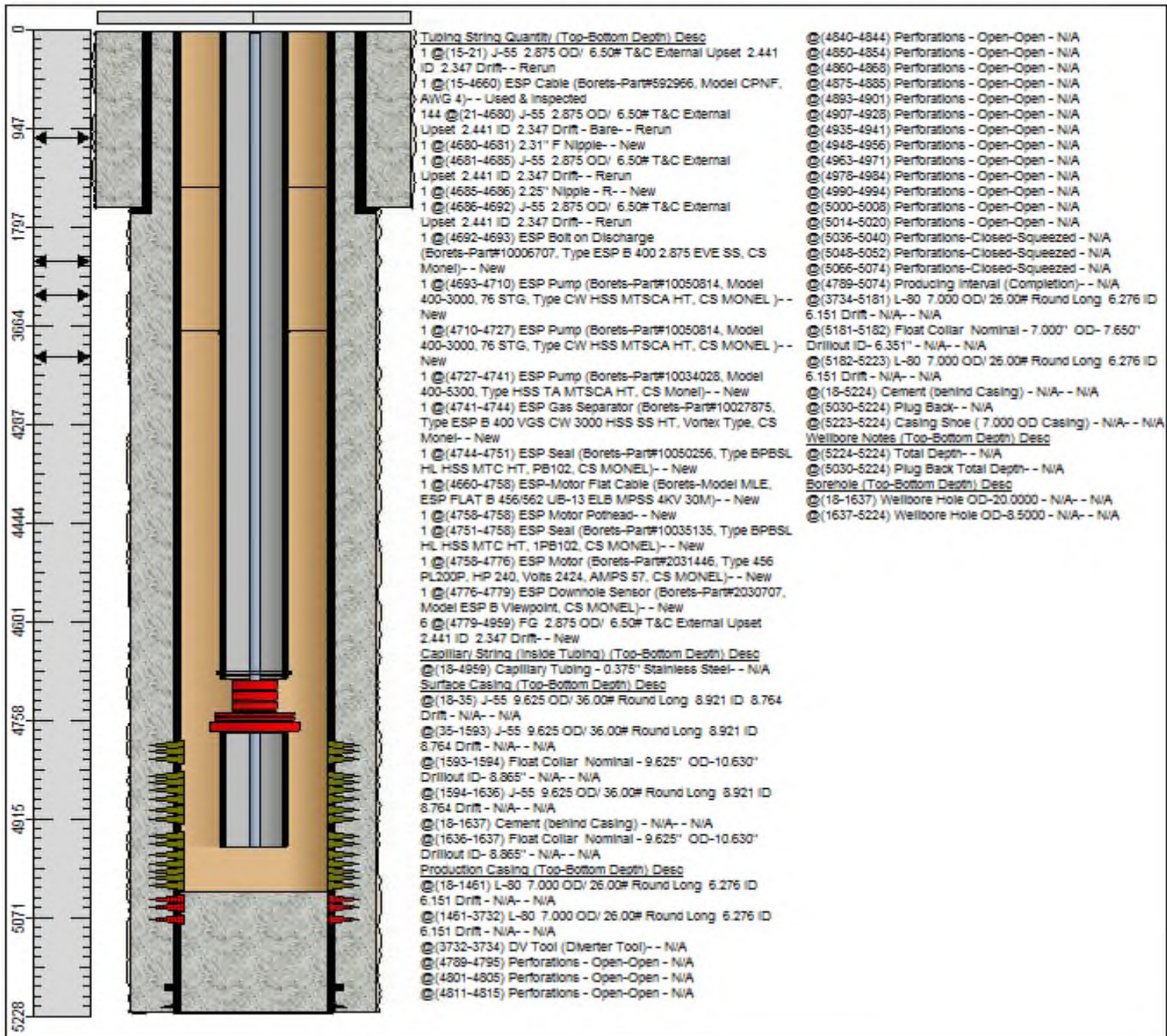




API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-44719	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	695	Oil	Active	950	N	2188	W	C	33	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'

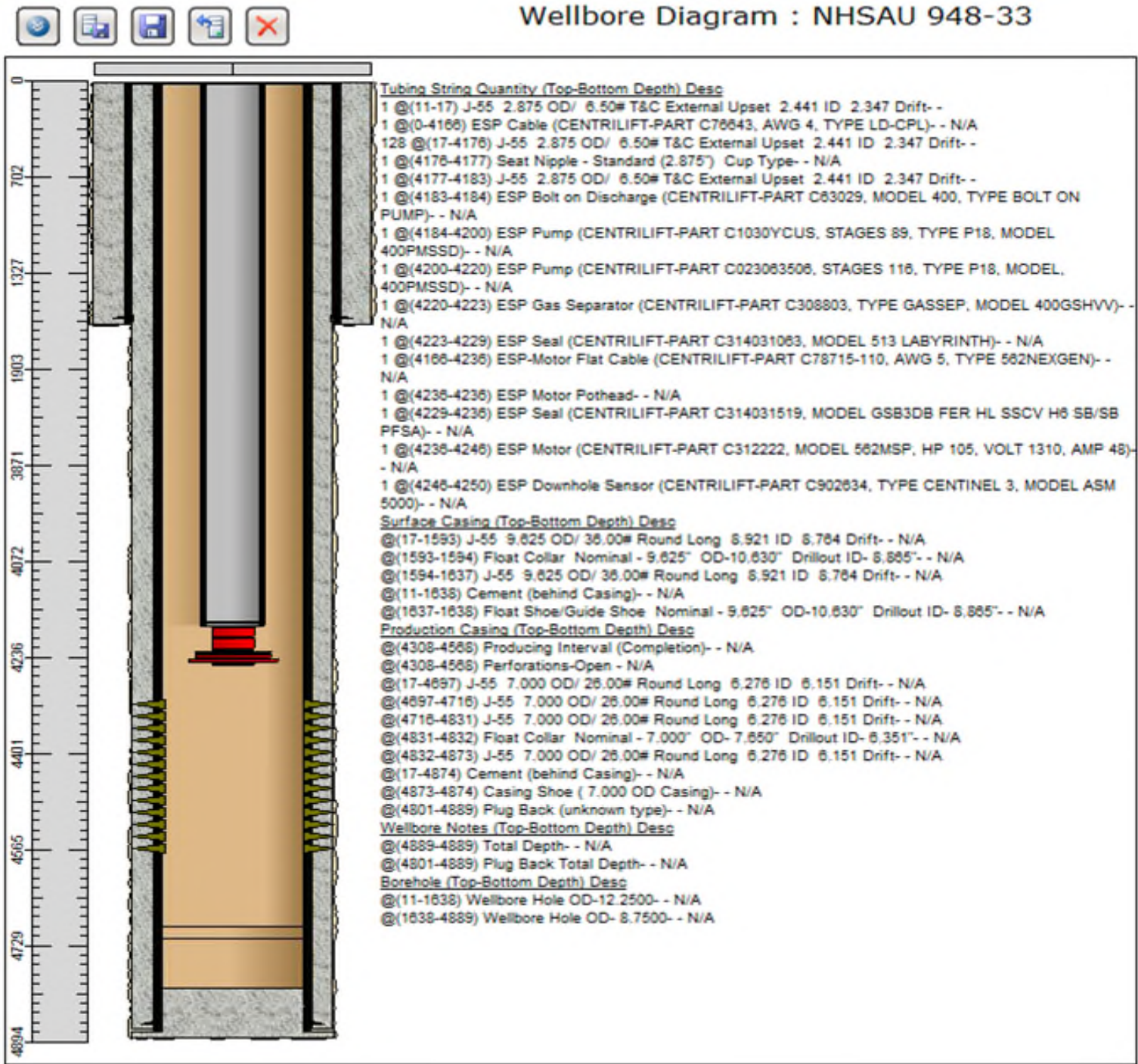


## Wellbore Diagram : NHSAU 695-33





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
30-025-41578	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'



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
30-025-41643	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

