

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. 949
API 30-025-41643
Letter F, 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, CO₂, 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,

Jose Gago
Regulatory Engineer

DATE IN 4/29/21	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO. pBL2111950783
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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 _____ Á

PMX-303

[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.

David Luis Lopez

Print or Type Name _____ Signature _____ Title _____ Date _____

_____ e-mail Address _____

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: 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? 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).

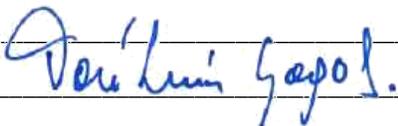
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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.

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. 949
 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. 949
- 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 #949" (API: 30-25-41643) 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
30-025-07546	NORTH HOBBS G/SA UNIT 331	OCCIDENTAL PERMIAN LTD	P & A
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
30-025-07569	SOUTH HOBBS G/SA UNIT 003	OCCIDENTAL PERMIAN LTD	P & A
30-025-12757	NORTH HOBBS G/SA UNIT 341	OCCIDENTAL PERMIAN LTD	P & A
30-025-23759	CONOCO STATE 001	OXY USA INC	P & A
30-025-24005	CONOCO STATE 004	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
30-025-35011	NORTH HOBBS G/SA UNIT 734	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
30-025-43282	NORTH HOBBS G/SA UNIT 693	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
30-025-44720	NORTH HOBBS G/SA UNIT 697	OCCIDENTAL PERMIAN LTD	New Well
30-025-44721	NORTH HOBBS G/SA UNIT 696	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: _____

WELL NAME & NUMBER: NORTH HOBBS G/SA UNIT #949

WELL LOCATION:	<u>2243' FNL & 2046' FWL</u>	<u>F</u>	<u>33</u>	<u>18S</u>	<u>38E</u>
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4" Casing Size: 9-5/8"
 Cemented with: 650 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: 8-3/4" Casing Size: 7"
 Cemented with: 940 sx. **or** _____ ft³
 Top of Cement: Surface Method Determined: Circulated
 Total Depth: 5228' MD

Injection Interval

4500' feet to 4950' - PERFORATED

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 - 7/8" Lining Material: Duoline

Type of Packer: 7" x 2 3/8" 14-20# AS1-X Double Grip injection Packer

Packer Setting Depth: 4580' MD

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

Additional Data

1. Is this a new well drilled for injection? _____ Yes 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' TVD

Glorieta @ +/- 5300'TVD

WELLBORE DIAGRAM

(updated: 03/04/2021 CER)

Revision 0

WELL# **NORTH HOBBS G/SA UNIT #949**

API# **30-025-41643**

Zone: **San Andres**

Spud: **3/16/2014**

GL elev

3633.0'

NORTH HOBBS G/SA UNIT #949

CEMENT

DEVIATION SURVEYS

DEPTH

DEGREE

Surface Casing

Cement with 450 sx Premium Plus 13.5 ppg lead, 200 sx premium plus 14.8 ppg

CIRCULATED 243 sx TO SURFACE

12-1/4" hole

9-5/8" 36# set at 1626'

Production Casing

First Stage Cemented w/320 sx 14.8 ppg Premium Plus.

Sccond Stage: Cemented w/ 310 sx 11.9 ppg interfill 'C' lead, 310 14.2 ppg Premium Plus Tail

Circulated 67 sx on the first stage

Circulated 67 sx on the first stage

8-3/4" Hole

Perfs 4630-46', 4682-88', 4706-12', 4720-36', 4754-60', 4768-82', 4802-14', 4822-42', 4850-60', 4875-85'

7" 26# set at 5228'

WELLBORE DIAGRAM

(updated: 03/04/2021 CER)

Revision 0

WELL# NORTH HOBBS G/SA UNIT #949

API# 30-025-41643

Zone: San Andres

Spud: 3/16/2014

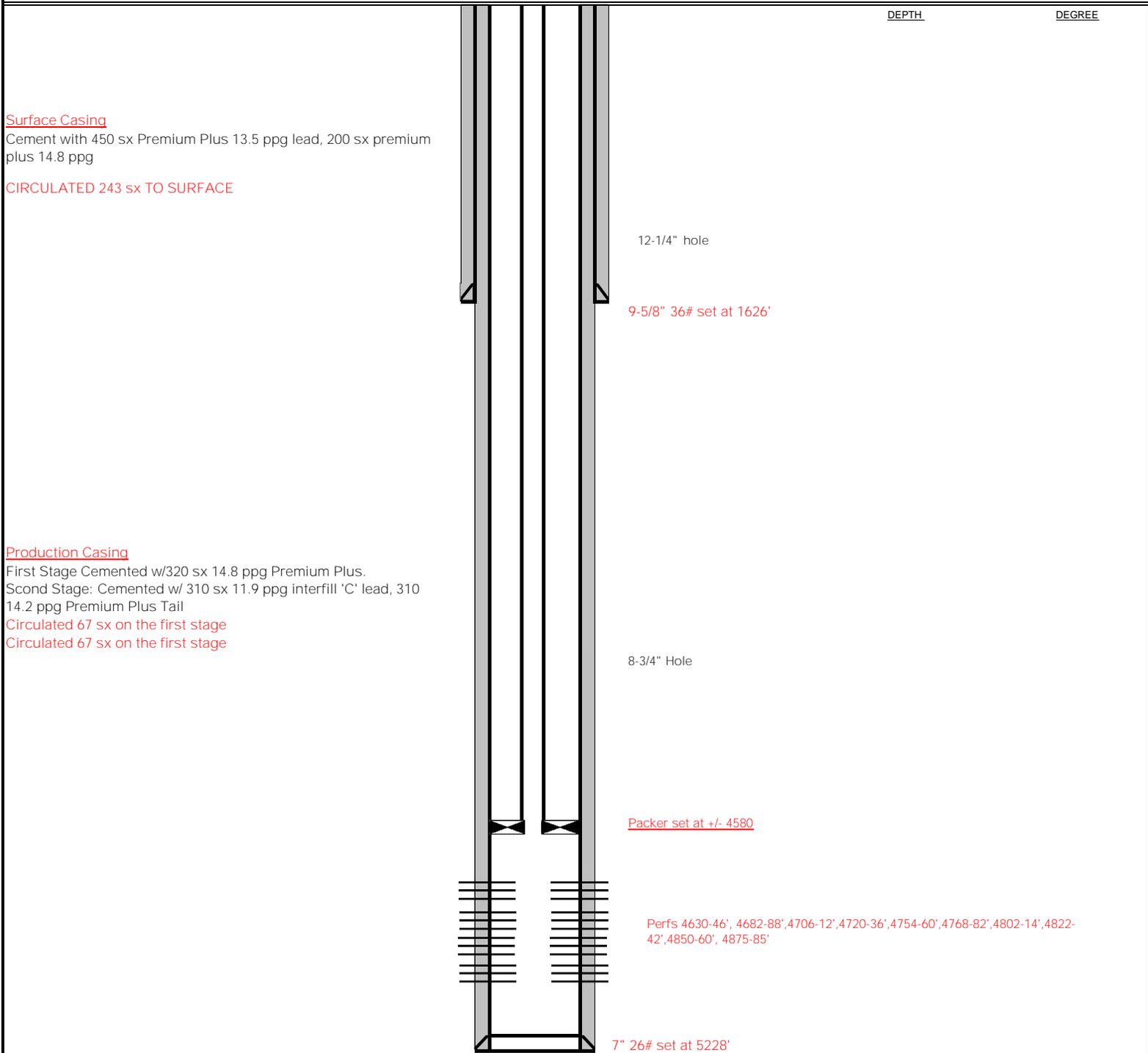
GL elev

3633.0'

NORTH HOBBS G/SA UNIT #949

CEMENT

DEVIATION SURVEYS



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
HOBBS OCOIL 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

JUN 09 2014

AMENDED REPORT

RECEIVED
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-41643	Pool Code 31920	Pool Name HOBBS; GRAYBURG-SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 949
OGRID No. 157984	Operator Name OCCIDENTAL PERMIAN LTD.	Elevation 3641.2'

Surface Location

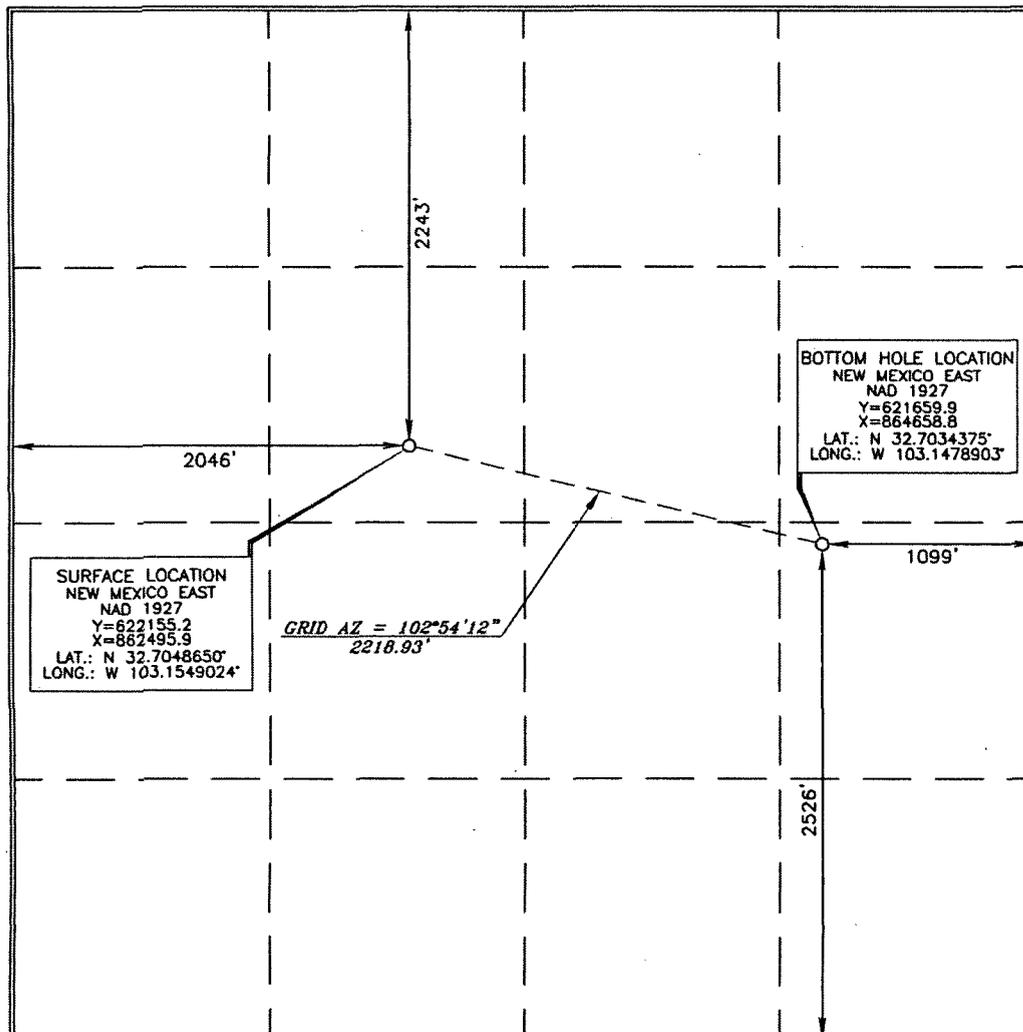
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	18 SOUTH	38 EAST, N.M.P.M.		2243'	NORTH	2046'	WEST	LEA

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
I	33	18 SOUTH	38 EAST, N.M.P.M.		2526'	SOUTH	1099'	EAST	LEA

Dedicated Acres 40	Joint or Infill I	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.

Signature: Mark Stephens Date: 6/5/14

Printed Name: Mark Stephens
E-mail Address: Mark.Stephens@oxy.com

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.

Date of Survey: OCTOBER 15, 2013

Signature and Seal of Professional Surveyor: Terry J. Asch

Certificate Number: 15079

JUL 17 2014

★ **NHSAU 949**
30-025-41643
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

- ★

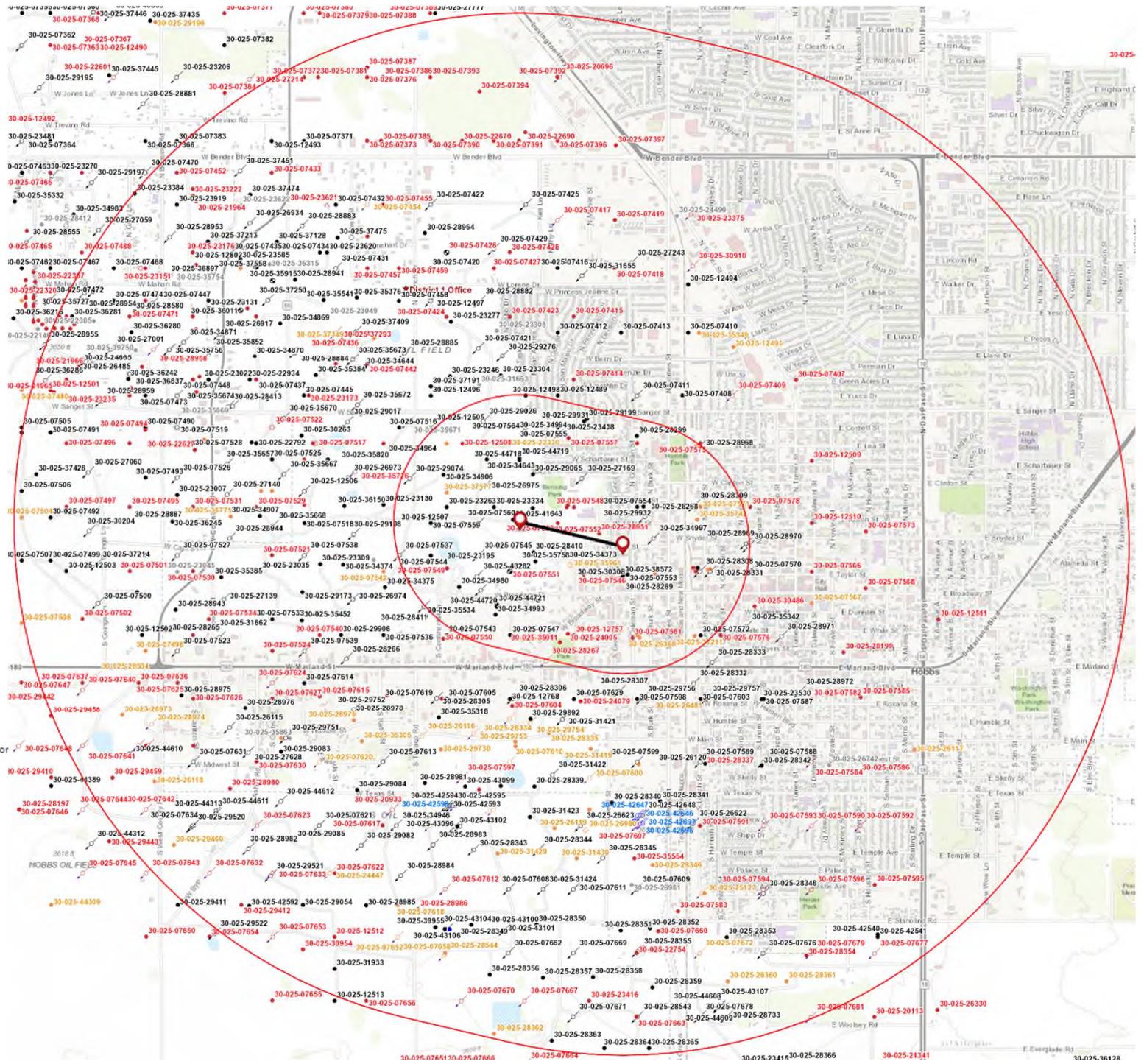
Public Land Survey System

PLSS Second Division

-

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	13.375	418	410	Surf	Circ	6611'-6975' UPPER BLINEBRY	Well Plugged on 05/29/2019
																12.25	9.625	3799	350	1089	Calc	6585'-6600'	
																8.75	7	7075	900	3658	Calc	TUBB (GAS)	
																0	4.5	7010	845	Surf	Circ	5871'-6029' DRINKARD	

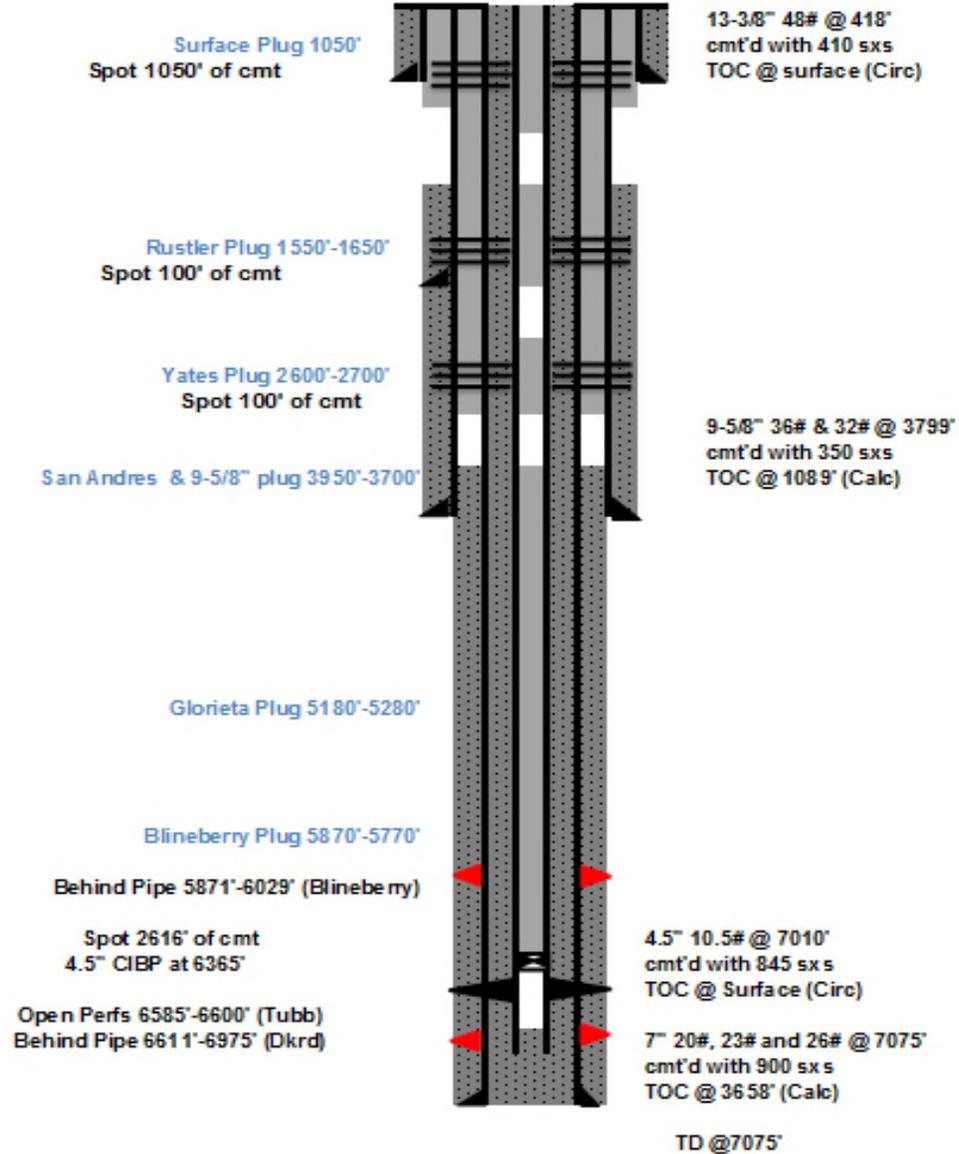


Conoco St 1

API# 30-025-23759

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
30-025-24005	OXY USA INC	CONOCO STATE	004	Oil	Plugged, Not Released	688	S	2111	E	O	33	18S	38E	26318	7080	17	13.375	378	350	Surf	Circ	6611'-6961'	Well Plugged on 06/05/2019
																12.25	9.625	3800	350	Calc	6523'-6534'		
																8.75	7	7080	600	Calc	TUBB (GAS)		
																					5814'-6029'		

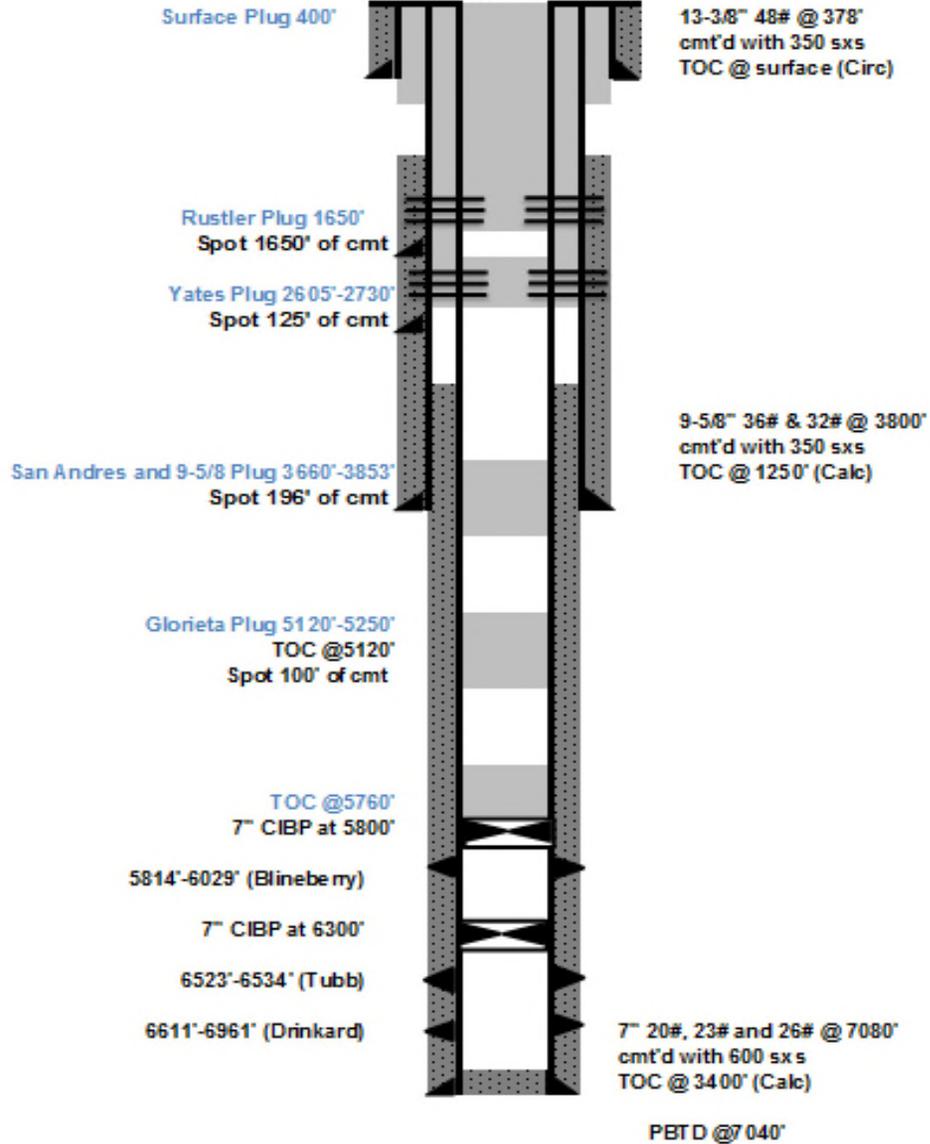


Conoco St 4

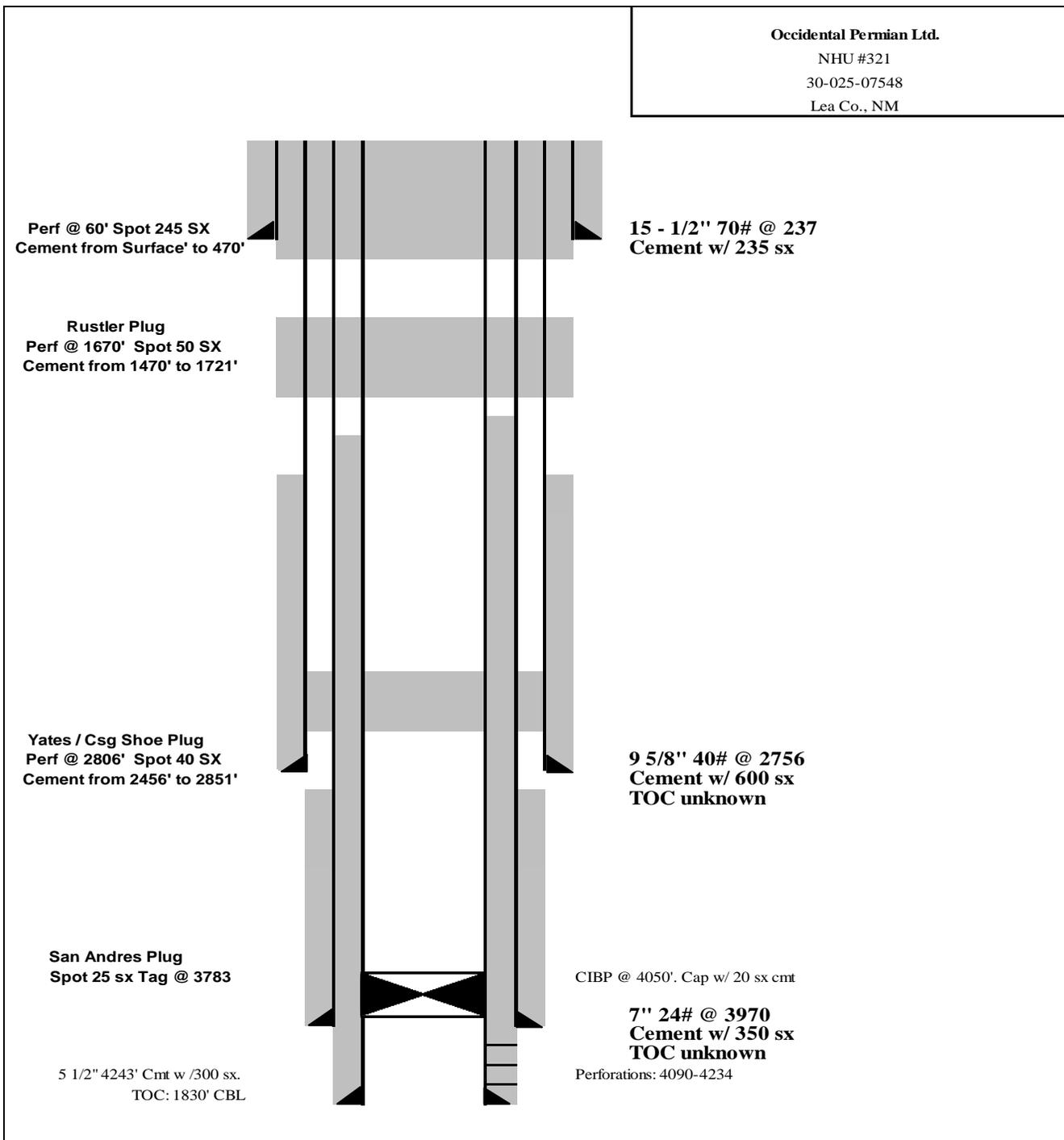
API# 30-025-24005

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 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



Occidental Permian Ltd.
 NHU #321
 30-025-07548
 Lea Co., NM

Perf @ 60' Spot 245 SX
 Cement from Surface' to 470'

15 - 1/2" 70# @ 237
 Cement w/ 235 sx

Rustler Plug
 Perf @ 1670' Spot 50 SX
 Cement from 1470' to 1721'

Yates / Csg Shoe Plug
 Perf @ 2806' Spot 40 SX
 Cement from 2456' to 2851'

9 5/8" 40# @ 2756
 Cement w/ 600 sx
 TOC unknown

San Andres Plug
 Spot 25 sx Tag @ 3783

CIBP @ 4050'. Cap w/ 20 sx cmt

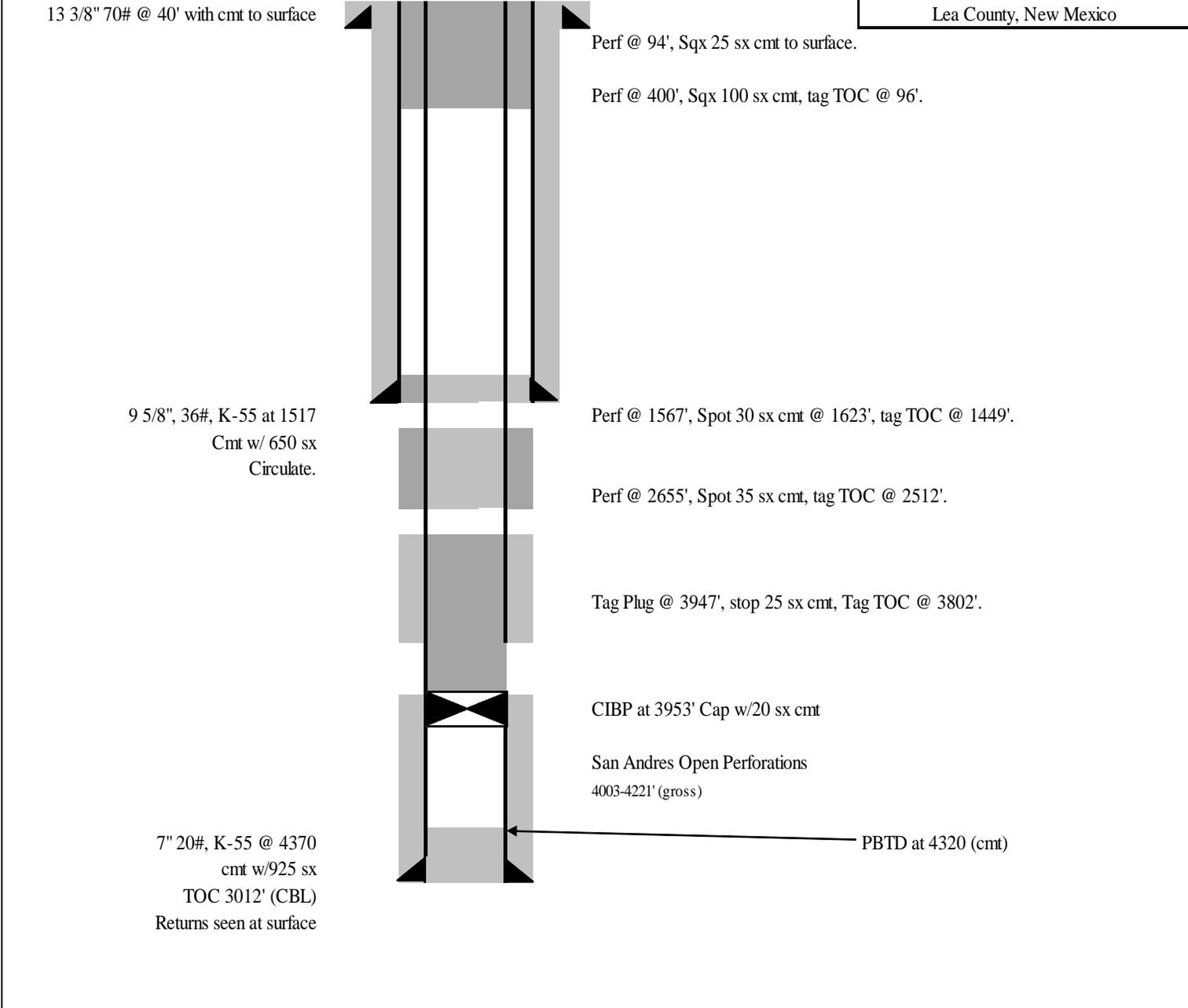
5 1/2" 4243' Cmt w /300 sx.
 TOC: 1830' CBL

7" 24# @ 3970
 Cement w/ 350 sx
 TOC unknown

Perforations: 4090-4234

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	
30-025-28951	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	323	Oil	Plugged, Site Released	2525	N	1453	E	G	33	18S	38E	6/5/1985	4370	0 0 0	13.375 9.625 7	40 1517 4370	0 650 925	Surf Surf 3012	Circ Circ CBL		4003'-4221' GRAYBURG-SAN ANDRES	Well Plugged on 04/11/2014

Occidental Permian Ltd.
 NHSAU #323
 30-025-28951
 Surface: 2525' FNL and 1453' FEL
 Unit Letter 'G' Section 33 T18S, R38E
 Lea County, New Mexico



13 3/8" 70# @ 40' with cmt to surface

Perf @ 94', Sqx 25 sx cmt to surface.

Perf @ 400', Sqx 100 sx cmt, tag TOC @ 96'.

9 5/8", 36#, K-55 at 1517
Cmt w/ 650 sx
Circulate.

Perf @ 1567', Spot 30 sx cmt @ 1623', tag TOC @ 1449'.

Perf @ 2655', Spot 35 sx cmt, tag TOC @ 2512'.

Tag Plug @ 3947', stop 25 sx cmt, Tag TOC @ 3802'.

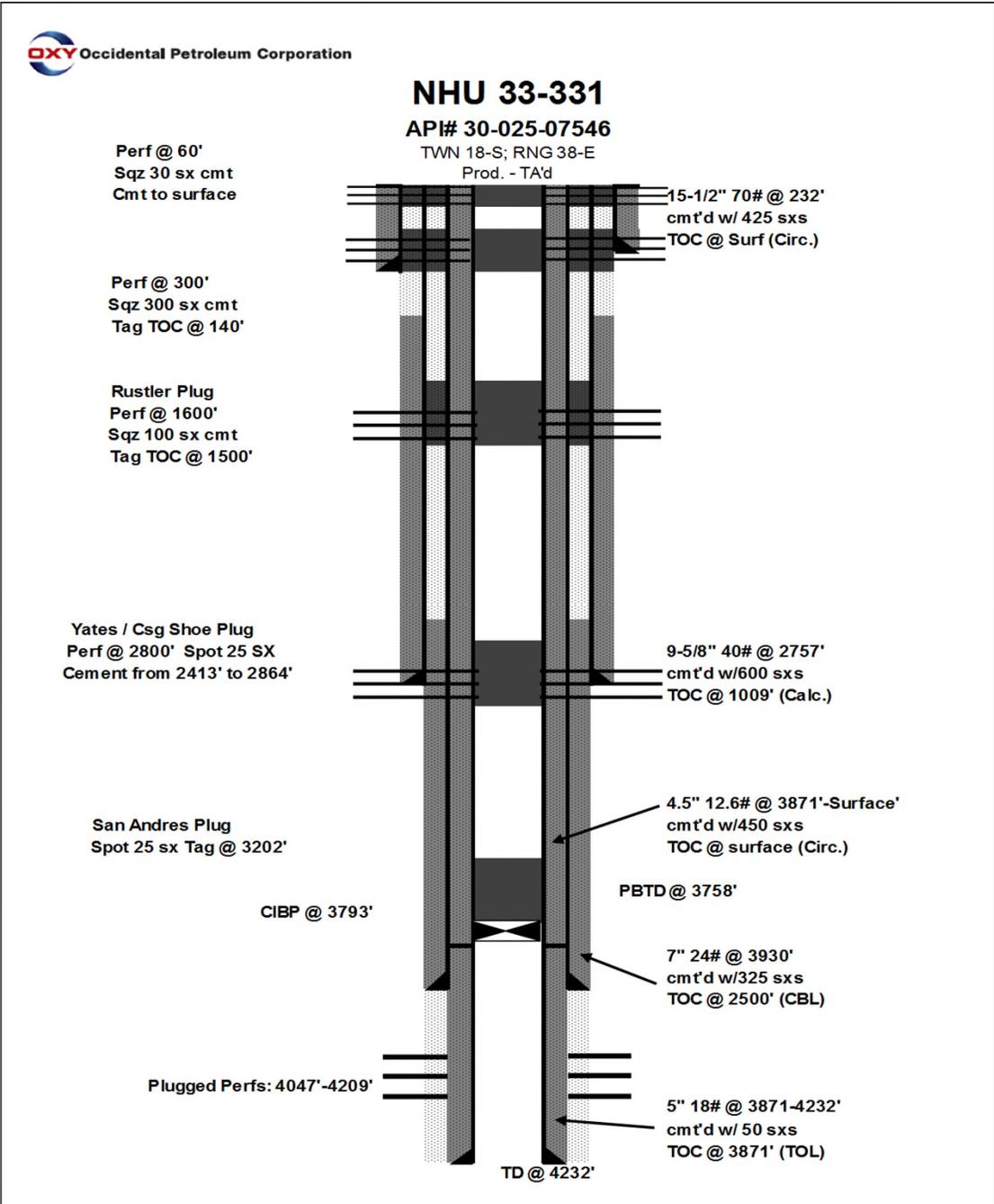
CIBP at 3953' Cap w/20 sx cmt

San Andres Open Perforations
4003-4221' (gross)

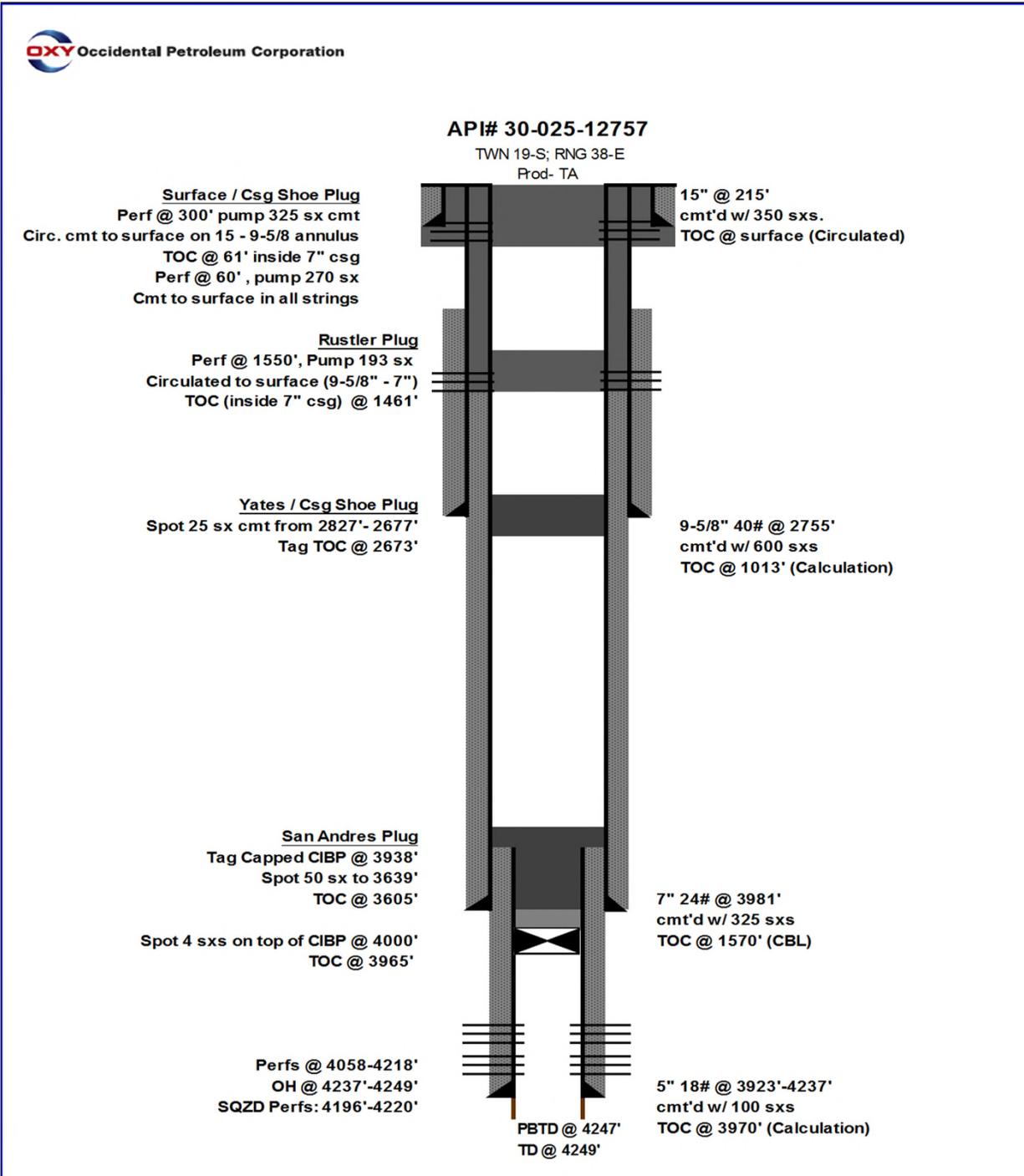
7" 20#, K-55 @ 4370
cmt w/925 sx
TOC 3012' (CBL)
Returns seen at surface

PBTD at 4320 (cmt)

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
30-025-07546	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	331	Oil	Plugged, Site Released	1920	S	1780	E	J	33	18S	38E	10/1/1931	4234	15.500 9.625 7.000 5 7	15.500 9.625 7.000 5 4.5	425 2757 3928 4232 3871	425 425 325 50 450	Surf Surf Surf 3871 Surf	Circ Calc CBL Circ Circ	4047'-4054' GRAYBURG-SAN ANDRES	Well Plugged on 02/25/2019 and site released on 10/11/2019



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
30-025-12757	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA UNIT	341	Oil	Plugged, Site Released	660	S	1980	E	O	33	18S	38E	10/17/1931	4247	0 0 0	15 9.625 7 5	215 2755 3981 4237	350 600 325 100	Surf 1013 1570 3970	Circ Calc CBL Calc	4058'-4220'	Well Plugged on 03/05/2019



API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSH.P.	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

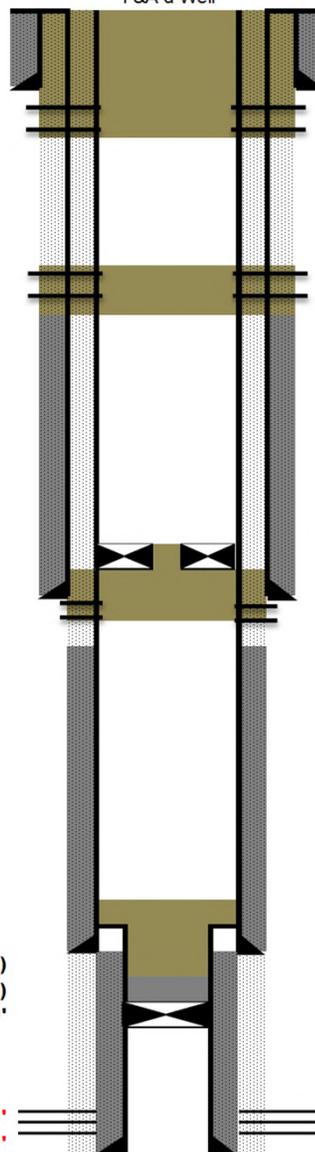


NHU 33-411

API# 30-025-07556

TWN 18-S; RNG 38-E

P&A'd Well



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

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'

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



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

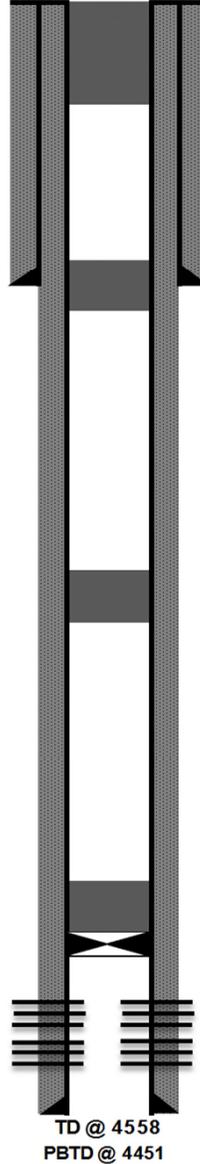
Yates Plug
Spot 100' of cmt from 2800'
TOC @ 2680'

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.)

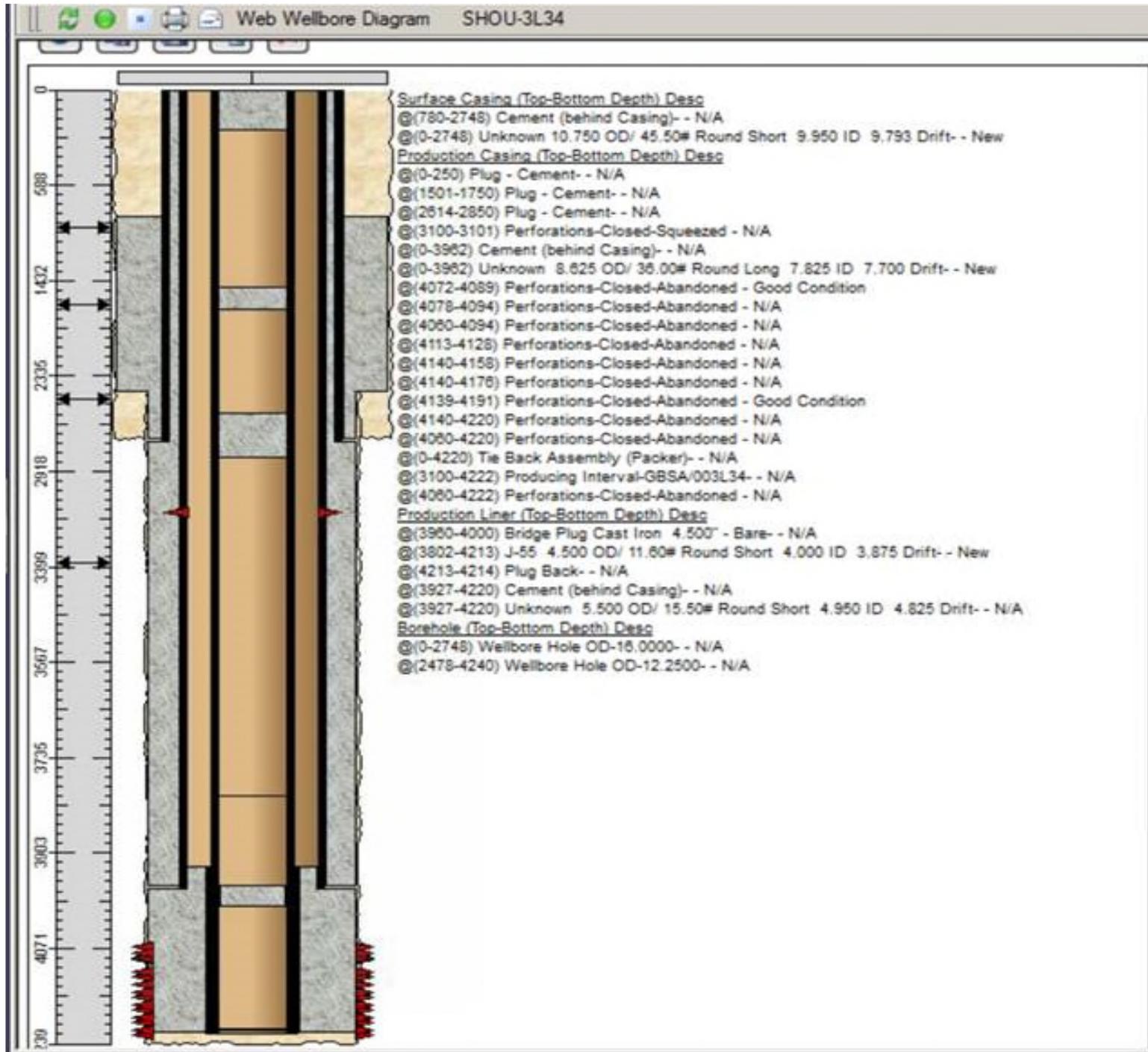
5 1/2" 15.5# @ 4558'
cmt'd w/1000 sxs
TOC @ Surface (Circ.)



TD @ 4558

PBTD @ 4451

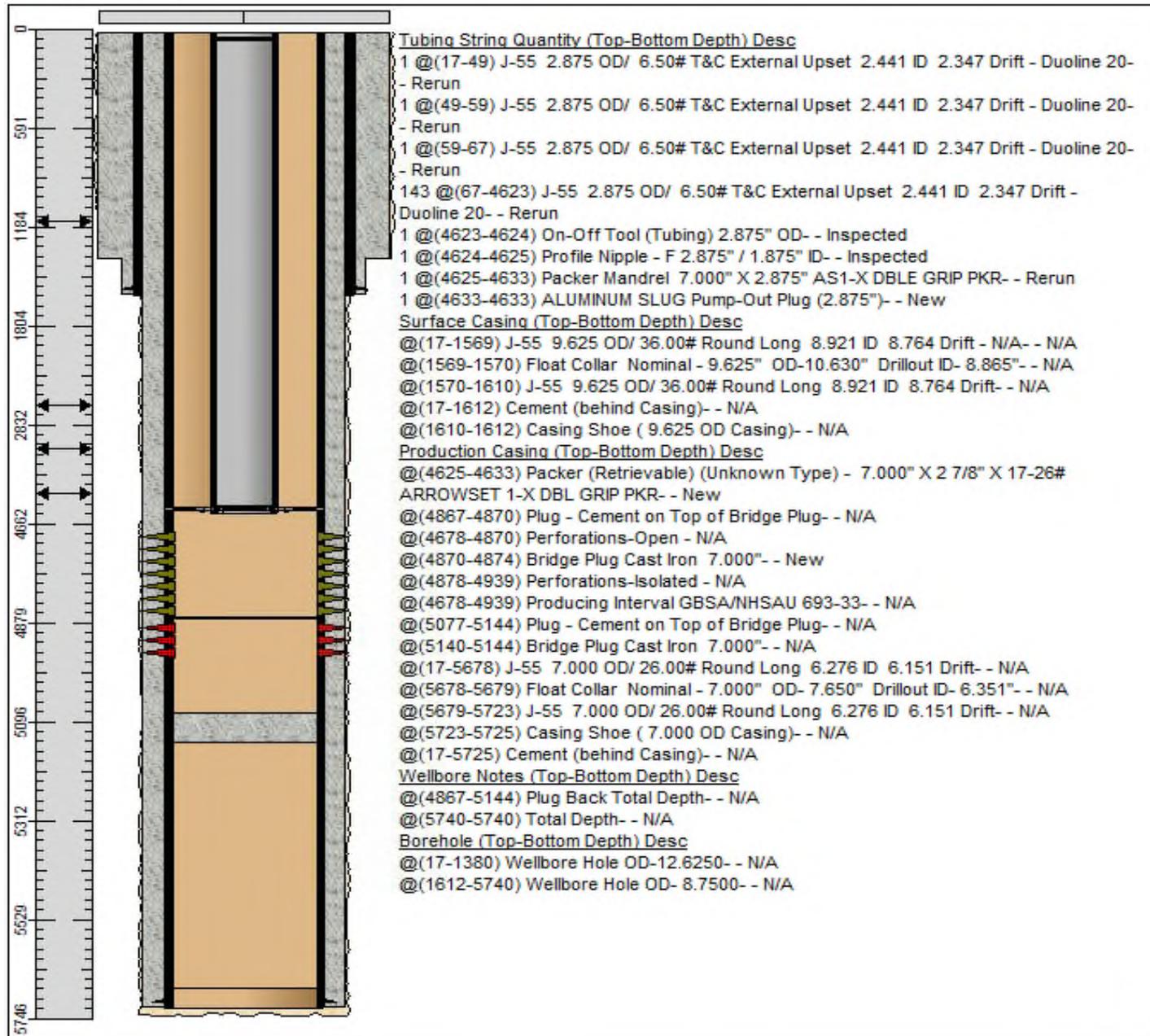
API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TVD (ft)	HOLE SIZE (in)	CSG. SIZE (in)	SET AT (ft)	SX. CMT.	CMT. TOP (ft)	MTD.	COMPLETION	REMARKS
30-025-07569	OCCIDENTAL PERMIAN LTD	SOUTH HOBBS G/SA UNIT	003	Oil	Plugged, Site Released	1980	S	560	W	L	34	18S	38E	2/15/1932	4240	0	16	216	125	Surf	Circ	4060'-4222' GRAYBURG-SAN ANDRES	Well Plugged on 03/28/2019
																0	10.75	2748	400	780	Calc		
																0	8.625	3962	1118	Surf	Circ		
																0	5.5	4220	486	850	Calc		



API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. N/S	N/S	FTG. E/W	E/W	UNIT	SEC.	TSHF.	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 8.750	9.625 7.000	1569 5724	630 1350	Surf 0	Calc Calc	4678'-4939'	GRAYBURG-SAN ANDRES	



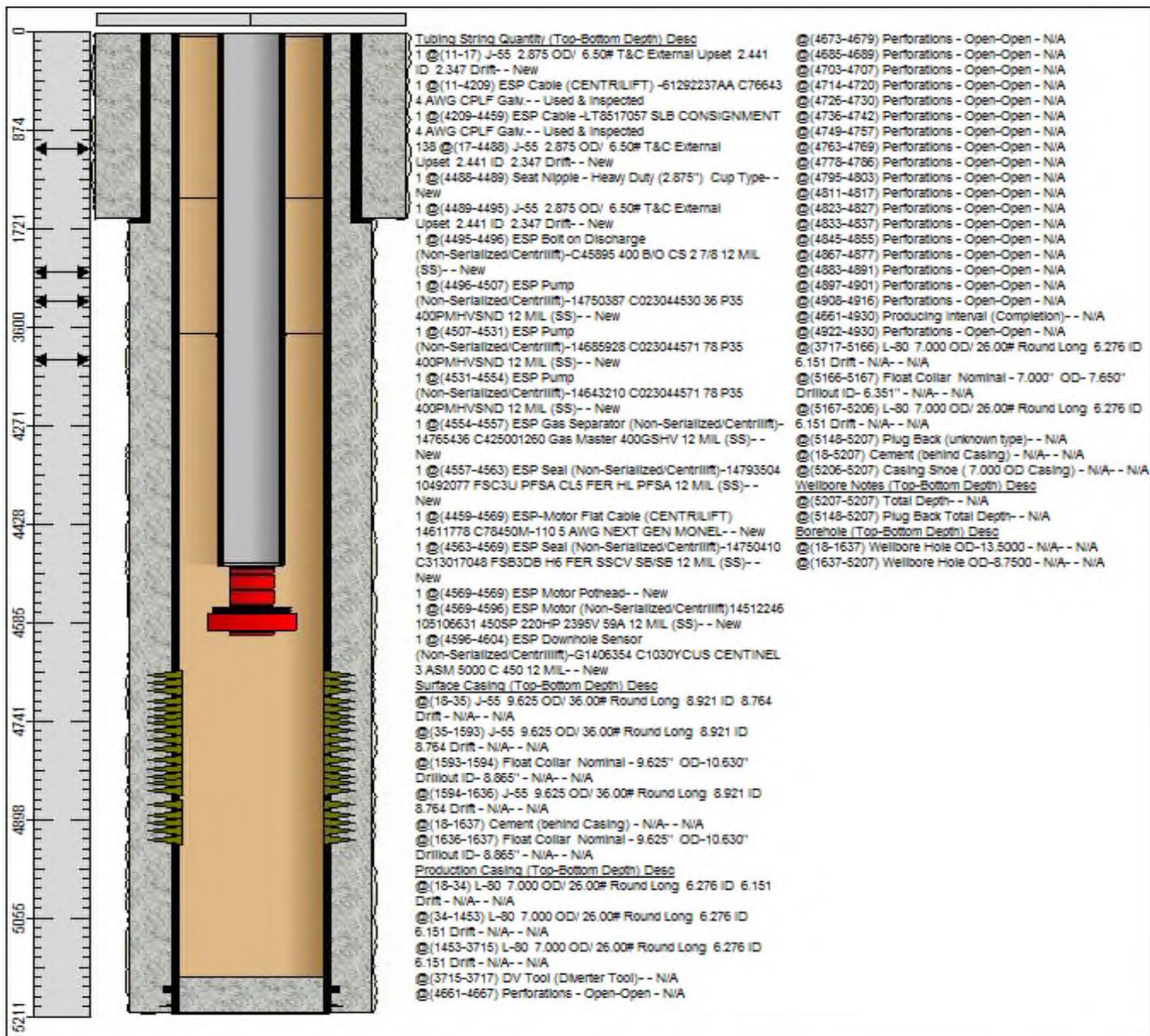
Wellbore Diagram : NHSAU 693-33



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'



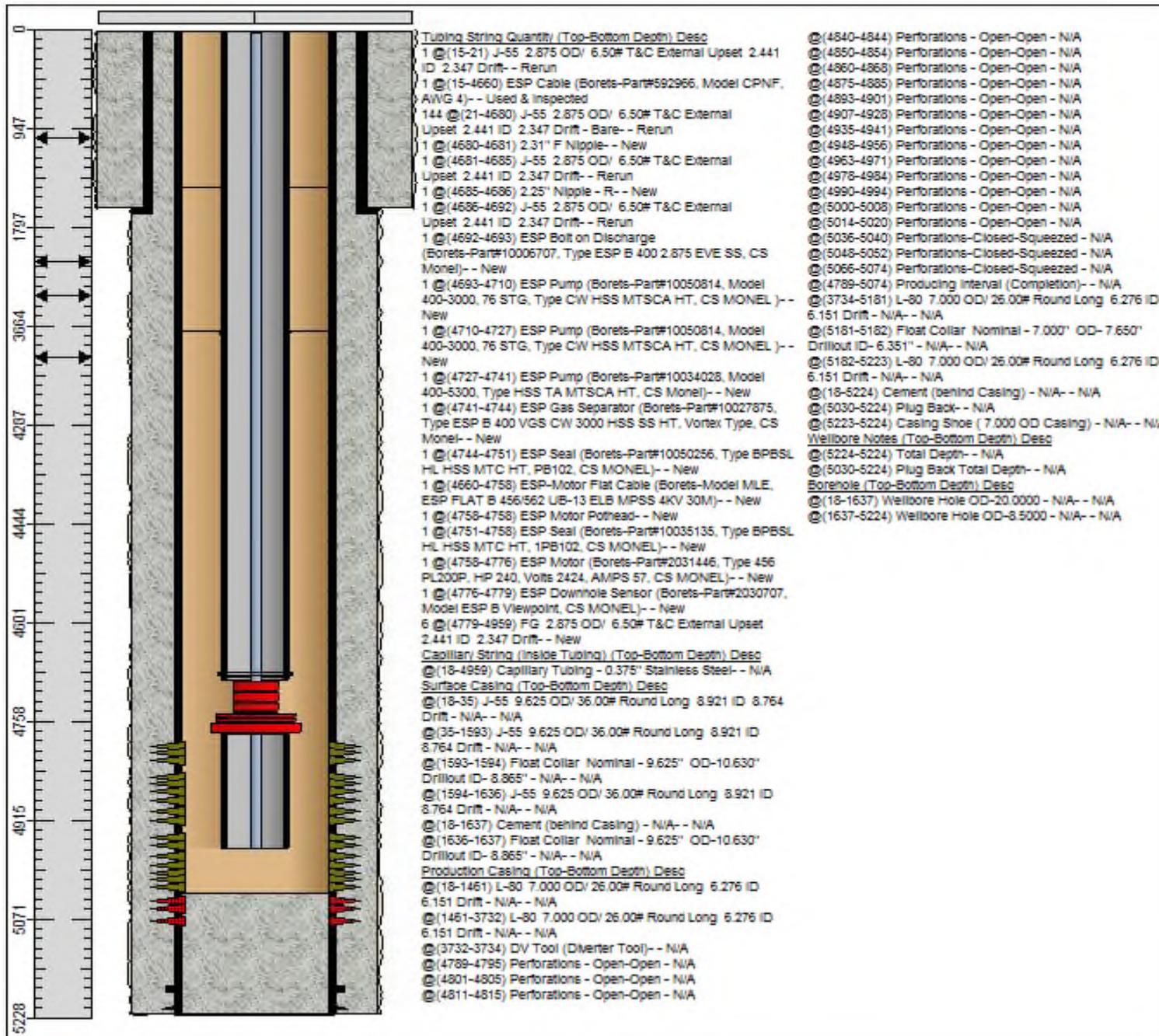
Wellbore Diagram : NHSAU 694-33



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'



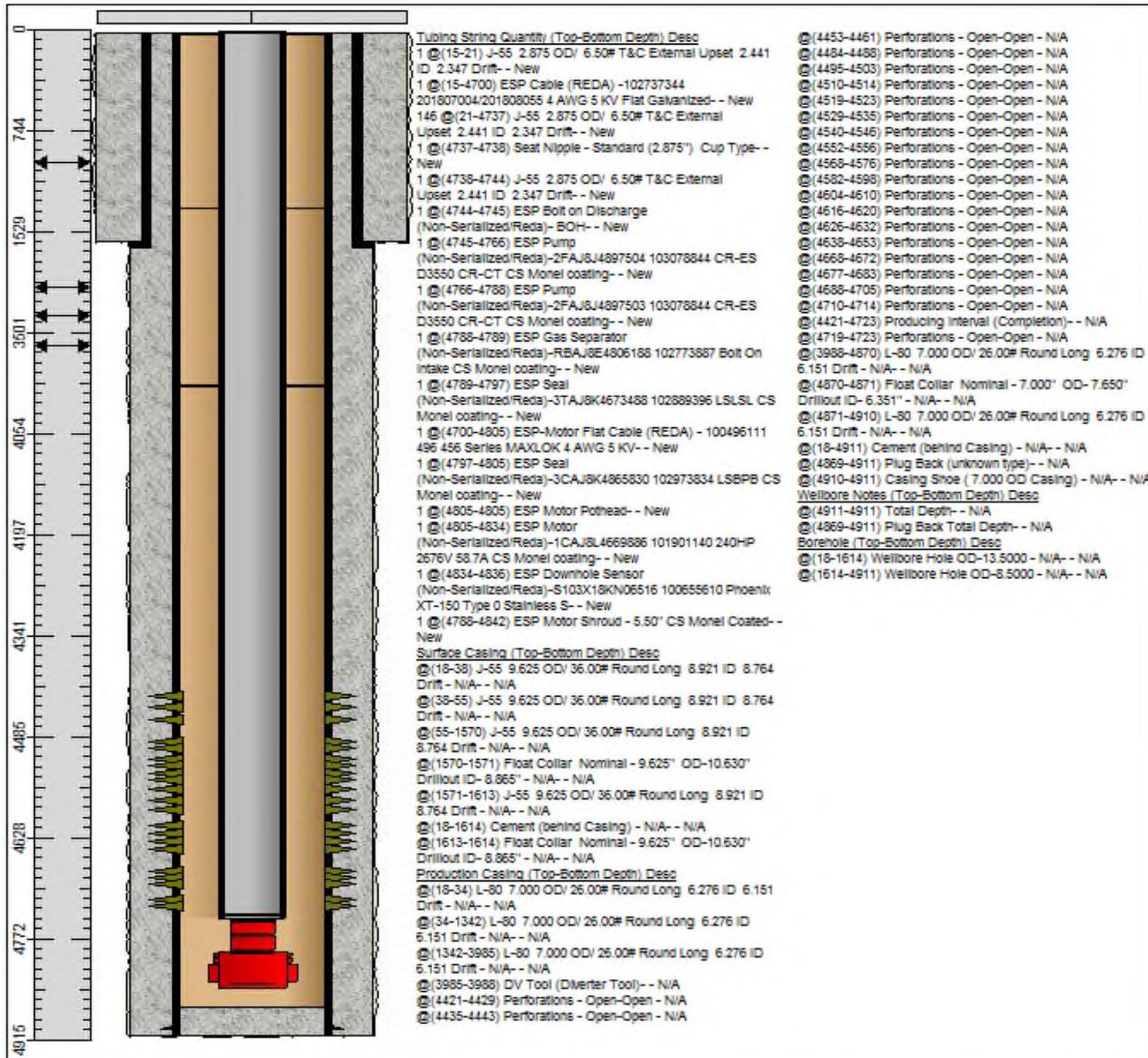
Wellbore Diagram : NHSAU 695-33



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	
30-025-44721	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	696	Oil	Active	1298	S	1702	W	N	33	185	38E	1/8/2019	4449	13.500 8.750	9.625 7.000	1593 4911	865 1155	Surf 0	Circ Calc	4421'-4723'	GRAYBURG-SAN ANDRES	DV tool at 3,987'



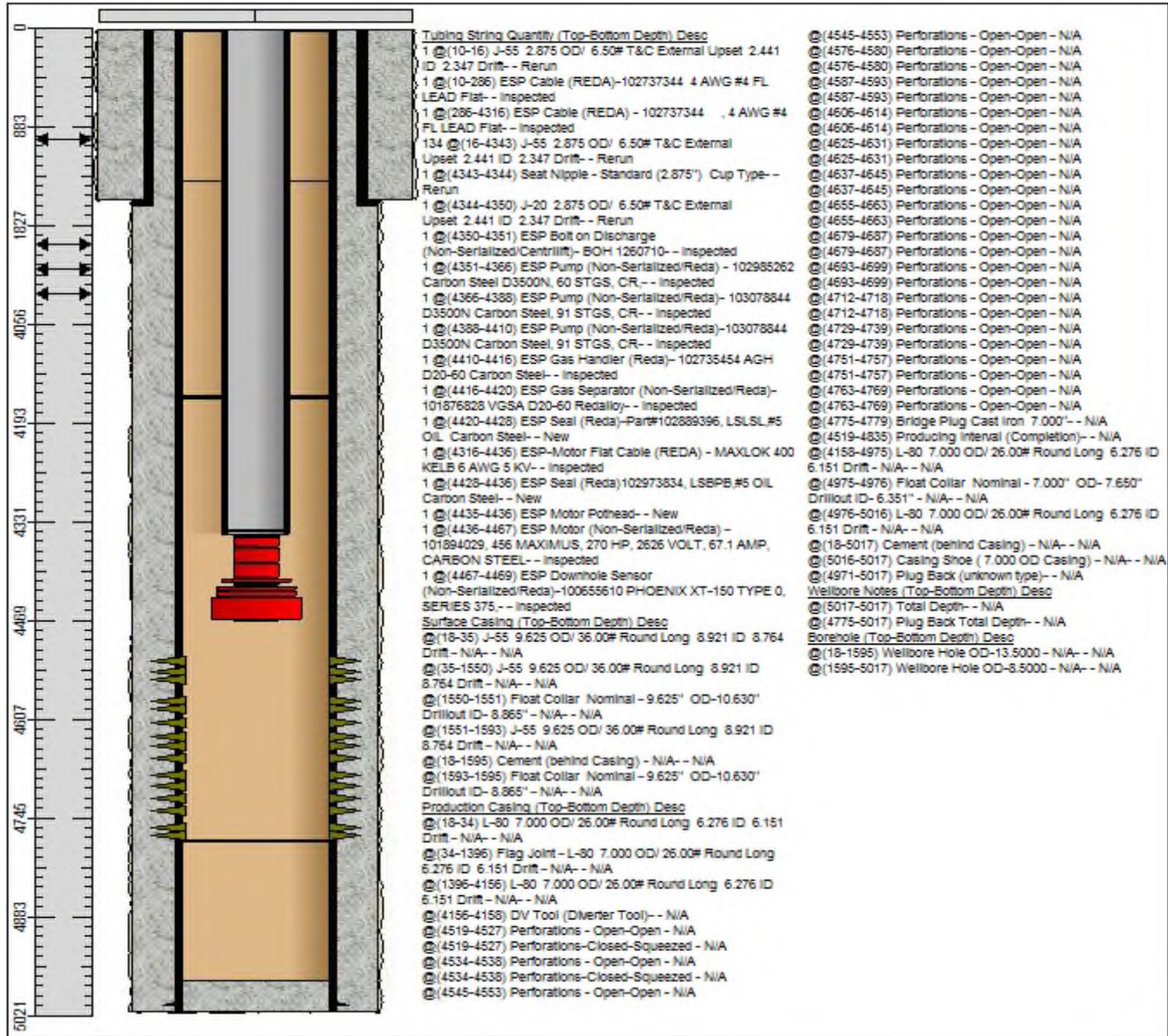
Wellbore Diagram : NNSAU 696-33



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	
30-025-44720	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	697	Oil	Active	1248	S	1702	W	N	33	185	38E	1/15/2019	4469	13.375 8.750	9.625 7.000	1595 5017	865 835	Surf 0	Circ Calc	4519'-4835'	GRAYBURG-SAN ANDRES	DV tool at 4,158'



Wellbore Diagram : NNSAU 697-33



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
30-025-35011	OCCIDENTAL PERMIAN LTD	NORTH HOBBS	734	Oil	Plugged, Site Released	511	S	2275	E	O	33	185	38E	5/14/2000	4343	12.25 7.875	8.625 5.500	1543 4383	700 1000	Surf Surf	Circ Circ	4095'-4283' GRAYBURG-SAN ANDRES	Well Plugged on 03/06/2019

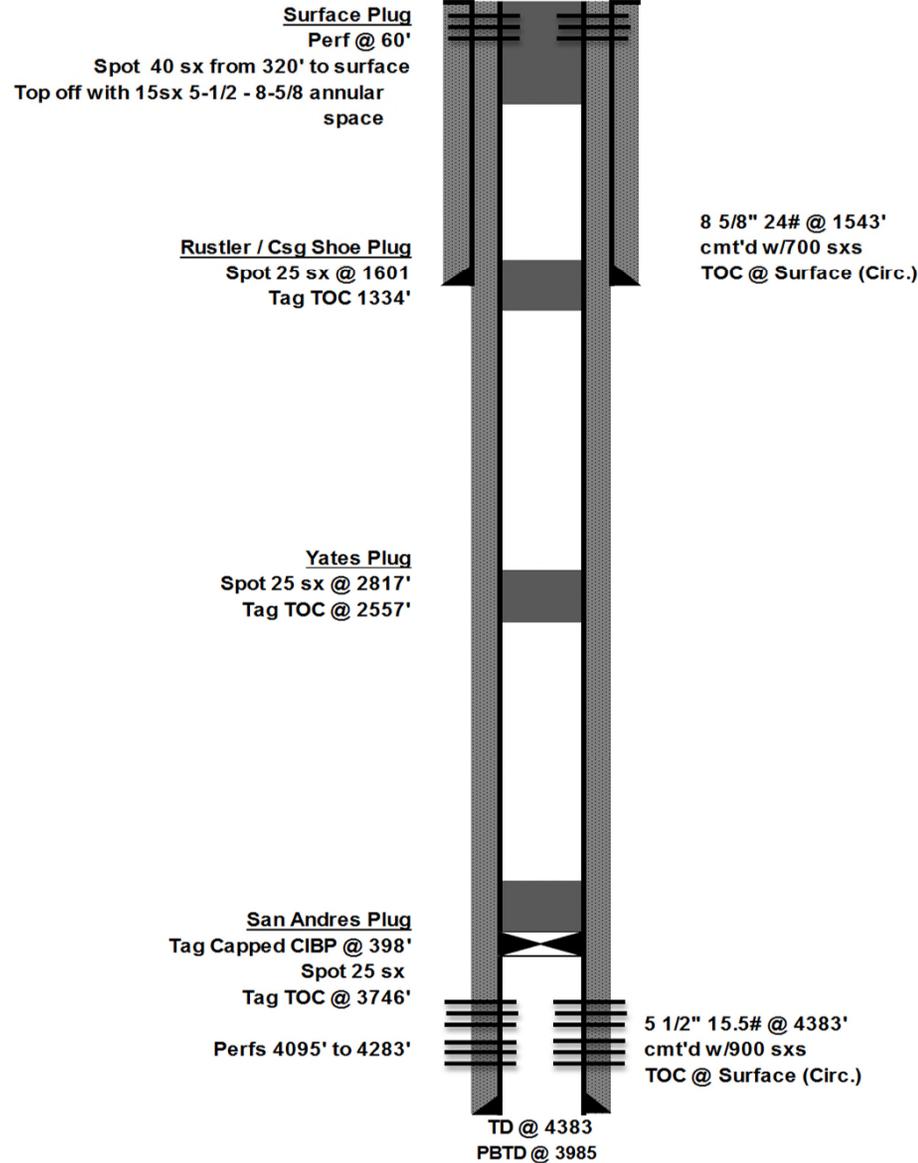


NHU 33-734

API# 30-025-35011

TWN 18-S; RNG 38-E

Prod- TA



Surface Plug
Perf @ 60'
Spot 40 sx from 320' to surface
Top off with 15sx 5-1/2 - 8-5/8 annular space

Rustler / Csg Shoe Plug
Spot 25 sx @ 1601
Tag TOC 1334'

Yates Plug
Spot 25 sx @ 2817'
Tag TOC @ 2557'

San Andres Plug
Tag Capped CIBP @ 398'
Spot 25 sx
Tag TOC @ 3746'

Perfs 4095' to 4283'

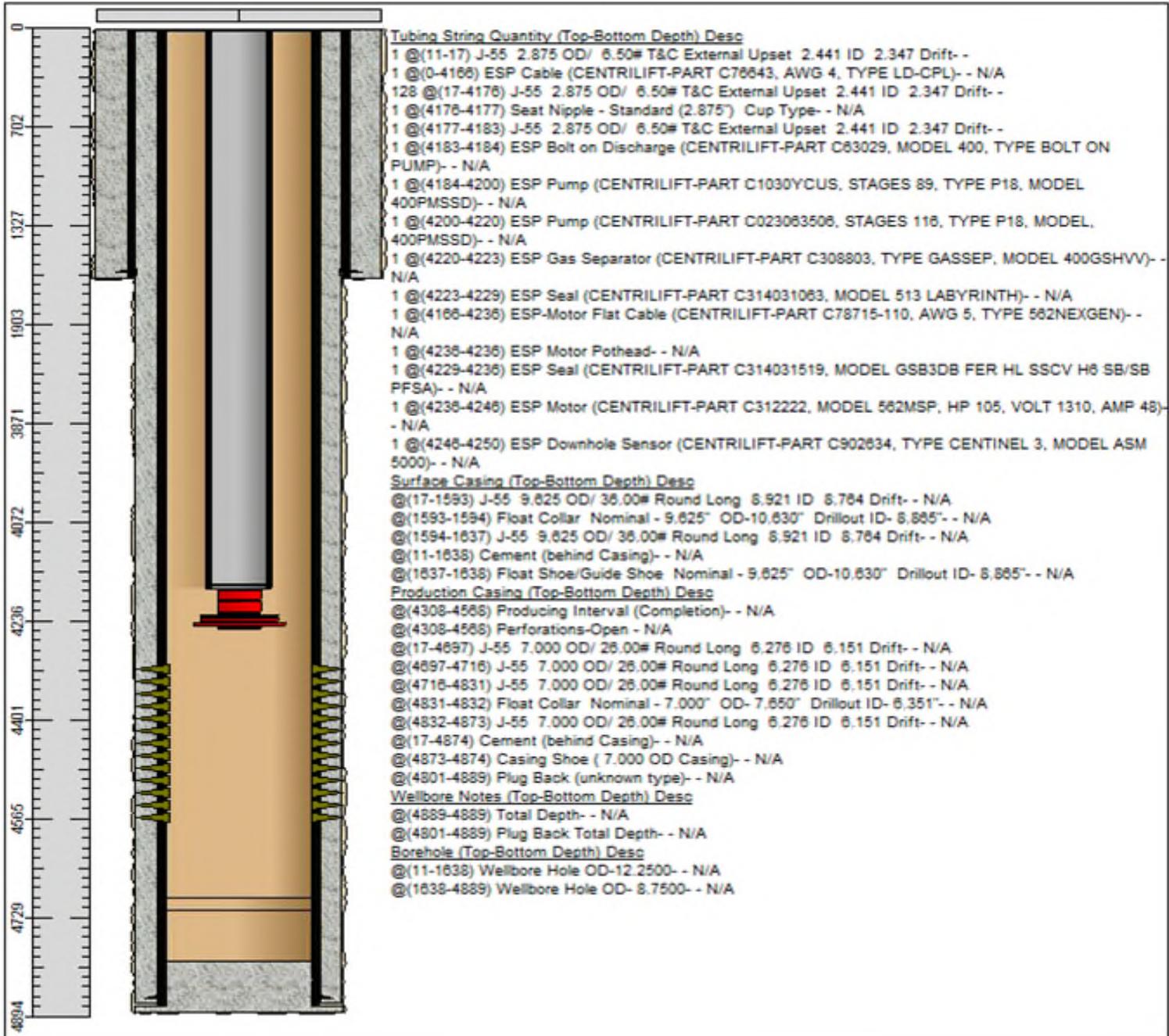
5 1/2" 15.5# @ 4383'
cmt'd w/900 sxs
TOC @ Surface (Circ.)

TD @ 4383
PBTD @ 3985

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	4308'-4568' GRAYBURG-SAN ANDRES	DV Tool at 3,779'



Wellbore Diagram : NHSAU 948-33



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
30-025-41643	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 : NNSAU 949-33

