Initial

Application

Part I

Received 10/20/21

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

October 19, 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 G/SA Unit
Well No. 965
API: New Drill
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

*** 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

O51JY-211020-C-1080

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
10/20/21				PMX	pBL2129433925

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

PMX-306

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-F)

[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.

Jose L Gago		Engineer, Regulatory	10/19/2021
Print or Type Name	Signature	Title	Date

jose_gago@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 __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).

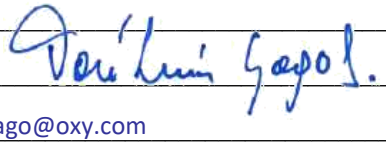
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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: 10/19/2021

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

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

Side 2

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

C-108 Application Attachment
Occidental Permian Ltd.
North Hobbs G/SA Unit No. 965
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 G/SA UNIT No. 965

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 #965" 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
30-025-23759	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
30-025-43282	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
   CO_2 1,250 PSIG

CO2 w/produced gas 1,770 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.

a. Well will be perforated using slick gun system, 4- jspf, 90-degree phasing
b. Acid stimulated using ~ 6000 gals of 15% HCL NEFE, pumped using a straddle packer assembly (PPI – Tool)
c. Acid will be flush with approximately 100 bbls of fresh water
d. Max injection rate per cluster: 4 to 5 bpm.

X. Logs will be filed at the time of drilling.

XI. The information was previously submitted as part of case No. 15103 Order R6199F – Effective May 22, 2014.

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Occidental Permian LTD.

WELL NAME & NUMBER: NORTH HOBBS G/SA UNIT 965

WELL LOCATION:	1488'FNL & 2027'FWL	F	33	18S	38E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13 1/2" Casing Size: 9 5/8"

Cemented with: 515 sx. ***or*** _____ ft^3

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. ***or*** _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

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

Cemented with: 925 sx. ***or*** _____ ft^3

Top of Cement: Surface Method Determined: Circulated

Total Depth: 5025'

Injection Interval

perforated from 3950' TVD feet to Base of the unit @ 4500' TVD

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

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

Type of Packer: 5-1/2" x 2 3/8" 14-20# AS1-X Double Grip injection Packer

Packer Setting Depth: approx. 3900' TVD or 4330' MD

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

Additional Data

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

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

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:

   Queen @ -250' TVDSS or 3400' TVD

   Glorieta @ -1650' TVDSS or 5300' TVD

WELLBORE DIAGRAM

(updated: 10/07/2021)

Revision 0

WELL# NORTH HOBBS G/SA UNIT #965
API# TBD

Zone: San Andres
Spud: TBD

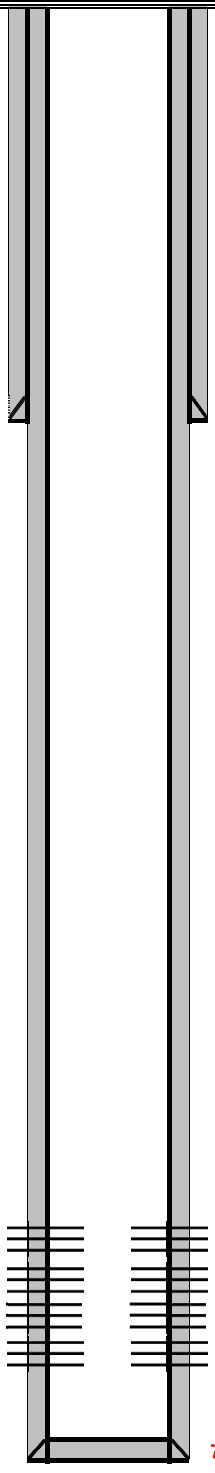
GL elev 3645.1'

NORTH HOBBS G/SA UNIT #965

CEMENT

DEVIATION SURVEYS

DEPTH DEGREE



Surface Casing
Cement with 515 sx 14.8 PPG Class C

CIRCULATED TO SURFACE

13-1/2" hole

9-5/8" 32# set at +/- 1600'

Production Casing
Cement with 925 sx 14.8 PPG Class C, Two satge cement Job

CIRCULATED TO SURFACE ON BOTH STAGES

8-3/4" Hole

Perfs 4410' MD - 5025' MD

7" 23# set at +/- 5025' MD

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-	31920	HOBBS; GRAYBURG-SAN ANDRES

Property Code	Property Name	Well Number
19520	NORTH HOBBS G/SA UNIT	33–965

OGRID No.	Operator Name	Elevation
157984	OCCIDENTAL PERMIAN LTD.	3645.1'

Surface Location

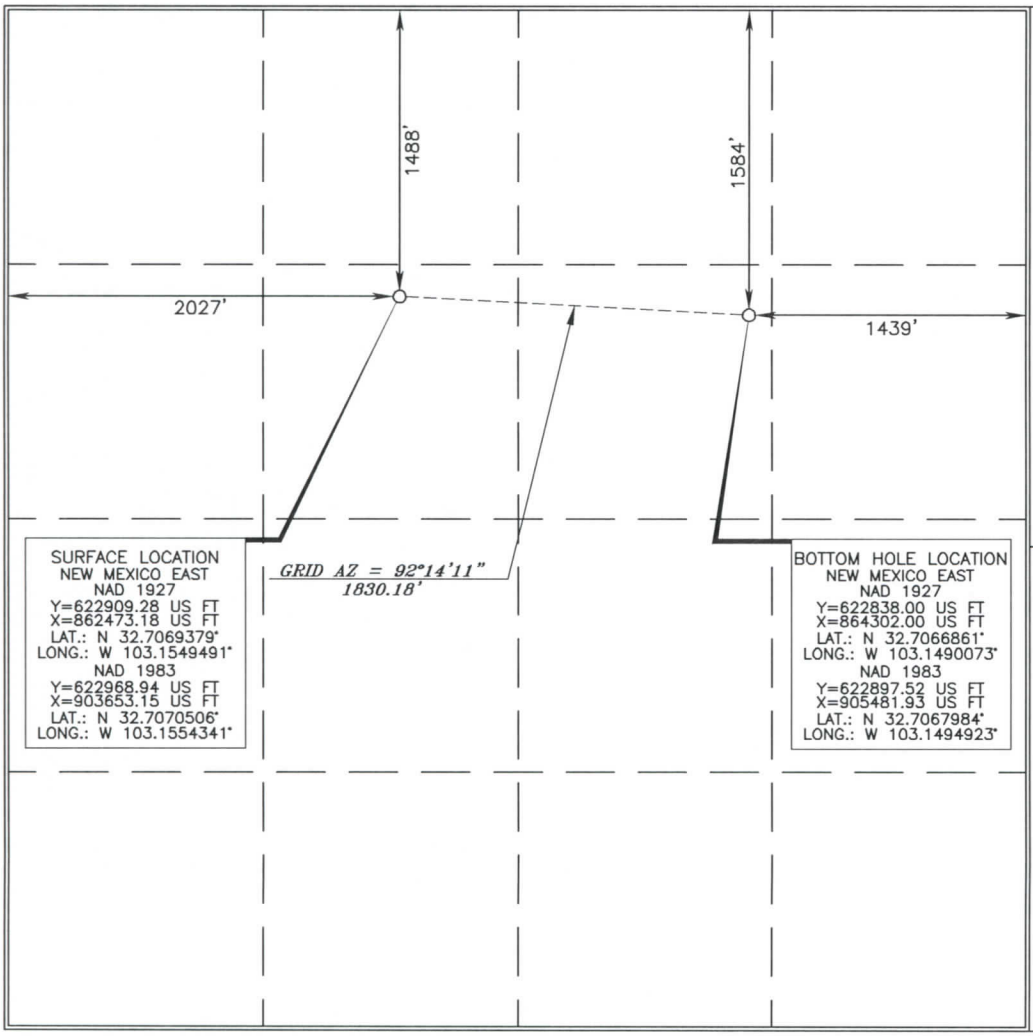
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	18 SOUTH	38 EAST, N.M.P.M.		1488'	NORTH	2027'	WEST	LEA

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
G	33	18 SOUTH	38 EAST, N.M.P.M.		1584'	NORTH	1439'	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Roni Mathew 10/13/2021
Signature Date

Roni Mathew
Printed Name

roni_mathew@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEPTEMBER 02, 2021
Date of Survey

Signature and Seal of Professional Surveyor:

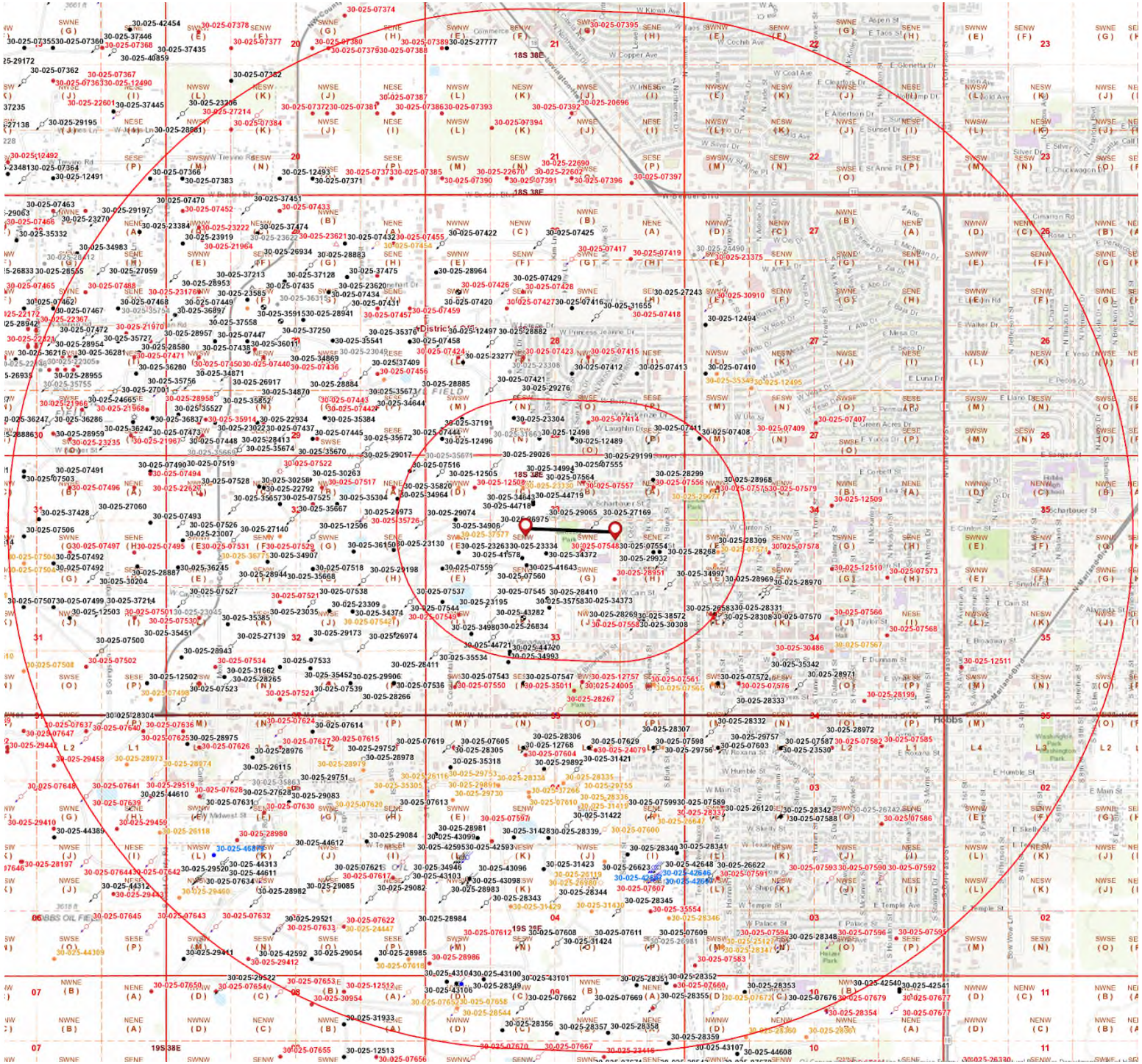
GARY J. ASH — NEW MEXICO — 15079 — REGISTERED PROFESSIONAL LAND SURVEYOR

Certificate Number 15079

9/17/2021

WO# 210902WL–d (KA)

North Hobbs G/SA Unit 965 AOR



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

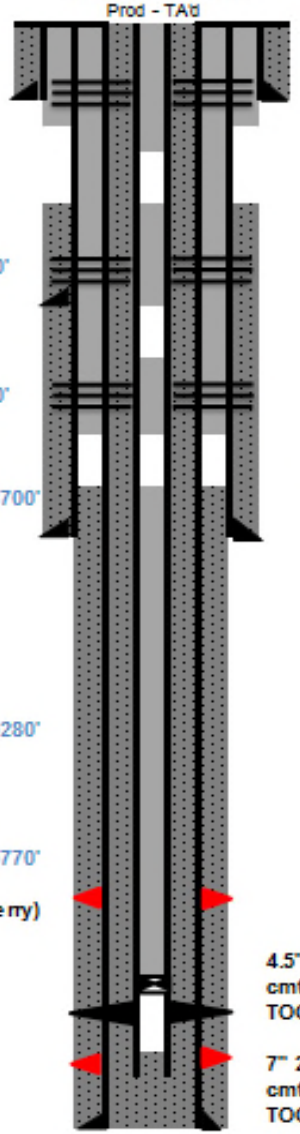
Occidental Petroleum Corporation

Conoco St 1

API# 30-025-23759

TWN 18-S; RNG 38-E

Prod - TA'd



Surface Plug 1050'
Spot 1050' of cmt

13-3/8" 48# @ 418'
cmt'd with 410 sxs
TOC @ surface (Circ)

Rustler Plug 1550'-1650'
Spot 100' of cmt

Yates Plug 2600'-2700'
Spot 100' of cmt

San Andres & 9-5/8" plug 3950'-3700'

9-5/8" 36# & 32# @ 3799'
cmt'd with 350 sxs
TOC @ 1089' (Calc)

Glorieta Plug 5180'-5280'

Blineberry Plug 5870'-5770'

Behind Pipe 5871'-6029' (Blineberry)

Spot 2616' of cmt
4.5" CIBP at 6365'

Open Perfs 6585'-6600' (Tubb)
Behind Pipe 6611'-6975' (Dkrd)

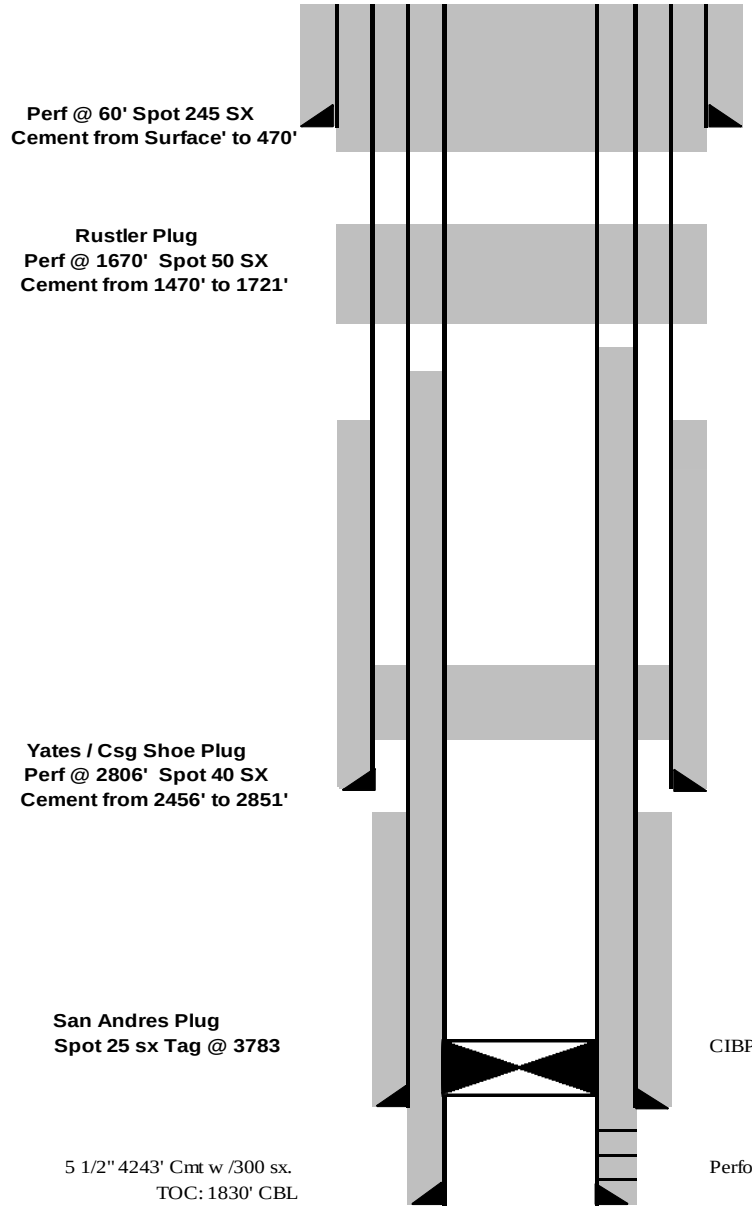
4.5" 10.5# @ 7010'
cmt'd with 845 sxs
TOC @ Surface (Circ)

7" 20#, 23# and 26# @ 7075'
cmt'd with 900 sxs
TOC @ 3658' (Calc)

TD @7075'

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

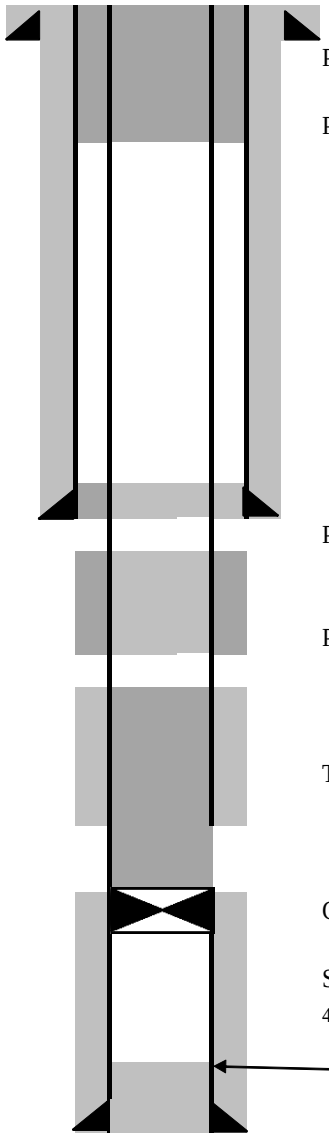
7" 24# @ 3970
Cement w/ 350 sx
TOC unknown

Perforations: 4090-4234

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

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'.

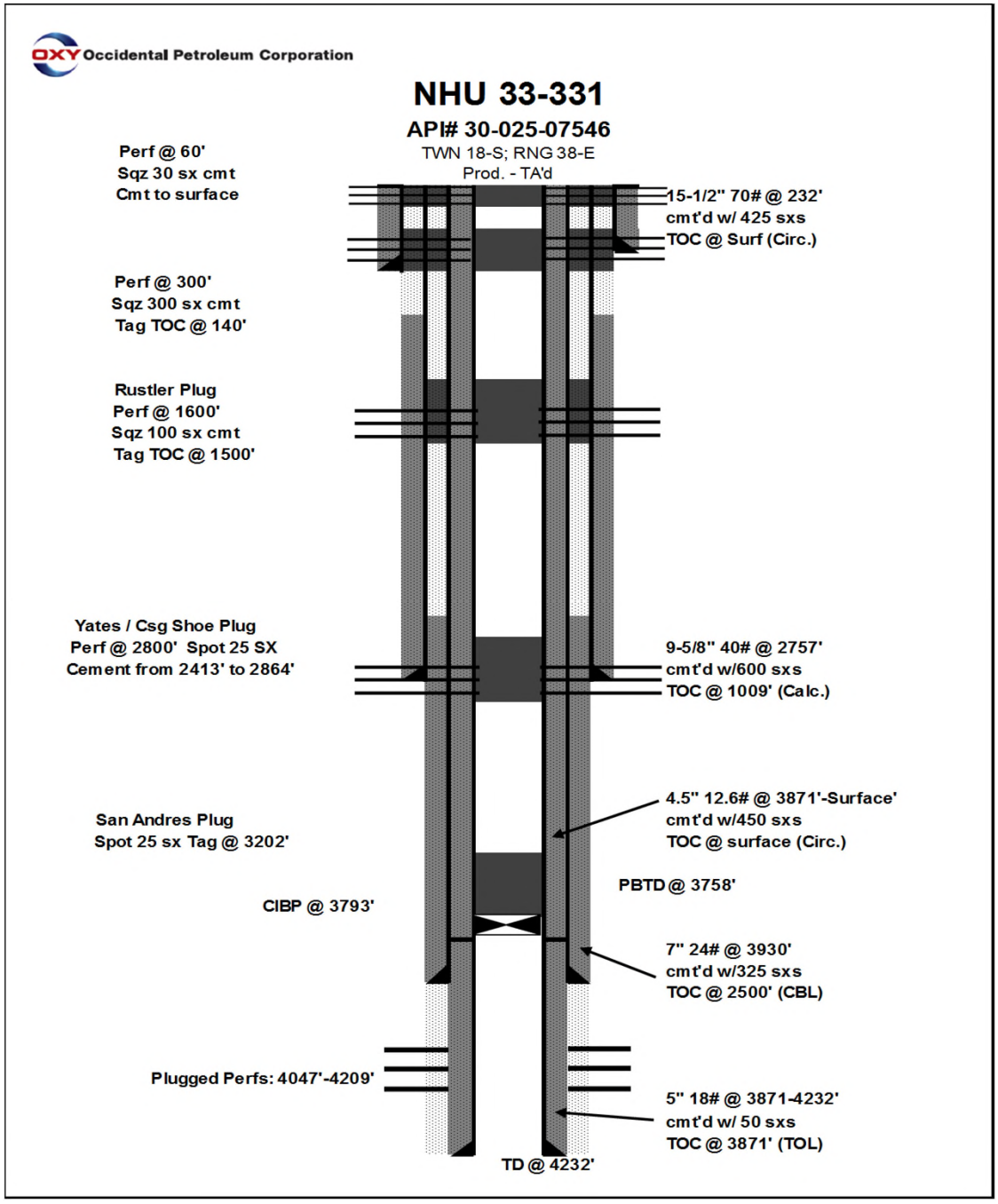
CIBP at 3953' Cap w/20 sx cmt

San Andres Open Perforations
4003-4221' (gross)

PBTD at 4320 (cmt)

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

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
30-025-07556	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

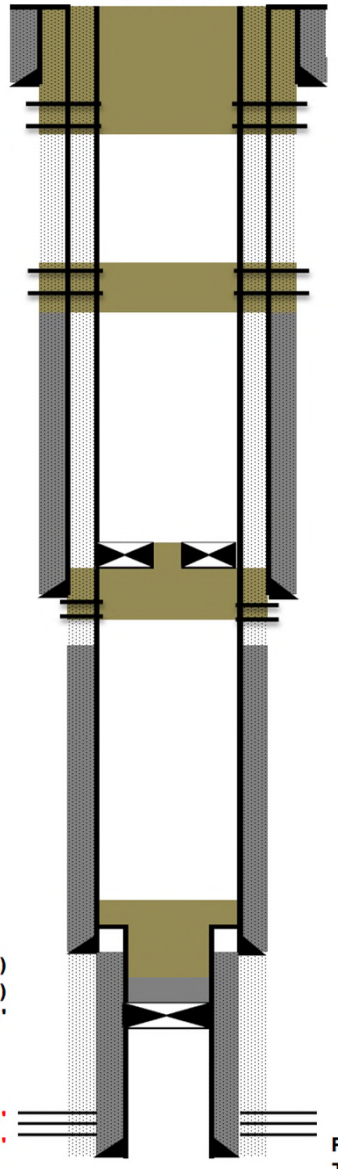
Occidental Petroleum Corporation

NHU 33-411

API# 30-025-07556

TWN 18-S; RNG 38-E

P&A'd Well



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)

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

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)

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

Spot 25 sx on top of plug

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

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

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

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

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	18S	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

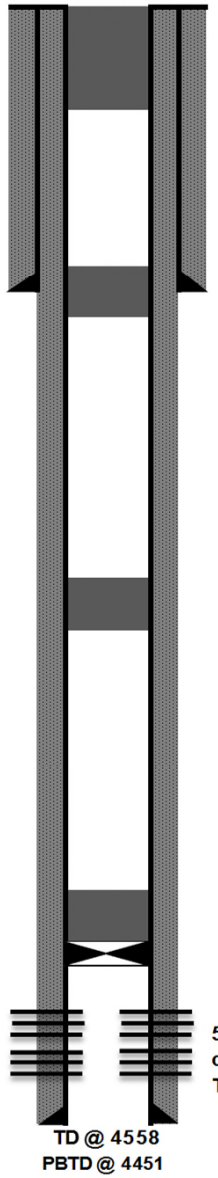
Occidental Petroleum Corporation

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

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

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'

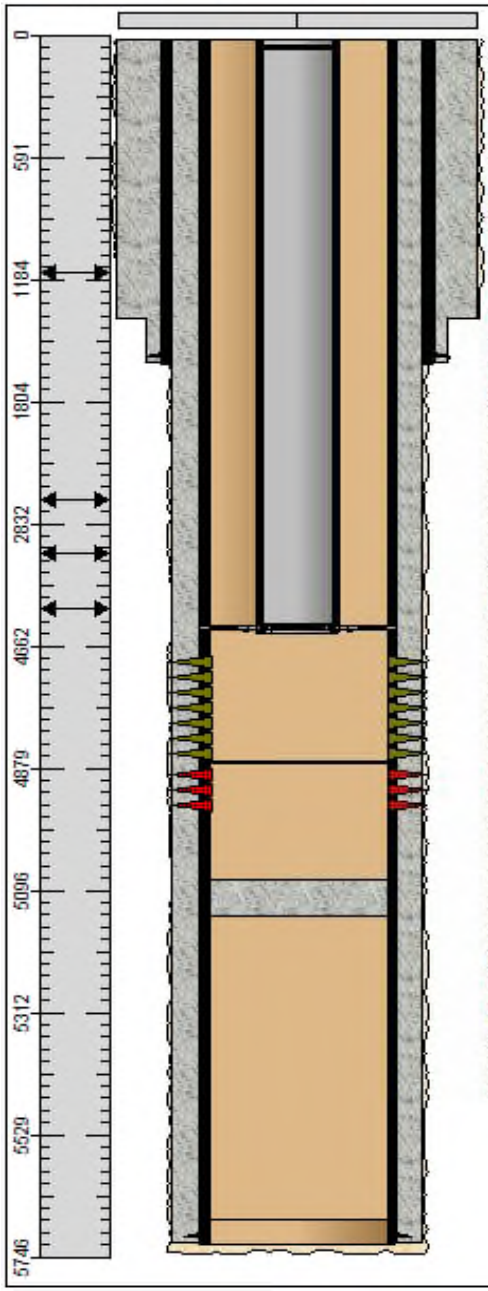
Perfs 4160' to 4354'

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
30-025-43282	OCCIDENTAL PERMIAN LTD	NORTH HOBBS G/SA	693	Injection	Active	1880	S	1298	W	L	33	18S	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



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(17-49) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Duoline 20- - Rerun
1 @(49-59) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Duoline 20- - Rerun
1 @(59-67) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Duoline 20- - Rerun
143 @(67-4623) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Duoline 20- - Rerun
1 @(4623-4624) On-Off Tool (Tubing) 2.875" OD- - Inspected
1 @(4624-4625) Profile Nipple - F 2.875" / 1.875" ID- - Inspected
1 @(4625-4633) Packer Mandrel 7.000" X 2.875" AS1-X DBLE GRIP PKR- - Rerun
1 @(4633-4633) ALUMINUM SLUG Pump-Out Plug (2.875")- - New

Surface Casing (Top-Bottom Depth) Desc
@(17-1569) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(1569-1570) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865"- - N/A
@(1570-1610) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift- - N/A
@(17-1612) Cement (behind Casing)- - N/A
@(1610-1612) Casing Shoe (9.625 OD Casing)- - N/A

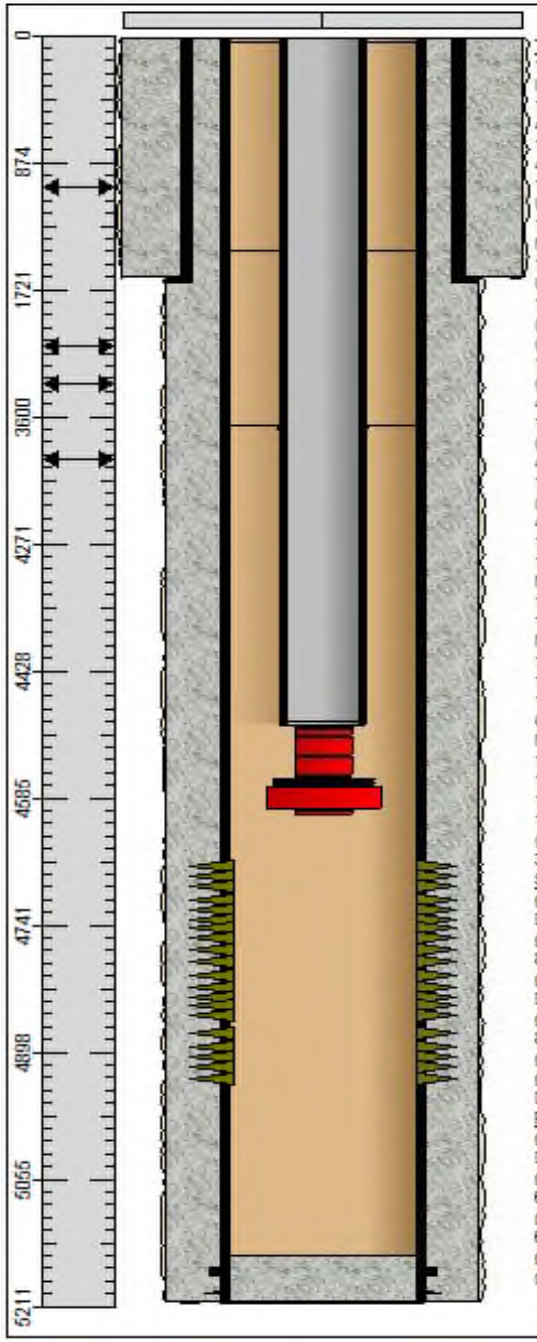
Production Casing (Top-Bottom Depth) Desc
@(4625-4633) Packer (Retrievable) (Unknown Type) - 7.000" X 2 7/8" X 17-26# ARROWSET 1-X DBL GRIP PKR- - New
@(4867-4870) Plug - Cement on Top of Bridge Plug- - N/A
@(4678-4870) Perforations-Open - N/A
@(4870-4874) Bridge Plug Cast Iron 7.000"- - New
@(4878-4939) Perforations-Isolated - N/A
@(4678-4939) Producing Interval GBSA/NHSAU 693-33- - N/A
@(5077-5144) Plug - Cement on Top of Bridge Plug- - N/A
@(5140-5144) Bridge Plug Cast Iron 7.000"- - N/A
@(17-5678) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(5678-5679) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351"- - N/A
@(5679-5723) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(5723-5725) Casing Shoe (7.000 OD Casing)- - N/A
@(17-5725) Cement (behind Casing)- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(4867-5144) Plug Back Total Depth- - N/A
@(5740-5740) Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(17-1380) Wellbore Hole OD-12.6250- - N/A
@(1612-5740) Wellbore Hole OD- 8.7500- - N/A

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	18S	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



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(11-17) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(11-4209) ESP Cable (CENTRILIFT) -61292237AA C76643 4 AWG CPLF Galv- - Used & Inspected
1 @(4209-4459) ESP Cable -LT8517057 SLB CONSIGNMENT 4 AWG CPLF Galv- - Used & Inspected
138 @(17-4488) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(4488-4489) Seat Nipple - Heavy Duty (2.875") Cup Type- - New
1 @(4489-4495) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(4495-4496) ESP Bolt on Discharge (Non-Serialized/Centrilift)-C45895 400 B/O CS 2 7/8 12 MIL (SS)- - New
1 @(4496-4507) ESP Pump (Non-Serialized/Centrilift)-14750387 C023044530 36 P35 400PMHVSND 12 MIL (SS)- - New
1 @(4507-4531) ESP Pump (Non-Serialized/Centrilift)-14685928 C023044571 78 P35 400PMHVSND 12 MIL (SS)- - New
1 @(4531-4554) ESP Pump (Non-Serialized/Centrilift)-14643210 C023044571 78 P35 400PMHVSND 12 MIL (SS)- - New
1 @(4554-4557) ESP Gas Separator (Non-Serialized/Centrilift)-14765436 C425001260 Gas Master 400GSHV 12 MIL (SS)- - New
1 @(4557-4563) ESP Seal (Non-Serialized/Centrilift)-14793504 10492077 FSC3U PFSA CL5 FER HL PFSA 12 MIL (SS)- - New
1 @(4459-4569) ESP-Motor Flat Cable (CENTRILIFT) 14611778 C78450M-110 5 AWG NEXT GEN MONEL- - New
1 @(4563-4569) ESP Seal (Non-Serialized/Centrilift)-14750410 C313017048 FSB3DB H6 FER SSCV SB/SB 12 MIL (SS)- - New
1 @(4569-4569) ESP Motor Pothead- - New
1 @(4569-4596) ESP Motor (Non-Serialized/Centrilift)14512246 105106631 450SP 220HP 2395V 59A 12 MIL (SS)- - New
1 @(4596-4604) ESP Downhole Sensor (Non-Serialized/Centrilift)-G1406354 C1030YCUS CENTINEL 3 ASM 5000 C 450 12 MIL- - New

Surface Casing (Top-Bottom Depth) Desc
@(18-35) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(35-1593) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(1593-1594) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A
@(1594-1636) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(18-1637) Cement (behind Casing) - N/A- - N/A
@(1636-1637) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A

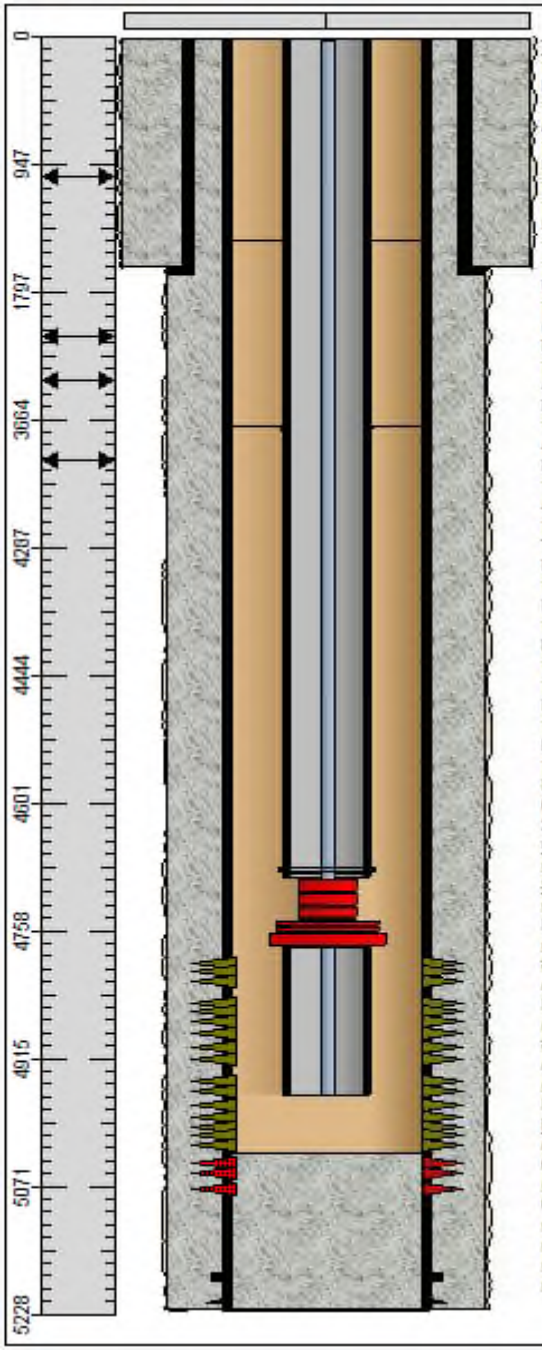
Production Casing (Top-Bottom Depth) Desc
@(18-34) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(34-1453) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(1453-3715) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(3715-3717) DV Tool (Diverter Tool)- - N/A
@(4661-4667) Perforations - Open-Open - N/A
@(4673-4679) Perforations - Open-Open - N/A
@(4685-4689) Perforations - Open-Open - N/A
@(4703-4707) Perforations - Open-Open - N/A
@(4714-4720) Perforations - Open-Open - N/A
@(4726-4730) Perforations - Open-Open - N/A
@(4736-4742) Perforations - Open-Open - N/A
@(4749-4757) Perforations - Open-Open - N/A
@(4763-4769) Perforations - Open-Open - N/A
@(4778-4786) Perforations - Open-Open - N/A
@(4795-4803) Perforations - Open-Open - N/A
@(4811-4817) Perforations - Open-Open - N/A
@(4823-4827) Perforations - Open-Open - N/A
@(4833-4837) Perforations - Open-Open - N/A
@(4845-4855) Perforations - Open-Open - N/A
@(4867-4877) Perforations - Open-Open - N/A
@(4883-4891) Perforations - Open-Open - N/A
@(4897-4901) Perforations - Open-Open - N/A
@(4908-4916) Perforations - Open-Open - N/A
@(4661-4930) Producing Interval (Completion)- - N/A
@(4922-4930) Perforations - Open-Open - N/A
@(3717-5166) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(5166-5167) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351" - N/A- - N/A
@(5167-5206) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(5148-5207) Plug Back (unknown type)- - N/A
@(18-5207) Cement (behind Casing) - N/A- - N/A
@(5206-5207) Casing Shoe (7.000 OD Casing) - N/A- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(5207-5207) Total Depth- - N/A
@(5148-5207) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(18-1637) Wellbore Hole OD-13.5000 - N/A- - N/A
@(1637-5207) Wellbore Hole OD-8.7500 - N/A- - N/A

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	18S	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



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(15-21) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(15-4660) ESP Cable (Borets-Part#592966, Model CPNF, AWG 4)- - Used & Inspected
144 @(21-4680) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - Bare- - Rerun
1 @(4680-4681) 2.31" F Nipple- - New
1 @(4681-4685) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(4685-4686) 2.25" Nipple - R- - New
1 @(4686-4692) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(4692-4693) ESP Bolt on Discharge (Borets-Part#10006707, Type ESP B 400 2.875 EVE SS, CS Monel)- - New
1 @(4693-4710) ESP Pump (Borets-Part#10050814, Model 400-3000, 76 STG, Type CW HSS MTSCA HT, CS MONEL)- - New
1 @(4710-4727) ESP Pump (Borets-Part#10050814, Model 400-3000, 76 STG, Type CW HSS MTSCA HT, CS MONEL)- - New
1 @(4727-4741) ESP Pump (Borets-Part#10034028, Model 400-5300, Type HSS TA MTSCA HT, CS Monel)- - New
1 @(4741-4744) ESP Gas Separator (Borets-Part#10027875, Type ESP B 400 VGS CW 3000 HSS SS HT, Vortex Type, CS Monel- - New
1 @(4744-4751) ESP Seal (Borets-Part#10050256, Type BPBSL HL HSS MTC HT, PB102, CS MONEL)- - New
1 @(4660-4758) ESP-Motor Flat Cable (Borets-Model MLE, ESP FLAT B 456/562 UB-13 ELB MPSS 4KV 30M)- - New
1 @(4758-4758) ESP Motor Pothead- - New
1 @(4751-4758) ESP Seal (Borets-Part#10035135, Type BPBSL HL HSS MTC HT, 1PB102, CS MONEL)- - New
1 @(4758-4776) ESP Motor (Borets-Part#2031446, Type 456 PL200P, HP 240, Volts 2424, AMPS 57, CS MONEL)- - New
1 @(4776-4779) ESP Downhole Sensor (Borets-Part#2030707, Model ESP B Viewpoint, CS MONEL)- - New
6 @(4779-4959) FG 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New

Capillary String (Inside Tubing) (Top-Bottom Depth) Desc
@(18-4959) Capillary Tubing - 0.375" Stainless Steel- - N/A

Surface Casing (Top-Bottom Depth) Desc
@(18-35) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(35-1593) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(1593-1594) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A
@(1594-1636) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(18-1637) Cement (behind Casing) - N/A- - N/A
@(1636-1637) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A

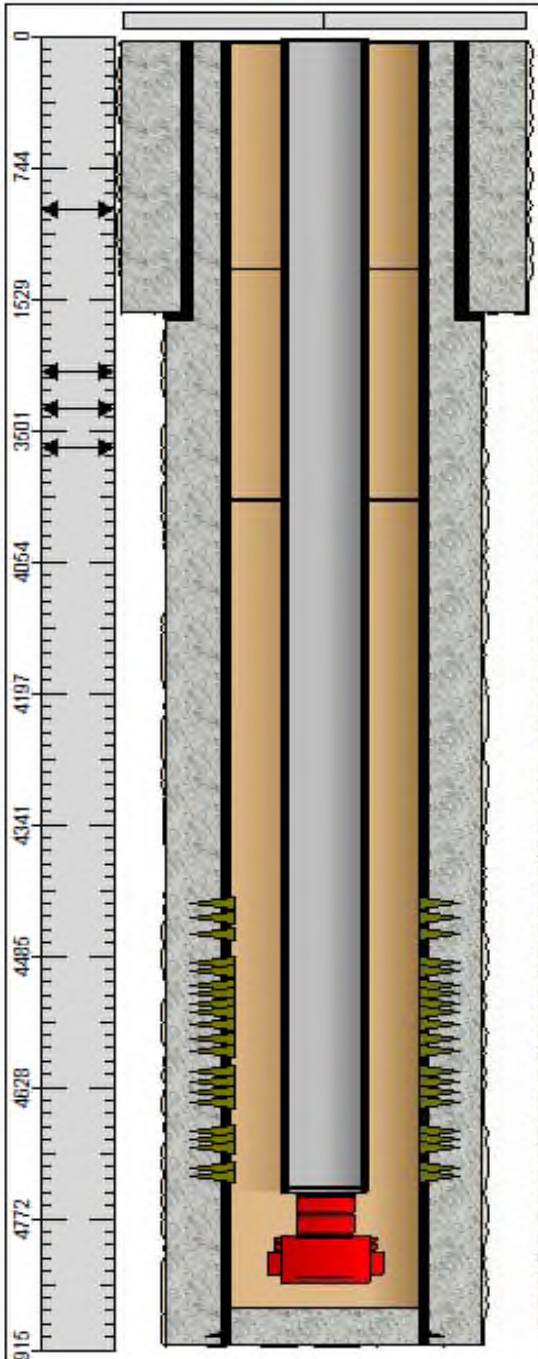
Production Casing (Top-Bottom Depth) Desc
@(18-1461) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(1461-3732) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(3732-3734) DV Tool (Diverter Tool)- - N/A
@(4789-4795) Perforations - Open-Open - N/A
@(4801-4805) Perforations - Open-Open - N/A
@(4811-4815) Perforations - Open-Open - N/A
@(4840-4844) Perforations - Open-Open - N/A
@(4850-4854) Perforations - Open-Open - N/A
@(4860-4868) Perforations - Open-Open - N/A
@(4875-4885) Perforations - Open-Open - N/A
@(4893-4901) Perforations - Open-Open - N/A
@(4907-4928) Perforations - Open-Open - N/A
@(4935-4941) Perforations - Open-Open - N/A
@(4948-4956) Perforations - Open-Open - N/A
@(4963-4971) Perforations - Open-Open - N/A
@(4978-4984) Perforations - Open-Open - N/A
@(4990-4994) Perforations - Open-Open - N/A
@(5000-5008) Perforations - Open-Open - N/A
@(5014-5020) Perforations - Open-Open - N/A
@(5036-5040) Perforations-Closed-Squeezed - N/A
@(5048-5052) Perforations-Closed-Squeezed - N/A
@(5066-5074) Perforations-Closed-Squeezed - N/A
@(4789-5074) Producing Interval (Completion)- - N/A
@(3734-5181) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(5181-5182) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351" - N/A- - N/A
@(5182-5223) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(18-5224) Cement (behind Casing) - N/A- - N/A
@(5030-5224) Plug Back- - N/A
@(5223-5224) Casing Shoe (7.000 OD Casing) - N/A- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(5224-5224) Total Depth- - N/A
@(5030-5224) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(18-1637) Wellbore Hole OD-20.0000 - N/A- - N/A
@(1637-5224) Wellbore Hole OD-8.5000 - N/A- - N/A

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	18S	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 : NHSAU 696-33



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(15-21) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(15-4700) ESP Cable (REDA) -102737344 201807004/201808055 4 AWG 5 KV Flat Galvanized- - New
146 @(21-4737) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(4737-4738) Seat Nipple - Standard (2.875") Cup Type- - New
1 @(4738-4744) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - New
1 @(4744-4745) ESP Bolt on Discharge (Non-Serialized/Reda)- BOH- - New
1 @(4745-4766) ESP Pump (Non-Serialized/Reda)-2FAJ8J4897504 103078844 CR-ES D3550 CR-CT CS Monel coating- - New
1 @(4766-4788) ESP Pump (Non-Serialized/Reda)-2FAJ8J4897503 103078844 CR-ES D3550 CR-CT CS Monel coating- - New
1 @(4788-4789) ESP Gas Separator (Non-Serialized/Reda)-RBAJ8E4806188 102773887 Bolt On Intake CS Monel coating- - New
1 @(4789-4797) ESP Seal (Non-Serialized/Reda)-3TAJ8K4673488 102889396 LSLSL CS Monel coating- - New
1 @(4700-4805) ESP-Motor Flat Cable (REDA) - 100496111 496 456 Series MAXLOK 4 AWG 5 KV- - New
1 @(4797-4805) ESP Seal (Non-Serialized/Reda)-3CAJ8K4865830 102973834 LSBPB CS Monel coating- - New
1 @(4805-4805) ESP Motor Pothead- - New
1 @(4805-4834) ESP Motor (Non-Serialized/Reda)-1CAJ8L4669686 101901140 240HP 2676V 58.7A CS Monel coating- - New
1 @(4834-4836) ESP Downhole Sensor (Non-Serialized/Reda)-S103X18KN06516 100655610 Phoenix XT-150 Type 0 Stainless S- - New
1 @(4788-4842) ESP Motor Shroud - 5.50" CS Monel Coated- - New

Surface Casing (Top-Bottom Depth) Desc
@(18-38) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(38-55) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(55-1570) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(1570-1571) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A
@(1571-1613) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(18-1614) Cement (behind Casing) - N/A- - N/A
@(1613-1614) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A

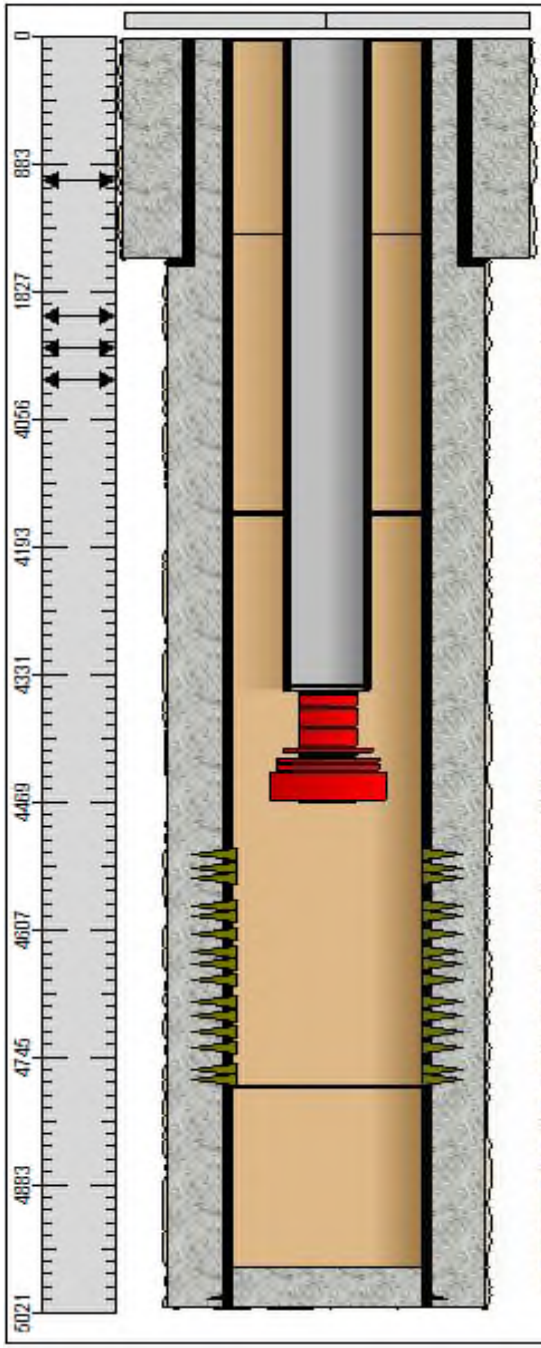
Production Casing (Top-Bottom Depth) Desc
@(18-34) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(34-1342) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(1342-3985) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(3985-3988) DV Tool (Diverter Tool)- - N/A
@(4421-4429) Perforations - Open-Open - N/A
@(4435-4443) Perforations - Open-Open - N/A
@(4453-4461) Perforations - Open-Open - N/A
@(4484-4488) Perforations - Open-Open - N/A
@(4495-4503) Perforations - Open-Open - N/A
@(4510-4514) Perforations - Open-Open - N/A
@(4519-4523) Perforations - Open-Open - N/A
@(4529-4535) Perforations - Open-Open - N/A
@(4540-4546) Perforations - Open-Open - N/A
@(4552-4556) Perforations - Open-Open - N/A
@(4568-4576) Perforations - Open-Open - N/A
@(4582-4598) Perforations - Open-Open - N/A
@(4604-4610) Perforations - Open-Open - N/A
@(4616-4620) Perforations - Open-Open - N/A
@(4626-4632) Perforations - Open-Open - N/A
@(4638-4653) Perforations - Open-Open - N/A
@(4668-4672) Perforations - Open-Open - N/A
@(4677-4683) Perforations - Open-Open - N/A
@(4688-4705) Perforations - Open-Open - N/A
@(4710-4714) Perforations - Open-Open - N/A
@(4421-4723) Producing Interval (Completion)- - N/A
@(4719-4723) Perforations - Open-Open - N/A
@(3988-4870) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(4870-4871) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351" - N/A- - N/A
@(4871-4910) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(18-4911) Cement (behind Casing) - N/A- - N/A
@(4869-4911) Plug Back (unknown type)- - N/A
@(4910-4911) Casing Shoe (7.000 OD Casing) - N/A- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(4911-4911) Total Depth- - N/A
@(4869-4911) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(18-1614) Wellbore Hole OD-13.5000 - N/A- - N/A
@(1614-4911) Wellbore Hole OD-8.5000 - N/A- - N/A

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	18S	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 : NHSAU 697-33



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(10-16) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(10-286) ESP Cable (REDA)-102737344 4 AWG #4 FL LEAD Flat- - Inspected
1 @(286-4316) ESP Cable (REDA) - 102737344 , 4 AWG #4 FL LEAD Flat- - Inspected
134 @(16-4343) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(4343-4344) Seat Nipple - Standard (2.875") Cup Type- - Rerun
1 @(4344-4350) J-20 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- - Rerun
1 @(4350-4351) ESP Bolt on Discharge (Non-Serialized/Centrilift)- BOH 1260710- - Inspected
1 @(4351-4366) ESP Pump (Non-Serialized/Reda) - 102985262 Carbon Steel D3500N, 60 STGS, CR,- - Inspected
1 @(4366-4388) ESP Pump (Non-Serialized/Reda)- 103078844 D3500N Carbon Steel, 91 STGS, CR- - Inspected
1 @(4388-4410) ESP Pump (Non-Serialized/Reda)-103078844 D3500N Carbon Steel, 91 STGS, CR- - Inspected
1 @(4410-4416) ESP Gas Handler (Reda)- 102735454 AGH D20-60 Carbon Steel- - Inspected
1 @(4416-4420) ESP Gas Separator (Non-Serialized/Reda)-101676828 VGSA D20-60 Redalloy- - Inspected
1 @(4420-4428) ESP Seal (Reda)-Part#102889396, LSLSL,#5 OIL Carbon Steel- - New
1 @(4316-4436) ESP-Motor Flat Cable (REDA) - MAXLOK 400 KELB 6 AWG 5 KV- - Inspected
1 @(4428-4436) ESP Seal (Reda)102973834, LSBPB,#5 OIL Carbon Steel- - New
1 @(4435-4436) ESP Motor Pothead- - New
1 @(4436-4467) ESP Motor (Non-Serialized/Reda) - 101894029, 456 MAXIMUS, 270 HP, 2626 VOLT, 67.1 AMP, CARBON STEEL- - Inspected
1 @(4467-4469) ESP Downhole Sensor (Non-Serialized/Reda)-100655610 PHOENIX XT-150 TYPE 0, SERIES 375,- - Inspected

Surface Casing (Top-Bottom Depth) Desc
@(18-35) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(35-1550) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(1550-1551) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A
@(1551-1593) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift - N/A- - N/A
@(18-1595) Cement (behind Casing) - N/A- - N/A
@(1593-1595) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.865" - N/A- - N/A

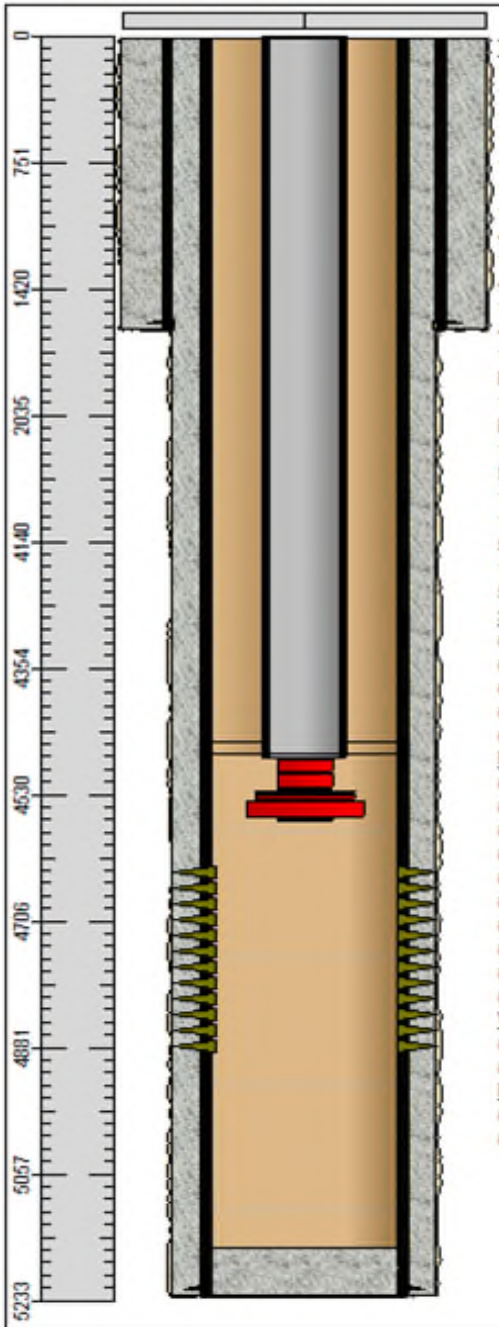
Production Casing (Top-Bottom Depth) Desc
@(18-34) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(34-1396) Flag Joint - L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(1396-4156) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(4156-4158) DV Tool (Diverter Tool)- - N/A
@(4519-4527) Perforations - Open-Open - N/A
@(4519-4527) Perforations-Closed-Squeezed - N/A
@(4534-4538) Perforations - Open-Open - N/A
@(4534-4538) Perforations-Closed-Squeezed - N/A
@(4545-4553) Perforations - Open-Open - N/A
@(4545-4553) Perforations - Open-Open - N/A
@(4576-4580) Perforations - Open-Open - N/A
@(4576-4580) Perforations - Open-Open - N/A
@(4587-4593) Perforations - Open-Open - N/A
@(4587-4593) Perforations - Open-Open - N/A
@(4606-4614) Perforations - Open-Open - N/A
@(4606-4614) Perforations - Open-Open - N/A
@(4625-4631) Perforations - Open-Open - N/A
@(4625-4631) Perforations - Open-Open - N/A
@(4637-4645) Perforations - Open-Open - N/A
@(4637-4645) Perforations - Open-Open - N/A
@(4655-4663) Perforations - Open-Open - N/A
@(4655-4663) Perforations - Open-Open - N/A
@(4679-4687) Perforations - Open-Open - N/A
@(4679-4687) Perforations - Open-Open - N/A
@(4693-4699) Perforations - Open-Open - N/A
@(4693-4699) Perforations - Open-Open - N/A
@(4712-4718) Perforations - Open-Open - N/A
@(4712-4718) Perforations - Open-Open - N/A
@(4729-4739) Perforations - Open-Open - N/A
@(4729-4739) Perforations - Open-Open - N/A
@(4751-4757) Perforations - Open-Open - N/A
@(4751-4757) Perforations - Open-Open - N/A
@(4763-4769) Perforations - Open-Open - N/A
@(4763-4769) Perforations - Open-Open - N/A
@(4775-4779) Bridge Plug Cast Iron 7.000"- - N/A
@(4519-4835) Producing Interval (Completion)- - N/A
@(4158-4975) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(4975-4976) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351" - N/A- - N/A
@(4976-5016) L-80 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift - N/A- - N/A
@(18-5017) Cement (behind Casing) - N/A- - N/A
@(5016-5017) Casing Shoe (7.000 OD Casing) - N/A- - N/A
@(4971-5017) Plug Back (unknown type)- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(5017-5017) Total Depth- - N/A
@(4775-5017) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(18-1595) Wellbore Hole OD-13.5000 - N/A- - N/A
@(1595-5017) Wellbore Hole OD-8.5000 - N/A- - N/A

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	18S	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



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(0-6) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(0-4455) ESP Cable (CENTRILIFT-PART C76643, AWG 4, TYPE FT CPL)- - N/A
137 @(6-4472) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(4472-4473) Seat Nipple - Standard (2.875") Cup Type- - N/A
1 @(4473-4479) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(4479-4480) ESP Bolt on Discharge (CENTRILIFT-PART C45895, MODEL 400, TYPE BOH)- - N/A
1 @(4480-4499) ESP Pump (CENTRILIFT-PART C308068, STAGES 99, TYPE P29, MODEL 400PMHVSSD)- - N/A
1 @(4499-4519) ESP Pump (CENTRILIFT-PART C304268, STAGES 108, TYPE P29, MODEL 400PMHVSSD)- - N/A
1 @(4519-4523) ESP Gas Separator (CENTRILIFT-PART C425001872, TYPE GASSEP, MODEL 400GSTHVV)- - N/A
1 @(4523-4529) ESP Seal (CENTRILIFT-PART C313016297, MODEL FSC3 UT FER NO_PNT CL5 HL PFSA)- - N/A
1 @(4529-4535) ESP Seal (CENTRILIFT-PART C313017048, MODEL FSB3BD H6 FER SSCV SB/SB PFSA)- - N/A
1 @(4455-4544) ESP-Motor Flat Cable (CENTRILIFT-PART C78150-090 D.G., AWG 6, TYPE 450 D.G.)- - N/A
1 @(4544-4545) ESP Motor Pothead- - N/A
1 @(4535-4562) ESP Motor (CENTRILIFT-PART CC307543, MODEL 450MSP, HP 180, VOLT 2290, AMP 50)- - N/A
1 @(4562-4566) ESP Downhole Sensor (CENTRILIFT-PART C902634, TYPE CENTINEL 3, MODEL ASM 5000 C 450)- - N/A

Surface Casing (Top-Bottom Depth) Desc
@(17-1584) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift- - N/A
@(1584-1585) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.885"- - N/A
@(1585-1625) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift- - N/A
@(17-1626) Cement (behind Casing)- - N/A
@(1625-1626) Float Shoe/Guide Shoe Nominal - 9.625" OD-10.630" Drillout ID- 8.885"- - N/A

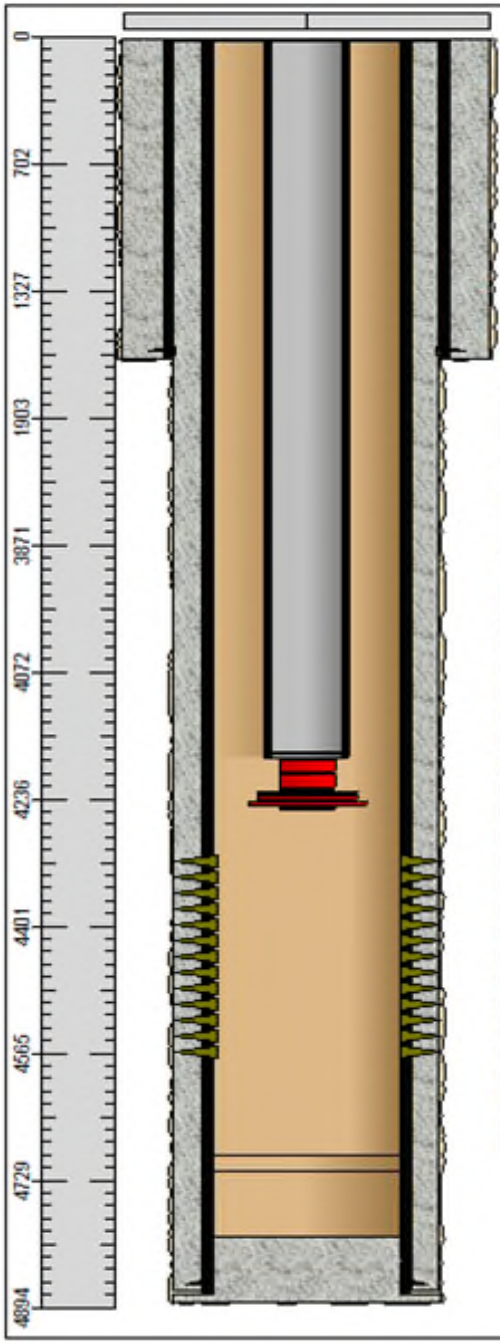
Production Casing (Top-Bottom Depth) Desc
@(17-4457) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(4457-4472) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(4630-4885) Producing Interval (Completion)- - N/A
@(4630-4885) Perforations-Open - N/A
@(4472-5185) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(5185-5186) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351"- - N/A
@(5186-5227) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(17-5228) Cement (behind Casing)- - N/A
@(5227-5228) Casing Shoe (7.000 OD Casing)- - N/A
@(5160-5228) Plug Back (unknown type)- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(5228-5228) Total Depth- - N/A
@(5160-5228) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(17-1626) Wellbore Hole OD-12.2500- - N/A
@(1626-5228) Wellbore Hole OD- 8.7500- - N/A

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

Wellbore Diagram : NHSAU 948-33



Tubing String Quantity (Top-Bottom Depth) Desc
1 @(11-17) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(0-4166) ESP Cable (CENTRILIFT-PART C76643, AWG 4, TYPE LD-CPL)- - N/A
128 @(17-4176) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(4176-4177) Seat Nipple - Standard (2.875") Cup Type- - N/A
1 @(4177-4183) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift- -
1 @(4183-4184) ESP Bolt on Discharge (CENTRILIFT-PART C63029, MODEL 400, TYPE BOLT ON PUMP)- - N/A
1 @(4184-4200) ESP Pump (CENTRILIFT-PART C1030YCUS, STAGES 89, TYPE P18, MODEL 400PMSSD)- - N/A
1 @(4200-4220) ESP Pump (CENTRILIFT-PART C023063506, STAGES 116, TYPE P18, MODEL, 400PMSSD)- - N/A
1 @(4220-4223) ESP Gas Separator (CENTRILIFT-PART C308803, TYPE GASSEP, MODEL 400GSHVV)- - N/A
1 @(4223-4229) ESP Seal (CENTRILIFT-PART C314031063, MODEL 513 LABYRINTH)- - N/A
1 @(4166-4236) ESP-Motor Flat Cable (CENTRILIFT-PART C78715-110, AWG 5, TYPE 562NEXGEN)- - N/A
1 @(4236-4236) ESP Motor Pothead- - N/A
1 @(4229-4236) ESP Seal (CENTRILIFT-PART C314031519, MODEL GSB3DB FER HL SSCV H6 SB/SB PFSA)- - N/A
1 @(4236-4246) ESP Motor (CENTRILIFT-PART C312222, MODEL 562MSP, HP 105, VOLT 1310, AMP 48)- - N/A
1 @(4246-4250) ESP Downhole Sensor (CENTRILIFT-PART C902634, TYPE CENTINEL 3, MODEL ASM 5000)- - N/A

Surface Casing (Top-Bottom Depth) Desc
@(17-1593) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift- - N/A
@(1593-1594) Float Collar Nominal - 9.625" OD-10.630" Drillout ID- 8.885"- - N/A
@(1594-1637) J-55 9.625 OD/ 36.00# Round Long 8.921 ID 8.764 Drift- - N/A
@(11-1638) Cement (behind Casing)- - N/A
@(1637-1638) Float Shoe/Guide Shoe Nominal - 9.625" OD-10.630" Drillout ID- 8.885"- - N/A

Production Casing (Top-Bottom Depth) Desc
@(4308-4568) Producing Interval (Completion)- - N/A
@(4308-4568) Perforations-Open - N/A
@(17-4697) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(4697-4716) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(4716-4831) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(4831-4832) Float Collar Nominal - 7.000" OD- 7.650" Drillout ID- 6.351"- - N/A
@(4832-4873) J-55 7.000 OD/ 26.00# Round Long 6.276 ID 6.151 Drift- - N/A
@(17-4874) Cement (behind Casing)- - N/A
@(4873-4874) Casing Shoe (7.000 OD Casing)- - N/A
@(4801-4889) Plug Back (unknown type)- - N/A

Wellbore Notes (Top-Bottom Depth) Desc
@(4889-4889) Total Depth- - N/A
@(4801-4889) Plug Back Total Depth- - N/A

Borehole (Top-Bottom Depth) Desc
@(11-1638) Wellbore Hole OD-12.2500- - N/A
@(1638-4889) Wellbore Hole OD- 8.7500- - N/A