

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 _____

[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.

April Hood
 Print or Type Name

April Hood
 Signature

Regulatory Specialist
 Title

3/20/17
 Date

April.Hood@Oxy.com
 e-mail Address

SWD 1670
 - Occidental Petroleum, Ltd
 157984

RECEIVED OCO
 2017 MAR 22 P 2:12

Well
 - Hobbs G4226en
 SWD #1 43703
 30-025-Permitting
 Pod
 - SWD, Devonian-Silurian

97869



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

March 21, 2017

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

RE: SWD Application
Hobbs Guzzler SWD
Well No. 1
Letter M, Section 23, T-18S, R-37E
Lea County, NM

To Whom it May Concern:

Occidental Permian Ltd. respectfully request administrative approval, without hearing, to dispose produced water into the Devonian formation. 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
- Area of Review and Data Table of Surrounding Wells
- Publication
- Service List with Proof of Certified Mailing attached
- Form C-102

*** Drilling permit is submitted however not yet approved ***

If you have any questions regarding this application, please contact me at 713-366-5771 or email april_hood@oxy.com.

Sincerely,

April Hood
Regulatory Specialist

RECEIVED OOD

2017 MAR 22 P 2:12

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No
- II. OPERATOR: Occidental Permian LTD
ADDRESS: PO Box 4294 Houston, TX 77210
CONTACT PARTY: April Hood PHONE: 713-366-5771
- 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 X No
If yes, give the Division order number authorizing the project: _____
- 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. Attached
- 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. Attached
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected; Avg - 20000 BWPD Max - 30000 BWPD
 2. Whether the system is open or closed; Closed
 3. Proposed average and maximum injection pressure; Avg - 1200 psi Max - 2000 psi
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, Grayburg / San Andres from the North Hobbs Unit, attached
 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.). Attached
- *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.
- Injection Zone:**
Lithologic Description: Devonian-Silurian, naturally fractured limestone and dolomite
Porosity: 7-14%
Sw: 26% - 50%
Injection Interval: 10,100' - 11,500'
- Reservoir data is based on nearby analog fields. From a review of nearby well data an available Drill Stem Test or IP test below 7500' it is concluded that there are likely no producible hydrocarbons in the formation with little or no gas (too small to measure). Additional review of offset geological and historic seismic data suggests no evidence of open or active faults near the proposed location, or Habbs field.**
- IX. Describe the proposed stimulation program, if any. Acid Stimulation
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
Logs will be filed after well has been drilled and completed
- *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. Attached

- 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.

I have examined the available geologic and engineering data for the Hobbs Guzzler #1 SWD well and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Erin M. Voyles

Erin Voyles, Geologist

- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **Attached**
- 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: April Hood

TITLE: Regulatory Specialist

SIGNATURE: *April Hood*

DATE: 3/20/17

E-MAIL ADDRESS: April_Hood@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: _____

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

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.

INJECTION WELL DATA SHEET

OPERATOR: Occidental Permian LTD.

WELL NAME & NUMBER: Hobbs Guzzler SWD No. 1

WELL LOCATION:	440 FSL & 435 FWL	M	23	18S	37E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2 Casing Size: 13 3/8

Cemented with: 1430 sx. or ft³

Top of Cement: 0 Method Determined: Circulation

Intermediate Casing

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

Cemented with: 1510 sx. or ft³

Top of Cement: 0 Method Determined: Circulation

Production Casing

Hole Size: 8 3/4 Casing Size: 7

Cemented with: 750 sx. or ft³

Top of Cement: 0 Method Determined: Circulation

Total Depth:

Injection Interval

10620' feet to 11,500' OH

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 4 1/2 Lining Material: DuolineType of Packer: 7 x 4 Optima Seal Bore PackerPacker Setting Depth: +/- 10,500'

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? Disposal

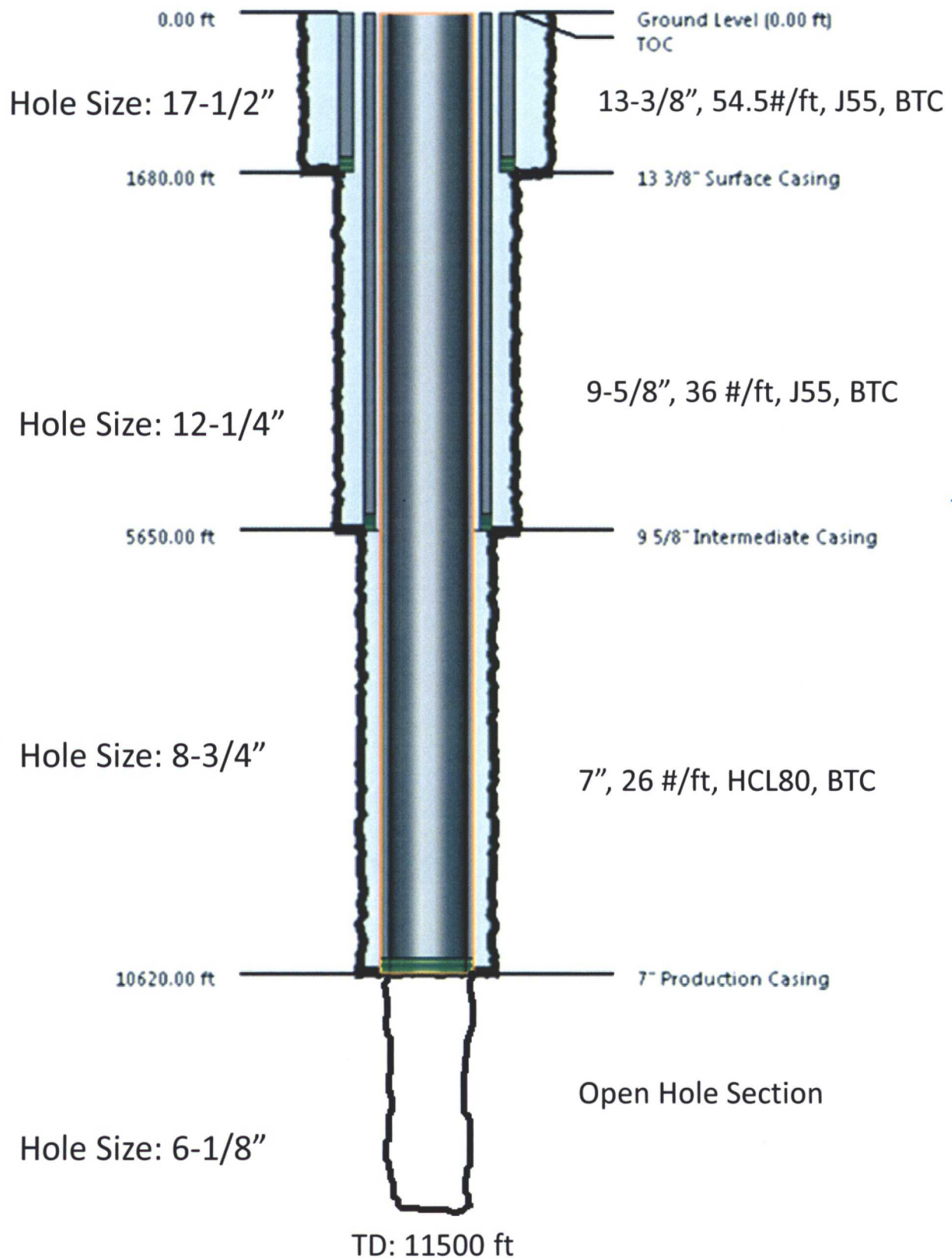
2. Name of the Injection Formation:
- Siluro-Devonian

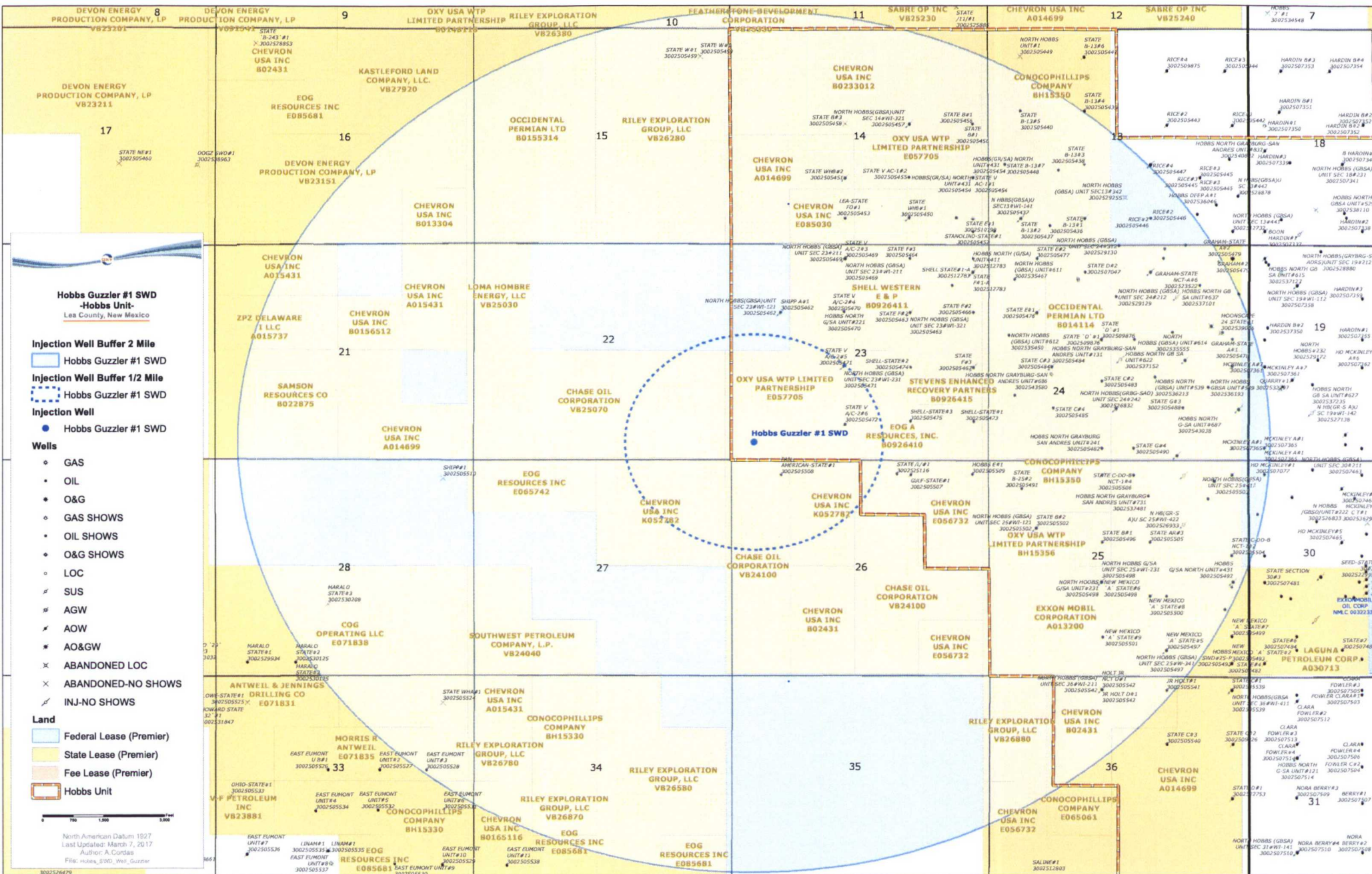
3. Name of Field or Pool (if applicable):
- SWD Silurian-Devonian

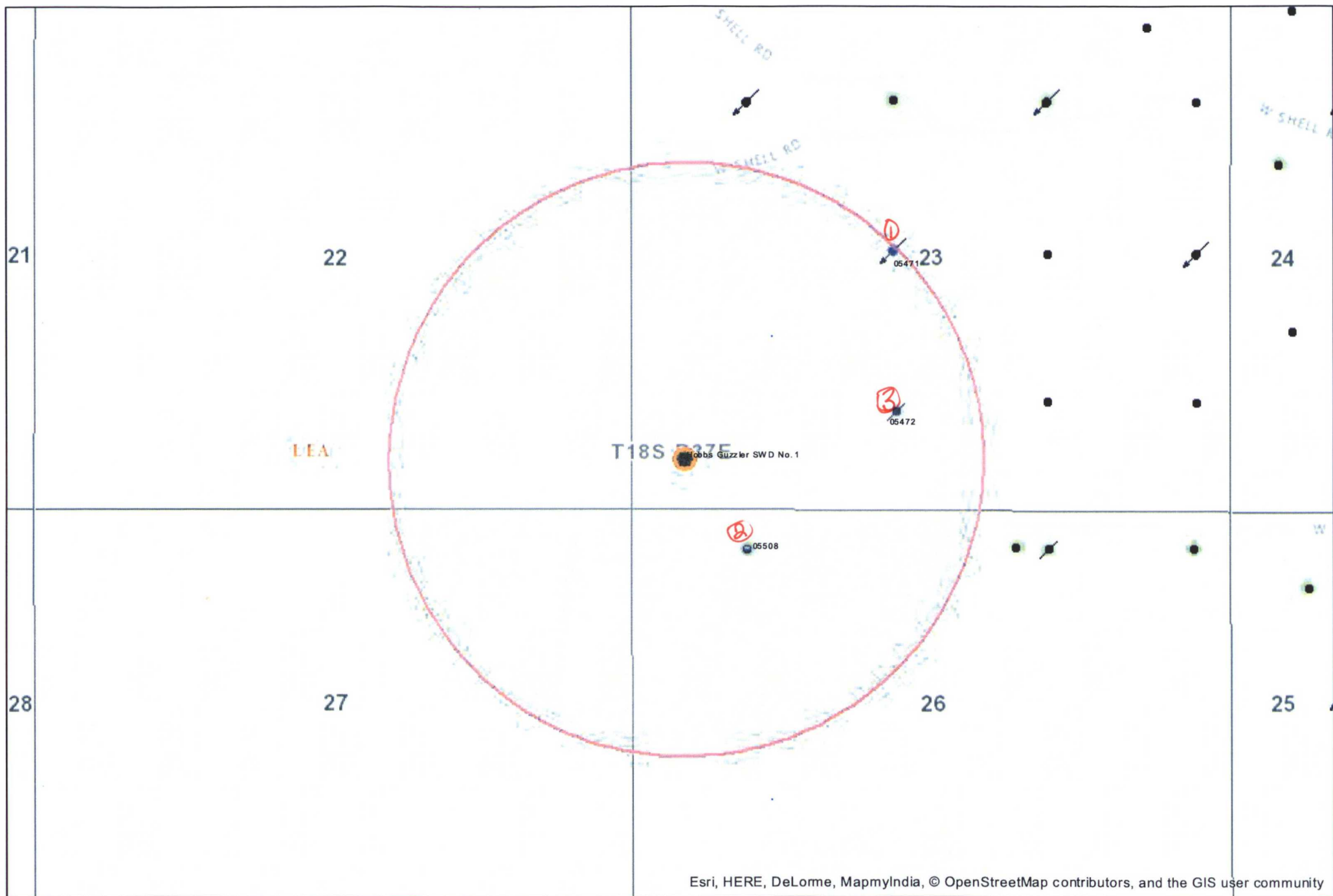
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
- No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
- No known producing zones seen at this time. Will test the San Andres and Mississippian
-
- for possible production capability.

Hobbs Guzzler 1 SWD







Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



1,900 950 0 1,900 Feet

Hobbs Guzzler SWD No. 1



Hobbs Guzzler SWD No. 1
Area of Review

MAP LEGEND NUMBER	API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG N/S	FTG E/W	UNIT	SEC	TSHIP	RNG.	DATE DRILLED	TOTAL TVD	TOTAL MD	HOLE SIZE	CSG SIZE	SET AT	SX CMT	CMT TOP	MTD	CURRENT COMPLETION	REMARKS	
1	30-025-05471	Occidental Permian LTD	North Hobbs G/SA Unit	231	I	Active	2310 S	2310 W	K	23	18 S	37 E	21690	4500	4500	12 1/4" 8 3/8"	8 5/8" 5 1/2"	310' 4330'	350 300	Surface 2630'	Circ Temp Survey	4120' - 4256' 4330' - 4500'	Perforations Open Hole	WELL DOES NOT PENETRATE DEVONIAN
2	30-025-05508	Cactus Drilling Company	Pan American State	1		PA	335 N	990 W	D	26	18 S	37 E		4359	4359								WELL DOES NOT PENETRATE DEVONIAN	
3	30-025-05472	Occidental Permian LTD	North Hobbs G/SA Unit	241		PA	990 S	2310 W	N	23	18 S	37 E	6/19/1959	4390	4390								WELL DOES NOT PENETRATE DEVONIAN	

Hobbs Guzzler SWD No. 1

Area of Review

Area of Review																								
MAP LEGEND NUMBER	API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG N/S	FTG E/W	UNIT	SEC	TSHIP	RNG	DATE DRILLED	TOTAL TVD	TOTAL MD	HOLE SIZE	CSG SIZE	SET AT	5X CMT	CMT TOP	MTD	CURRENT COMPLETION	REMARKS	
1	30-025-05471	Occidental Permian LTD	North Hobbs G/SA Unit	231	I	Active	2310 S	2310 W	K	23	18 S	37 E	21690	4500	4500	12 1/4" 8 3/8"	8 5/8" 5 1/2"	310' 4330'	350' 300'	Surface Temp Survey	Circ	4120' - 4256' 4330' - 4500'	Perforations Open Hole	WELL DOES NOT PENETRATE DEVONIAN
2	30-025-05508	Cactus Drilling Company	Pan American State	1		PA	335 N	990 W	D	26	18 S	37 E		4359	4359								WELL DOES NOT PENETRATE DEVONIAN	
3	30-025-05472	Occidental Permian LTD	North Hobbs G/SA Unit	241		PA	990 S	2310 W	N	29	18 S	37 E	6/19/1959	4390	4390								WELL DOES NOT PENETRATE DEVONIAN	



Permian Basin Area Laboratory
2101 Market Street,
Midland, Texas 79703

Upstream Chemicals

REPORT DATE: 3/10/2017

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: OCCIDENTAL PERMIAN EOR
DISTRICT: NEW MEXICO
AREA/LEASE: COMPATIBILITY - WATER - S. LEE
SAMPLE POINT NAME: 25% RESERVOIR WATER, 75% INJECTION WATER
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: WELL HEAD

ACCOUNT REP: SHANNON LEE
SAMPLE ID: 201601031941
SAMPLE DATE: 3/8/2016
ANALYSIS DATE: 7/21/2016
ANALYST: SH

OCCIDENTAL PERMIAN EOR, COMPATIBILITY - WATER - S. LEE, 25% RESERVOIR WATER, 75% INJECTION WATER

FIELD DATA		ANALYSIS OF SAMPLE					
		ANIONS:	mg/L	meq/L	CATIONS:	mg/L	meq/L
Initial Temperature (°F):		250 Chloride (Cl ⁻):	173360.8	4890.3	Sodium (Na ⁺):	75182.0	3271.6
Final Temperature (°F):		80 Sulfate (SO ₄ ²⁻):	742.5	15.5	Potassium (K ⁺):	ND	
Initial Pressure (psi):		100 Borate (H ₃ BO ₃):	ND		Magnesium (Mg ²⁺):	4026.5	331.4
Final Pressure (psi):		15 Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	25275.0	1261.2
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	1592.5	36.4
pH:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	8.4	0.1
pH at time of sampling:		6.7 Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	32.7	1.2
		Phosphate (PO ₄ ³⁻):	ND		Manganese (Mn ²⁺):	2.1	0.1
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	ND	
					Zinc (Zn ²⁺):	ND	
ALKALINITY BY TITRATION:	mg/L						
Bicarbonate (HCO ₃ ⁻):	72.9				Aluminum (Al ³⁺):	ND	
Carbonate (CO ₃ ²⁻):	ND				Chromium (Cr ³⁺):	ND	
Hydroxide (OH ⁻):	ND				Cobalt (Co ²⁺):	ND	
		ORGANIC ACIDS:	mg/L	meq/L	Copper (Cu ²⁺):	ND	
aqueous CO ₂ (ppm):		ND Formic Acid:	ND		Molybdenum (Mo ²⁺):	ND	
aqueous H ₂ S (ppm):		ND Acetic Acid:	ND		Nickel (Ni ²⁺):	ND	
aqueous O ₂ (ppb):		ND Propionic Acid:	ND		Tin (Sn ²⁺):	ND	
		Butyric Acid:	ND		Titanium (Ti ²⁺):	ND	
Calculated TDS (mg/L):		280295 Valeric Acid:	ND		Vanadium (V ²⁺):	ND	
Density/Specific Gravity (g/cm ³):		1.1818			Zirconium (Zr ²⁺):	ND	
Measured Specific Gravity		ND			Lithium (Li):	ND	
Conductivity (mmhos):		ND					
Resistivity:		ND			Total Hardness:	81598	N/A
MCF/D:		No Data					
BOPD:		No Data					
BWPD:		No Data					
		Anion/Cation Ratio:		1.00			ND = Not Determined

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	1.30	4.718	1.93	18.314	0.30	231.409	0.26	166.385
99°F	24 psi	1.18	4.640	1.96	18.417	0.31	236.321	0.35	202.727
118°F	34 psi	1.06	4.540	2.00	18.561	0.31	235.273	0.43	230.661
137°F	43 psi	0.95	4.414	2.03	18.702	0.30	231.928	0.51	253.958
156°F	53 psi	0.85	4.261	2.07	18.828	0.29	227.644	0.59	273.804
174°F	62 psi	0.75	4.077	2.09	18.936	0.29	222.805	0.68	290.641
193°F	72 psi	0.65	3.861	2.11	19.028	0.28	217.267	0.77	304.726
212°F	81 psi	0.57	3.611	2.13	19.116	0.26	210.532	0.85	316.307
231°F	91 psi	0.48	3.320	2.14	19.199	0.25	201.807	0.94	325.667
250°F	100 psi	0.40	2.983	2.14	19.264	0.23	189.998	1.02	333.104

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.95	411.840	-0.27	0.000	-8.01	0.000	0.61	8.405
99°F	24 psi	0.97	413.740	-0.29	0.000	-8.14	0.000	0.70	9.419
118°F	34 psi	0.97	414.525	-0.30	0.000	-8.22	0.000	0.79	10.436
137°F	43 psi	0.97	414.899	-0.32	0.000	-8.28	0.000	0.87	11.275
156°F	53 psi	0.97	415.306	-0.34	0.000	-8.33	0.000	0.93	11.913
174°F	62 psi	0.98	416.003	-0.36	0.000	-8.37	0.000	0.97	12.363
193°F	72 psi	0.99	417.099	-0.37	0.000	-8.41	0.000	0.99	12.640
212°F	81 psi	0.99	418.578	-0.39	0.000	-8.44	0.000	0.99	12.803
231°F	91 psi	1.01	420.328	-0.41	0.000	-8.47	0.000	0.98	12.845
250°F	100 psi	1.02	422.166	-0.42	0.000	-8.49	0.000	0.95	12.720

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

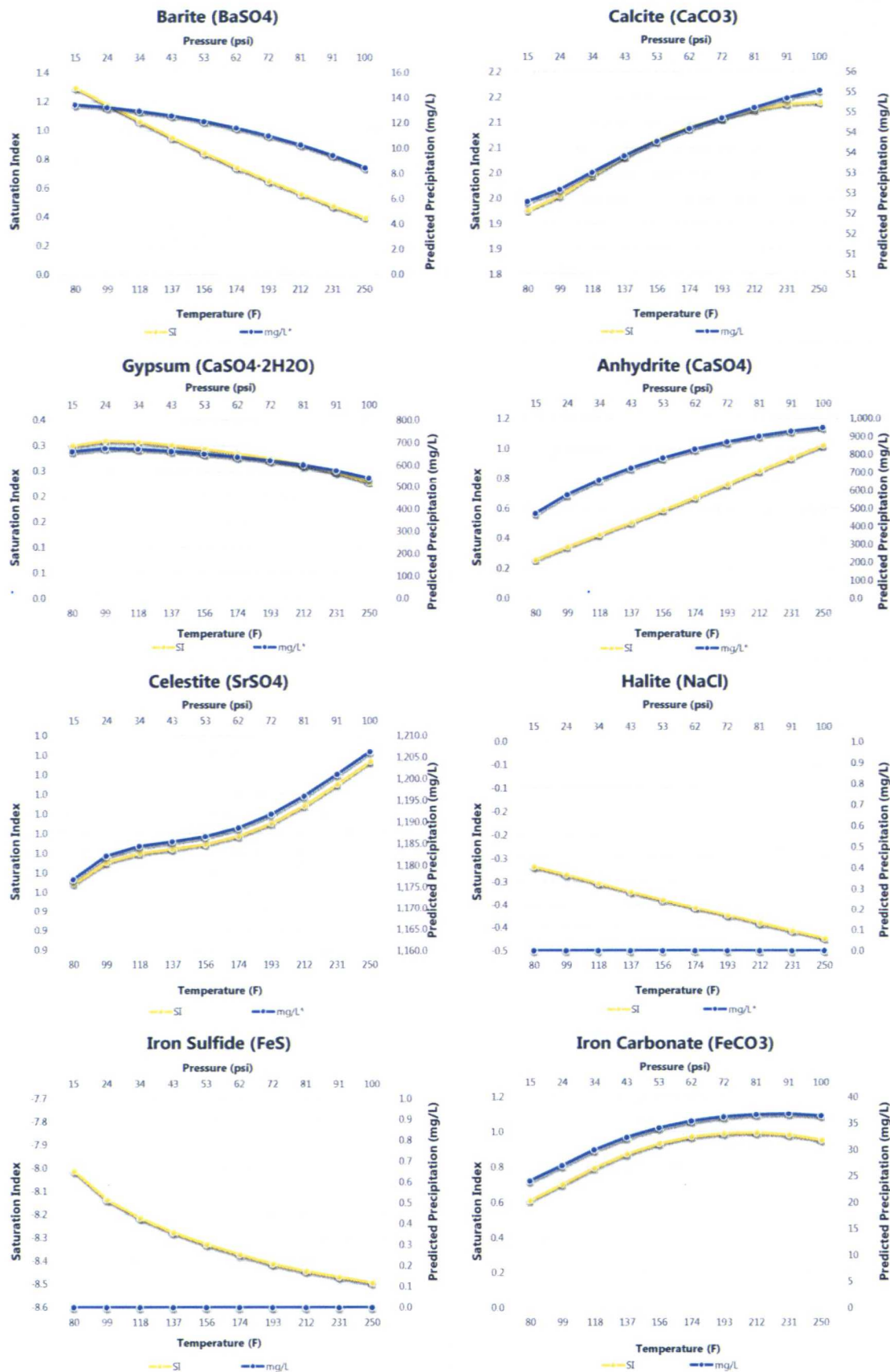
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.

ScaleSoft Pitzer™
SSP2010

Comments:

25% Reservoir Water, 75% Injection Water



SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

Water Analysis Report

Customer: Paladin Energy
Area: Permian Basin
Lease: South Vacuum
Location: 35-4 (Devonian) 0
Sample Point: Wellhead

Sample #: 27312
Analysis ID #: 25890

Sampling Date:	4/6/2015	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	4/10/2015	Chloride:	26148.7	737.58	Sodium:	13960.0	607.23
Analyst:	Catalyst	Bicarbonate:	366.0	6.	Magnesium:	365.4	30.06
TDS (mg/l or g/m3):	44701.1	Carbonate:			Calcium:	2363.0	117.91
Density (g/cm3):	1.032	Sulfate:	1020.0	21.24	Potassium:	350.1	8.95
		Borate*:	62.4	0.39	Strontium:	65.5	1.6
		*Calculated based on measured elemental boron.			Barium:	0.0	0.
Hydrogen Sulfide:	306				Iron:	0.0	0.
Carbon Dioxide:	80				Manganese:	0.000	0.
Comments:		pH at time of sampling:		6.92			
		pH at time of analysis:					
		pH used in Calculation:		6.92			
		Temperature @ lab conditions (F):		75	Conductivity (micro-ohms/cm):		66700
					Resistivity (ohm meter):		1499

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.58	27.83	-0.35	0.00	-0.40	0.00	-0.11	0.00	0.00	0.00
100	0.68	33.20	-0.38	0.00	-0.36	0.00	-0.11	0.00	0.00	0.00
120	0.78	39.23	-0.39	0.00	-0.30	0.00	-0.10	0.00	0.00	0.00
140	0.89	45.27	-0.40	0.00	-0.21	0.00	-0.08	0.00	0.00	0.00
160	0.99	51.30	-0.40	0.00	-0.11	0.00	-0.06	0.00	0.00	0.00
180	1.10	57.01	-0.40	0.00	0.01	5.70	-0.03	0.00	0.00	0.00
200	1.20	62.71	-0.39	0.00	0.14	121.05	0.00	0.34	0.00	0.00
220	1.31	68.07	-0.37	0.00	0.28	216.28	0.04	4.02	0.00	0.00

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: OCCIDENTAL PERMIAN EOR
DISTRICT: NEW MEXICO
AREA/LEASE: HOBBS
SAMPLE POINT NAME: NHSAU WINDMILL 1
SITE TYPE: FACILITY
SAMPLE POINT DESCRIPTION: SEE COMMENTS

ACCOUNT REP: SHANNON LEE
SAMPLE ID: 201701011083
SAMPLE DATE: 3/9/2017
ANALYSIS DATE: 3/15/2017
ANALYST: FR

OCCIDENTAL PERMIAN EOR, HOBBS, NHSAU WINDMILL 1

FIELD DATA			ANALYSIS OF SAMPLE					
			ANIONS:	mg/L	meq/L	CATIONS:	mg/L	meq/L
Initial Temperature (°F):	135	Chloride (Cl ⁻):	53.0	1.5	Sodium (Na ⁺):	65.0	2.8	
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):	75.0	1.6	Potassium (K ⁺):	1.9	0.0	
Initial Pressure (psi):	1800	Borate (H ₃ BO ₃):	1.0	0.0	Magnesium (Mg ²⁺):	11.0	0.9	
Final Pressure (psi):	15	Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	37.9	1.9	
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	0.6	0.0	
pH:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	0.1	0.0	
pH at time of sampling:	8.8	Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	1.6	0.1	
		Phosphate (PO ₄ ³⁻):	ND		Manganese (Mn ²⁺):	0.0	0.0	
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	0.2	0.0	
					Zinc (Zn ²⁺):	0.4	0.0	
ALKALINITY BY TITRATION:	mg/L	meq/L						
Bicarbonate (HCO ₃ ⁻):	61.0	1.0			Aluminum (Al ³⁺):	0.1	0.0	
Carbonate (CO ₃ ²⁻):	ND				Chromium (Cr ³⁺):	ND		
Hydroxide (OH ⁻):	ND				Cobalt (Co ²⁺):	ND		
			ORGANIC ACIDS:	mg/L	meq/L			
aqueous CO ₂ (ppm):	0.0	Formic Acid:	ND		Copper (Cu ²⁺):	0.0	0.0	
aqueous H ₂ S (ppm):	0.0	Acetic Acid:	ND		Molybdenum (Mo ²⁺):	0.2	0.0	
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND		Nickel (Ni ²⁺):	ND		
		Butyric Acid:	ND		Tin (Sn ²⁺):	ND		
Calculated TDS (mg/L):	307	Valeric Acid:	ND		Titanium (Ti ²⁺):	ND		
Density/Specific Gravity (g/cm ³):	0.9973				Vanadium (V ²⁺):	ND		
Measured Specific Gravity	1.0005				Zirconium (Zr ²⁺):	ND		
Conductivity (mmhos):	ND				Lithium (Li):	ND		
Resistivity:	ND				Total Hardness:	141	N/A	
MCF/D:	No Data							
BOPD:	No Data							
BWPD:	No Data	Anion/Cation Ratio:	0.71		ND = Not Determined			

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

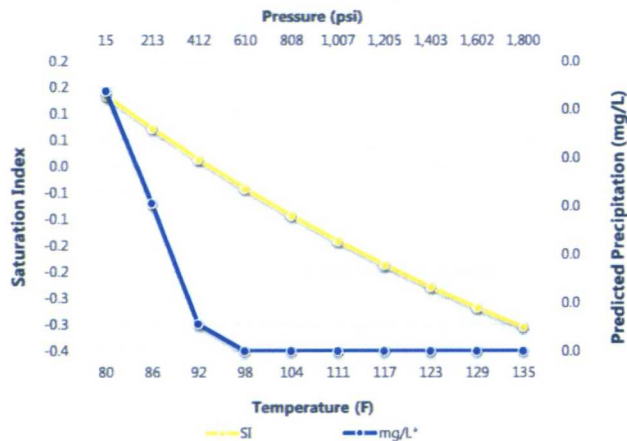
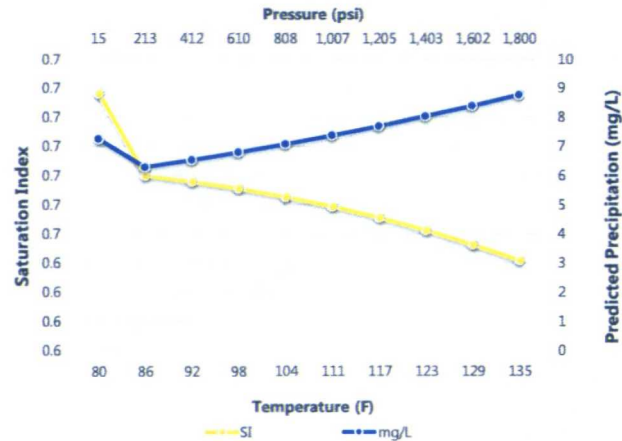
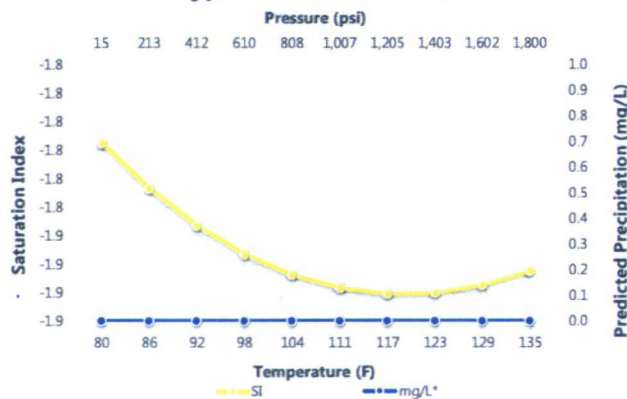
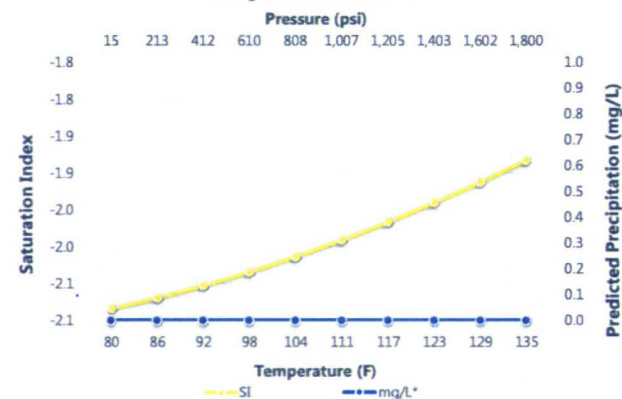
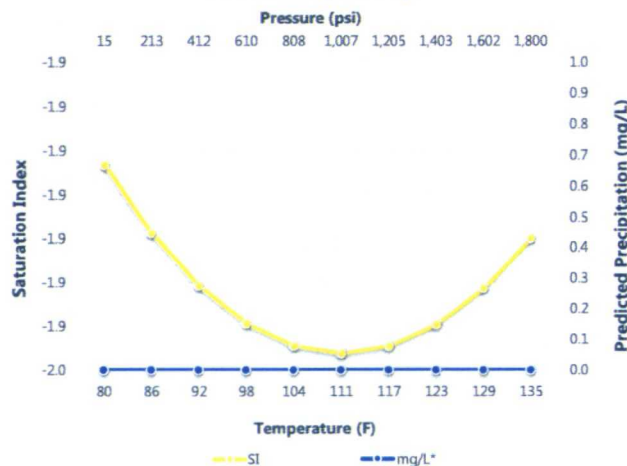
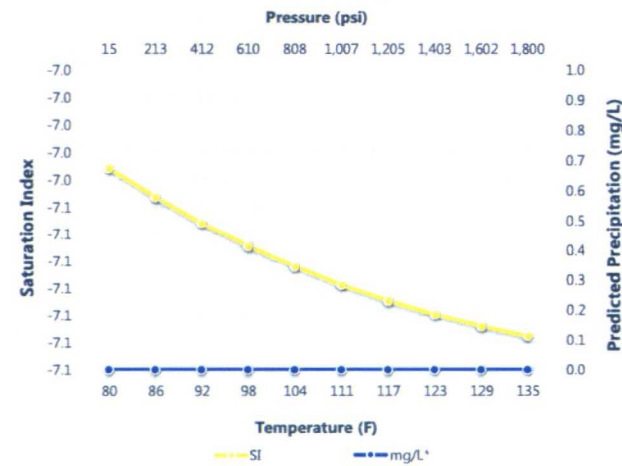
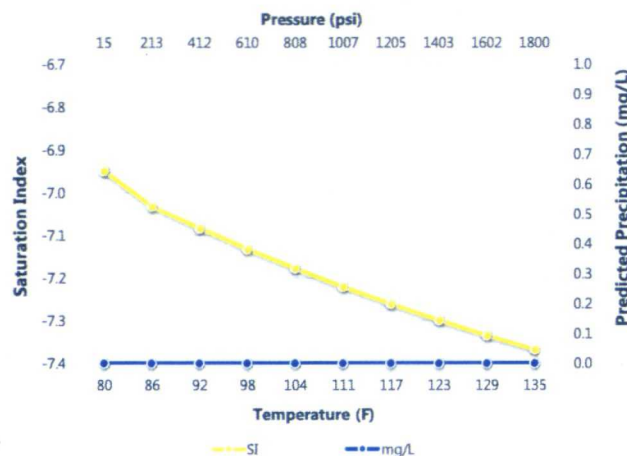
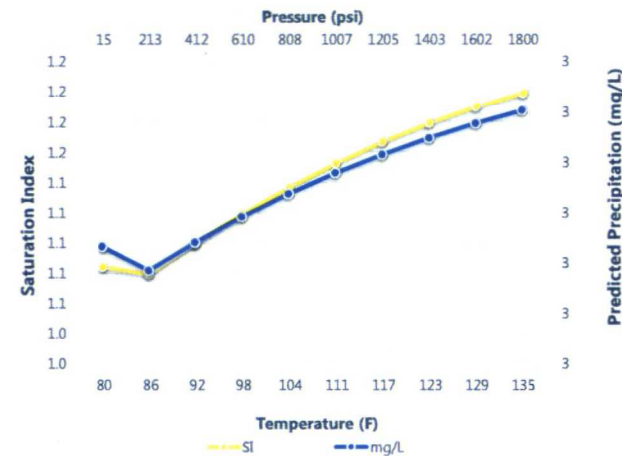
Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.13	0.009	0.70	2.537	-1.83	0.000	-2.08	0.000
86°F	213 psi	0.07	0.005	0.67	2.201	-1.84	0.000	-2.07	0.000
92°F	412 psi	0.01	0.001	0.67	2.286	-1.85	0.000	-2.05	0.000
98°F	610 psi	-0.04	0.000	0.67	2.377	-1.85	0.000	-2.03	0.000
104°F	808 psi	-0.09	0.000	0.66	2.475	-1.86	0.000	-2.01	0.000
111°F	1007 psi	-0.14	0.000	0.66	2.580	-1.86	0.000	-1.99	0.000
117°F	1205 psi	-0.19	0.000	0.66	2.692	-1.86	0.000	-1.97	0.000
123°F	1403 psi	-0.23	0.000	0.65	2.810	-1.86	0.000	-1.94	0.000
129°F	1602 psi	-0.27	0.000	0.65	2.935	-1.86	0.000	-1.91	0.000
135°F	1800 psi	-0.30	0.000	0.64	3.066	-1.86	0.000	-1.88	0.000

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-1.93	0.000	-7.04	0.000	-6.95	0.000	1.08	1.021
86°F	213 psi	-1.93	0.000	-7.05	0.000	-7.03	0.000	1.08	1.012
92°F	412 psi	-1.94	0.000	-7.06	0.000	-7.08	0.000	1.10	1.022
98°F	610 psi	-1.94	0.000	-7.06	0.000	-7.13	0.000	1.12	1.031
104°F	808 psi	-1.95	0.000	-7.07	0.000	-7.18	0.000	1.14	1.039
111°F	1007 psi	-1.95	0.000	-7.08	0.000	-7.22	0.000	1.15	1.046
117°F	1205 psi	-1.95	0.000	-7.08	0.000	-7.26	0.000	1.17	1.053
123°F	1403 psi	-1.94	0.000	-7.09	0.000	-7.30	0.000	1.18	1.058
129°F	1602 psi	-1.94	0.000	-7.09	0.000	-7.33	0.000	1.19	1.063
135°F	1800 psi	-1.93	0.000	-7.10	0.000	-7.37	0.000	1.20	1.068

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.

Barite (BaSO₄)**Calcite (CaCO₃)****Gypsum (CaSO₄·2H₂O)****Anhydrite (CaSO₄)****Celestite (SrSO₄)****Halite (NaCl)****Iron Sulfide (FeS)****Iron Carbonate (FeCO₃)**

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: OCCIDENTAL PERMIAN EOR
DISTRICT: NEW MEXICO
AREA/LEASE: HOBBS
SAMPLE POINT NAME: NHSAU WINDMILL 2
SITE TYPE: FACILITY
SAMPLE POINT DESCRIPTION: SEE COMMENTS

ACCOUNT REP: SHANNON LEE
SAMPLE ID: 201701011084
SAMPLE DATE: 3/9/2017
ANALYSIS DATE: 3/15/2017
ANALYST: FR

OCCIDENTAL PERMIAN EOR, HOBBS, NHSAU WINDMILL 2

FIELD DATA			ANALYSIS OF SAMPLE							
			ANIONS:		mg/L	meq/L	CATIONS:		mg/L	meq/L
Initial Temperature (°F):	135	Chloride (Cl ⁻):	29.0	0.8	Sodium (Na ⁺):	65.0	2.8			
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):	44.0	0.9	Potassium (K ⁺):	4.6	0.1			
Initial Pressure (psi):	1800	Borate (H ₃ BO ₃):	0.7	0.0	Magnesium (Mg ²⁺):	8.6	0.7			
Final Pressure (psi):	15	Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	54.4	2.7			
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	0.6	0.0			
pH:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	0.1	0.0			
pH at time of sampling:	7.6	Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	0.6	0.0			
		Phosphate (PO ₄ ³⁻):	ND		Manganese (Mn ²⁺):	0.1	0.0			
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	0.0	0.0			
					Zinc (Zn ²⁺):	0.1	0.0			
ALKALINITY BY TITRATION:	mg/L	meq/L								
Bicarbonate (HCO ₃ ⁻):	97.6	1.6			Aluminum (Al ³⁺):	0.0	0.0			
Carbonate (CO ₃ ²⁻):	ND				Chromium (Cr ³⁺):	ND				
Hydroxide (OH ⁻):	ND				Cobalt (Co ²⁺):	ND				
			ORGANIC ACIDS:	mg/L	meq/L					
aqueous CO ₂ (ppm):	10.0	Formic Acid:	ND		Copper (Cu ²⁺):	0.0	0.0			
aqueous H ₂ S (ppm):	0.0	Acetic Acid:	ND		Molybdenum (Mo ²⁺):	0.0	0.0			
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND		Nickel (Ni ²⁺):	ND				
		Butyric Acid:	ND		Tin (Sn ²⁺):	ND				
Calculated TDS (mg/L):	305	Valeric Acid:	ND		Titanium (Ti ²⁺):	ND				
Density/Specific Gravity (g/cm ³):	0.9973				Vanadium (V ²⁺):	ND				
Measured Specific Gravity	1.0005				Zirconium (Zr ²⁺):	ND				
Conductivity (mmhos):	ND				Lithium (Li):	ND				
Resistivity:	ND				Total Hardness:	172	N/A			
MCF/D:	No Data									
BOPD:	No Data									
BWPD:	No Data	Anion/Cation Ratio:	0.52		ND = Not Determined					

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

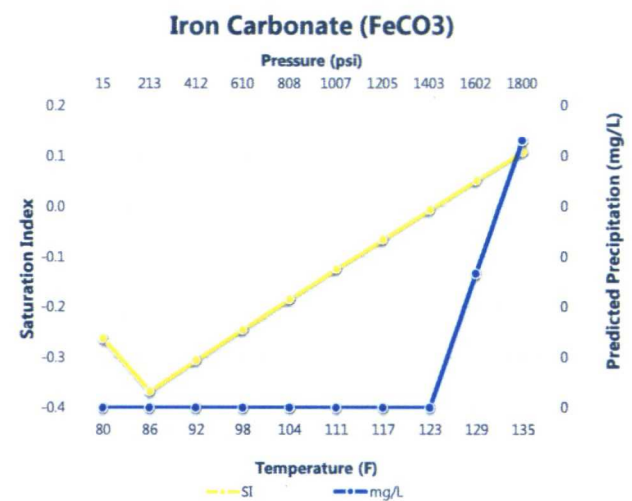
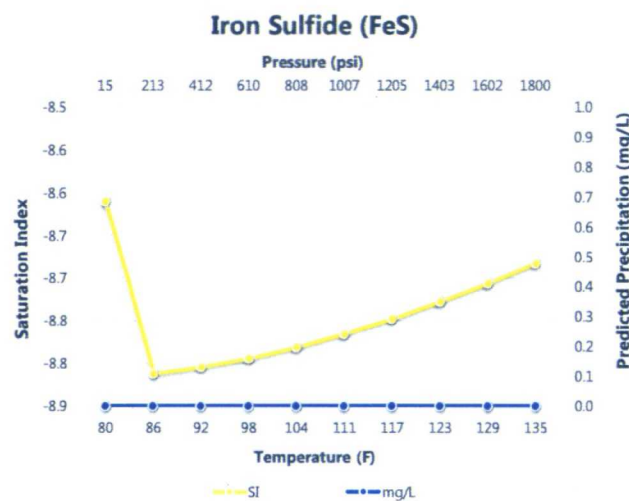
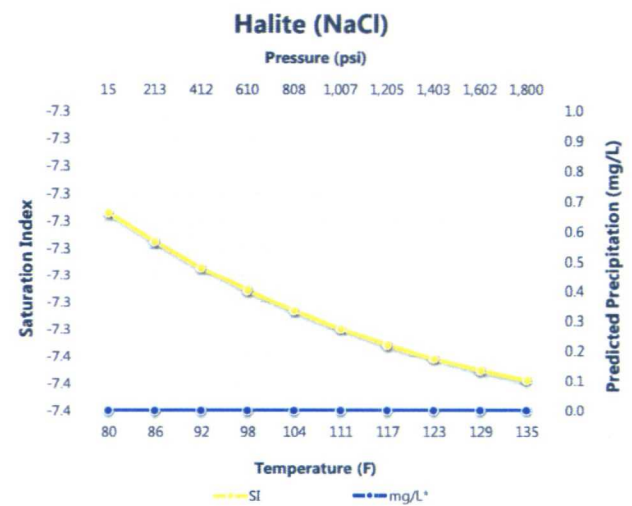
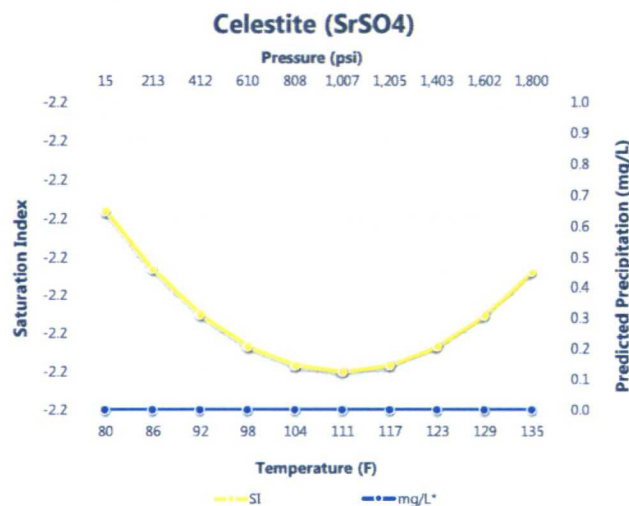
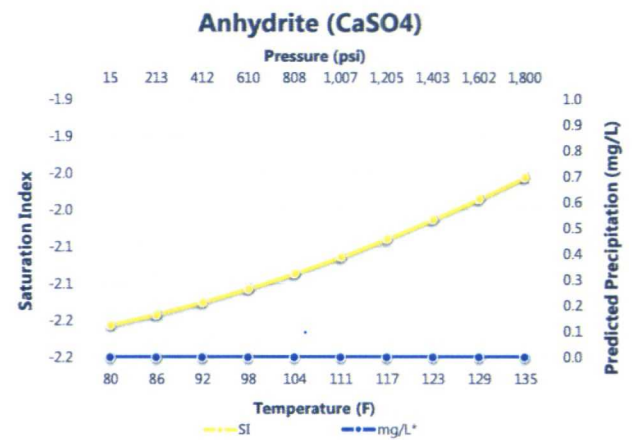
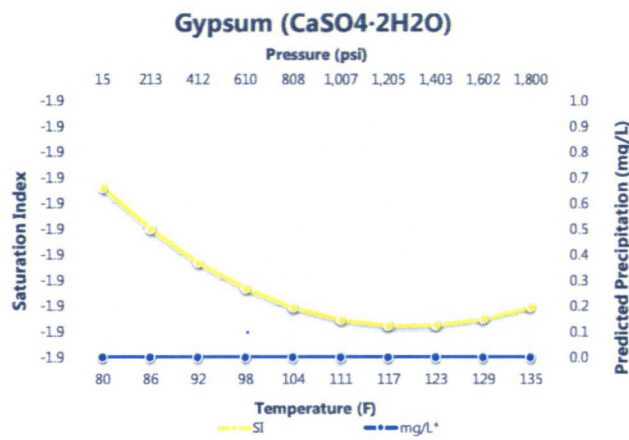
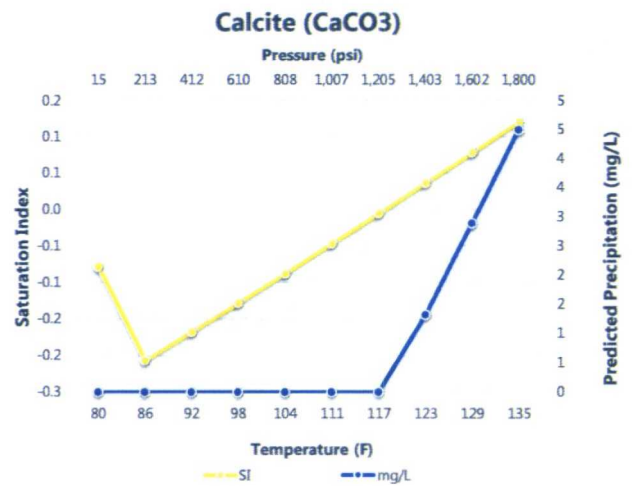
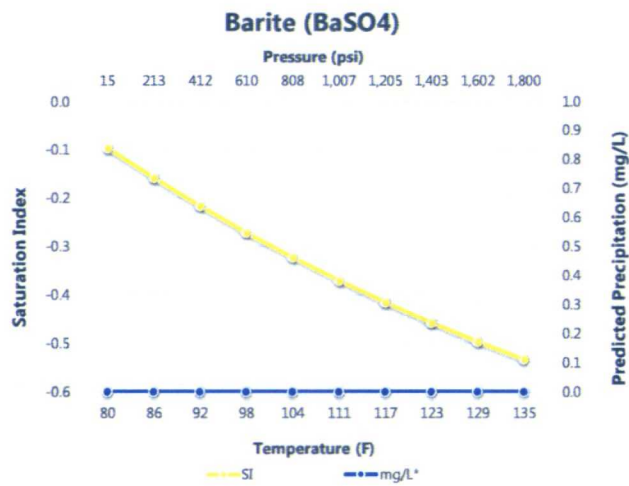
Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.10	0.000	-0.08	0.000	-1.91	0.000	-2.16	0.000
86°F	213 psi	-0.16	0.000	-0.21	0.000	-1.92	0.000	-2.14	0.000
92°F	412 psi	-0.22	0.000	-0.17	0.000	-1.92	0.000	-2.13	0.000
98°F	610 psi	-0.27	0.000	-0.13	0.000	-1.93	0.000	-2.11	0.000
104°F	808 psi	-0.32	0.000	-0.09	0.000	-1.93	0.000	-2.09	0.000
111°F	1007 psi	-0.37	0.000	-0.05	0.000	-1.93	0.000	-2.06	0.000
117°F	1205 psi	-0.42	0.000	-0.01	0.000	-1.93	0.000	-2.04	0.000
123°F	1403 psi	-0.46	0.000	0.04	0.462	-1.93	0.000	-2.01	0.000
129°F	1602 psi	-0.50	0.000	0.08	1.010	-1.93	0.000	-1.99	0.000
135°F	1800 psi	-0.53	0.000	0.12	1.570	-1.93	0.000	-1.96	0.000

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-2.18	0.000	-7.30	0.000	-8.61	0.000	-0.26	0.000
86°F	213 psi	-2.19	0.000	-7.31	0.000	-8.81	0.000	-0.37	0.000
92°F	412 psi	-2.19	0.000	-7.32	0.000	-8.80	0.000	-0.31	0.000
98°F	610 psi	-2.20	0.000	-7.33	0.000	-8.79	0.000	-0.24	0.000
104°F	808 psi	-2.20	0.000	-7.33	0.000	-8.78	0.000	-0.18	0.000
111°F	1007 psi	-2.20	0.000	-7.34	0.000	-8.77	0.000	-0.12	0.000
117°F	1205 psi	-2.20	0.000	-7.35	0.000	-8.75	0.000	-0.06	0.000
123°F	1403 psi	-2.20	0.000	-7.35	0.000	-8.73	0.000	-0.01	0.000
129°F	1602 psi	-2.19	0.000	-7.36	0.000	-8.71	0.000	0.05	0.046
135°F	1800 psi	-2.19	0.000	-7.36	0.000	-8.68	0.000	0.11	0.093

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: OCCIDENTAL PERMIAN EOR
DISTRICT: NEW MEXICO
AREA/LEASE: HOBBS
SAMPLE POINT NAME: NHSAU RANCH HOUSE
SITE TYPE: FACILITY
SAMPLE POINT DESCRIPTION: SEE COMMENTS

ACCOUNT REP: SHANNON LEE
SAMPLE ID: 201701011085
SAMPLE DATE: 3/9/2017
ANALYSIS DATE: 3/15/2017
ANALYST: FR

OCCIDENTAL PERMIAN EOR, HOBBS, NHSAU RANCH HOUSE

FIELD DATA			ANALYSIS OF SAMPLE							
			ANIONS:		mg/L	meq/L	CATIONS:		mg/L	meq/L
Initial Temperature (°F):	135	Chloride (Cl ⁻):		48.0		1.4	Sodium (Na ⁺):		50.0	2.2
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):		62.0		1.3	Potassium (K ⁺):		3.3	0.1
Initial Pressure (psi):	1800	Borate (H ₃ BO ₃):		0.7		0.0	Magnesium (Mg ²⁺):		11.7	1.0
Final Pressure (psi):	15	Fluoride (F ⁻):		ND			Calcium (Ca ²⁺):		71.2	3.6
		Bromide (Br ⁻):		ND			Strontium (Sr ²⁺):		0.8	0.0
pH:		Nitrite (NO ₂ ⁻):		ND			Barium (Ba ²⁺):		0.1	0.0
pH at time of sampling:	7.5	Nitrate (NO ₃ ⁻):		ND			Iron (Fe ²⁺):		7.2	0.3
		Phosphate (PO ₄ ³⁻):		ND			Manganese (Mn ²⁺):		0.0	0.0
		Silica (SiO ₂):		ND			Lead (Pb ²⁺):		ND	
							Zinc (Zn ²⁺):		2.1	0.1
ALKALINITY BY TITRATION:	mg/L	meq/L					Aluminum (Al ³⁺):		0.0	0.0
Bicarbonate (HCO ₃ ⁻):	97.6	1.6					Chromium (Cr ³⁺):		ND	
Carbonate (CO ₃ ²⁻):	ND						Cobalt (Co ²⁺):		ND	
Hydroxide (OH ⁻):	ND						Copper (Cu ²⁺):		0.2	0.0
		ORGANIC ACIDS:		mg/L	meq/L		Molybdenum (Mo ²⁺):		ND	
aqueous CO ₂ (ppm):	20.0	Formic Acid:		ND			Nickel (Ni ²⁺):		ND	
aqueous H ₂ S (ppm):	0.0	Acetic Acid:		ND			Tin (Sn ²⁺):		ND	
aqueous O2 (ppb):	ND	Propionic Acid:		ND			Titanium (Ti ²⁺):		ND	
		Butyric Acid:		ND			Vanadium (V ²⁺):		ND	
Calculated TDS (mg/L):	354	Valeric Acid:		ND			Zirconium (Zr ²⁺):		ND	
Density/Specific Gravity (g/cm ³):	0.9974						Lithium (Li):		ND	
Measured Specific Gravity	1.0006									
Conductivity (mmhos):	ND						Total Hardness:		227	N/A
Resistivity:	ND									
MCF/D:	No Data									
BOPD:	No Data									
BWPD:	No Data	Anion/Cation Ratio:			0.60		ND = Not Determined			

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

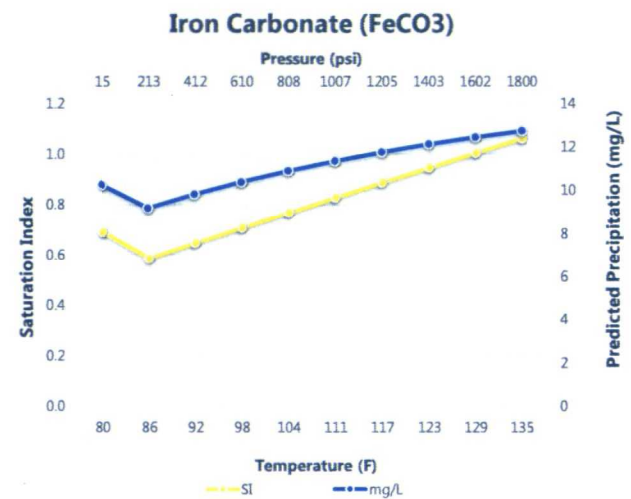
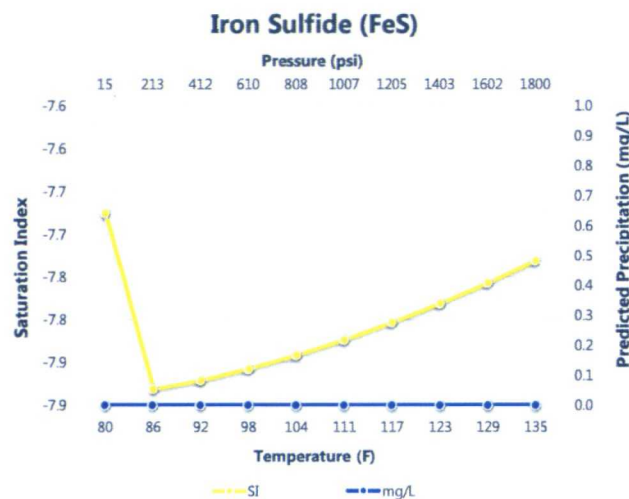
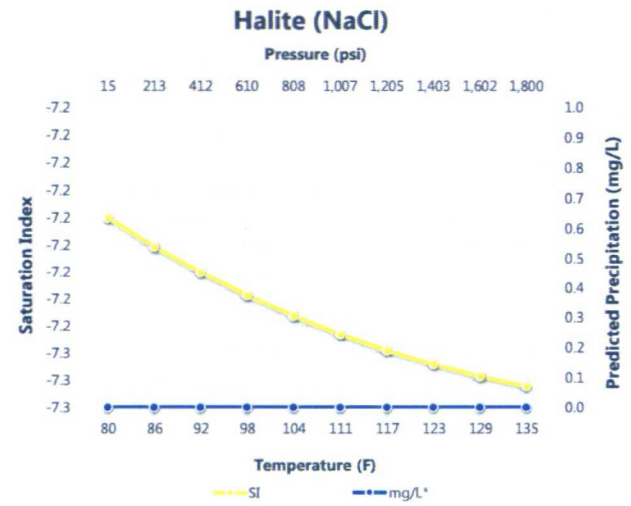
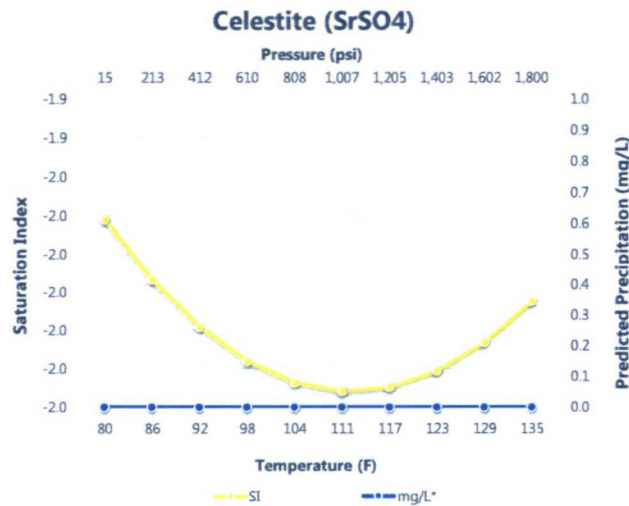
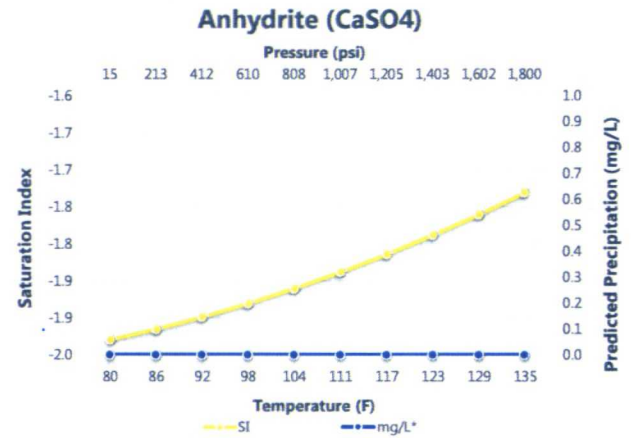
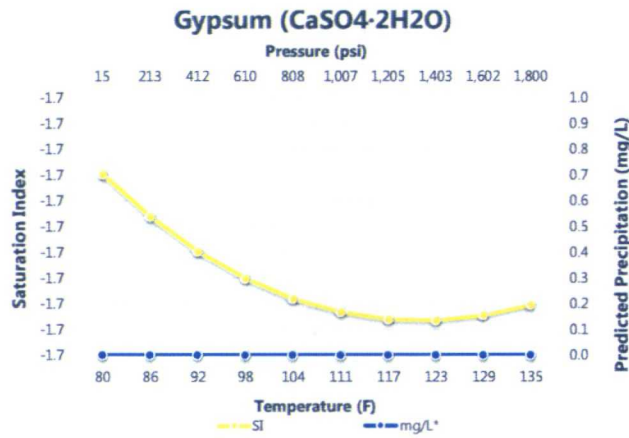
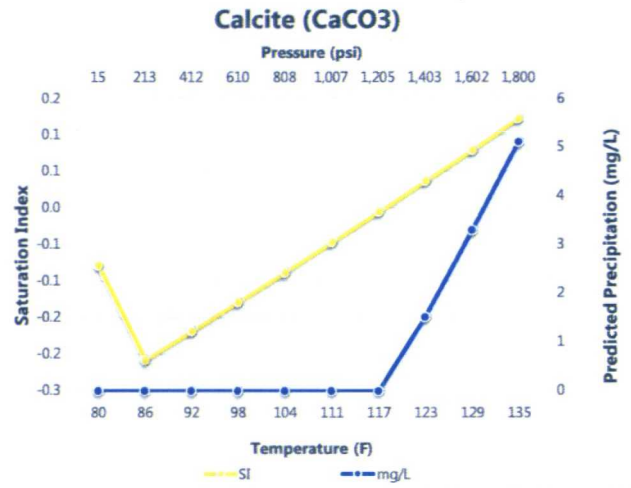
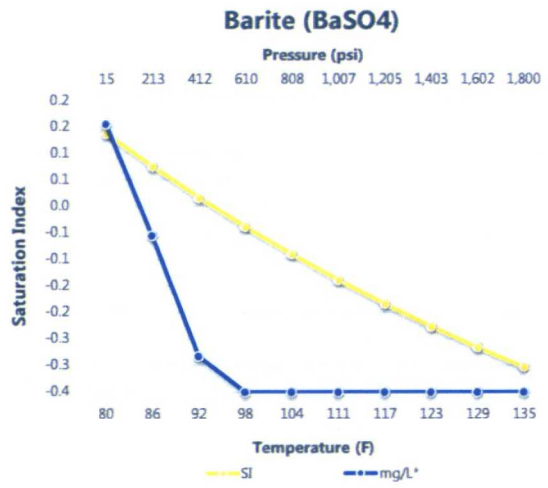
Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	0.14	0.013	-0.08	0.000	-1.68	0.000	-1.93	0.000
86°F	213 psi	0.07	0.007	-0.21	0.000	-1.69	0.000	-1.91	0.000
92°F	412 psi	0.02	0.002	-0.17	0.000	-1.69	0.000	-1.90	0.000
98°F	610 psi	-0.04	0.000	-0.13	0.000	-1.70	0.000	-1.88	0.000
104°F	808 psi	-0.09	0.000	-0.09	0.000	-1.70	0.000	-1.86	0.000
111°F	1007 psi	-0.14	0.000	-0.05	0.000	-1.71	0.000	-1.84	0.000
117°F	1205 psi	-0.18	0.000	-0.01	0.000	-1.71	0.000	-1.81	0.000
123°F	1403 psi	-0.23	0.000	0.04	0.529	-1.71	0.000	-1.79	0.000
129°F	1602 psi	-0.27	0.000	0.08	1.151	-1.71	0.000	-1.76	0.000
135°F	1800 psi	-0.30	0.000	0.12	1.784	-1.71	0.000	-1.73	0.000

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-1.96	0.000	-7.20	0.000	-7.67	0.000	0.69	3.582
86°F	213 psi	-1.96	0.000	-7.21	0.000	-7.88	0.000	0.59	3.215
92°F	412 psi	-1.97	0.000	-7.22	0.000	-7.87	0.000	0.65	3.435
98°F	610 psi	-1.97	0.000	-7.23	0.000	-7.86	0.000	0.71	3.634
104°F	808 psi	-1.98	0.000	-7.24	0.000	-7.84	0.000	0.77	3.812
111°F	1007 psi	-1.98	0.000	-7.24	0.000	-7.82	0.000	0.83	3.973
117°F	1205 psi	-1.98	0.000	-7.25	0.000	-7.80	0.000	0.89	4.115
123°F	1403 psi	-1.98	0.000	-7.25	0.000	-7.78	0.000	0.95	4.242
129°F	1602 psi	-1.97	0.000	-7.26	0.000	-7.76	0.000	1.01	4.355
135°F	1800 psi	-1.97	0.000	-7.26	0.000	-7.73	0.000	1.06	4.454

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



Affidavit of Publication

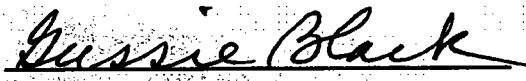
STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

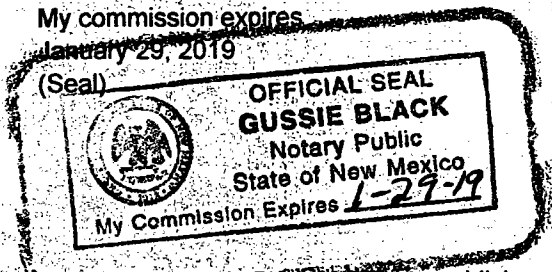
Beginning with the issue dated
March 09, 2017
and ending with the issue dated
March 09, 2017.


Publisher

Sworn and subscribed to before me this
9th day of March 2017.


Business Manager

My commission expires
January 29, 2019



This newspaper is duly qualified to publish
legal notices or advertisements within the
meaning of Section 3, Chapter 167, Laws of
1937 and payment of fees for said

LEGAL NOTICE MARCH 9, 2017

NOTICE OF APPLICATION FOR FLUID DISPOSAL

Occidental Permian Ltd., P.O. Box 4294, Houston, TX 77210-4294 is applying for a disposal permit of produced water into a zone that is non productive of oil and gas. The applicant proposes to drill the Hobbs Guzzler SWD Well No. 1 located in Section 23, Township 18 South, Range 37 East, 440' FSL and 435' FWL in Lea County NM. Disposal will be in the Devonian formation from 10,100' - 11500' with a maximum injection rate of 30,000 BWPD and maximum injection pressure of 2000 PSI.

Interested parties must file objections or requests of hearings with the NM Oil Conservation Division, 1220 South Saint Francis Dr., Santa Fe, NM 87505 within 15 days of this application. Additional information may be obtained by contacting Mr. Scott Hodges, Occidental Permian Ltd., at (575) 397-8211, 1017 W. Stanolind Rd. Hobbs, NM 88240 #31609

67111848

00189839

CRAIG WILLOUGHBY
OCCIDENTAL PERMIAN
5 GREENWAY PLAZA, STE 110
HOUSTON, TX 77046



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

**Service List – C108 Application
Hobbs Guzzler SWD No. 1**

Surface Owner Clerk:

State Land Office
PO Box 1148
Santa Fe, NM 87504

A C Ranch
817 N. Grimes
Hobbs, NM 88240

District Office:

NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

Working Interest Owners and Lessees:

Southwest Petroleum Company, LP, Lessee
PO Box 702377
Dallas, TX 75370-2377

Leon M. Lampert
5646 Milton St, Suite 413
Dallas, TX 75206

Chase Oil Corporation, Lessee
PO Box 1767
Artesia, NM 88211-1767

Robert C. Chase
PO Box 297
Artesia, NM 88211

Ventana Minerals, LLC
PO Box 359
Artesia, NM 88211

DiaKan Minerals, LLC
PO Box 693
Artesia, NM 88211

Loma Hombre Energy, LLC
PO Box 50187
Midland, TX 79702

I certify that the above listed parties were mailed copies of C-108, Application of Fluid Disposal.

April Hood
Regulatory Specialist

Date

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Midland, TX 79702

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Chase Oil Corporation, Lessee
PO Box 1767
Artesia, NM 88211-1737

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City, State

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or PO Box #
City, State

NMOC District 1
1625 N. French Dr.
Hobbs, NM 88240

PS Form 3800, June 2002

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Sent To
PO Box 359
Artesia, NM 88211

PS Form 3800, April 2015 PSN 7530-02-000-9047

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Total

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Street, Apt.
or PO Box #
City, State

Leon M. Lampert
5646 Milton Street, Ste 413
Dallas, TX 75206

PS Form 3800, June 2002

See Reverse for Instructions

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PO Box 1148
Santa Fe, NM 87504

PS Form 3800, April 2015 PSN 7530-02-000-9047

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PO Box 702377
Dallas, TX 75370-2377

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

District I
1625 N. Branch Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
671 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Blanco 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) 476-3489 Fax: (505) 476-3452

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
Property Code	Property Name HOBBS GUZZLER SWD	Well Number 1
OGRID No.	Operator Name OCCIDENTAL PERMIAN LTD.	Elevation 3687.2'

Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
M	23	18 SOUTH	37 EAST, N.M.P.M.		440'	SOUTH	435'	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
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.

SURFACE LOCATION NEW MEXICO EAST NAD 1927 Y=828912.84 US FT X=839713.50 US FT LAT.: N 32.726858° LONG.: W 103.226693°	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 mineral interest 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. <i>April Hood</i> 3/30/17 _____ Date APRIL HOOD _____ Printed Name April-Hood@Oxy.com _____ Email Address
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was located from a true and correct survey made by me or under my supervision, and that the same is true and correct to the best of my belief. ERRY J. AS _____ Date of Survey 15079 FEBRUARY 21, 2015 _____ Signature and Stamp Professional Surveyor 15079 _____ Certificate Number <i>Terry J. As</i> 3/3/2017 _____ Date

McMillan, Michael, EMNRD

From: April_Hood@oxy.com
Sent: Monday, March 27, 2017 9:45 AM
To: McMillan, Michael, EMNRD
Subject: FW: USPS Item Delivered, Individual Picked Up at Postal Facility for Shipment 70162070000007630685

Please see below the delivery notification from the USPS showing the SLO received the application. Thanks!

From: auto-reply@usps.com [mailto:auto-reply@usps.com]
Sent: Monday, March 27, 2017 10:41 AM
To: Hood, April <April_Hood@oxy.com>
Subject: [EXTERNAL] USPS Item Delivered, Individual Picked Up at Postal Facility for Shipment 70162070000007630685

Tracking Number:
70162070000007630685



Hello April Hood,

Thank you for using USPS.com.

This is a post-only message. Please do not respond.

April Hood has requested that you receive a USPS Tracking® update, as shown below.

USPS Tracking® e-mail update information provided by the U.S. Postal Service.

Tracking Number: 70162070000007630685

Updated Delivery Date: March 27, 2017

Service Type: Certified Mail™

NYS20

Shipment Activity	Location	Date & Time	With Partner
Delivered, Individual Picked Up at Postal Facility	SANTA FE, NM 87504	March 27, 2017 7:38 am	
Arrived at Unit	SANTA FE, NM 87501	March 27, 2017 7:37 am	
In Transit to Destination		March 24, 2017 5:28 pm	
Departed USPS Facility	ALBUQUERQUE, NM 87101	March 23, 2017 6:08 pm	

Arrived at USPS Facility	ALBUQUERQUE, NM 87101	March 23, 2017 12:39 pm
In Transit to Destination		March 23, 2017 6:39 am
Departed USPS Facility	NORTH HOUSTON, TX 77315	March 21, 2017 11:39 pm
Arrived at USPS Facility	NORTH HOUSTON, TX 77315	March 21, 2017 9:53 pm

Reminder: USPS Tracking® by email

Date of email request: March 27, 2017

Future activity will continue to be emailed for up to 2 weeks from the Date of Request shown above. If you need to initiate the USPS Tracking® by email process again at the end of the 2 weeks, please do so at the USPS Tracking® site at <http://www.usps.com/shipping/uspstrackingfaqs.htm>

Results provided by the U.S. Postal Service.

Want to Track on the go?

You can track your packages using USPS Text Tracking™ by texting your tracking number to 28777 (2USPS™) or selecting the Text Update option on our USPS Tracking® site. Standard Message and Data Rates may apply.

For more information go to <https://www.usps.com/text-tracking/welcome.htm>

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USPS Tracking® Results

[FAQs > \(http://faq.usps.com/?articleId=220900\)](http://faq.usps.com/?articleId=220900)**Track Another Package +**

Remove X

Tracking Number: 70162070000007630708✓**Delivered****See More** ▼

Remove X

Tracking Number: 70162070000007630685✓**Delivered****Updated Delivery Day:** Monday, March 27, 2017 ⓘ**See More** ▼

Remove X

Tracking Number: 70162070000007630722¹
Chase



Delivered

See More ▼

Remove ✕

Tracking Number: 70162070000007630715 ✓



Delivered

See More ▼

Remove ✕

Tracking Number: 70162070000007630739 ✓



Delivered

See More ▼

Remove ✕

Tracking Number: 70162070000007630692 ✓

**Delivered**

Updated Delivery Day: Friday, March 24, 2017 ⓘ
See More ∨

Remove ✕

Tracking Number: 70162070000007630753¹
Ventana

**Delivered****See More** ∨

Remove ✕

Tracking Number: 70022030000042554242 ✓

**In Transit****See More** ∨

Remove ✕

Tracking Number: 70022030000042554266¹
NMOC
(Hobbs)

**Delivered**

Updated Delivery Day: Friday, March 24, 2017 ⓘ
See More ✓

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Go to our FAQs section to find answers to your tracking questions.

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Product & Tracking Information

[See Available Actions](#)**Postal Product:****Features:**

Certified Mail™

DATE & TIME

STATUS OF ITEM

LOCATION

March 30, 2017, 6:18 am

In Transit to Destination

DATE & TIME

STATUS OF ITEM
▲

LOCATION

The item is currently in transit to the destination as of March 30, 2017 at 6:18 am.

March 28, 2017, 11:18 pm

Departed USPS Facility

NORTH HOUSTON, TX
77315

March 28, 2017, 10:38 am

Arrived at USPS Facility

NORTH HOUSTON, TX
77315

March 24, 2017, 6:23 am

In Transit to Destination

[See More](#) ▼

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index.htm)

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McMillan, Michael, EMNRD

From: April_Hood@oxy.com
Sent: Friday, March 31, 2017 1:17 PM
To: McMillan, Michael, EMNRD
Cc: Kelley_Montgomery@oxy.com; Sharon_Wyatt@oxy.com
Subject: FW: FedEx Shipment 778785620849 Delivered

Michael,

Per our discussion yesterday, please see below the email from Fed Ex showing package was received to the last party. I sent it signature required.

Thank you and please let me know if there is anything else needed in order to get this package going.

Have a great afternoon.

-----Original Message-----

From: TrackingUpdates@fedex.com [mailto:TrackingUpdates@fedex.com]
Sent: Friday, March 31, 2017 7:29 AM
To: Hood, April <April_Hood@oxy.com>
Subject: [EXTERNAL] FedEx Shipment 778785620849 Delivered

This tracking update has been requested by:

Company Name: Oxy Inc
Name: April Hood
E-mail: april_hood@oxy.com

Our records indicate that the following shipment has been delivered:

Reference: C108 App Notification
Ship date: Mar 30, 2017
Delivery date: Mar 31, 2017 7:23 am
Signed for by: J.DELION
Delivery location: DALLAS, TX
Delivered to: Apartment Office
Delivery date: Fri, 3/31/2017 7:23 am
Service type: FedEx First Overnight
Packaging type: FedEx Envelope
Number of pieces: 1
Weight: 0.50 lb.
Special handling/Services: Adult Signature Required
Deliver Weekday
Residential Delivery
Standard transit: 3/31/2017 by 8:00 am

Tracking number: 778785620849

Shipper Information	Recipient Information
April Hood	Lampert
Oxy Inc	7575 Frankford Rd
5 Greenway Plaza ste 110	Apt 313
Houston	DALLAS
TX	TX
US	US
77046	75252

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 7:29 AM CDT on 03/31/2017.

All weights are estimated.

The shipment is scheduled for delivery on or before the scheduled delivery displayed above. FedEx does not determine money-back guarantee or delay claim requests based on the scheduled delivery. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx customer support representative.

To track the status of this shipment online, please use the following:

<https://www.fedex.com/apps/fedextrack/?action=track&tracknumbers=778785620849&language=en&opco=FX&clientype=ivothor>

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

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Thank you for your business.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								Depth	Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y			Well	Column
<u>L 03016</u>		L	LE	2	4	4	25	18S	37E	668957	3620996*	.		100	
<u>L 04305</u>		L	LE	2	3	1	23	18S	37E	666095	3623375*	.		66	33
<u>L 04920</u>	POD5	L	LE	3	1	3	25	18S	37E	667604	3621168	.		220	52
<u>L 05020</u>		L	LE	3	3	1	27	18S	37E	664313	3621542*	.		156	56
<u>L 05020 S</u>		L	LE	1	4	4	27	18S	37E	665535	3620953*	.		103	47
<u>L 06009</u>		L	LE	2	2	2	22	18S	37E	665685	3623772*	.		205	70
<u>L 06487</u>		L	LE	1	4	2	24	18S	37E	668716	3623414*	.		121	35
<u>L 09326</u>		L	LE				4	27	18S	37E	665435	3621049*	.		80
<u>L 10800</u>		L	LE				4	22	18S	37E	665406	3622660*	.		153
<u>L 11011</u>		L	LE	3	4	3	26	18S	37E	666340	3620764*	.		158	
<u>L 11972</u>	POD1	L	LE	1	4	3	26	18S	37E	666368	3619353	.		131	56
<u>L 12065</u>	POD1	L	LE	4	4	2	25	18S	37E	668916	3621696	.		194	
<u>L 13750</u>	POD4	L	LE	1	3	4	24	18S	37E	668279	3622626	.		300	

Average Depth to Water: **50 feet**

Minimum Depth: **33 feet**

Maximum Depth: **70 feet**

Record Count: 13

PLSS Search:

Section(s): 22-24, 25-27 Township: 18S Range: 37E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/31/17 2:12 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD														
		Sub-			Q	Q	Q							Depth	Water	
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y			Well	Column	
<u>L 03016</u>		L	LE	2	4	4	25	18S	37E	668957	3620996*	•		100		
<u>L 04305</u>		L	LE	2	3	1	23	18S	37E	666095	3623375*	•		66	33	
<u>L 04920 POD5</u>		L	LE	3	1	3	25	18S	37E	667604	3621168	•		220	52	
<u>L 05020</u>		L	LE	3	3	1	27	18S	37E	664313	3621542*	•		156	56	
<u>L 05020 S</u>		L	LE	1	4	4	27	18S	37E	665535	3620953*	•		103	47	
<u>L 06009</u>		L	LE	2	2	2	22	18S	37E	665685	3623772*	•		205	70	
<u>L 06487</u>		L	LE	1	4	2	24	18S	37E	668716	3623414*	•		121	35	
<u>L 09326</u>		L	LE				4	27	18S	37E	665435	3621049*	•		80	42
<u>L 10800</u>		L	LE				4	22	18S	37E	665406	3622660*	•		153	60
<u>L 11011</u>		L	LE	3	4	3	26	18S	37E	666340	3620764*	•		158		
<u>L 11972 POD1</u>		L	LE	1	4	3	26	18S	37E	666368	3619353	•		131	56	
<u>L 12065 POD1</u>		L	LE	4	4	2	25	18S	37E	668916	3621696	•		194		
<u>L 13750 POD4</u>		L	LE	1	3	4	24	18S	37E	668279	3622626	•		300		

Average Depth to Water: **50 feet**

Minimum Depth: **33 feet**

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PLSS Search:

Section(s): 22-24, 25-27

Township: 18S

Range: 37E

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3/31/17 2:12 PM

**WATER COLUMN/ AVERAGE
DEPTH TO WATER**

McMillan, Michael, EMNRD

From: April_Hood@oxy.com
Sent: Monday, April 3, 2017 12:00 PM
To: McMillan, Michael, EMNRD
Subject: FW: Occidental Permian LTD Hobbs Guzzler SWD Well No. 1

Please see below. Is this email suffice or do I need to update the application?

From: Voyles, Erin M
Sent: Monday, April 03, 2017 12:53 PM
To: Hood, April <April_Hood@oxy.com>
Subject: RE: Occidental Permian LTD Hobbs Guzzler SWD Well No. 1

Hi April,

No problem. Here are my estimated top depths in MD:

Grayburg: 4090
San Andres: 4370
Grayburg/san Andres pay zone: 4450
Woodford: 10460
Devonian: 10600

From: Hood, April
Sent: Monday, April 03, 2017 11:05 AM
To: Voyles, Erin M <Erin_Voyles@oxy.com>
Subject: FW: Occidental Permian LTD Hobbs Guzzler SWD Well No. 1

I know we discussed otherwise, but can you please provide . . . see below.

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Monday, April 03, 2017 11:03 AM
To: Hood, April <April_Hood@oxy.com>
Subject: [EXTERNAL] RE: Occidental Permian LTD Hobbs Guzzler SWD Well No. 1

April:
Can you get the geologist to give me the top of the Grayburg, Grayburg/san Andres pay zone top, San Andres top, Woodford top, and Devonian top?
I know this is a proposed well, so the best guess estimate will work
Thank You
Mike

From: April_Hood@oxy.com [mailto:April_Hood@oxy.com]
Sent: Thursday, March 23, 2017 11:25 AM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>
Subject: RE: Occidental Permian LTD Hobbs Guzzler SWD Well No. 1

Great . . .thank you!



C-108 Review Checklist: Received

Add. Request:

Reply Date:

Suspended:

[Ver 15]

ORDER TYPE: WFX / PMX / SWD Number:

Order Date:

Legacy Permits/Orders:

Well No. 1 Well Name(s):

Hobbs SWD

API: 30-0 25-43703 Spud Date: TBS New or Old: 2 (UIC Class II Primacy 03/07/1982)

Footages 440 FSL 440 FSL Lot or Unit 23 Tsp 14 Rge 270 County LCU

General Location: Hobbs City Limits Pool: S. Luni An Pool No.: 97861

BLM 100K Map: Hobbs Operator: Pennington, Ltd OGRID: 15784 Contact: April Hood

COMPLIANCE RULE 5.9: Total Wells: 673 Inactive: 0 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 4-18-2017

WELL FILE REVIEWED Current Status: Proposed

WELL DIAGRAMS: NEW: Proposed RE-ENTER: Before Conv. After Conv. Logs in Imaging: N/A

Planned Rehab Work to Well:

Well Construction Details		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Surface	17 1/2 / 13 1/8	1680	Stage Tool	1430	Surface / Vis 4-1
Planned ___ or Existing ___ Interm/Prod	12 1/4 / 5 5/8	5650		1510	Surface / Vis 4-1
Planned ___ or Existing ___ Interm/Prod	8 3/4 / 7	10620			
Planned ___ or Existing ___ Prod/Liner					
Planned ___ or Existing ___ Liner					
Planned ___ or Existing ___ OH / PERF	10620 / 15100	870	Inj Length 1400'		
Injection Lithostratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.			10460		Drilled TD 11500 PBTD
Confining Unit: Litho. Struc. Por.			10600		NEW TD NEW PBTD
Proposed Inj Interval TOP:			10620		NEW Open Hole or NEW Perfs
Proposed Inj Interval BOTTOM:					Tubing Size 4 1/2 in. Inter Coated?
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth 10500 ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth 10500 (100-ft limit)
					Proposed Max. Surface Press. 2000 psi
					Admin. Inj. Press. 2000 (0.2 psi per ft)
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P N/A Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: B: NW: Cliff House fm					
FRESH WATER: Aquifer Quaternary Max Depth 70 HYDRO AFFIRM STATEMENT By Qualified Person					
NMOSE Basin: LCU CAPITAN REEF: thru adj NA No. Wells within 1-Mile Radius? FW Analysis					
Disposal Fluid: Formation Source(s) San Andres Analysis? Y On Lease Operator Only or Commercial					
Disposal Int: Inject Rate (Avg/Max BWPD): 200/300 Protectable Waters? Source: System: Closed or Open					
HC Potential: Producing Interval? NA Formerly Producing? Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map					
AOR Wells: 1/2-M Radius Map? Y Well List? Y Total No. Wells Penetrating Interval: Horizontals?					
Penetrating Wells: No. Active Wells Num Repairs? on which well(s)? Diagrams?					
Penetrating Wells: No. P&A Wells Num Repairs? on which well(s)? Diagrams?					

NOTICE: Newspaper Date March 9, 2017 Mineral Owner NMSLD Surface Owner NMSLD N. Date 3-27-2017

RULE 26.7(A): Identified Tracts? Affected Persons: Southwest Petroleum Corp N. Date 3-27-2017

Order Conditions: Issues: Calculate Surface & Intermediate