

DATE IN 8/15/2017	SUSPENSE	PRG ENGINEER	LOGGED IN 8/15/2017	SUD TYPE	APP NO. PMA#1722746711
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

- SWD
- Occidental Permian LTD
157984

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

W211
- Hobbs Chg 93 Acres
SWD #9
30-025-4730

- [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

PO 1
-SWD, Devonian
96101

[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

Regulatory Specialist
Title

Date

April.Hood@Oxy.com
e-mail Address



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

RECEIVED
2017 AUG 15 A 8:49

July 28, 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 Chuglug SWD
Well No. 2
Letter B, Section 26, 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

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

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No

II. OPERATOR: Occidental Permian LTD

ADDRESS: 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 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' – 12,500'

Reservoir data is based on nearby analog fields and recently drilled Hobbs Guzzler SWD No. 1. 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 Hobbs 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

DO NOT SIGN THIS FORM UNTIL YOU HAVE READ AND UNDERSTOOD THE INFORMATION CONTAINED THEREIN.
IF YOU DO NOT AGREE WITH ANY OF THE INFORMATION CONTAINED IN THIS FORM, DO NOT SIGN IT.

- 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.

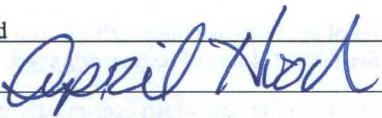
I have examined the available geologic and engineering data for the Hobbs Chuglug #2 SWD well and find no evidence of open faults or any hydrologic connection between the disposal zone and any underground sources of drinking water

Dmitri Pistoun, Geologist
713-215-7641

- 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:  DATE:

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 Chuglug SWD No. 2

WELL LOCATION:

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC**WELL CONSTRUCTION DATA**Surface 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

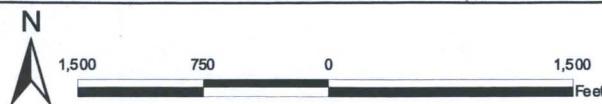
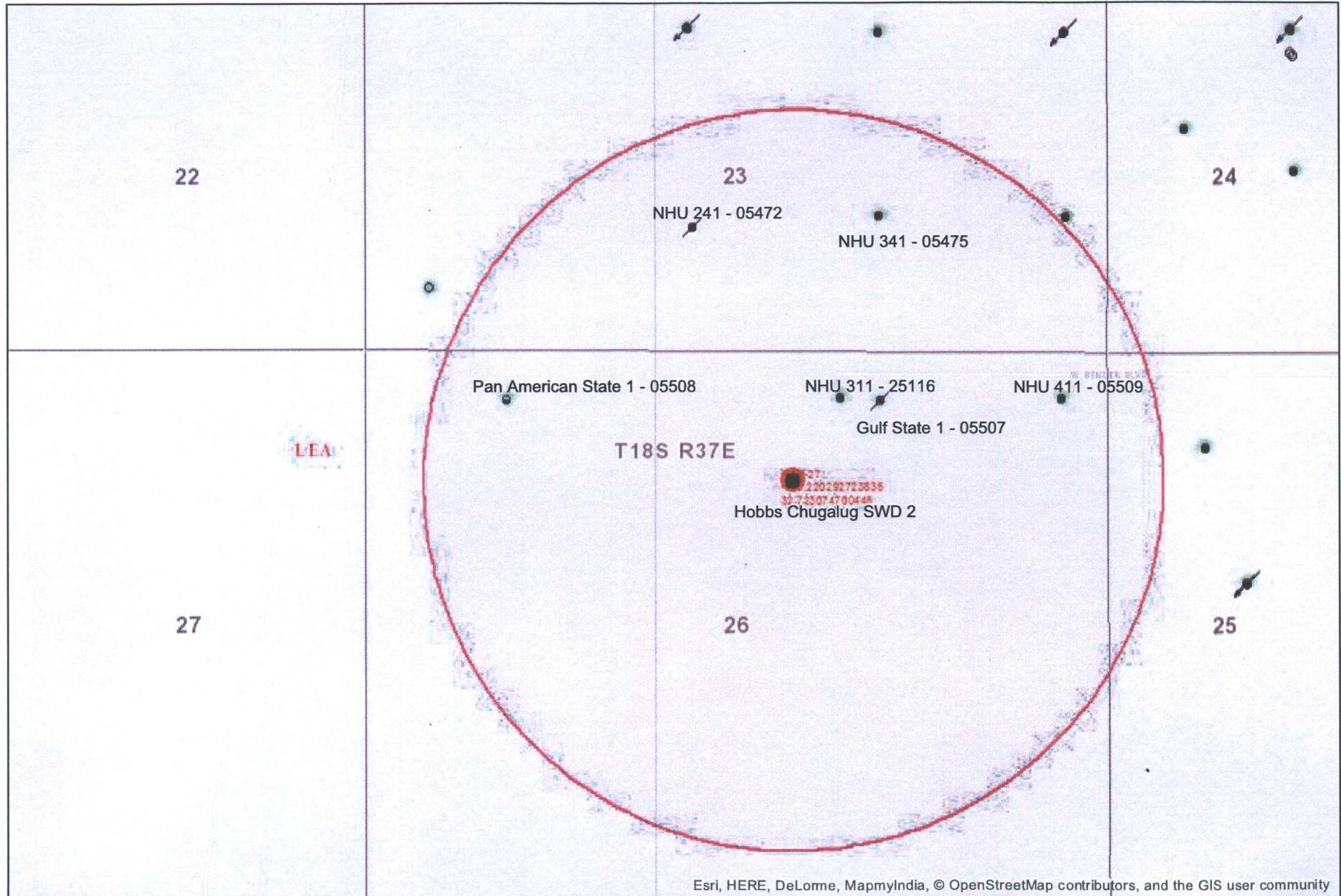
10620' feet to 11,500' OH

(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 Data1. Is this a new well drilled for injection? 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 Chugalug SWD No 2 AOR Map



Hobbs Chuglug SWD No. 2

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	30-025-05509	Occidental Permian LTD	North Hobbs G/SA Unit	411	PA	2310 S	2310 W	K	23	18	S 37 E	5/20/1959	4500	4500								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	
4	30-025-05475	Occidental Permian LTD	North Hobbs G/SA Unit	341	I	Active	990 S	1650 E	O	23	18	S 37 E	4/27/1956	4302	4302	11 7 7/8	8 5/8 5 1/2	352	180 750	0 0	4302	4144' - 4228'	WELL DOES NOT PENETRATE DEVONIAN
5	30-025-25116	Occidental Permian LTD	North Hobbs G/SA Unit	311	PA	330 N	1900 E	B	26	18	S 37 E	9/18/1975	4329	4329								WELL DOES NOT PENETRATE DEVONIAN	
6	30-025-05507	Moran Oil Producing & Drilling Corp	Gulf-State	1	PA	330 N	1650 E	B	26	18	S 37 E	11/4/1959	4268	4268								WELL DOES NOT PENETRATE DEVONIAN	



Pennian Basin Area Laboratory
2100 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 ⁻):	17336.8	4898.3	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 ₂ 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		Strontrium (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	meq/L					
Bicarbonate (HCO ₃ ⁻):	72.9	1.2					
Carbonate (CO ₃ ²⁻):	ND						
Hydroxide (OH ⁻):	ND						
		ORGANIC ACIDS:	mg/L	meq/L			
aqueous CO ₂ (ppm):	ND	Formic Acid:	ND		Aluminum (Al ³⁺):	ND	
aqueous H ₂ S (ppm):	ND	Acetic Acid:	ND		Chromium (Cr ³⁺):	ND	
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND		Cobalt (Co ²⁺):	ND	
		Butyric Acid:	ND		Copper (Cu ²⁺):	ND	
Calculated TDS (mg/L):	280295	Valeric Acid:	ND		Molybdenum (Mo ²⁺):	ND	
Density/Specific Gravity (g/cm ³):	1.1818				Nickel (Ni ²⁺):	ND	
Measured Specific Gravity	ND				Tin (Sn ²⁺):	ND	
Conductivity (mmhos):	ND				Titanium (Ti ²⁺):	ND	
Resistivity:	ND				Zirconium (Zr ⁴⁺):	ND	
MCF/D:	No Data				Lithium (Li):	ND	
BOPD:	No Data				Total Hardness:	81598	N/A
BWPD:	No Data	Anion/Cation Ratio:		1.00	ND = Not Determined		

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FURTHER 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.

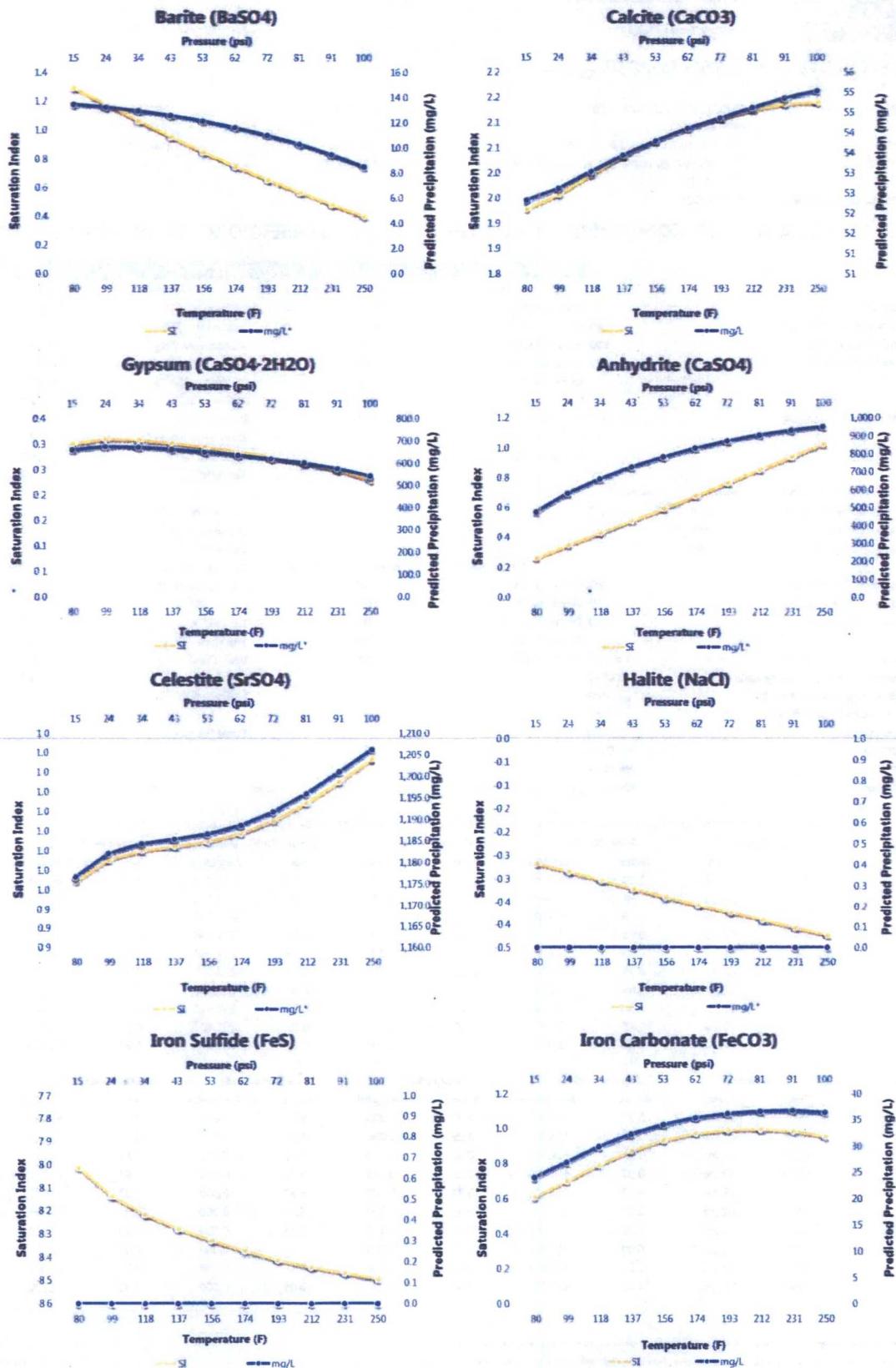
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

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

ScaleSoftPitzer™
SSP2010

Comments:

25% Reservoir Water, 75% Injection Water



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



Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 77538
(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

		Anions	mg/l	meq/l	Cations	mg/l	meq/l
Sampling Date:	4/6/2015	Chloride:	26148.7	737.56	Sodium:	13960.0	607.23
Analysis Date:	4/10/2015	Bicarbonate:	366.0	6.	Magnesium:	365.4	30.06
Analyst:	Catalyst	Carbonate:			Calcium:	2363.0	117.91
TDS (mg/l or g/m3):	44701.1	Sulfate:	1020.0	21.24	Potassium:	350.1	8.95
Density (g/cm3):	1.032	Borate*:	62.4	0.39	Strontrium:	65.5	1.5
Hydrogen Sulfide:	306	*Calculated based on measured elemental boron.				Barium:	0.0
Carbon Dioxide:	80	pH at time of sampling:		6.92	Iron:	0.0	0.
Comments:		pH at time of analysis:			Manganese:	0.000	0.
		pH used in Calculation:		6.92	Conductivity (micro-ohms/cm):	66700	
		Temperature @ lab conditions (F):		75	Resistivity (ohm meter):	.1499	

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp °F	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	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



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

Upstream Chemicals

REPORT DATE: 3/15/2017

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: 201701011003
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	mg/L	CATIONS:		mg/L	mg/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 (psia):		1800 Borate (H ₂ BO ₃):		1.0		0.0 Magnesium (Mg ²⁺):		11.0	0.9
Final Pressure (psia):		15 Fluoride (F ⁻):		ND		Calcium (Ca ²⁺):		37.9	1.9
pH:		Bromide (Br ⁻):		ND		Sodium (Sr ²⁺):		0.5	0.0
pH at time of sampling:		Nitrite (NO ₂ ⁻):		ND		Barium (Ba ²⁺):		0.1	0.0
		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
ALKALINITY BY TITRATION:	mg/L	mg/L				Zinc (Zn ²⁺):		0.4	0.0
Bicarbonate (HCO ₃ ⁻):	61.0	1.0							
Carbonate (CO ₃ ²⁻):	ND					Aluminum (Al ³⁺):		0.1	0.0
Hydroxide (OH ⁻):	ND					Chromium (Cr ³⁺):		ND	
			ORGANIC ACIDS:	mg/L	mg/L	Cobalt (Co ²⁺):		ND	
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; FURTHER 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

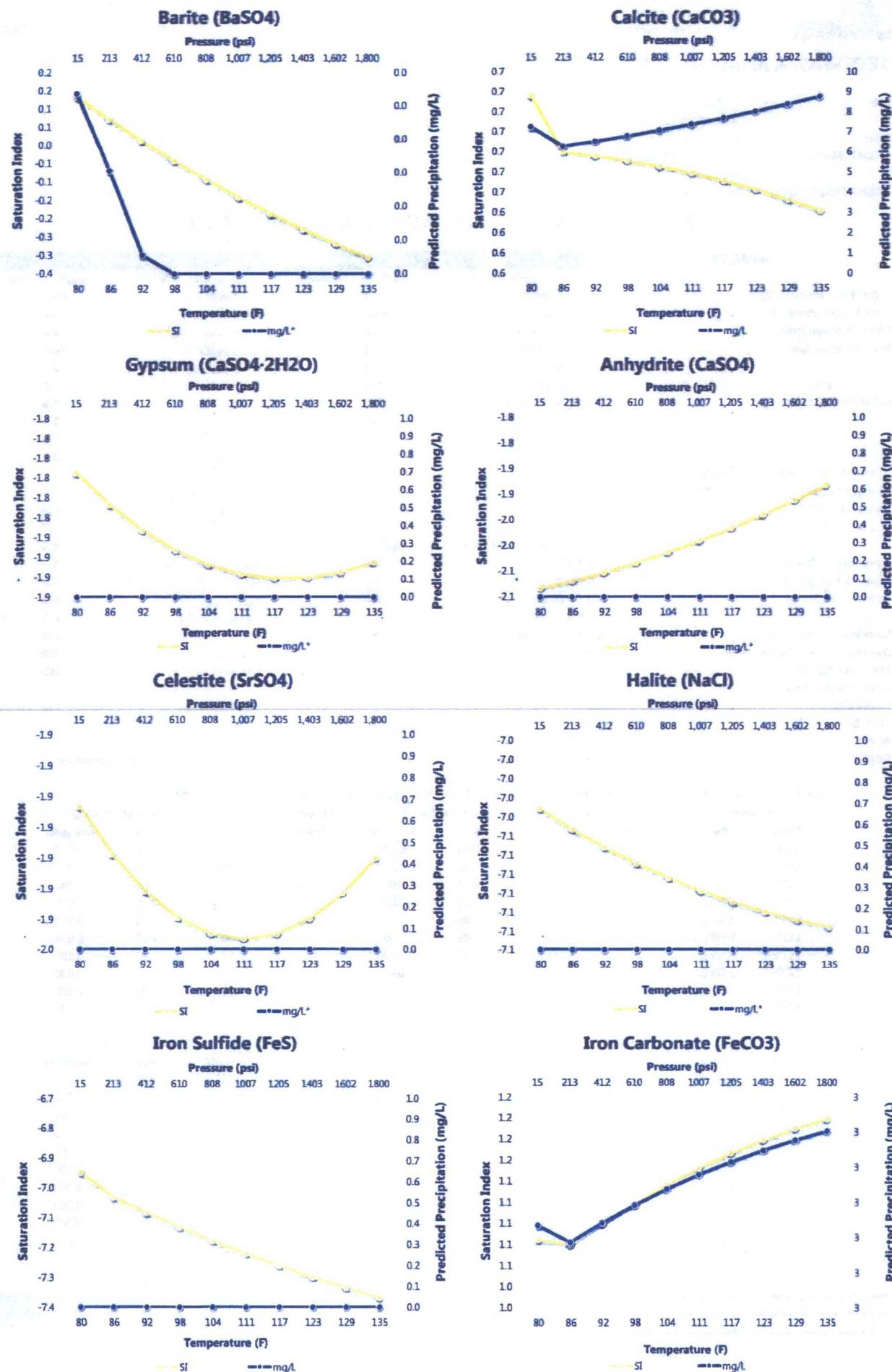
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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.

ScaleSoftPitzer™
SSP2010

Comments:





Pennine Basin Area Laboratory
2100 Market Street,
Midland, Texas 79703

Upstream Chemicals

REPORT DATE: 3/15/2017

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: 201703111084
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 ₂ 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
pH:		Bromide (Br ⁻):		ND		Sodium (Na ⁺):		0.6	0.0
pH at time of sampling:		Nitrite (NO ₂ ⁻):		ND		Boron (B ³⁺):		0.1	0.0
		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							
Carbonate (CO ₃ ²⁻):	ND								
Hydroxide (OH ⁻):	ND								
			ORGANIC ACIDS:	mg/L	meq/L				
aqueous CO ₂ (ppm):			10.0 Formic Acid:	ND					
aqueous H ₂ S (ppm):			0.0 Acetic Acid:	ND					
aqueous O ₂ (ppb):			ND Propionic Acid:	ND					
			Butyric Acid:	ND					
Calculated TDS (mg/L):	305		Valeric Acid:	ND					
Density/Specific Gravity (g/cm ³):	0.9973								
Measured Specific Gravity	1.0005								
Conductivity (mmhos):	ND								
Resistivity:	ND								
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; FURTHER 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

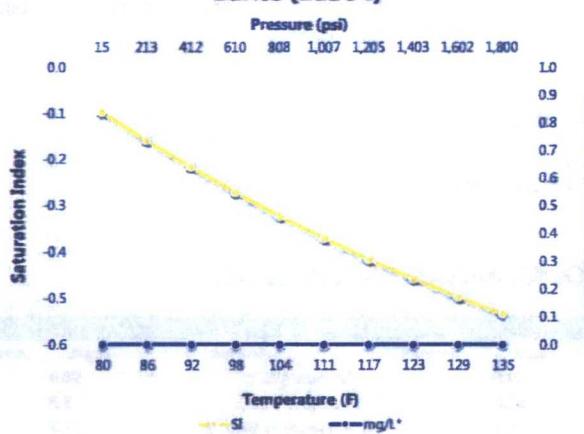
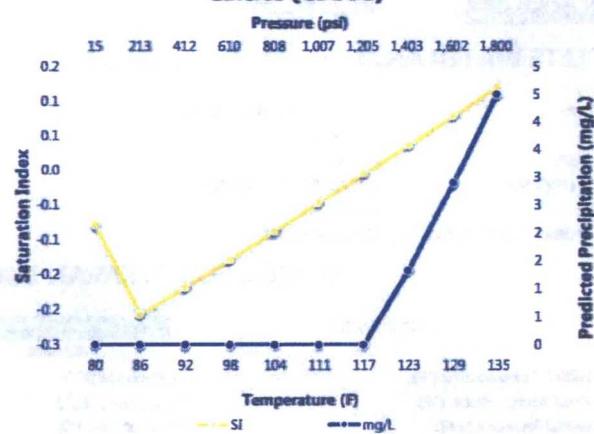
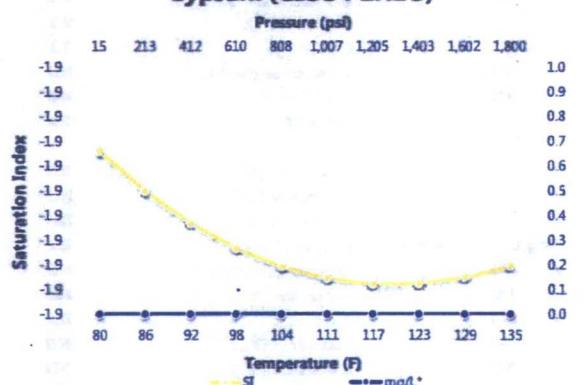
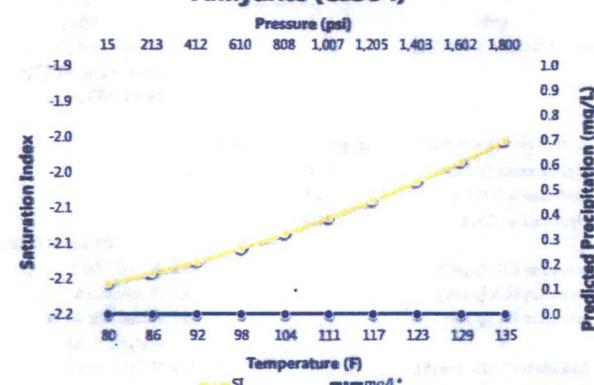
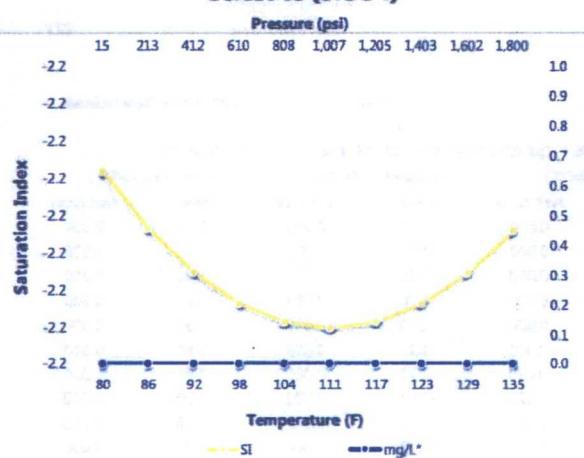
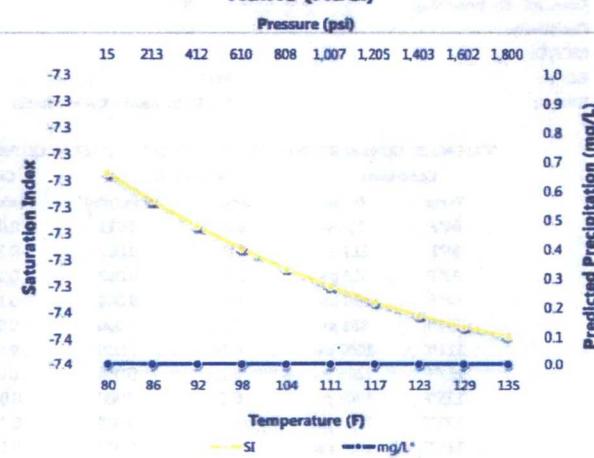
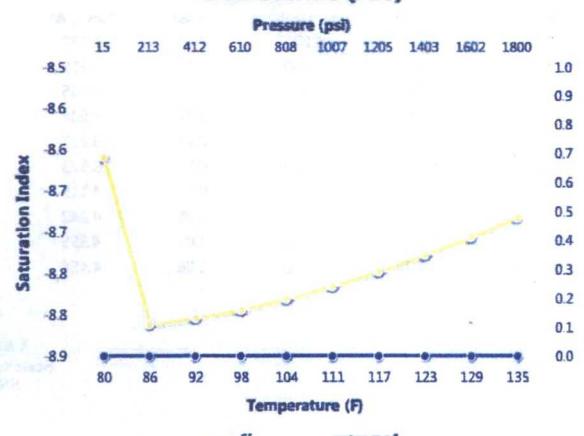
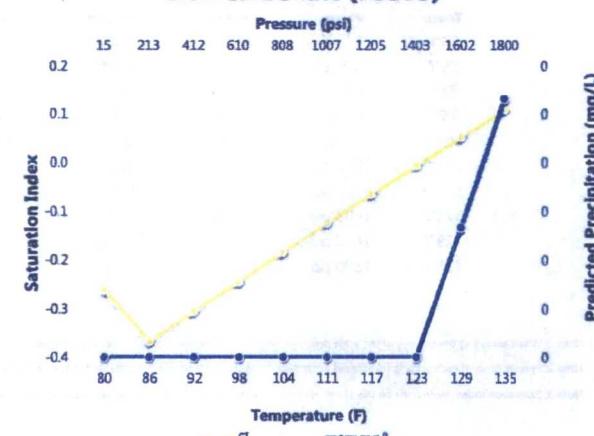
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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.

ScaleSoftPitzer™
SSP2010

Comments:

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



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

Upstream Chemicals

REPORT DATE: 3/15/2017

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 ₂ 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
pH:		Bromide (Br ⁻):	ND		Strontron (Sr ²⁺):	0.8	0.0
pH at time of sampling:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	0.1	0.0
		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					
Bicarbonate (HCO ₃ ⁻):	97.6	1.6					
Carbonate (CO ₃ ²⁻):	ND						
Hydroxide (OH ⁻):	ND						
ORGANIC ACIDS:		mg/L	meq/L				
aqueous CO ₂ (ppm):	20.0	Formic Acid:	ND				
aqueous H ₂ S (ppm):	0.0	Acetic Acid:	ND				
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND				
		Butyric Acid:	ND				
Calculated TDS (mg/L):	354	Valeric Acid:	ND				
Density/Specific Gravity (g/cm ³):	0.9974						
Measured Specific Gravity	1.0006						
Conductivity (mmhos):	ND						
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; FURTHER 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

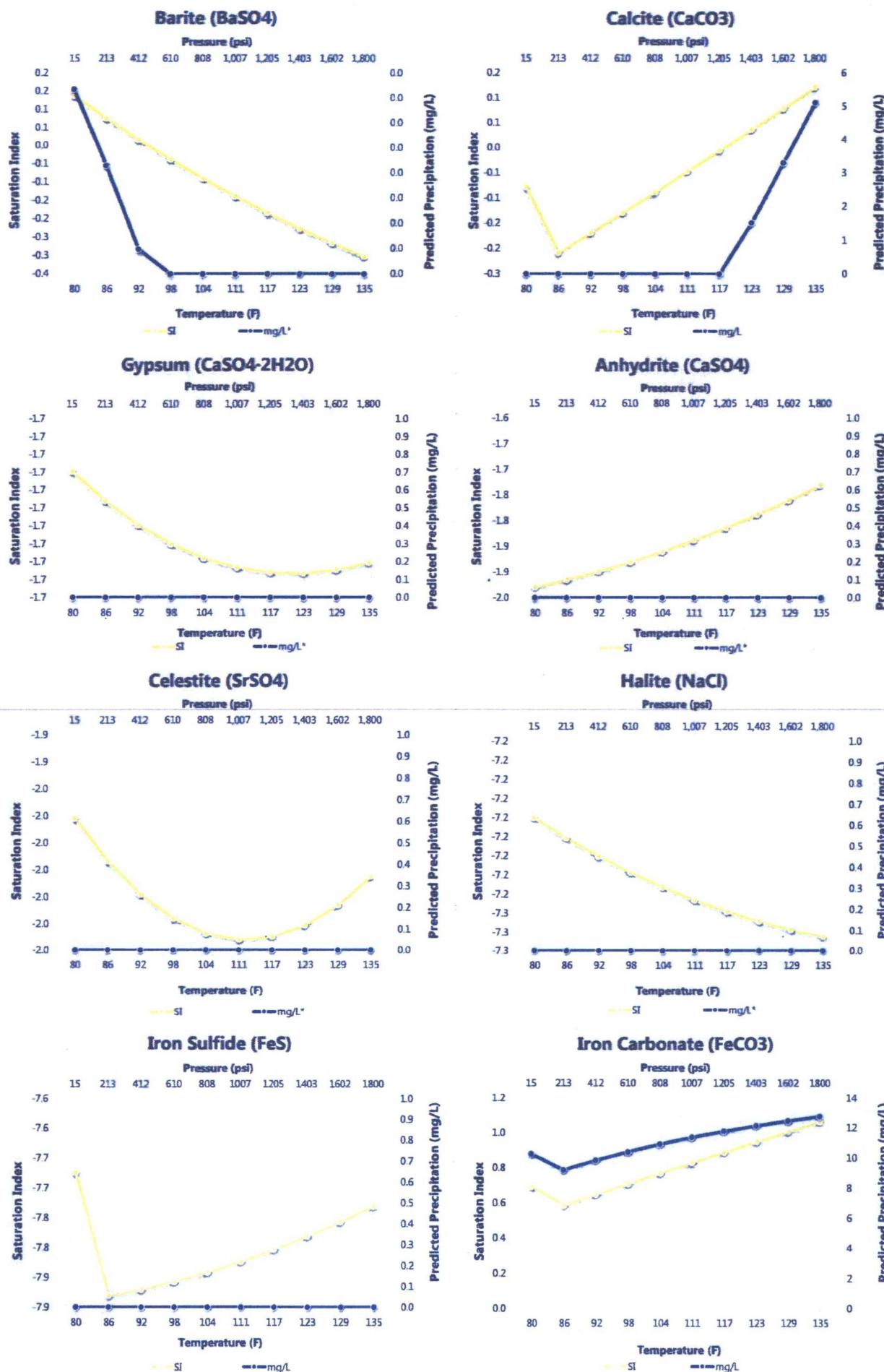
Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

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.

ScaleSoftPitzer™
SSP2010

Comments:



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
May 24, 2017
and ending with the issue dated
May 24, 2017.

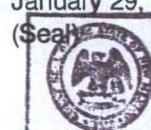
Daniel Russell
Publisher

Sworn and subscribed to before me this
24th day of May 2017.

Gussie Black
Business Manager

My commission expires

January 29, 2019



OFFICIAL SEAL

GUSSIE BLACK

Notary Public

State of New Mexico

My Commission Expires 1-29-19

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
May 24, 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 Chuglug SWD Well No. 2 located in Section 26, Township 18 South, Range 37 East, 943' FNL and 2253' FEL in Lea County NM. Disposal will be in the Devonian formation from 10,100' - 11500' with a maximum injection rate of 30,000 B WPD 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 #31797

67111848

00193848

TALENT ACQUISITION
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 Chugalug SWD No. 2**

Surface Owner Clerk:

State Land Office
PO Box 1148
Santa Fe, NM 87504

District Office:

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

Working Interest Owners and Lessees:

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

Conoco Phillips Company
3401 E. 30th Street
Farmington, NM 87402

Stevens Enhanced Recovery Partners
PO Box 3087
Roswell, NM 88202

Chevron USA Inc.
PO Box 1635
Houston, TX 77251

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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Postage

\$ Total Postage Stevens Enhanced Recovery Partners

\$ Sent To P.O. Box 3087

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8/15/2017

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. Well Name(s): Hobbs Chug AL 49 SndAPI : 30-0 25-43730 Spud Date: TBR New or Old: (UIC Class II Primacy 03/07/1982)

Footages 543' NL 2253' FE Lot _____ or Unit B Sec 26 Tsp 185 Rge 37E County Lee

General Location: 2.5 miles w Hobbs Pool: Shallow Devonian Pool No.: 96101

BLM 100K Map: Hobbs Operator: Occidental Penniman, LTD OGRID: 157884 April Hood Contact: _____

COMPLIANCE RULE 5.9: Total Wells: 678 Inactive: Fincl Assur: Compl. Order? IS 5.9 OK? Date: 8/15/2017WELL FILE REVIEWED Current Status: ProposedWELL DIAGRAMS: NEW: Proposed or 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 ³ / ₈	1680	1430	Surface/VISUAL
Planned or Existing Interim/Prod	12 ¹ / ₄ / 9 ⁵ / ₈	5650	1510	Surface/VISUAL
Planned or Existing Interim/Prod	8 ³ / ₄ / 7	10620	750	Surface/VISUAL
Planned or Existing Prod/Liner				
Planned or Existing Liner	10620 / 11500	10620 / 11500		
Planned or Existing OH / PERF	10000 / 12500	10620 / 11500	Inj Length	Completion/Operation Details: 11500
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD <u>16600</u> PBTD _____
Adjacent Unit: Litho. Struc. Por.				NEW TD _____ NEW PBTD _____
Confining Unit: Litho. Struc. Por.				NEW Open Hole <input checked="" type="checkbox"/> or NEW Perfs <input type="checkbox"/>
Proposed Inj Interval TOP:				Tubing Size <u>4 1/2</u> in. Inter Coated? _____
Proposed Inj Interval BOTTOM:				Proposed Packer Depth _____ ft
Confining Unit: Litho. Struc. Por.				Min. Packer Depth <u>10520</u> (100-ft limit)
Adjacent Unit: Litho. Struc. Por.				Proposed Max. Surface Press. <u>10500</u> psi
AOR: Hydrologic and Geologic Information				Admin. Inj. Press. <u>3200</u> (0.2 psi per ft)

POTASH: R-111-P Noticed? BLM Sec Ord WIPP Noticed? Salt/Salado T: 170 B: 213 NW: Cliff House fm _____FRESH WATER: Aquifer Gunterney Max Depth 70' HYDRO AFFIRM STATEMENT By Qualified Person NMOSE Basin: Lee CAPITAN REEF: thru On Arbury S.A. adj. NA No. Wells within 1-Mile Radius? _____ FW AnalysisDisposal Fluid: Formation Source(s) _____ Analysis? _____ On Lease Operator Only or Commercial Disposal Int: Inject Rate (Avg/Max BWPD): 2000 / 3000 Protectable Waters? _____ Source: _____ System Closed or OpenHC Potential: Producing Interval? Formerly Producing? _____ Method: Logs/DST/P&A/Other other regions -Mile Radius Pool Map AOR Wells: 1/2-M Radius Map? Well List? _____ Total No. Wells Penetrating Interval: 0 Horizontals? _____Penetrating Wells: No. Active Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? MAPenetrating Wells: No. P&A Wells 0 Num Repairs? _____ on which well(s)? _____ Diagrams? MANOTICE: Newspaper Date May 4, 2017 Mineral Owner NMSL Surface Owner NMSL N. Date 8-08-2017RULE 26.7(A): Identified Tracts? Affected Persons: Concho Phillips, Chiricahua N. Date 08-08-2017Order Conditions: Issues: MA, OPERATOR SET CASING SHOE FOR Production Casing no shallower than base well Add Order Cond: MA