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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

14050G	Casing Gas		Casing Gas
Sample Point Code	Sample Point Name		Sample Point Location
Laboratory Services	2022052854	1138	Client - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Mar 31, 2022 15:35	Mar 31, 2022 15:35	Apr 4, 2022 11:41	Apr 4, 2022
Date Sampled	Date Effective	Date Received	Date Reported
System Administrator		20 @	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Imperative		FAE II	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	2.4090	2.409	
CO2 (CO2)	0.6200	0.62	
Methane (C1)	80.7070	80.706	
Ethane (C2)	9.9880	9.988	2.6700
Propane (C3)	3.3600	3.36	0.9250
I-Butane (IC4)	0.4490	0.449	0.1470
N-Butane (NC4)	1.0830	1.083	0.3410
I-Pentane (IC5)	0.3390	0.339	0.1240
N-Pentane (NC5)	0.3420	0.342	0.1240
Hexanes Plus (C6+)	0.7030	0.703	0.3050
TOTAL	100.0000	99.9990	4.6360

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Jan 24, 2022

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,193.9	1,174.5	1,196.7	1,177.2
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real		Relative Density Ideal	
0.7069		0.7048	
Molecular Weight			
20.4169			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
Field H2S			
0 PPM			

PROTREND STATUS:

Passed By Validator on Apr 5, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

ok



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C6+ Gas Analysis Report

14052G	CE Lamunyon #714	CE Lamunyon #714	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022052856	2220	U Garcia - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Mar 31, 2022	Mar 31, 2022	Apr 4, 2022 11:50	Apr 4, 2022
Date Sampled	Date Effective	Date Received	Date Reported
System Administrator		40 @	
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Imperative		NG	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.8010	1.801	
CO2 (CO2)	0.8450	0.845	
Methane (C1)	85.0750	85.075	
Ethane (C2)	9.8090	9.809	2.6230
Propane (C3)	1.3210	1.321	0.3640
I-Butane (IC4)	0.2520	0.252	0.0820
N-Butane (NC4)	0.2670	0.267	0.0840
I-Pentane (IC5)	0.1680	0.168	0.0610
N-Pentane (NC5)	0.0470	0.047	0.0170
Hexanes Plus (C6+)	0.4150	0.415	0.1800
TOTAL	100.0000	100.0000	3.4110

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type: Gas Chromatograph Device Make: Shimadzu
Device Model: GC-2014 Last Cal Date: Jan 24, 2022

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,116.8	1,098.7	1,119.4	1,101.2

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.6541	0.6526
Molecular Weight	
18.9000	

C6+ Group Properties

Assumed Composition

C6 - 60.000%	C7 - 30.000%	C8 - 10.000%
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Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Apr 5, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

ok

From: [Engineer, OCD, EMNRD](#)
To: [Vanessa Neal](#)
Cc: [McClure, Dean, EMNRD](#)
Subject: downhole commingling application DHC-5179
Date: Monday, September 12, 2022 1:05:44 PM

Downhole commingling application DHC-5179 which involves the commingling of pools within the well bore of the Saltmount #1 (30-025-10819) and is operated by FAE II Operating, LLC (329326) has been withdrawn at the applicant's request.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
 [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [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.

Vanessa Neal

Print or Type Name

Signature

Sr Reservoir Engineer

Title

28 Jan 2022

Date

vanessa@faenergyus.com

e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240

District II
811 S. First St., Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised August 1, 2011

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

FAE II Operating LLC
Operator

11757 Katy Freeway, Suite 725 Houston, TX 77079
Address

SALTMOUNT
Lease

#001
Well No.

P-21-23S-37E
Unit Letter-Section-Township-Range

LEA
County

OGRID No. 329326 Property Code 330774 API No. 30-025-10819 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE 1	INTERMEDIATE ZONE 2	LOWER ZONE
Pool Name	TEAGUE; PADDOCK-BLINEBRY	IMPERIAL; TUBB-DRINKARD	TEAGUE; DEVONIAN	TEAGUE; SIMPSON
Pool Code	58300	33600	58360	58900
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5354'-5893'	5941'-6098'	7269'-9473'	9295'-9477'
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT	ARTIFICIAL LIFT	ARTIFICIAL LIFT	ARTIFICIAL LIFT
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)				
Oil Gravity or Gas BTU (Degree API or Gas BTU)	35 API / 1.189 BTU	35 API / 1.189 BTU	35 API / 1.189 BTU	35 API / 1.189 BTU
Producing, Shut-In or New Zone	PRODUCING	NEW ZONE	SHUT-IN	SHUT-IN
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: SEE Rates: ATTACHED	Date: SEE Rates: ATTACHED	Date: SEE Rates: ATTACHED	Date: SEE Rates: ATTACHED
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 16.6 % 36.5 %	Oil Gas 10.4 % 8.8 %	Oil Gas 26.9 % 36.7 %	Oil Gas 46.1 % 18.0 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other?

Yes ☒ No ☐

Will commingling decrease the value of production?

Yes ☐ No ☒

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

Yes ☐ No ☒

NMOCDD Reference Case No. applicable to this well:

Attachments:

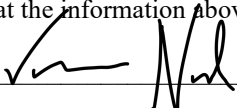
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE 

TITLE Sr Reservoir Engineer

DATE 31 JAN 2022

TYPE OR PRINT NAME Vanessa Neal

TELEPHONE NO. (832) 219-0990

E-MAIL ADDRESS vanessa@faenergyus.com

FAE II Operating LLC
11757 Katy Fwy #725, Houston, TX 77079
(832) 220-9188
steven@faenergyus.com

faeIIoperating

January 3, 2022

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr
Santa Fe, NM 87505

Re: Saltmount #001
API: 30-025-10819
[58300] Teague; Paddock-Blinebry
[33600] Imperial; Tubb-Drinkard
[58330] Teague; Devonian
[58900] Teague; Simpson

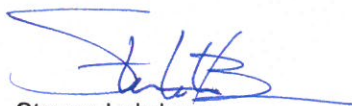
Dear Mr. McClure:

FAE II Operating, LLC, as operator, will be filing applications with the New Mexico Oil Conservation Division for approval of the aforementioned downhole commingling project. After a review of internal records, this letter serves as notice that the operator and interest owners are identical for the pools listed above.

If you have any questions, please feel free to contact the undersigned.

Thank you for your attention to this matter.

Respectfully,



Steven Lehrbass
Director of Land

February 7, 2022

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Dr
Santa Fe, NM 87505

Re: **Saltmount #001**
API: 30-025-10819
[58300] Teague; Paddock-Blinebry
[33600] Imperial; Tubb-Drinkard
[58360] Teague; Devonian, North
[58900] Teague; Simpson

Dear Mr. McClure:

FAE II Operating LLC, OGRID: 329326, requests administrative approval for downhole commingling of oil and gas production from the aforementioned well and pools. This well's surface location is described below and the downhole locations of each pool are shown in the attached C-102's.

Surface Location: P-21-23S-37E 660 FSL 660 FEL
Lat/Long: 32.2844124,-103.1614532 NAD83

The well is currently producing from the **[58300] Teague; Paddock-Blinebry** pool; Exhibit A shows the well's historical production from this pool. It is proposed to downhole commingle this pool with the **[33600] Imperial; Tubb-Drinkard, [58360] Teague; Devonian, North** and **[58900] Teague; Simpson** pools. While there is no recent production for the proposed pool in this well, there are multiple offset wells that are currently producing from the proposed pool. The average historical production of the surrounding analog wells producing from the proposed pool are shown in Exhibit B.

Decline curve analysis was used to create forecasts for each pool with a heavy weighting toward the last five years of production as it should most heavily influence future performance. Historical monthly volumes for each pool for the last five years as wells as a forecast of the combined pools are shown in Exhibit C. After comparing the forecasts generated from the historical production of the **Saltmount #001** and the offset analogs for each pool, pool allocations were calculated on a proportional volume basis. This allocation, along with estimated IP rates for each pool after the comingling work is complete, are displayed in the table in Exhibit D.

After a review of internal records, the interest owners are identical for the aforementioned wells. As such, notification to the relevant parties of our intent to commingle production will not be necessary.

This proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production. If you have any questions, please feel free to contact the undersigned. Thank you for your attention to this matter.

Respectfully,



Vanessa Neal

Sr Reservoir Engineer

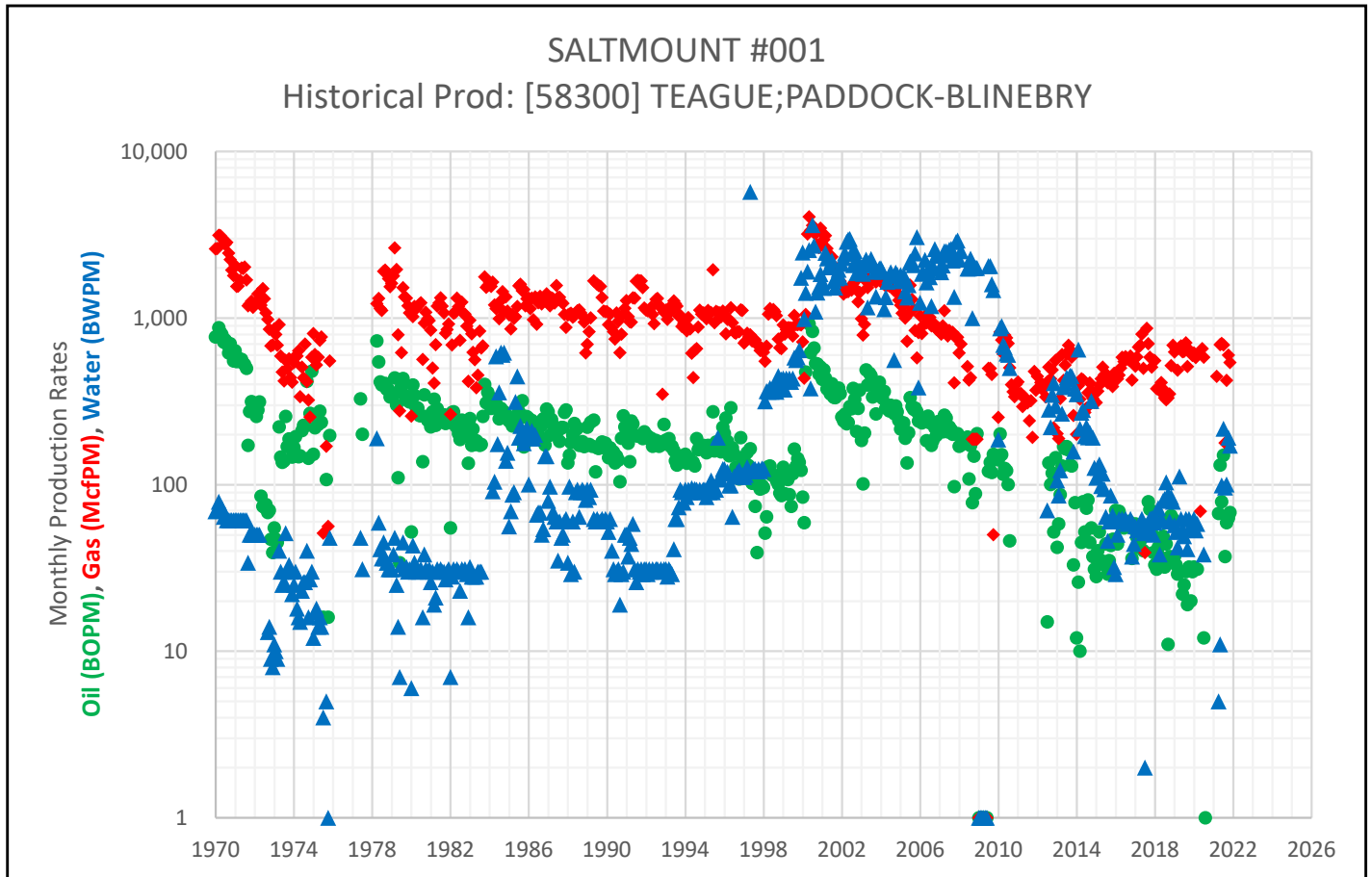
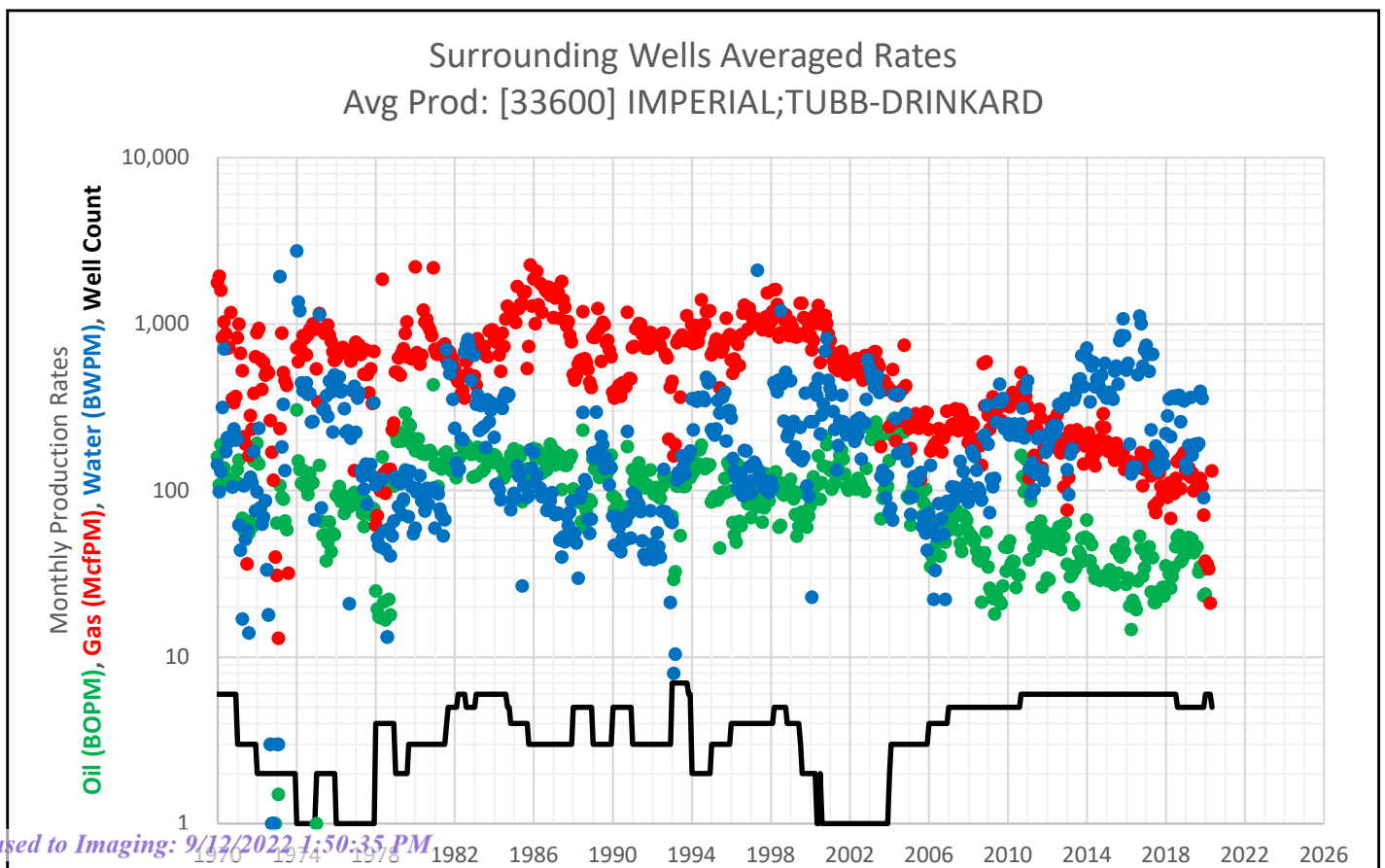
Exhibit A – Historical Production of Current Pool**Exhibit B – Average Historical Production of Offset Analog Wells**

Exhibit B – Average Historical Production of Offset Analog Wells, cont.

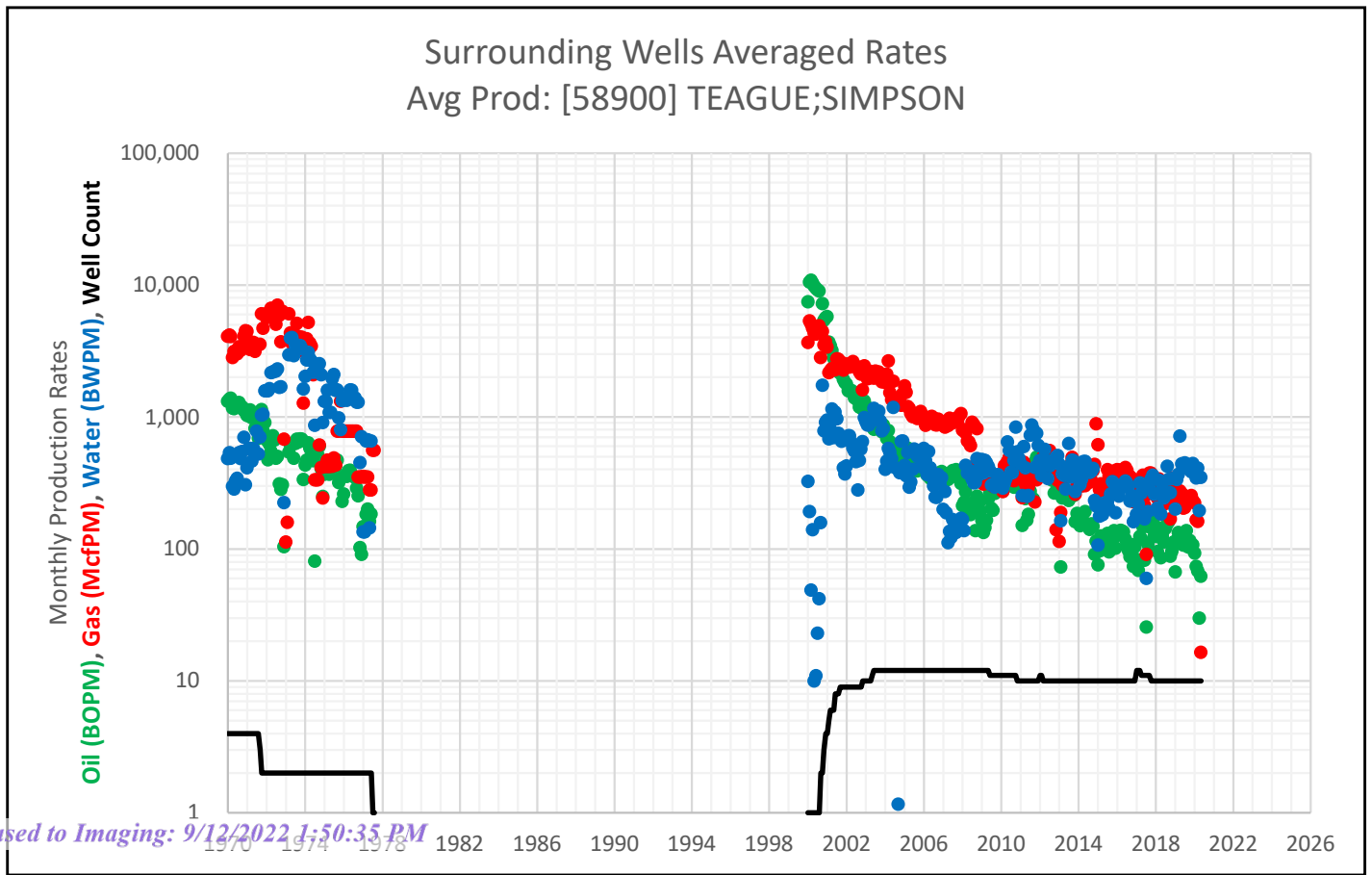
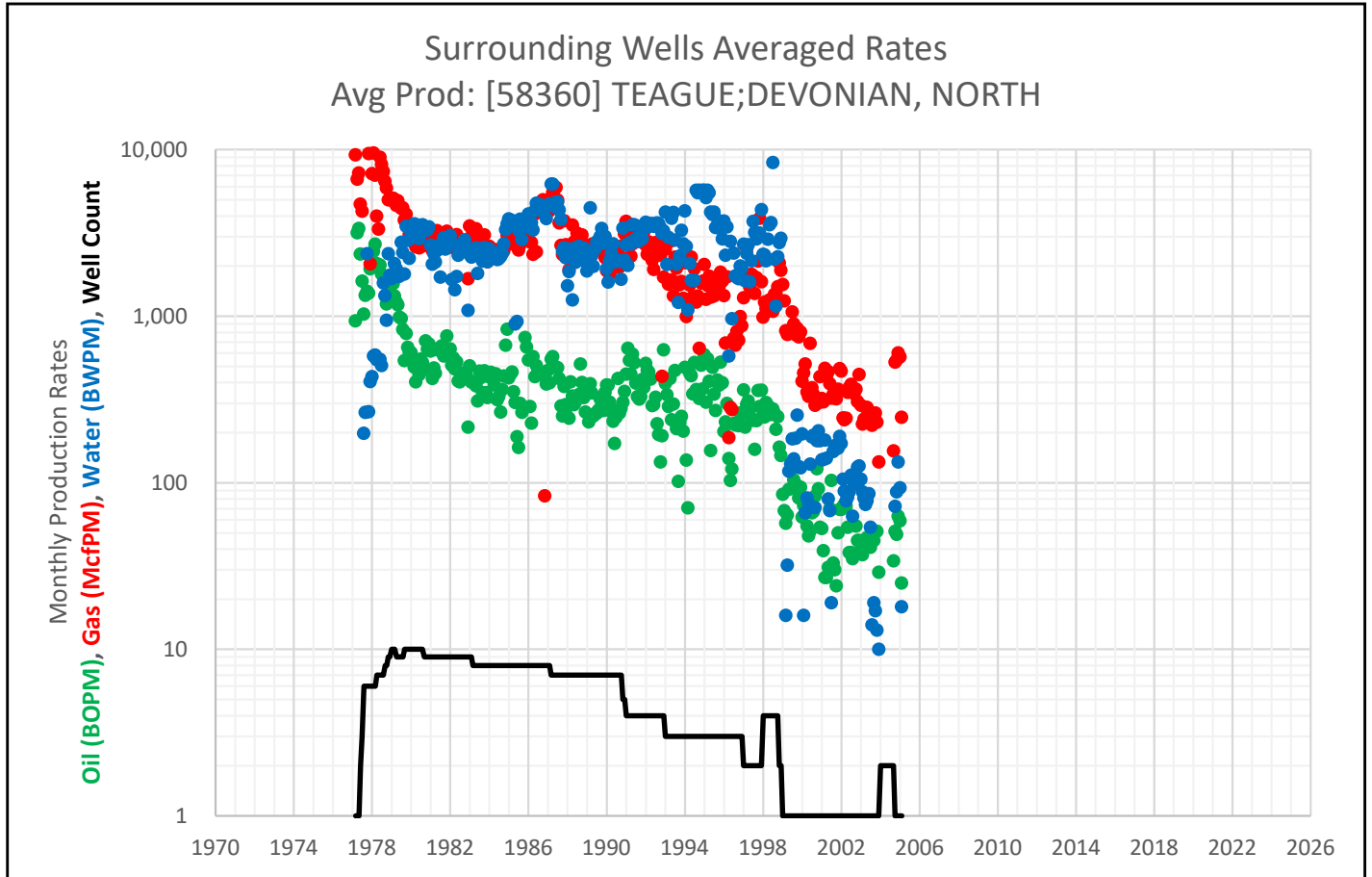


Exhibit C – Historical Production from Last 5 Years for Each Pool & Combined Future Forecast

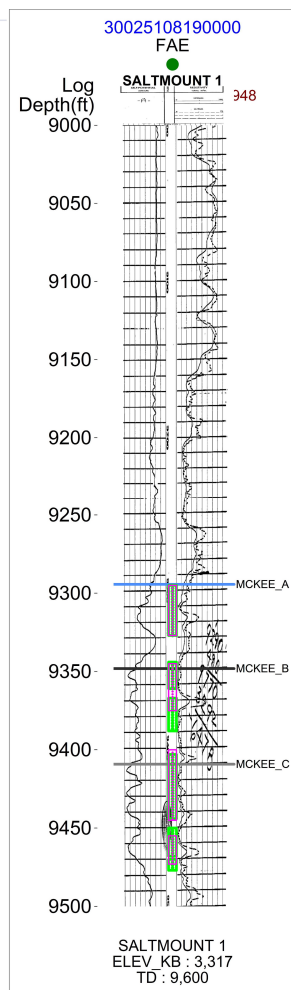
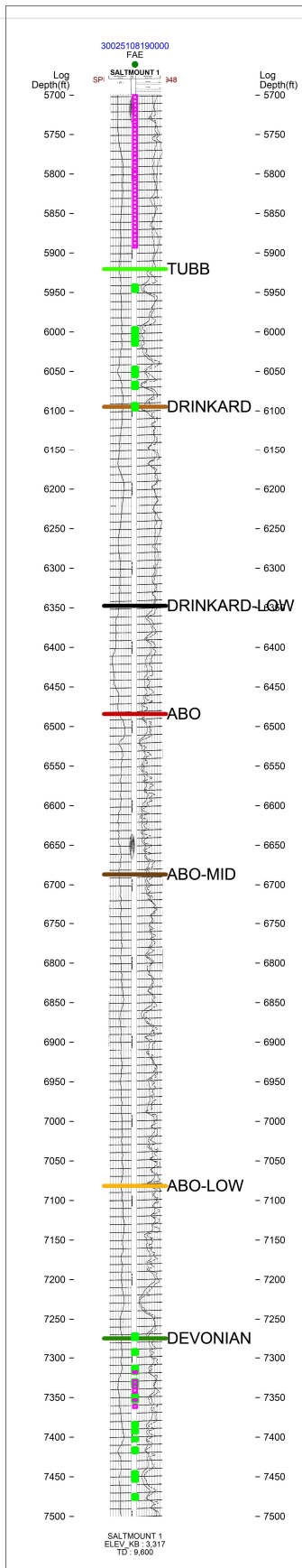
Surrounding Wells Averaged Rates Avg Prod: [33600] IMPERIAL;TUBB-DRINKARD					Surrounding Wells Averaged Rates Avg Prod: [58360] TEAGUE;DEVONIAN, NORTH					Surrounding Wells Averaged Rates Avg Prod: [58900] TEAGUE;SIMPSON				
Date	Avg Oil (BOPM)	Avg Gas (McfPM)	Avg Water (BWPM)	Well Count	Date	Avg Oil (BOPM)	Avg Gas (McfPM)	Avg Water (BWPM)	Well Count	Date	Avg Oil (BOPM)	Avg Gas (McfPM)	Avg Water (BWPM)	Well Count
5/1/2016	22	142	140	6	7/1/1998	277	1,070	8,341	4	5/1/2016	135	392	309	10
6/1/2016	21	138	135	6	8/1/1998	262	1,349	2,195	4	6/1/2016	119	415	329	10
7/1/2016	19	139	140	6	9/1/1998	209	1,369	1,151	4	7/1/2016	109	396	315	10
8/1/2016	29	138	499	6	10/1/1998	250	1,499	2,275	4	8/1/2016	97	358	298	10
9/1/2016	53	152	1,124	6	11/1/1998	163	2,088	2,759	2	9/1/2016	88	356	232	10
10/1/2016	45	170	1,006	6	12/1/1998	146	1,882	2,935	2	10/1/2016	108	342	255	10
11/1/2016	31	107	562	6	1/1/1999	85	1,550	-	1	11/1/2016	74	229	162	10
12/1/2016	34	134	702	6	2/1/1999	68	1,234	-	1	12/1/2016	104	271	250	10
1/1/2017	41	144	750	6	3/1/1999	57	816	16	1	1/1/2017	84	288	183	12
2/1/2017	41	139	657	6	4/1/1999	64	775	32	1	2/1/2017	69	258	220	12
3/1/2017	46	162	522	6	5/1/1999	91	787	117	1	3/1/2017	125	309	317	12
4/1/2017	25	123	232	6	6/1/1999	117	831	130	1	4/1/2017	120	319	266	11
5/1/2017	40	159	661	6	7/1/1999	128	1,060	183	1	5/1/2017	147	364	286	11
6/1/2017	21	81	143	6	8/1/1999	104	897	139	1	6/1/2017	83	216	170	11
7/1/2017	21	74	186	6	9/1/1999	98	772	185	1	7/1/2017	26	91	60	11
8/1/2017	25	85	132	6	10/1/1999	90	845	254	1	8/1/2017	109	262	193	11
9/1/2017	24	128	174	6	11/1/1999	81	749	125	1	9/1/2017	147	377	288	11
10/1/2017	25	107	159	6	12/1/1999	94	802	123	1	10/1/2017	157	377	339	10
11/1/2017	26	95	165	6	1/1/2000	62	406	196	1	11/1/2017	167	330	363	10
12/1/2017	23	94	144	6	2/1/2000	73	455	16	1	12/1/2017	126	298	261	10
1/1/2018	36	98	221	6	3/1/2000	77	515	66	1	1/1/2018	125	263	199	10
2/1/2018	27	92	282	6	4/1/2000	55	350	81	1	2/1/2018	96	243	205	10
3/1/2018	32	112	356	6	5/1/2000	48	330	75	1	3/1/2018	145	341	334	10
4/1/2018	26	68	211	6	6/1/2000	51	685	129	1	4/1/2018	86	210	185	10
5/1/2018	31	101	368	6	7/1/2000	66	371	188	1	5/1/2018	126	303	289	10
6/1/2018	35	96	370	6	8/1/2000	67	338	193	1	6/1/2018	113	239	244	10
7/1/2018	46	119	358	6	9/1/2000	83	292	71	1	7/1/2018	143	221	260	10
8/1/2018	53	150	371	5	10/1/2000	121	303	179	1	8/1/2018	155	278	425	10
9/1/2018	54	154	374	5	11/1/2000	92	301	205	1	9/1/2018	162	241	340	10
10/1/2018	38	103	260	5	12/1/2000	54	433	179	1	10/1/2018	89	169	267	10
11/1/2018	39	162	353	5	1/1/2001	53	320	137	1	11/1/2018	97	347	343	10
12/1/2018	41	170	347	5	2/1/2001	39	305	138	1	12/1/2018	113	315	343	10
1/1/2019	45	134	146	5	3/1/2001	27	486	180	1	1/1/2019	67	262	201	10
2/1/2019	50	125	136	5	4/1/2001	27	437	140	1	2/1/2019	117	245	338	10
3/1/2019	53	138	187	5	5/1/2001	31	464	80	1	3/1/2019	134	271	369	10
4/1/2019	48	121	364	5	6/1/2001	70	393	68	1	4/1/2019	111	277	720	10
5/1/2019	51	128	164	5	7/1/2001	103	322	19	1	5/1/2019	120	265	444	10
6/1/2019	43	100	182	5	8/1/2001	33	340	154	1	6/1/2019	107	205	414	10
7/1/2019	44	102	191	5	9/1/2001	30	327	167	1	7/1/2019	113	207	451	10
8/1/2019	46	112	187	5	10/1/2001	24	319	160	1	8/1/2019	138	235	432	10
9/1/2019	33	114	193	5	11/1/2001	50	363	161	1	9/1/2019	104	231	432	10
10/1/2019	35	119	396	5	12/1/2001	69	483	190	1	10/1/2019	116	237	401	10
11/1/2019	34	106	358	5	1/1/2002	69	467	172	1	11/1/2019	102	256	387	10
12/1/2019	24	71	91	5	2/1/2002	72	245	105	1	12/1/2019	108	234	446	10
1/1/2020	24	38	-	6	3/1/2002	74	239	89	1	1/1/2020	93	224	393	10
2/1/2020	-	36	-	6	4/1/2002	72	244	78	1	2/1/2020	74	166	347	10
3/1/2020	-	34	-	6	5/1/2002	54	349	82	1	3/1/2020	68	162	412	10
4/1/2020	-	21	-	6	6/1/2002	38	373	88	1	4/1/2020	30	-	196	10
5/1/2020	-	132	-	5	7/1/2002	38	389	111	1	5/1/2020	62	17	351	10
6/1/2020	-	240	-	5	8/1/2002	35	369	63	1	6/1/2020	46	17	271	10
7/1/2020	-	306	-	5	9/1/2002	37	343	98	1	7/1/2020	66	16	378	10
8/1/2020	-	73	-	5	10/1/2002	55	363	105	1	8/1/2020	56	1	362	10
9/1/2020	-	335	-	5	11/1/2002	45	307	124	1	9/1/2020	96	1	454	10
10/1/2020	-	4	-	5	12/1/2002	45	447	126	1	10/1/2020	34	0	196	10
11/1/2020	-	296	-	5	1/1/2003	43	291	105	1	11/1/2020	70	4	408	10
12/1/2020	-	62	-	5	2/1/2003	37	225	88	1	12/1/2020	69	-	356	10
1/1/2021	-	48	-	5	3/1/2003	43	241	81	1	1/1/2021	54	-	235	10
2/1/2021	-	28	-	5	4/1/2003	45	283	74	1	2/1/2021	23	-	126	10
3/1/2021	-	84	-	5	5/1/2003	47	283	78	1	3/1/2021	-	37	-	10
4/1/2021	-	17	-	5	6/1/2003	42	243	86	1	4/1/2021	89	-	17	10
5/1/2021	-	81	8	5	7/1/2003	41	252	54	1	5/1/2021	103	383	55	10
6/1/2021	-	65	44	5	8/1/2003	46	221	14	1	6/1/2021	81	254	388	10
7/1/2021	-	58	33	5	9/1/2003	45	254	19	1	7/1/2021	110	382	581	8
8/1/2021	-	64	61	5	10/1/2003	51	262	17	1	8/1/2021	77	291	631	7
9/1/2021	-	64	61	5	11/1/2003	51	231	13	1	9/1/2021	253	563	564	6
10/1/2021	-	75	44	5	12/1/2003	29	133	10	1	10/1/2021	358	870	662	6

Exhibit C – Historical Production from Last 5 Years for Each Pool & Combined Future Forecast, cont.

SALTMOUNT #001 Historical Prod: [58300] TEAGUE;PADDOCK-BLINEBRY				Synthetic Decline Curve			
Date	Avg Oil (BOPM)	Avg Gas (McfPM)	Avg Water (BWPM)	Month	Avg Oil (BOPM)	Avg Gas (McfPM)	Avg Water (BWPM)
5/1/2016	56	581	62	1	299.7	2,160	790
6/1/2016	55	547	60	2	298.3	2,155	787
7/1/2016	59	586	62	3	296.9	2,149	785
8/1/2016	56	568	58	4	295.5	2,144	782
9/1/2016	60	559	59	5	294.1	2,139	780
10/1/2016	57	591	62	6	292.6	2,133	777
11/1/2016	36	424	37	7	291.2	2,128	774
12/1/2016	54	531	44	8	289.9	2,123	772
1/1/2017	58	513	56	9	288.5	2,117	769
2/1/2017	48	584	53	10	287.1	2,112	767
3/1/2017	42	670	56	11	285.7	2,107	764
4/1/2017	46	686	57	12	284.4	2,102	762
5/1/2017	56	801	62	13	283.0	2,096	759
6/1/2017	40	498	51	14	281.6	2,091	757
7/1/2017	-	39	2	15	280.3	2,086	754
8/1/2017	57	866	52	16	279.0	2,081	752
9/1/2017	79	702	56	17	277.6	2,075	749
10/1/2017	71	581	62	18	276.3	2,070	747
11/1/2017	51	508	63	19	275.0	2,065	744
12/1/2017	39	559	50	20	273.7	2,060	742
1/1/2018	33	554	59	21	272.3	2,055	740
2/1/2018	31	377	61	22	271.0	2,050	737
3/1/2018	42	382	72	23	269.8	2,045	735
4/1/2018	37	365	38	24	268.5	2,039	732
5/1/2018	60	410	62	25	267.2	2,034	730
6/1/2018	49	374	80	26	265.9	2,029	728
7/1/2018	32	331	82	27	264.6	2,024	725
8/1/2018	44	323	103	28	263.4	2,019	723
9/1/2018	11	331	87	29	262.1	2,014	720
10/1/2018	37	350	60	30	260.9	2,009	718
11/1/2018	65	518	84	31	259.6	2,004	716
12/1/2018	62	685	79	32	258.4	1,999	713
1/1/2019	37	625	57	33	257.1	1,994	711
2/1/2019	33	653	52	34	255.9	1,989	709
3/1/2019	29	486	42	35	254.7	1,984	706
4/1/2019	30	662	112	36	253.5	1,979	704
5/1/2019	30	680	62	37	252.3	1,974	702
6/1/2019	22	628	54	38	251.0	1,969	699
7/1/2019	25	629	49	39	249.8	1,964	697
8/1/2019	30	711	62	40	248.6	1,959	695
9/1/2019	19	511	41	41	247.5	1,955	692
10/1/2019	32	645	62	42	246.3	1,950	690
11/1/2019	20	624	55	43	245.1	1,945	688
12/1/2019	30	596	59	44	243.9	1,940	686
1/1/2020	32	617	62	45	242.8	1,935	683
2/1/2020	31	579	53	46	241.6	1,930	681
3/1/2020	31	602	58	47	240.4	1,925	679
4/1/2020	-	-	-	48	239.3	1,921	677
5/1/2020	-	69	-	49	238.2	1,916	674
6/1/2020	-	654	-	50	237.0	1,911	672
7/1/2020	12	580	38	51	235.9	1,906	670
8/1/2020	1	-	-	52	234.8	1,902	668
9/1/2020	-	-	-	53	233.6	1,897	666
10/1/2020	-	-	-	54	232.5	1,892	663
11/1/2020	-	-	-	55	231.4	1,887	661
12/1/2020	-	-	-	56	230.3	1,883	659
1/1/2021	-	-	-	57	229.2	1,878	657
2/1/2021	-	-	-	58	228.1	1,873	655
3/1/2021	-	447	-	59	227.0	1,869	653
4/1/2021	67	-	5	60	225.9	1,864	651
5/1/2021	131	692	11				
6/1/2021	79	703	99				
7/1/2021	150	690	216				
8/1/2021	37	178	96				
9/1/2021	59	422	100				
10/1/2021	63	598	191				

Exhibit D – Pool Allocations & Post Workover IP Rates

	OIL	GAS	WATER	POOL
5 yr Cum	2,242	27,359	3,338	[58300] Teague: Paddock-Blinebry
Allocated %	16.6%	36.5%	8.2%	
IP Rate	1.2	15.0	1.8	
5 yr Cum	1,405	6,592	11,872	[33600] Imperial; Tubb- Drinkard
Allocated %	10.4%	8.8%	29.1%	
IP Rate	0.8	3.6	6.5	
5 yr Cum	3,636	27,510	6,356	[58360] Teague: Devonian, North
Allocated %	26.9%	36.7%	15.6%	
IP Rate	2.0	15.1	3.5	
5 yr Cum	6,236	13,472	19,207	[58900] Teague; Simpson
Allocated %	46.1%	18.0%	47.1%	
IP Rate	3.4	7.4	10.5	
IP Rate	7.4	41.1	22.3	Commingled (Total)



API14	SOURCE	STATUS	FMNAME	TOP PERF	BASE PERF	INTERVAL
30025108190000	OCD	ACTIVE		5354	5893	
30025108190000	CJH	PROPOSED	TUBB	5941	5948	7
30025108190000	CJH	PROPOSED	TUBB	5995	6016	21
30025108190000	CJH	PROPOSED	TUBB	6045	6056	11
30025108190000	CJH	PROPOSED	TUBB	6064	6071	7
30025108190000	CJH	PROPOSED	TUBB	6091	6098	7
30025108190000	CJH	PROPOSED	DVNN	7269	7275	6
30025108190000	CJH	PROPOSED	DVNN	7290	7295	5
30025108190000	CJH	PROPOSED	DVNN	7311	7319	8
30025108190000	OCD	ACTIVE		7317	7319	
30025108190000	OCD	ACTIVE		7328	7344	
30025108190000	CJH	PROPOSED	DVNN	7328	7336	8
30025108190000	CJH	PROPOSED	DVNN	7346	7355	9
30025108190000	OCD	ACTIVE		7352	7354	
30025108190000	OCD	ACTIVE		7359	7363	
30025108190000	CJH	PROPOSED	DVNN	7382	7386	4
30025108190000	CJH	PROPOSED	DVNN	7390	7394	4
30025108190000	CJH	PROPOSED	DVNN	7401	7404	3
30025108190000	CJH	PROPOSED	DVNN	7414	7419	5
30025108190000	CJH	PROPOSED	DVNN	7444	7455	11
30025108190000	CJH	PROPOSED	DVNN	7473	7478	5
30025108190000	OCD	ACTIVE		9295	9327	
30025108190000	OCD	ACTIVE		9295	9473	
30025108190000	CJH	PROPOSED	MCKEE	9295	9327	32
30025108190000	CJH	PROPOSED	MCKEE	9344	9361	17
30025108190000	OCD	ACTIVE		9345	9375	
30025108190000	CJH	PROPOSED	MCKEE	9367	9388	21
30025108190000	OCD	ACTIVE		9400	9445	
30025108190000	CJH	PROPOSED	MCKEE	9403	9444	41
30025108190000	CJH	PROPOSED	MCKEE	9450	9468	18
30025108190000	OCD	ACTIVE		9455	9473	
30025108190000	CJH	PROPOSED	MCKEE	9470	9477	7
					SUM	257



WELLBORE DIAGRAM SALTMOUNT #001

Date: 2/7/2022
OGRID# 329326
API# 30-025-10819

County Lea State NM Field
Surf Location: SEC 21 T23S R37E GL Elev:
Wellhead TVD: PBDT: 6164 TD: 9600

Original Spud Date: 4/1/1948 Completed Pool:

Set Depth	Csg Details	Hole Size	Tubing Details:	Run Date:	PROPOSED
<u>Surface</u>			<u>Description</u>	<u>Qty</u>	<u>Length</u> <u>Depth</u>
311'	13 3/8" 44# SS	17.50 inch	KB	1	0
	350 sks circ		Wellhead	1	0
			2 3/8" 4.7#	114	3,613.80 3,614
<u>Intermediate</u>			TAC		2.75 3,617
2902'	9 5/8" 36# SS	12.25 inch	2 3/8" 4.7#	72	2,282.40 5,899
	1200 sks		SN		0.80 5,900
	Cut and pulled @ 300' (1966)		Mud Anchor	1	68.00 5,968
			End of Tubing		5,968
<u>Liner</u>			<u>Pump Details:</u>	<u>Run Date:</u>	<u>PROPOSED</u>
6208'	4 1/2" (1967)	8.75 inch	<u>Description</u>	<u>Size</u> <u>Qty</u>	<u>Length</u> <u>Depth</u>
	325 sks		Pony Rods	1 0	0.00 0
	TOL 3668'		1" Rods	1 0	0.00 0
			7/8" Rods	7/8" 57	1,425.00 1,425
			3/4" rods	3/4" 172	4,300.0 5,725
			Sinker Bar 1 1/2"	2 7	175.00 5,900
			<u>Pump Description</u>		
			Unknown		
			<u>Formation Tops</u>		
			TANSIL	SAN ANDRES	TUBB
			YATES	GLORIETA	DRINKARD
			7 RIVERS	PADDOCK	ABO
			QUEEN	BLINBRY	DEVONIAN
			<u>Completion Details</u>		
			1946: Original Completion in MCKEE 9295-9473'.		
			11/1957: Acid & Frac MCKEE w/ 20,000 gal oils & 20,000# sand		
			3/1960: Devonian perf 7328-7363'. Acidized w/ 6920 gals. Tested 34 BO. Sqz Devonian & produced from McKee.		
			4/1966: Well P&A'd, 40 sks 9100-8875', Pulled 7" csg @ 3742', spot 50 sks 3767-3632. Pulled 9 5/8" @ 300'. Spotted 25 sks 2922-2887. 50 sks cmt to 266', mud to 50' & cmt to surface.		
			5/1967: Re-entry. Tie back 7" to surf. BLINBRY add perfs 5354-5693, 5000 gal 15% acid, Frac w/ 25,000 gal brine & 24,000#		
			1978: Moved in pumping unit and put on pump		
			1987: Acidize Blinbry w/ 2,500 gal 15%		
			PROPOSED: DO cmt, CO to PBDT. Acidize BLINBRY w/ 1500 gals 15% NEFE HCL acid, 500# rock salt & flush w/ 35 bbls 2% KCL wtr. Add Perfs & Acidize TUBB w/ 5000 gals 15% NEFE HCL acid, 1500# rock salt & flush w/ 35 bbls 2% KCL wtr. Add Perfs & Acidize DEVONIAN w/ 5000 gals 15% NEFE HCL acid, 1500# rock salt & flush w/ 35 bbls 2% KCL wtr. Add Perfs & Acidize McKEE 9295-9388' w/ 5000 gals 15% NEFE HCL acid, 1500# rock salt & flush w/ 35 bbls 2% KCL wtr. Add Perfs & Acidize McKEE 9400-9477' w/ 5000 gals 15% NEFE HCL acid, 1500# rock salt & flush w/ 35 bbls 2% KCL wtr. DHC.		
			<u>Pumping Unit</u>	<u>SPM</u>	<u>Stroke Length</u>
			320-305-100	8	100

PERFORATIONS:

1946: McKEE 9295-9327', 9345-9375', 9400-9445', 9455-9473' [ISOLATED]

1960-03: DEVONIAN 7328-7363' [SQZ]

1967: BLINBRY 5354, 61, 68, 84, 5419, 46, 58, 73, 93, 5503, 20, 28, 42, 54, 94, 5612, 5623, 5685, 5716, 32, 40, 76, 83, 96, 5804, 5875, 5893' 1 SPF

PROPOSED: TUBB 5941-6089' 2 SPF (106 holes); DEVONIAN 7269-7478' 2 SPF (136 holes); McKEE 9295-9477' 2 SPF (272 holes)

Prod

9600' 7" 29#, 26#, & 23# N-80
375 sks TOC 3750

Dressed off and Tied back 3742' to surf w/ DV
SQZ holes in CSG @ 4894-4898' 1949

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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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Revised August 1, 2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-10819	² Pool Code 58300	³ Pool Name TEAGUE; PADDOCK-BLINEBRY
⁴ Property Code 330774	⁵ Property Name SALTMOUNT	⁶ Well Number #001
⁷ OGRID No. 329326	⁸ Operator Name FAE II OPERATING, LLC	⁹ Elevation 3303' DF

¹⁰ Surface Location

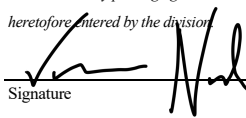
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	21	23S	37E		660	S	660	E	LEA

¹¹ Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	21	23S	37E		660	S	660	E	LEA

¹² Dedicated Acres 40	¹³ Joint or Infill Y	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  Signature _____ Date 1/28/2022 VANESSA NEAL Printed Name vanessa@faenergyus.com E-mail Address
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____

SE/4 SE/4
Sec 21 (40 acres)

660'
660'

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¹ API Number 30-025-10819	² Pool Code 33600	³ Pool Name IMPERIAL; TUBB-DINKARD
⁴ Property Code 330774	⁵ Property Name SALTMOUNT	
⁷ OGRID No. 329326	⁸ Operator Name FAE II OPERATING, LLC	
	⁶ Well Number #001	
	⁹ Elevation 3303' DF	

10 Surface Location

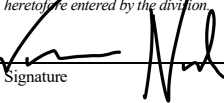
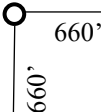
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¹¹ Bottom Hole Location If Different From Surface

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P	21	23S	37E		660	S	660	E	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
40	Y		

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.

16				17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  1/28/2022 SignatureDate VANESSA NEAL Printed Name vanessa@faenergyus.com E-mail Address
18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> _____ Date of Survey Signature and Seal of Professional Surveyor: _____ Certificate Number				
SE/4 SE/4 Sec 21 (40 acres) 				

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-10819		² Pool Code 58360	³ Pool Name TEAGUE; DEVONIAN, NORTH
⁴ Property Code 330774	⁵ Property Name SALTMOUNT		⁶ Well Number #001
⁷ OGRID No. 329326	⁸ Operator Name FAE II OPERATING, LLC		⁹ Elevation 3303' DF

¹⁰ Surface Location

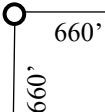
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		SE/4 SE/4 Sec 21 (40 acres)			

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WELL LOCATION AND ACREAGE DEDICATION PLAT

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⁴ Property Code 330774	⁵ Property Name SALTMOUNT	
⁷ OGRID No. 329326	⁸ Operator Name FAE II OPERATING, LLC	⁶ Well Number #001 ⁹ Elevation 3303' DF

¹⁰ Surface Location

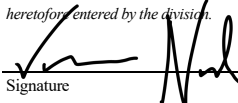
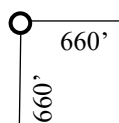
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	21	23S	37E		660	S	660	E	LEA

¹¹ Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	21	23S	37E		660	S	660	E	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
40	Y		

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.

16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature 1/28/2022 Date VANESSA NEAL Printed Name vanessa@faenergyus.com E-mail Address
					18 SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number
			SE/4 SE/4 Sec 21 (40 acres)		

From: [Vanessa Neal](#)
To: [McClure, Dean, EMNRD](#)
Subject: [EXTERNAL] downhole commingling application (Submission ID# 79063)
Date: Monday, April 11, 2022 2:12:25 PM
Attachments: [image001.png](#)
[Lamunyon_30_Lamunyon_30_3-31-22.pdf](#)
[FAE Ce Lamunyon 30 54becf74.pdf](#)
[CasingGas_CasingGas_3-31-22.pdf](#)
[FAE Ce Lamunyon 72 955fa4d3.pdf](#)
[ECHillA-7_ECHillA-7_3-31-22.pdf](#)
[FAE E C Hill A 7 806c1a77.pdf](#)
[CELamunyon_714_CELamunyon_714_3-31-22.pdf](#)
[FAE CE Lamunyon 71Y_5a590f48.pdf](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. McClure,

Attached are the current and proposed wellbore diagrams for the Saltmount #001 (30-025-10819).

The proposed pools are not commonly DHC, so I have attached gas & water analysis samples for compatibility analysis.

- The C E Lamunyon #030 samples are of the currently completed TEAGUE; PADDOCK-BLINEBRY pool.
- The C E Lamunyon #072 (Casing Gas) samples are of the proposed IMPERIAL; TUBB-DRINKARD pool we would like to DHC.
- The E C Hill A #007 samples are of the proposed DEVONIAN formation we would like to DHC.
- The C E Lamunyon #071Y (#714) samples are of the proposed SIMPSON/McKEE formation we would like to DHC.

Please let me know if you are in need of any additional documentation/information for this permit application.

Thank you,

Vanessa Neal | Sr Reservoir Engineer

forty acres energy

11757 Katy Freeway, Suite 725 | Houston, TX 77079

O [832.219.0990 \(ext 165\)](tel:832.219.0990)

C [979.255.3476](tel:979.255.3476)

E vanessa@faenergyus.com



www.permianls.com
575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

12989G	EC Hill A-7	EC Hill A-7	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022052857	2296	J Garcia - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Mar 31, 2022 12:40	Mar 31, 2022 12:40	Apr 4, 2022 12:00	Apr 4, 2022
Date Sampled	Date Effective	Date Received	Date Reported
Ambient Temp (°F)	Flow Rate (Mcf)	Luis	30 @
		Analyst	Press PSI @ Temp °F Source Conditions
Imperative	NG		
Operator	Lab Source Description		

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.5990	1.59898	
CO2 (CO2)	1.3780	1.37767	
Methane (C1)	67.1400	67.13879	
Ethane (C2)	14.3960	14.39612	3.8490
Propane (C3)	8.4170	8.41724	2.3180
I-Butane (IC4)	0.8300	0.82996	0.2720
N-Butane (NC4)	3.1240	3.12412	0.9850
I-Pentane (IC5)	0.6280	0.62842	0.2300
N-Pentane (NC5)	0.9410	0.94143	0.3410
Hexanes Plus (C6+)	1.5470	1.54727	0.6710
TOTAL	100.0000	100.0000	8.6660

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information

Device Type: Device Make:
Device Model: Last Cal Date:

Gross Heating Values (Real, BTU/ft³)

14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,420.8	1,397.5	1,424.1	1,400.7

Calculated Total Sample Properties

GPA2145-16 *Calculated at Contract Conditions

Relative Density Real	Relative Density Ideal
0.8581	0.8541
Molecular Weight	
24.7374	

C6+ Group Properties

Assumed Composition

C6 - 60.000%	C7 - 30.000%	C8 - 10.000%
--------------	--------------	--------------

Field H2S
0 PPM

PROTREND STATUS:

Passed By Validator on Apr 5, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

Close enough to be considered reasonable.

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

ok

IMPERATIVE

CHEMICAL PARTNERS

Complete Water Analysis Report

Company	FAE II
Location Name	CE Lamunyon 30
Site Type	Site
Sample Point	Wellhead

Report Date	4/1/2022
Sample Date	4/1/2022
Sample ID	54becf74

Sample Analysis

Cations

Sodium	Na ⁺	56210.22	mg/L
Potassium	K ⁺	416.52	mg/L
Magnesium	Mg ²⁺	774.07	mg/L
Calcium	Ca ²⁺	2885.60	mg/L
Strontium	Sr ²⁺	74.45	mg/L
Barium	Ba ²⁺	0.04	mg/L
Iron	Fe ²⁺	0.42	mg/L
Manganese	Mn ²⁺	0.00	mg/L
Phosphate	PO ₄ ³⁻	0.00	mg/L
Zinc	Zn ²⁺	0.00	mg/L
Lead	Pb ²⁺	0.00	mg/L
Silicon	Si	4.14	mg/L

Properties

Initial Temperature	250.00	°F
Final Temperature	70.00	°F
Initial Pressure	2000.00	psi
Final Pressure	15.00	psi
pH	6.24	

Dissolved Gases

Aqueous CO ₂	190.00	mg/L
Aqueous H ₂ S	34.20	mg/L

Anions

Chlorides	Cl ⁻	64,100.00	mg/L
Sulfates	SO ₄ ²⁻	1,096.00	mg/L
Bicarbonate	HCO ₃ ⁻	597.80	mg/L
Carbonate	CO ₃ ²⁻	0.00	mg/L

Calculated Values

Specific Gravity (@ 25°C)	1.089	
Total Dissolved Solids (TDS)	125,565.28	mg/L

Scale Modeling (Scalesoft Pitzer)

Conditions		Calcite CaCO ₃		Barite BaSO ₄		Gypsum CaSO ₄ · H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	0.27	44.27	-0.77	0.00	-0.69	0.00	-0.94	0.00	-0.53	0.00
90	236	-0.66	0.00	-0.91	0.00	-0.63	0.00	-0.80	0.00	-0.49	0.00
110	456	-0.72	0.00	-1.04	0.00	-0.60	0.00	-0.69	0.00	-0.43	0.00
130	677	-0.69	0.00	-1.15	0.00	-0.58	0.00	-0.58	0.00	-0.37	0.00
150	897	-0.64	0.00	-1.25	0.00	-0.57	0.00	-0.47	0.00	-0.31	0.00
170	1118	-0.57	0.00	-1.33	0.00	-0.56	0.00	-0.36	0.00	-0.25	0.00
190	1338	-0.50	0.00	-1.40	0.00	-0.57	0.00	-0.26	0.00	-0.19	0.00
210	1559	-0.43	0.00	-1.46	0.00	-0.58	0.00	-0.16	0.00	-0.13	0.00
230	1779	-0.36	0.00	-1.51	0.00	-0.60	0.00	-0.06	0.00	-0.07	0.00
250	2000	-0.28	0.00	-1.56	0.00	-0.63	0.00	0.04	41.27	-0.01	0.00

Conditions		Halite NaCl		Siderite FeCO ₃		Mackinawite FeS		Sphalerite ZnS		Galena PbS	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	-1.22	0.00	-2.21	0.00	-0.12	0.00	0.00	0.00	0.00	0.00
90	236	-1.24	0.00	-3.06	0.00	-1.19	0.00	0.00	0.00	0.00	0.00
110	456	-1.25	0.00	-3.07	0.00	-1.33	0.00	0.00	0.00	0.00	0.00
130	677	-1.26	0.00	-3.00	0.00	-1.35	0.00	0.00	0.00	0.00	0.00
150	897	-1.27	0.00	-2.93	0.00	-1.32	0.00	0.00	0.00	0.00	0.00
170	1118	-1.27	0.00	-2.86	0.00	-1.26	0.00	0.00	0.00	0.00	0.00
190	1338	-1.28	0.00	-2.80	0.00	-1.19	0.00	0.00	0.00	0.00	0.00
210	1559	-1.28	0.00	-2.76	0.00	-1.12	0.00	0.00	0.00	0.00	0.00
230	1779	-1.28	0.00	-2.74	0.00	-1.04	0.00	0.00	0.00	0.00	0.00
250	2000	-1.28	0.00	-2.72	0.00	-0.97	0.00	0.00	0.00	0.00	0.00

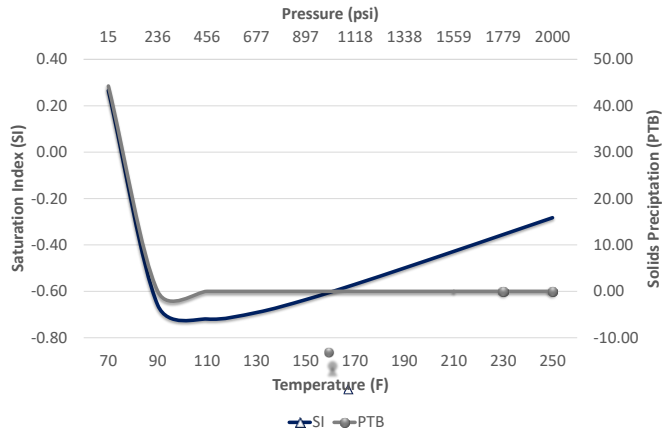
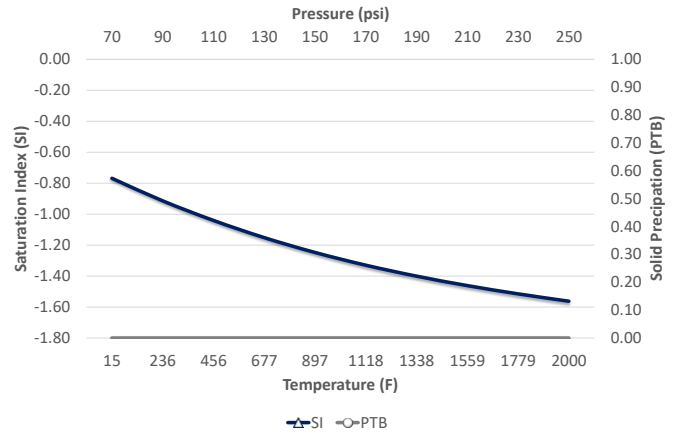
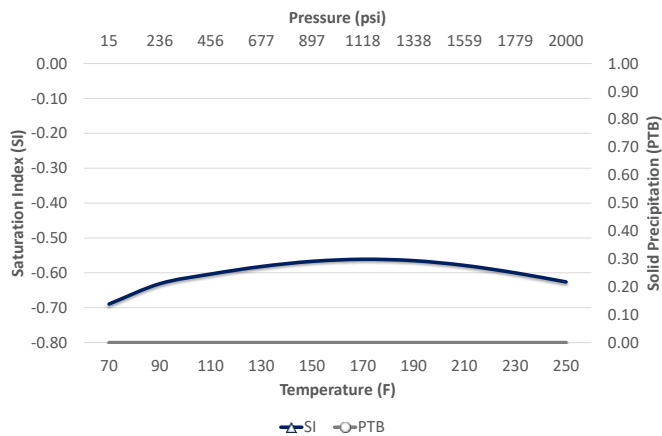
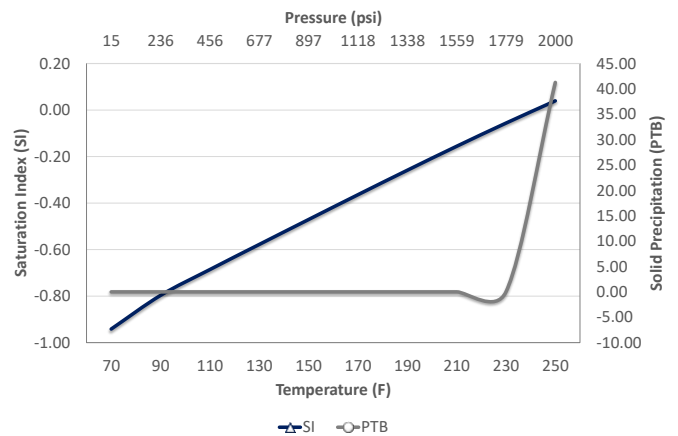
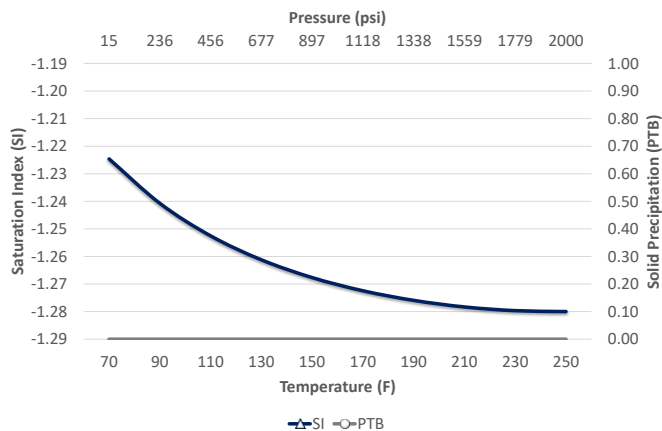
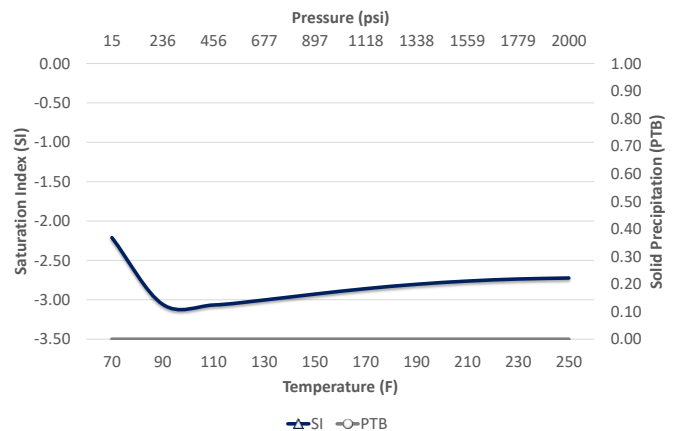
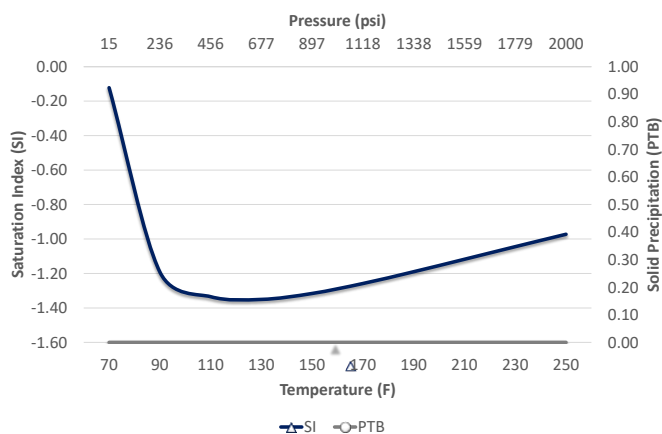
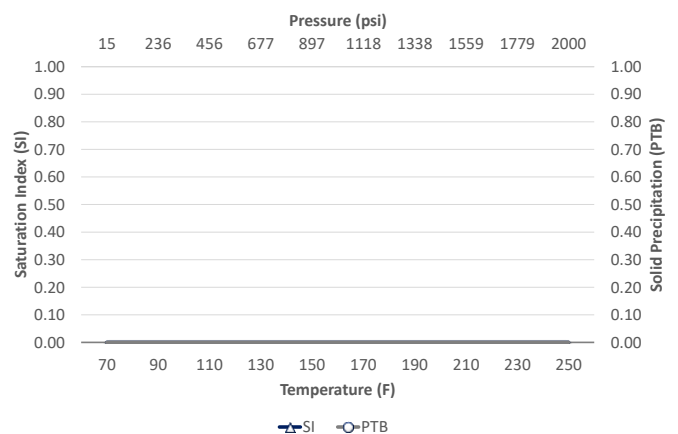
*Please note default production volumes of 100 mcf/d, 50 bopd, and 50 bwpd were used for modeling calculations.

*Please note default temperatures and pressures of 250 °F, 50 psi, and 5000 psi were used for modeling calculations.

SI = Saturation Index

PTB = Pounds per Thousand Barrels

NA = Not Applicable

Calcite (CaCO_3)**Barite (BaSO_4)****Gypsum ($\text{CaSO}_4 \cdot \text{H}_2\text{O}$)****Anhydrite (CaSO_4)****Halite (NaCl)****Siderite (FeCO_3)****Mackinawite (FeS)****Sphalerite (ZnS)**

IMPERATIVE

CHEMICAL PARTNERS

Complete Water Analysis Report

Company	FAE II
Location Name	CE Lamunyon 71Y
Site Type	Site
Sample Point	Wellhead

Report Date	4/1/2022
Sample Date	4/1/2022
Sample ID	5a590f48

Sample Analysis

Cations

Sodium	Na ⁺	99777.67	mg/L
Potassium	K ⁺	496.98	mg/L
Magnesium	Mg ²⁺	1674.28	mg/L
Calcium	Ca ²⁺	13000.16	mg/L
Strontium	Sr ²⁺	403.53	mg/L
Barium	Ba ²⁺	2.00	mg/L
Iron	Fe ²⁺	69.41	mg/L
Manganese	Mn ²⁺	11.53	mg/L
Phosphate	PO ₄ ³⁻	0.00	mg/L
Zinc	Zn ²⁺	0.00	mg/L
Lead	Pb ²⁺	0.00	mg/L
Silicon	Si	5.55	mg/L

Properties

Initial Temperature	250.00	°F
Final Temperature	70.00	°F
Initial Pressure	2000.00	psi
Final Pressure	15.00	psi
pH	5.90	

Dissolved Gases

Aqueous CO ₂	270.00	mg/L
Aqueous H ₂ S	0.00	mg/L

Anions

Chlorides	Cl ⁻	130,600.00	mg/L
Sulfates	SO ₄ ²⁻	40.00	mg/L
Bicarbonate	HCO ₃ ⁻	109.80	mg/L
Carbonate	CO ₃ ²⁻	0.00	mg/L

Calculated Values

Specific Gravity (@ 25°C)	1.171	
Total Dissolved Solids (TDS)	246,102.17	mg/L

Scale Modeling (Scalesoft Pitzer)

Conditions		Calcite CaCO ₃		Barite BaSO ₄		Gypsum CaSO ₄ · H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	0.28	8.68	-0.61	0.00	-1.46	0.00	-1.61	0.00	-1.19	0.00
90	236	-0.83	0.00	-0.76	0.00	-1.44	0.00	-1.51	0.00	-1.15	0.00
110	456	-0.97	0.00	-0.91	0.00	-1.44	0.00	-1.42	0.00	-1.13	0.00
130	677	-1.01	0.00	-1.05	0.00	-1.45	0.00	-1.34	0.00	-1.11	0.00
150	897	-1.02	0.00	-1.18	0.00	-1.46	0.00	-1.27	0.00	-1.08	0.00
170	1118	-1.01	0.00	-1.29	0.00	-1.48	0.00	-1.19	0.00	-1.06	0.00
190	1338	-1.00	0.00	-1.39	0.00	-1.51	0.00	-1.11	0.00	-1.03	0.00
210	1559	-0.99	0.00	-1.49	0.00	-1.55	0.00	-1.04	0.00	-1.01	0.00
230	1779	-0.98	0.00	-1.57	0.00	-1.60	0.00	-0.96	0.00	-0.98	0.00
250	2000	-0.96	0.00	-1.65	0.00	-1.65	0.00	-0.90	0.00	-0.96	0.00

Conditions		Halite NaCl		Siderite FeCO ₃		Mackinawite FeS		Sphalerite ZnS		Galena PbS	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	-0.40	0.00	-0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	236	-0.42	0.00	-1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	456	-0.43	0.00	-1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	677	-0.44	0.00	-1.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	897	-0.46	0.00	-1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1118	-0.47	0.00	-1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
190	1338	-0.48	0.00	-1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210	1559	-0.49	0.00	-1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
230	1779	-0.50	0.00	-1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00
250	2000	-0.52	0.00	-1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00

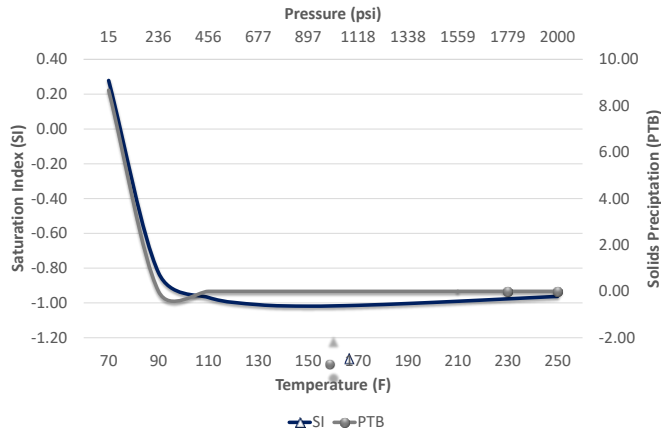
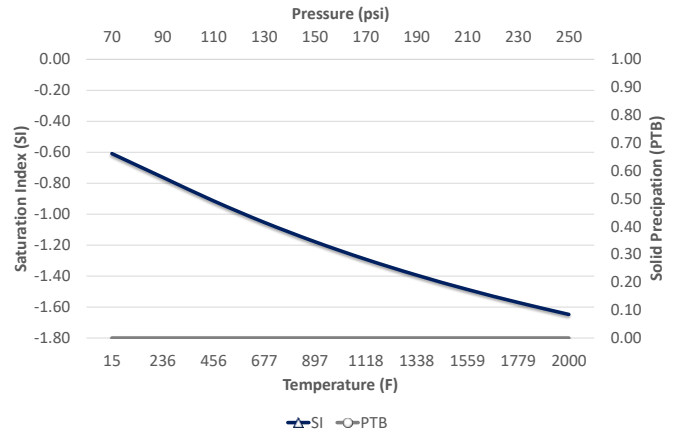
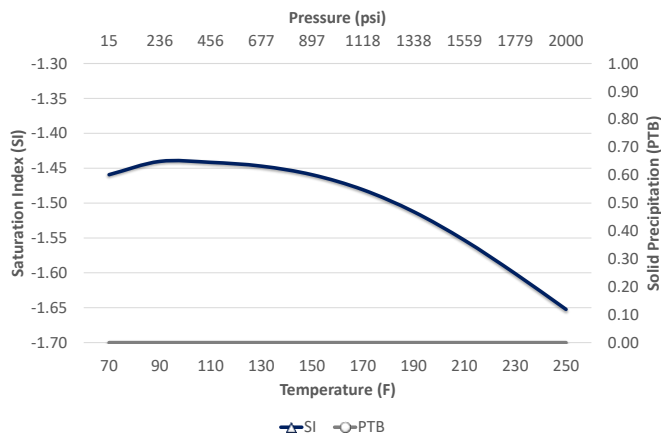
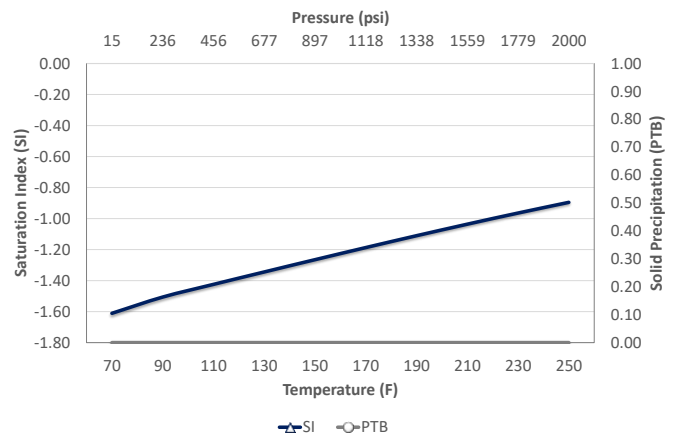
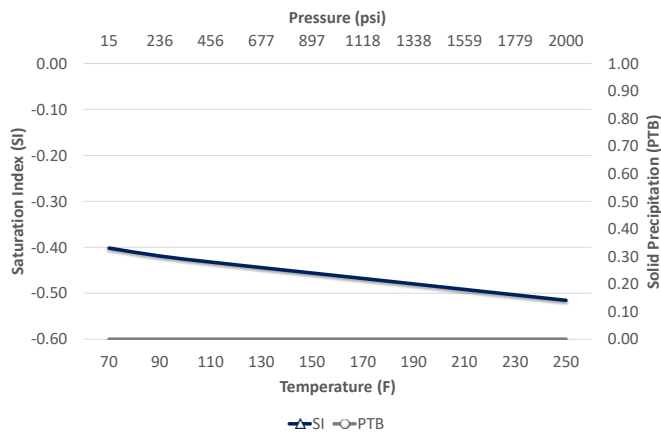
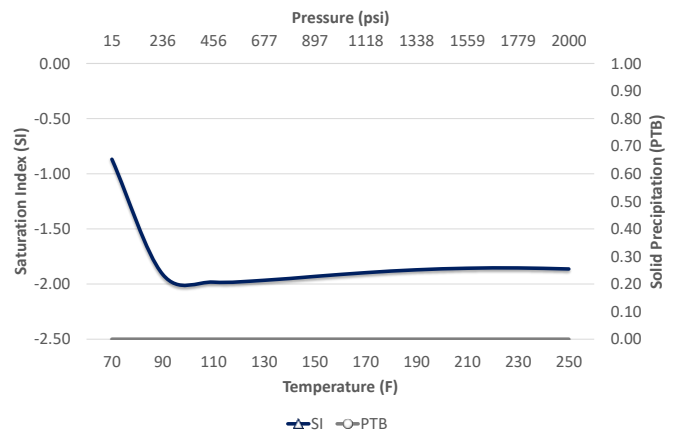
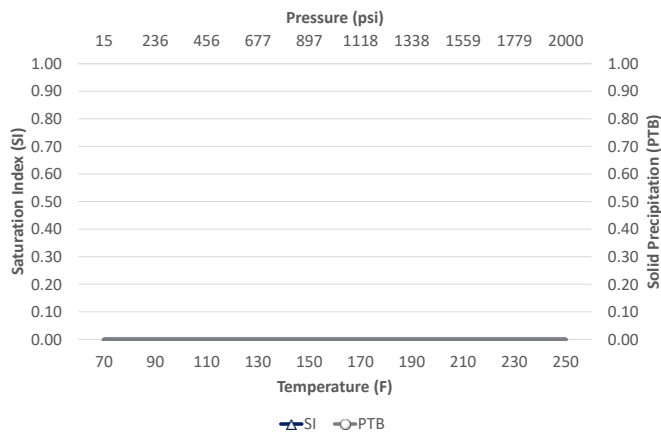
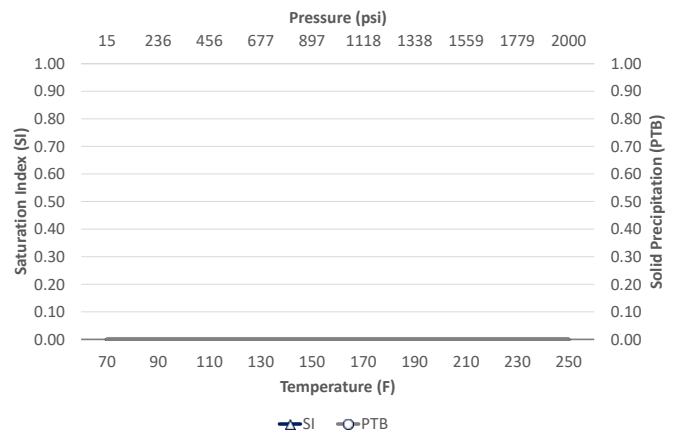
*Please note default production volumes of 100 mcf/d, 50 bopd, and 50 bwpd were used for modeling calculations.

*Please note default temperatures and pressures of 250 °F, 50 psi, and 5000 psi were used for modeling calculations.

SI = Saturation Index

PTB = Pounds per Thousand Barrels

NA = Not Applicable

Calcite (CaCO₃)**Barite (BaSO₄)****Gypsum (CaSO₄·H₂O)****Anhydrite (CaSO₄)****Halite (NaCl)****Siderite (FeCO₃)****Mackinawite(FeS)****Sphalerite (ZnS)**

IMPERATIVE

CHEMICAL PARTNERS

Complete Water Analysis Report

Company	FAE II
Location Name	CE Lamunyon 72
Site Type	Site
Sample Point	Wellhead

Report Date	4/1/2022
Sample Date	4/1/2022
Sample ID	955fa4d3

Sample Analysis

Cations

Sodium	Na ⁺	34752.64	mg/L
Potassium	K ⁺	205.47	mg/L
Magnesium	Mg ²⁺	367.67	mg/L
Calcium	Ca ²⁺	1454.22	mg/L
Strontium	Sr ²⁺	39.70	mg/L
Barium	Ba ²⁺	0.00	mg/L
Iron	Fe ²⁺	56.19	mg/L
Manganese	Mn ²⁺	0.20	mg/L
Phosphate	PO ₄ ³⁻	0.00	mg/L
Zinc	Zn ²⁺	0.00	mg/L
Lead	Pb ²⁺	0.00	mg/L
Silicon	Si	5.93	mg/L

Properties

Initial Temperature	250.00	°F
Final Temperature	70.00	°F
Initial Pressure	2000.00	psi
Final Pressure	15.00	psi
pH	6.32	

Dissolved Gases

Aqueous CO ₂	950.00	mg/L
Aqueous H ₂ S	34.20	mg/L

Anions

Chlorides	Cl ⁻	38,800.00	mg/L
Sulfates	SO ₄ ²⁻	1,269.00	mg/L
Bicarbonate	HCO ₃ ⁻	1,976.40	mg/L
Carbonate	CO ₃ ²⁻	0.00	mg/L

Calculated Values

Specific Gravity (@ 25°C)	1.055	
Total Dissolved Solids (TDS)	76,951.90	mg/L

Scale Modeling (Scalesoft Pitzer)

Conditions		Calcite CaCO ₃		Barite BaSO ₄		Gypsum CaSO ₄ · H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	0.53	227.49	0.00	0.00	-0.75	0.00	-1.04	0.00	-0.61	0.00
90	236	-0.37	0.00	0.00	0.00	-0.69	0.00	-0.89	0.00	-0.57	0.00
110	456	-0.42	0.00	0.00	0.00	-0.67	0.00	-0.78	0.00	-0.52	0.00
130	677	-0.37	0.00	0.00	0.00	-0.65	0.00	-0.67	0.00	-0.48	0.00
150	897	-0.30	0.00	0.00	0.00	-0.64	0.00	-0.57	0.00	-0.43	0.00
170	1118	-0.21	0.00	0.00	0.00	-0.63	0.00	-0.46	0.00	-0.37	0.00
190	1338	-0.12	0.00	0.00	0.00	-0.63	0.00	-0.36	0.00	-0.32	0.00
210	1559	-0.02	0.00	0.00	0.00	-0.64	0.00	-0.25	0.00	-0.26	0.00
230	1779	0.08	41.42	0.00	0.00	-0.66	0.00	-0.15	0.00	-0.20	0.00
250	2000	0.18	90.43	0.00	0.00	-0.68	0.00	-0.04	0.00	-0.14	0.00

Conditions		Halite NaCl		Siderite FeCO ₃		Mackinawite FeS		Sphalerite ZnS		Galena PbS	
Temp	Psi	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
70	15	-1.70	0.00	0.64	27.10	2.03	14.69	0.00	0.00	0.00	0.00
90	236	-1.72	0.00	-0.17	0.00	1.07	14.35	0.00	0.00	0.00	0.00
110	456	-1.74	0.00	-0.16	0.00	0.94	13.05	0.00	0.00	0.00	0.00
130	677	-1.75	0.00	-0.09	0.00	0.93	14.92	0.00	0.00	0.00	0.00
150	897	-1.75	0.00	0.00	0.00	0.98	14.69	0.00	0.00	0.00	0.00
170	1118	-1.76	0.00	0.08	5.78	1.05	14.01	0.00	0.00	0.00	0.00
190	1338	-1.76	0.00	0.15	9.51	1.13	13.48	0.00	0.00	0.00	0.00
210	1559	-1.76	0.00	0.20	11.47	1.21	13.03	0.00	0.00	0.00	0.00
230	1779	-1.75	0.00	0.23	12.10	1.29	12.56	0.00	0.00	0.00	0.00
250	2000	-1.75	0.00	0.25	11.73	1.36	12.01	0.00	0.00	0.00	0.00

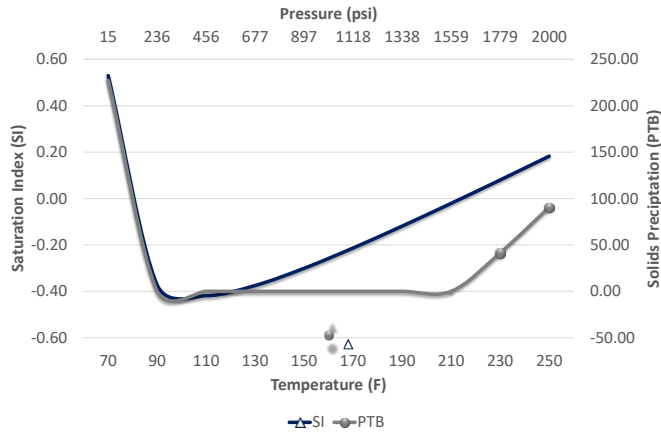
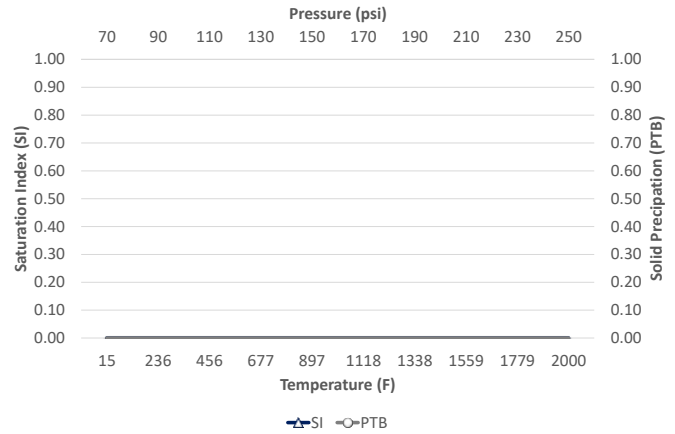
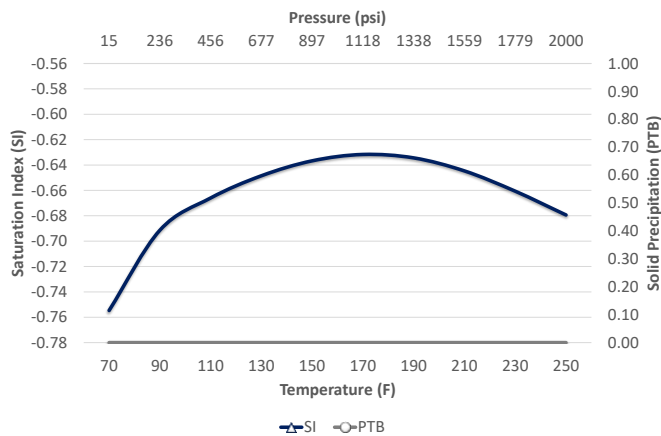
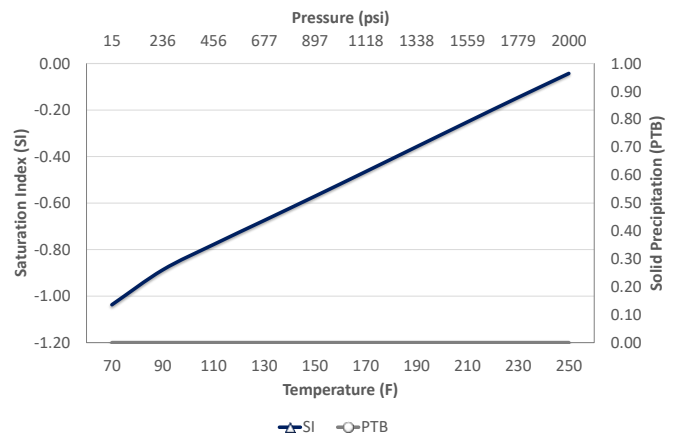
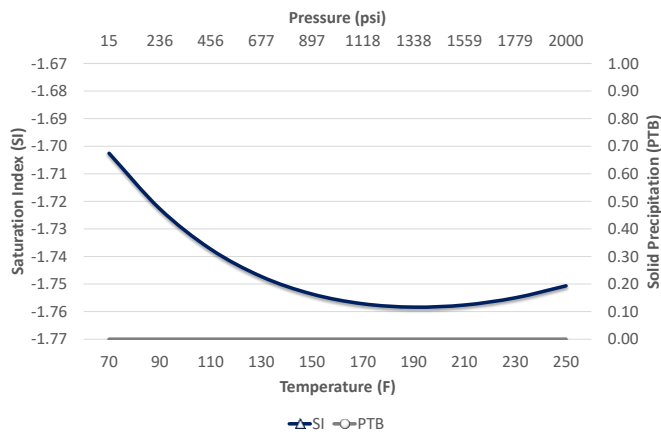
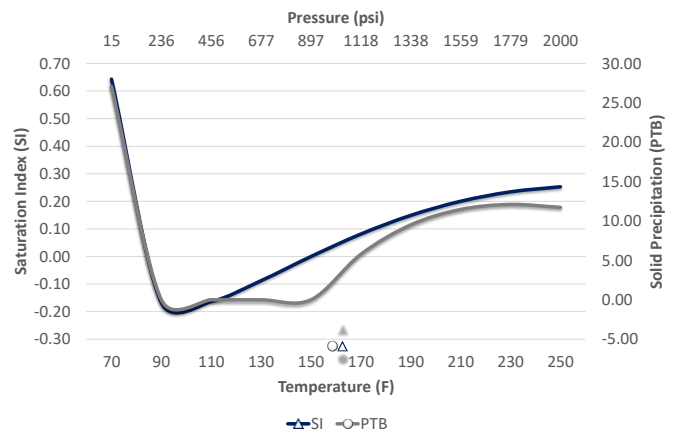
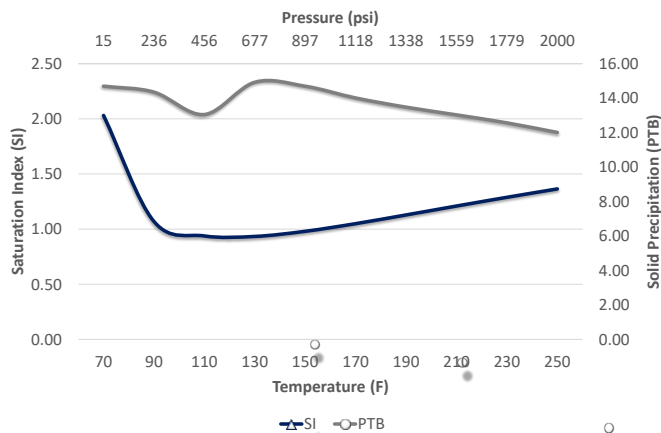
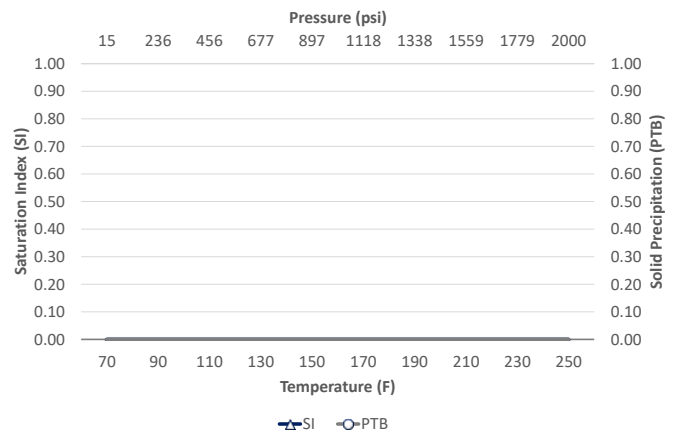
*Please note default production volumes of 100 mcf/d, 50 bopd, and 50 bwpd were used for modeling calculations.

*Please note default temperatures and pressures of 250 °F, 50 psi, and 5000 psi were used for modeling calculations.

SI = Saturation Index

PTB = Pounds per Thousand Barrels

NA = Not Applicable

Calcite (CaCO₃)**Barite (BaSO₄)****Gypsum (CaSO₄·H₂O)****Anhydrite (CaSO₄)****Halite (NaCl)****Siderite (FeCO₃)****Mackinawite(FeS)****Sphalerite (ZnS)**



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575.397.3713 2609 W Marland Hobbs NM 88240

C6+ Gas Analysis Report

14054G	Lamunyon #30	Lamunyon #30	
Sample Point Code	Sample Point Name	Sample Point Location	
Laboratory Services	2022052859	0600	Client - Spot
Source Laboratory	Lab File No	Container Identity	Sampler
USA	USA	USA	New Mexico
District	Area Name	Field Name	Facility Name
Mar 31, 2022 15:15	Mar 31, 2022 15:15	Apr 4, 2022 12:07	Apr 4, 2022
Date Sampled	Date Effective	Date Received	Date Reported
Torrance			
Ambient Temp (°F)	Flow Rate (Mcf)	Analyst	Press PSI @ Temp °F Source Conditions
Imperative		FAE II	
Operator		Lab Source Description	

Component	Normalized Mol %	Un-Normalized Mol %	GPM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	1.0690	1.0687	
CO2 (CO2)	2.4400	2.43982	
Methane (C1)	68.4750	68.4742	
Ethane (C2)	14.9700	14.97019	4.0030
Propane (C3)	7.5980	7.5985	2.0930
I-Butane (IC4)	0.8320	0.83236	0.2720
N-Butane (NC4)	2.2180	2.21789	0.6990
I-Pentane (IC5)	0.5560	0.55569	0.2030
N-Pentane (NC5)	0.6460	0.64641	0.2340
Hexanes Plus (C6+)	1.1960	1.19625	0.5190
TOTAL	100.0000	100.0000	8.0230

Method(s): Gas C6+ - GPA 2261, Extended Gas - GPA 2286, Calculations - GPA 2172

Analyzer Information			
Device Type:	Gas Chromatograph	Device Make:	Shimadzu
Device Model:	GC-2014	Last Cal Date:	Jan 24, 2022

Gross Heating Values (Real, BTU/ft³)			
14.696 PSI @ 60.00 Å°F		14.73 PSI @ 60.00 Å°F	
Dry	Saturated	Dry	Saturated
1,361.4	1,339.1	1,364.5	1,342.2
Calculated Total Sample Properties			
GPA2145-16 *Calculated at Contract Conditions			
Relative Density Real		Relative Density Ideal	
0.8311		0.8275	
Molecular Weight			
23.9646			
C6+ Group Properties			
Assumed Composition			
C6 - 60.000%	C7 - 30.000%	C8 - 10.000%	
Field H2S			
0 PPM			

PROTREND STATUS:

Passed By Validator on Apr 5, 2022

DATA SOURCE:

Imported

PASSED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

ok

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 142463

COMMENTS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 142463
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

COMMENTS

Created By	Comment	Comment Date
dmcclure	Attached is the withdrawn application and associated supplemental documents.	9/12/2022

District I
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CONDITIONS

Action 142463

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 142463
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	The application has been withdrawn per the applicant's request.	9/12/2022