

Revised March 23, 2017

RECEIVED:	REVIEWER:	TYPE:	APP NO:
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Geological & 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

**Applicant:** \_\_\_\_\_ **OGRID Number:** \_\_\_\_\_  
**Well Name:** \_\_\_\_\_ **API:** \_\_\_\_\_  
**Pool:** \_\_\_\_\_ **Pool Code:** \_\_\_\_\_

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION  
 INDICATED BELOW**

**1) TYPE OF APPLICATION:** Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL      ☐ NSP (PROJECT AREA)      ☐ NSP (PRORATION UNIT)      ☐ SD

B. Check one only for [ I ] or [ II ]

[ I ] Commingling – Storage – Measurement

☐ DHC    ☐ CTB    ☐ PLC    ☐ PC    ☐ OLS    ☐ OLM

[ II ] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX    ☐ PMX    ☐ SWD    ☐ IPI    ☐ EOR    ☐ PPR

**2) NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☐ Offset operators or lease holders  
 B. ☐ Royalty, overriding royalty owners, revenue owners  
 C. ☐ Application requires published notice  
 D. ☐ Notification and/or concurrent approval by SLO  
 E. ☐ Notification and/or concurrent approval by BLM  
 F. ☐ Surface owner  
 G. ☐ For all of the above, proof of notification or publication is attached, and/or,  
 H. ☐ No notice required

**FOR OCD ONLY**

- ☐ Notice Complete  
☐ Application  
 Content  
 Complete

- 3) 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.**

\_\_\_\_\_  
 Print or Type Name

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Phone Number

\_\_\_\_\_  
 e-mail Address

# forty acres energy

November 15, 2023

Energy Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis drive  
Santa Fe, New Mexico 87505

Attention: Mr. Dean McClure  
Petroleum Specialist

Re: "Corrected" Injection Pressure Increase Application  
Forty Acres Energy, LLC  
West Eumont Unit #211  
Pool: EUMONT; YATES-7 RVRS-QUEEN (OIL)  
Lea County, New Mexico


Dear Mr. McClure,

Forty Acres Energy, LLC ("Forty Acres"; OGRID No. 371416), as current operator of the West Eumont Unit Waterflood Project, requested and gained an injection pressure increase for the West Eumont Unit #211, API # 30-025-44207. The order is listed as IPI-523.

On October 31, 2023, it came to your attention that there were possible errors on the well bore diagram and structural cross section submitted in the original IPI application. Forty Acres has made the requested changes and is submitting the corrected documents.

If there are any additional questions or concerns, please contact me.

Regards,



Jessica LaMarro  
Geologist

2239 S Main Street  
Lovington, New Mexico 88260  
Office# (575)396-9702  
Fax # (575)396-9700

• ACID SERVICES

## Acid Field Invoice:

6746

Date of Job	8/20/2020	District:	Lovington	New Well:	<input type="checkbox"/>	Old Well:	<input type="checkbox"/>
Customer:	FORTY ACRES			Well #:	211	Lease:	WEU
Address:				County/ Parrish	LEA	State:	NM
City:				Field:			
Zip Code:				API#:			
Contact Person/Company man:	JAMES MARTINEZ			Salesman:	Mike White		
Contact Number:				Service Supervisor:	LEO SANDOVAL		
Rig Contractor:				Tractor:	T1076	Trailer:	AP4001
Rig Number:							
Head & Manifold							
				Sup	ALEX HERNANDEZ		
				Sup	JOSE SANDOVAL		
				Sup	LEO SANDOVAL		
STEP RATE							
Gals.	Acid System						
STEP RATE							

Description	Quantity	Cost per Unit	Unit cost after Discount	List of Price of Services	Discounted Price of Services
<b>Acid Pumping Charges</b>					
Acid Pump 5,001-7,500	1	3,000.0000	\$1,500.0000	\$3,000.0000	\$1,500.0000
Acid Pump Additional Hours	4	500.0000	\$250.0000	\$2,000.0000	\$1,000.0000
Acid Pump Truck Mileage	50	\$6.5000	\$3.2500	\$325.0000	\$162.5000
Acid Treating Van Mileage	50	\$4.5000	\$2.2500	\$225.0000	\$112.5000
<b>Job Monitoring</b>					
Acid Treating Van	1	\$700.0000	\$350.0000	\$700.0000	\$350.0000
<b>Enviromental Charges</b>					
Enviromental Charge	1	\$125.0000	\$62.5000	\$125.0000	\$62.5000
<b>Miscellaneous Equipment Services</b>					
Valve & Swedge Rental 2"	1	\$300.0000	\$150.0000	\$300.0000	\$150.0000
<b>Field Personnel Charges</b>					
<b>Acid Charges</b>					
<b>Blended Acid Systems</b>					
<b>Diversers</b>					
<b>Acidizing Materials</b>					

<b>Price Book Total</b>	\$6,675.00
<b>Discount 50%</b>	\$3,337.50
<b>Job Total</b>	\$3,337.50

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions attached Including indemnty and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: X

Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt

Over 30 Days, Discount Voids

Supervisor: LEO SANDOVAL



Truck Called:	Date: 8/20/2020	Time: 5:00 AM
Arrived at location:	8/20/2020	6:30 AM
Start Job:	8/20/2020	9:30 AM
Finish Job:	8/20/2020	3:00 PM
Leave Location:	8/20/2020	4:00 PM

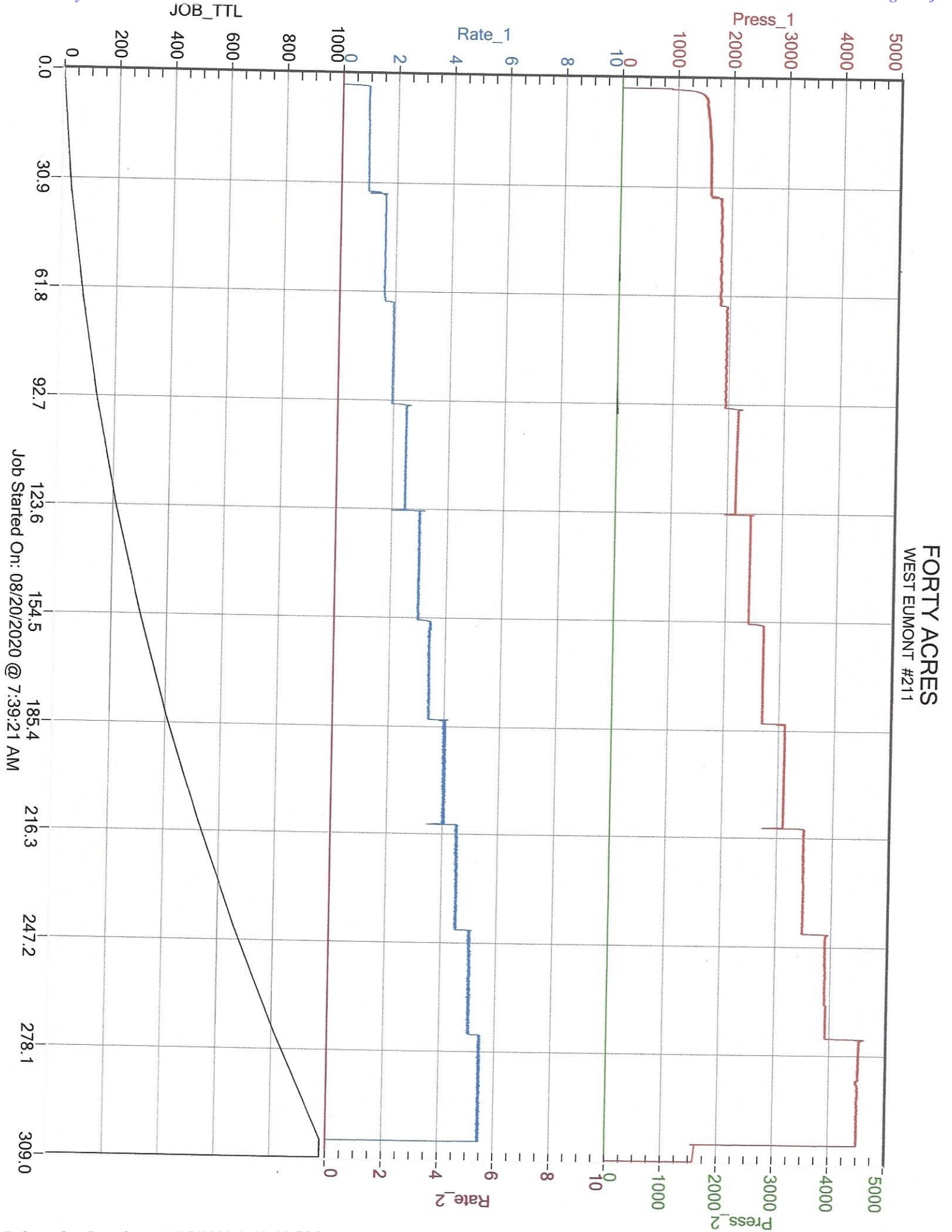
# Job Log

<b>Crain Hot Oil Service</b>		<b>Customer Name:</b> FORTY ACRES		<b>Ticket Number:</b> 6746	
2239 S Main Street		<b>Lease Name:</b> WEU			
Lovington, NM 88260		<b>Well #:</b> 211		<b>Supervisor:</b> LEO SANDOVAL	
<b>OFFICE # (575)396-9702</b>		<b>Type of Job:</b> STEP RATE		<b>County:</b> LEA	
<b>FAX # (575)396-9700</b>		<b>Date:</b> 8/20/2020		<b>CUSTOMER REPRESENTATIVE:</b> JAMES MARTINEZ	
<b>Tubing Size:</b> 2 3/8		<b>Casing size:</b> 5 1/2		<b>Tbg Capacity:</b> 14.56	
<b>Tubing weight:</b> 4.7		<b>Casing weight:</b> 15.5		<b>Top Perf:</b> 0.64	
<b>Tubing bbl/lnft</b> .00387		<b>Casing bbl/lnft:</b> .0238		<b>Bottom Perf:</b> 3.24	
<b>Packer depth:</b> 3762		<b>Annulus:</b> .0183		<b>Flush Top Perf:</b> 15.20	
<b>End of Tbg:</b> 3762		<b>Total Depth:</b> 4410		<b>Flush Bottom Perf:</b> 17.80	
<b>Top Perf:</b> 3789		<b>Open Hole:</b>		<b>Annular Capacity:</b> 68.84	
<b>Bottom Perf:</b> 3898		<b>Liner Size:</b>		<b>Maximum:</b> 4500	Psi
<b>Holes in Csg:</b>		<b>Top of Liner</b>			
<b>Max psi:</b> 4600	<b>Min psi:</b> 1609	<b>Avg psi:</b> 2784.4	<b>Max rate:</b> 5.5	<b>Avg rate:</b> 3.5	<b>ISIP</b> 1609
<b>Load to recover</b> 975		<b>1581 5 min</b>		<b>10 min</b>	<b>15 min</b>

## Acid Systems

<b>Acid System:</b>		<b>Gallons</b>	<b>STEP RATE</b>		
<b>Diverter:</b>		<b>Balls</b>	<b>Coarse Rock Salt</b>		
<b>Injection Rate:</b>		<b>Job Pressures</b>		<b>Job Log Remarks:</b>	
<b>Time</b>	<b>Rate:</b>	<b>Bbls in</b>	<b>Tbg psi.</b>		<b>Csg psi</b>
9:30 AM	1		1620		
10:00 AM	1.5	30	1840		
10:30 AM	2	75	1950		
11:00 AM	2.5	135	2180		
11:30 AM	3	210	2440		
12:00 PM	3.5	300	2705		
12:30 PM	4	405	3120		
1:00 PM	4.5	525	3490		
1:30 PM	5	660	3910		
2:00 PM	5.5	810	4600		
2:30 PM		975	1609		
<b>SERVICE REPRESENTATIVE:</b> Signature Please				<b>CUSTOMER REPRESENTATIVE:</b> Signature Please	
LEO SANDOVAL				X	





*JSA / Job Safety Analysis*

*Pre-Job / Tail Gate Safety Meeting*

Date: 8/20/2020 Time: 6:30 AM

Job # 6746

Meeting Facilitator: LEO SANDOVAL

Meeting Location: Pickup Tailgate

Work To Be Performed:

Lease Name:	WEU	Well No.:	211
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Nearest Emergency Medical Phone # (other than 911)

Minimum Standard PPE Required

## Hazard Identification & Safety Briefing

	Covered	N/A		Covered	N/A		Covered	N/A
Hand Protection:	X		Electrical Current	X		Noise Levels	X	
Respirator:		X	Trapped Pressure	X		Pinch Points	X	
Appropriate Eyewear:	X		Hazardous Substances	X		Sharp Edges	X	
Personal H2S Monitor:	X		Falling From Heights	X		Suspended Loads	X	
Fall Protection:	X		Heavy Lifting	X		Hazardous Atmosphere	X	
Safety Toed Boots:	X		Slip, Trips, Falls	X		Insects / Snakes	X	
Hearing Protection:	X		Extreme Weather		X	Mechanical Integrity	X	
Goggles/Faceshield:		X	Lifting Equipment	X		Towing Equipment	X	
Hard Hat:	X		Position of People	X		Overhead Hazards	X	

**Emergency Preparation:**

Meeting Area

Communication Area

Head Count

*Additional Topics Covered:*

MAX PRESSURE 4500 PSI

MAX PRESSURE	4500	PSI
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BE ALERT - USE BUDDY SYSTEM- STAY CLEAR OF PUMP & LINES- RELEASE PSI BEFORE HAMMERING

**Post Job Debriefing:**

## RIG DOWN USING BUDDY SYSTEM

[illegible]

## PRESSURE SURVEY REPORT

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### *Linear Data*



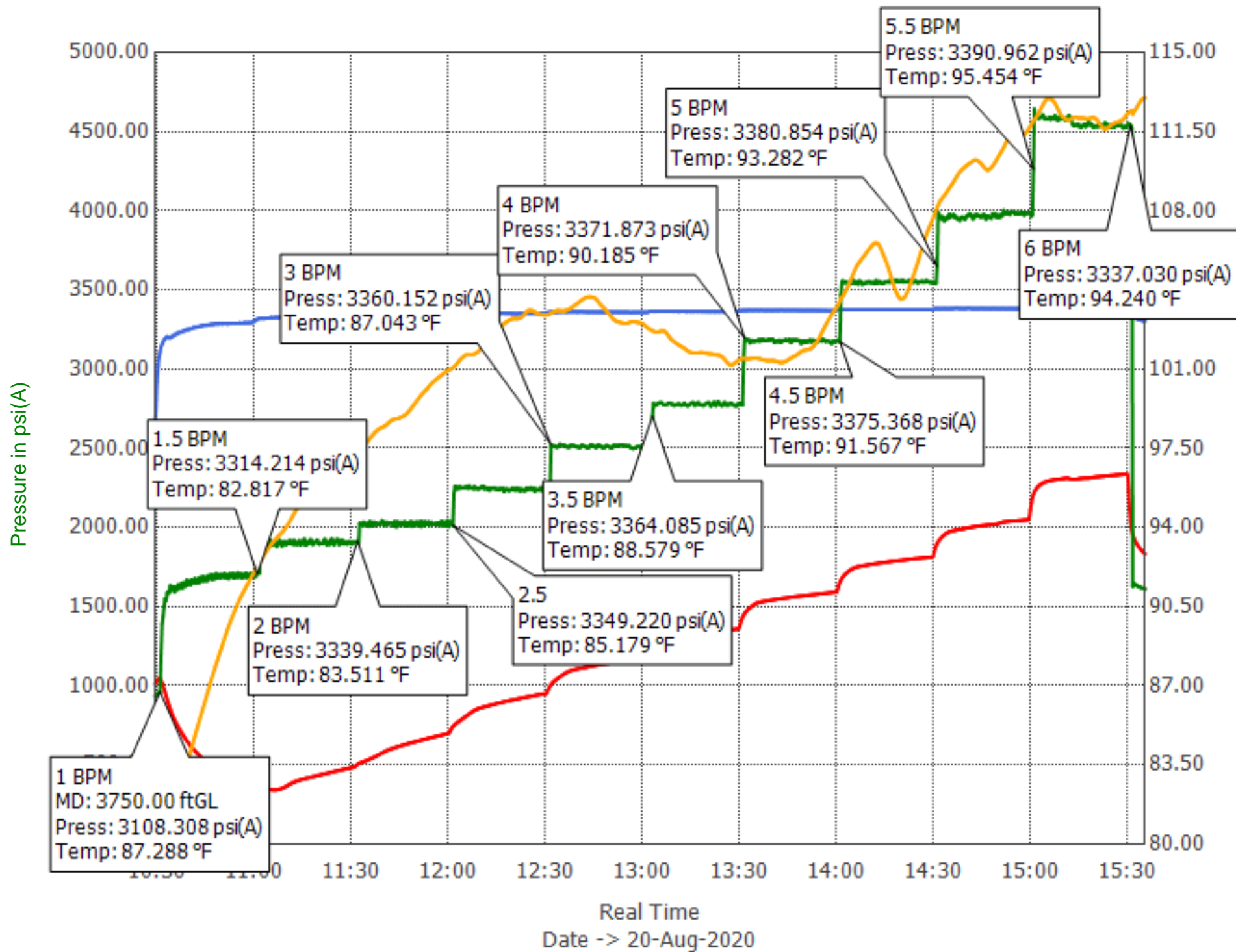
Forty Acres Energy, LLC				West Eumont 211		
Start Test Date: 20-Aug-2020 10:29:14				Final Test Date: 20-Aug-2020 15:35:33		
#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
1	2020/08/20 10:29:16	0.0000	2648.75	87.07	933.14	80.95
1 BPM						
2	2020/08/20 10:30:51	0.0264	3108.31	87.29	959.90	80.93
3	2020/08/20 10:32:22	0.0517	3188.38	86.72	1528.07	81.02
4	2020/08/20 10:35:28	0.1033	3213.43	85.44	1621.39	81.78
5	2020/08/20 10:38:34	0.1550	3242.04	84.66	1659.80	83.18
6	2020/08/20 10:41:40	0.2067	3262.55	84.10	1675.85	84.78
7	2020/08/20 10:44:46	0.2583	3276.69	83.68	1681.23	86.29
8	2020/08/20 10:47:52	0.3100	3286.53	83.34	1690.73	87.79
9	2020/08/20 10:50:58	0.3617	3289.19	83.17	1687.01	89.15
10	2020/08/20 10:54:04	0.4133	3290.84	83.03	1684.56	90.34
11	2020/08/20 10:57:10	0.4650	3291.56	82.90	1678.14	91.27
12	2020/08/20 11:00:16	0.5167	3306.63	82.82	1681.89	92.08
1.5 BPM						
13	2020/08/20 11:00:56	0.5278	3314.21	82.82	1704.88	92.25
14	2020/08/20 11:03:22	0.5683	3318.49	82.50	1915.37	92.83
15	2020/08/20 11:06:28	0.6200	3325.97	82.37	1904.63	93.45
16	2020/08/20 11:09:34	0.6717	3328.21	82.51	1918.15	93.95
17	2020/08/20 11:12:40	0.7233	3332.66	82.74	1906.76	94.69
18	2020/08/20 11:15:46	0.7750	3330.70	82.88	1898.21	95.25
19	2020/08/20 11:18:52	0.8267	3328.73	82.99	1893.97	95.79
20	2020/08/20 11:21:58	0.8783	3330.74	83.09	1918.20	96.32
21	2020/08/20 11:25:04	0.9300	3335.59	83.20	1911.43	96.53
22	2020/08/20 11:28:10	0.9817	3332.82	83.30	1900.40	96.91
23	2020/08/20 11:31:16	1.0333	3338.28	83.42	1909.73	97.24
2 BPM						
24	2020/08/20 11:31:58	1.0450	3339.47	83.51	1911.60	97.31
25	2020/08/20 11:34:22	1.0850	3341.39	83.66	2032.63	97.68
26	2020/08/20 11:37:28	1.1367	3341.40	83.86	2034.30	98.21
27	2020/08/20 11:40:34	1.1883	3340.34	84.09	2017.07	98.50
28	2020/08/20 11:43:40	1.2400	3340.74	84.26	2016.51	98.79
29	2020/08/20 11:46:46	1.2917	3337.84	84.39	2010.60	98.98
30	2020/08/20 11:49:52	1.3433	3340.67	84.51	2036.58	99.51
31	2020/08/20 11:52:58	1.3950	3340.11	84.63	2031.32	100.05
32	2020/08/20 11:56:04	1.4467	3340.69	84.74	2006.72	100.51
33	2020/08/20 11:59:10	1.4983	3339.24	84.85	2003.31	100.86
2.5						
34	2020/08/20 12:01:25	1.5358	3349.22	85.18	2012.83	101.05
35	2020/08/20 12:02:16	1.5500	3352.55	85.30	2242.31	101.16
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						

Forty Acres Energy, LLC				West Eumont 211		
Start Test Date: 20-Aug-2020 10:29:14				Final Test Date: 20-Aug-2020 15:35:33		
#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
36	2020/08/20 12:05:22	1.6017	3352.10	85.63	2250.67	101.62
37	2020/08/20 12:08:28	1.6533	3350.70	85.92	2249.32	101.69
38	2020/08/20 12:11:34	1.7050	3352.34	86.07	2256.30	102.14
39	2020/08/20 12:14:40	1.7567	3347.95	86.19	2244.10	102.58
40	2020/08/20 12:17:46	1.8083	3350.09	86.29	2240.55	103.06
41	2020/08/20 12:20:52	1.8600	3350.79	86.39	2242.08	103.22
42	2020/08/20 12:23:58	1.9117	3350.98	86.48	2237.79	103.49
43	2020/08/20 12:27:04	1.9633	3350.20	86.56	2241.34	103.50
44	2020/08/20 12:30:10	2.0150	3345.16	86.64	2256.69	103.38
3 BPM						
45	2020/08/20 12:31:49	2.0425	3360.15	87.04	2520.95	103.47
46	2020/08/20 12:33:16	2.0667	3360.40	87.24	2507.21	103.57
47	2020/08/20 12:36:22	2.1183	3360.64	87.55	2513.57	103.59
48	2020/08/20 12:39:28	2.1700	3360.50	87.71	2511.72	103.85
49	2020/08/20 12:42:34	2.2217	3360.33	87.80	2504.54	104.16
50	2020/08/20 12:45:40	2.2733	3359.71	87.89	2499.82	104.10
51	2020/08/20 12:48:46	2.3250	3359.51	87.96	2518.71	103.60
52	2020/08/20 12:51:52	2.3767	3359.16	88.02	2513.66	103.12
53	2020/08/20 12:54:58	2.4283	3358.38	88.07	2517.05	103.02
54	2020/08/20 12:58:04	2.4800	3358.06	88.12	2498.88	103.08
55	2020/08/20 13:01:10	2.5317	3357.60	88.17	2516.31	102.88
3.5 BPM						
56	2020/08/20 13:03:10	2.5650	3364.09	88.58	2702.93	102.69
57	2020/08/20 13:04:16	2.5833	3363.23	88.73	2783.29	102.62
58	2020/08/20 13:07:22	2.6350	3364.53	88.99	2780.69	102.62
59	2020/08/20 13:10:28	2.6867	3364.19	89.12	2778.64	102.14
60	2020/08/20 13:13:34	2.7383	3364.74	89.19	2768.91	101.85
61	2020/08/20 13:16:40	2.7900	3363.27	89.26	2790.70	101.71
62	2020/08/20 13:19:46	2.8417	3364.10	89.32	2769.79	101.70
63	2020/08/20 13:22:52	2.8933	3362.58	89.38	2769.57	101.63
64	2020/08/20 13:25:58	2.9450	3361.47	89.44	2770.71	101.34
65	2020/08/20 13:29:04	2.9967	3361.70	89.49	2773.69	101.31
4 BPM						
66	2020/08/20 13:31:40	3.0400	3371.87	90.18	3194.58	101.46
67	2020/08/20 13:32:10	3.0483	3372.45	90.28	3184.24	101.45
68	2020/08/20 13:35:16	3.1000	3370.77	90.63	3180.61	101.48
69	2020/08/20 13:38:22	3.1517	3371.75	90.74	3181.10	101.38
70	2020/08/20 13:41:28	3.2033	3370.81	90.81	3179.99	101.34
71	2020/08/20 13:44:34	3.2550	3370.72	90.87	3187.87	101.35
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						

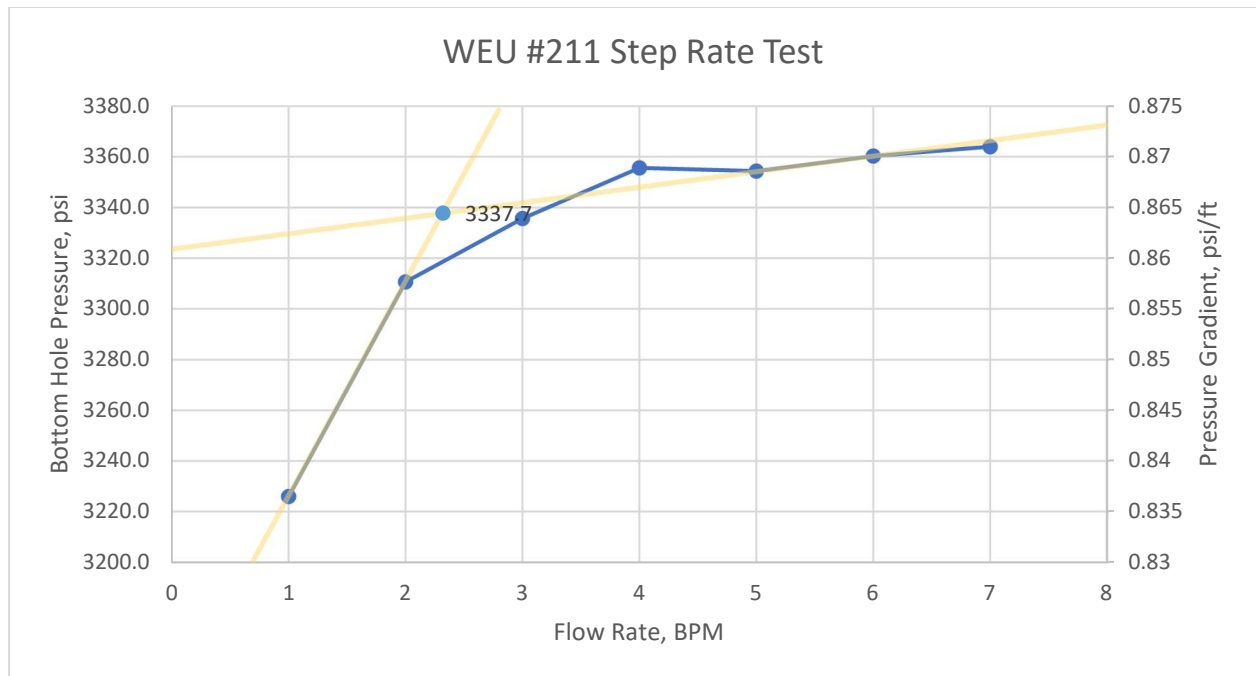
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#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
72	2020/08/20 13:47:40	3.3067	3369.94	90.93	3174.05	101.61
73	2020/08/20 13:50:46	3.3583	3371.61	90.98	3185.20	101.84
74	2020/08/20 13:53:52	3.4100	3369.86	91.03	3176.34	102.17
75	2020/08/20 13:56:58	3.4617	3370.88	91.08	3171.99	103.02
76	2020/08/20 14:00:04	3.5133	3371.95	91.11	3172.81	103.72
4.5 BPM						
77	2020/08/20 14:01:07	3.5308	3375.37	91.57	3172.64	103.98
78	2020/08/20 14:03:10	3.5650	3376.11	91.97	3552.88	104.52
79	2020/08/20 14:06:16	3.6167	3376.54	92.23	3545.04	105.54
80	2020/08/20 14:09:22	3.6683	3375.95	92.32	3547.24	106.15
81	2020/08/20 14:12:28	3.7200	3376.22	92.39	3538.57	106.57
82	2020/08/20 14:15:34	3.7717	3376.28	92.45	3550.42	105.69
83	2020/08/20 14:18:40	3.8233	3375.95	92.52	3553.80	104.36
84	2020/08/20 14:21:46	3.8750	3375.97	92.57	3551.02	104.34
85	2020/08/20 14:24:52	3.9267	3375.87	92.62	3549.13	105.56
86	2020/08/20 14:27:58	3.9783	3375.66	92.66	3550.36	106.99
87	2020/08/20 14:31:04	4.0300	3381.02	93.24	3558.17	108.09
5 BPM						
88	2020/08/20 14:31:12	4.0322	3380.85	93.28	3647.21	108.16
89	2020/08/20 14:34:10	4.0817	3381.67	93.74	3949.80	108.83
90	2020/08/20 14:37:16	4.1333	3382.47	93.88	3949.54	109.52
91	2020/08/20 14:40:22	4.1850	3381.88	93.96	3964.34	110.01
92	2020/08/20 14:43:28	4.2367	3380.82	94.04	3966.63	110.24
93	2020/08/20 14:46:34	4.2883	3382.22	94.09	3952.70	109.80
94	2020/08/20 14:49:40	4.3400	3380.81	94.14	3947.16	110.29
95	2020/08/20 14:52:46	4.3917	3380.56	94.25	3983.02	111.09
96	2020/08/20 14:55:52	4.4433	3381.26	94.29	3978.02	111.43
97	2020/08/20 14:58:58	4.4950	3381.01	94.33	3974.05	111.50
5.5 BPM						
98	2020/08/20 15:00:58	4.5283	3390.96	95.45	4265.28	112.01
99	2020/08/20 15:02:04	4.5467	3391.09	95.74	4602.60	112.18
100	2020/08/20 15:05:10	4.5983	3392.42	96.03	4582.19	112.94
101	2020/08/20 15:08:16	4.6500	3391.11	96.11	4579.42	112.58
102	2020/08/20 15:11:22	4.7017	3390.89	96.17	4577.28	112.03
103	2020/08/20 15:14:28	4.7533	3391.29	96.13	4550.67	112.11
104	2020/08/20 15:17:34	4.8050	3391.21	96.17	4545.40	112.07
105	2020/08/20 15:20:40	4.8567	3390.34	96.23	4537.49	111.99
106	2020/08/20 15:23:46	4.9083	3390.61	96.27	4525.39	111.66
107	2020/08/20 15:26:52	4.9600	3391.10	96.31	4534.89	111.91
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						



Linear ( V6N\_ , WB2\_ )



Tech Examiner McClure's work



Rate (BPD)	0	1	2	3	4	5	6	7
	2650	3209	3309	3335	3356	3355	3362	3364
	2625	3228	3311	3336	3355	3354	3360	
		3241	3312	3336	3356	3354	3359	
avg BHP(psi)	2637.5	3226.0	3310.7	3335.7	3355.7	3354.3	3360.3	3364.0

$$MSIP = BHFP - \left[ 0.433 \frac{\text{psi}}{\text{ft}} * SG * Depth \right] - SF$$

$$1560 \text{ psi} \cong 3337.7 \text{ psi} - \left[ 0.433 \frac{\text{psi}}{\text{ft}} * 1.05 * 3800 \text{ ft} \right] - 50 \text{ psi}$$

MSIP = Maximum Surface Injection Pressure in psi

BHFP = Bottom Hole Fracture Pressure in psi

SG = Specific Gravity

Depth = Depth to top perf in ft

SF = Safety Factor in psi

# WEU #211

1185' FNL, 1345' FEL, Sec 02

T21S, R35E Lea Co., NM

Eumont Field completion Date: 03/21/2018

KB 12'

API # 30 025 44207

Status: Active – INJECTION  
R-14616

## WELL HISTORY

- 3/17/2018: D&C; Perf:4145-4332' (6 SPF) ; Set CIBP @ 4308'
- 5/2018: Perf: 3800-3910' (4 SPF)
- 9/2018: Perf: 4051-4130'
- 4/2019: Injection Profile (only 20-30% going in main pay)
- 3/2020: IPI Order Pressure to 1560 psi
- 8/2020: Set CIBP @ 4100'
- 9/2020: Injection profile (60% going in main pay)

8 5/8" 24# @ 1573" w/ 850 sx. Circ.

## TBG RAN AS FOLLOWS

KB TO TOP OF TBG	8.00'
116 JTS 2 3/8" IPC	3755.64'
ASIX PKR 5.5" X 2 3/8"	7.40'
PKR SET	3771.04'

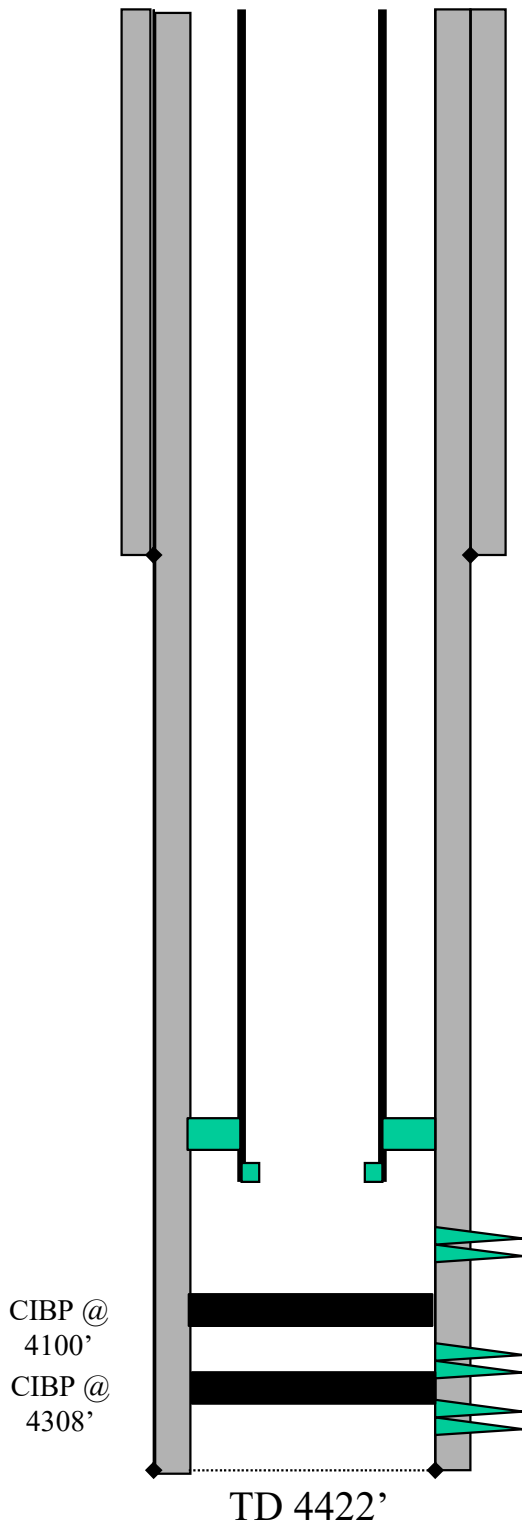
3800-3811', 3878-3896', 3904-3910' (4 JSPF)

4051-4054', 4059-4063', 4070-4072', 4076-4084', 4087-4089'

4109-4111', 4118-4120', 4127-4130' [ISOLATED]

4145-4159', 4318-4332 (6 SPF) [ISOLATED]

5 1/2" 15.5# @ 4466' w/ 360 sx, Circ



Current

09/14/2023



**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
DIVISION TO CONSIDER:**

**APPLICATION OF FORTY ACRES ENERGY, LLC FOR APPROVAL OF A  
SECONDARY RECOVERY PROJECT AND TO QUALIFY THE PROJECT FOR  
THE RECOVERED OIL TAX RATE, LEA COUNTY, NEW MEXICO**

**CASE NO. 15793  
ORDER NO. R-14616**

**ORDER OF THE DIVISION**

**BY THE DIVISION:**

This case came on for hearing at 8:15 a.m. on September 14, 2017 at Santa Fe, New Mexico before Examiner William V. Jones.

NOW, on this 2<sup>nd</sup> day of April, 2018, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

**FINDS THAT:**

(1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.

(2) For purposes of hearing, this case was consolidated with Case No. 15792, *Application of Forty Acres Energy, LLC for statutory unitization, Lea County, New Mexico*. A separate order is being entered in Case No. 15792.

(3) Forty Acres Energy, LLC ("Forty Acres" or "Applicant"), seeks approval to install a secondary recovery (waterflood) project within its proposed West Eumont Unit and to qualify the project for the Recovered Oil Tax Rate.

(4) Applicant is a working interest owner in the proposed West Eumont Unit which covers the following described 7977.30 acres (more or less) of federal, state, and fee lands in Lea County, New Mexico:

**Township 20 South, Range 36 East, NMPM**

Section 21: S/2  
Section 22: NE/4 and S/2

Cases No. 15793  
 Order No. R-14616  
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Sections 26-28: All  
 Section 29: NE/4  
 Section 32: E/2  
 Sections 33-35: All

**Township 21 South, Range 35 East, NMPM**

Section 1: Lots 3-6 and 11-14, and SW/4 (W/2 Equivalent)  
 Section 2: Lots 1-16 and S/2 (All)  
 Section 3: Lots 1-16 and S/2 (All)  
 Section 11: N/2  
 Section 12: NW/4

(5) Applicant will be the operator of the Unit and proposes to institute a secondary recovery project in the Unit Area.

(6) Laurel Seth and Sandy Seth, COG Operating LLC, SCR Energy Capital, LLC, Big Al Oil & Gas, ConocoPhillips Company, and OXY USA, Inc. all entered appearances in this case but were not present at the hearing. Bradley McInroe with Big Al Oil & Gas sent a letter asking to appear and present in the cases but was not present at the hearing. No other party appeared or otherwise opposed this application.

(7) Applicant intends to begin injection into the following seven wells (the "Proposed Wells"). All injection wells within the Unit are anticipated to be new drills.

**The following three wells will be in T20S, R36E, NMPM**

WEU 2600-W,	30-025-Pending,	10' FSL, 2660' FEL,	Unit N, Sec 26
WEU 35BB-W,	30-025-Pending,	1330' FNL, 2630' FEL,	Unit G, Sec 35
WEU 35GG-W,	30-025-Pending,	2470' FSL, 2630' FEL,	Unit J, Sec 35

**The following four wells are in Irregular Section 2, T21S, R35E, NMPM**

West Eumont Unit Well No. 211, 30-025-44207, 1185' FNL, 1345' FEL, Lot 2/Unit B  
 West Eumont Unit Well No. 212, 30-025-44208, 1185' FNL, 2580' FEL, Lot 2/Unit B  
 West Eumont Unit Well No. 213, 30-025-44209, 2330' FNL, 2620' FEL, Lot 7/Unit B  
 West Eumont Unit Well No. 214, 30-025-44210, 2485' FNL, 1335' FEL, Lot 7/Unit B

(8) Each of the Proposed Wells will have 8-5/8-inch surface casing set to 1650 feet and cemented with cement to surface. Then, 5-1/2-inch casing will be set to approximately 4100 feet and circulated with cement to surface. The wells will be selectively perforated for injection from approximately 3800 feet to 4100 feet. For reference, the Unitized Formation extends from the top of the Yates formation at approximately 3100 feet, to a lower limit at the base of the Queen formation at approximately 4200 feet.

(9) Applicant appeared at the hearing through counsel and presented the following geological testimony:

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Order No. R-14616  
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- (a) Applicant is interested in multiple producing intervals for waterflooding within the Yates, Seven Rivers, and Queen formations of the Eumont; Yates-7 Rvrs-Queen Pool [Pool Codes 22800 (oil) and 76480 (gas)].
- (b) The gross thickness of the unit is 1200 feet and all within the bounds of the established Eumont Pool. The lower Yates sand, the Bowers sand within the Seven Rivers, and the Penrose member of the Queen are all targets. All three main targets are continuous across the Unit area and considered prospective for waterflooding.
- (c) The Unit is in the back-reef area, so there are sands and dolomitic sands interbedded with tighter dolomites and anhydrites. The similar looking Queen formation disappears one or two miles to the east as the Goat Seep reef complex takes over. The Yates and Seven Rivers formations extend much further to the east before transitioning into the Capitan Reef complex.
- (d) The lower Yates formation climbs to shallower depths from west to east across the Unit area and becomes increasingly gassy. The facies become thinner to the southwest.
- (e) The proposed Unit is bounded nearby to the east by a Grayburg-San Andres formation waterflood. There is a Queen formation waterflood to the north. The Cooper-Jal waterflood to the south is within the proposed formations.
- (f) The Tansill, Salado, and Rustler formations overlie the Unitized formations. The Salado is approximately 150 feet above the top of the Yates formation. The upper Yates formation is tight and considered a barrier to upward migration of waters and is therefore expected to protect the Salado formation.
- (g) The fresh water Ogallala and Dockum aquifers overlie the Unit Area, and are found at depths of 40 to 250 feet, respectively, below the surface.
- (h) There are no apparent faults connecting the unitized interval to the Ogallala or any other fresh water bearing formation.
- (i) The electric logs are generally of the older variety and were located through several sources including the Division's web site. The injection wells will be new drills and will have the newer logs. The log for the type well is not available on the web site, but is being presented by the Applicant in the Unit Agreement.

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(10) Applicant presented the following engineering testimony:

- (a) Based on work by a third-party engineering firm and on analogy of other waterfloods with one injector and one producer per forty acres, Applicant expects a secondary to primary ultimate oil recovery ratio of one and one half to one. The ultimate primary recovery is expected to be 12 million barrels and ultimate secondary recovery is expected to be 18 million barrels.
- (b) The Eumont Pool is a solution-gas-drive reservoir and is in an advanced state of decline with many plugged and abandoned wells and an average cumulative oil recovery of 80,000 barrels per well. There have been 140 wells drilled within the proposed Unit area, and currently there remain 52 active wells. Applicant has spent money on older wells and has raised production within the Unit area to approximately 80 barrels of oil per day.
- (c) Applicant intends to begin with pilot projects, drill all new wells for injection and effectively down-space to 40-acre 5-spots (20-acre well density).
- (d) Within the proposed Unit, the reservoir is in an advanced state of depletion. Initially Applicant expects the injection wells to take on average 350 to 400 barrels of make-up water per day on a vacuum for longer than one year. The voidage calculation is difficult because of the lack of definitive porosity data. The make-up water will be from some of the same formations and has been tested and is compatible with *in situ* reservoir waters.
- (e) The revenue from the project is expected to exceed the costs plus a reasonable profit. The waterflood is expected to increase production in existing wells, and those wells should qualify for the recovered oil tax rate.
- (f) Applicant proposes initially to use seven wells for injection and begin injection in the deeper prospective intervals. Within one-half mile of those seven proposed wells are 14 plugged and abandoned and 33 non-plugged wells. All Area of Review wells have casing and cement in place which adequately isolates the proposed waterflood interval.
- (g) All fresh water wells have been identified within two miles of the proposed injection wells. There are no wells within one-half mile.
- (h) The proposed secondary recovery operation is economically and technically feasible.



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Order No. R-14616  
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(11) Applicant has notified the other working interest owners within the West Eumont Unit and all parties affected by injection into the Proposed Wells and received no objections.

(12) The proposal to install a secondary recovery (waterflood) project within the West Eumont Unit is feasible and should result in the recovery of additional oil and gas that would not otherwise be recovered.

(13) The proposed project will prevent waste, protect correlative rights, and should be approved and called the West Eumont Unit Secondary Recovery Project. The area to be affected by these operations (the project area) should consist of the entire West Eumont Unit area.

(14) At this date, Forty Acres Energy, LLC (OGRID 371416) is in compliance with Division Rule 19.15.5.9 NMAC and therefore is eligible for approval of injection permits.

(15) The Proposed Wells should be approved for use as injection wells within the Unit at the depths and with the casing and tubing proposed in the application.

(16) Provisions should be made for the operator of the Unit to apply administratively for approval of additional injection at the proposed depths (approximately 3800 feet to 4100 feet) specified in its application into water injection wells. The injection pressure limit ("MSIP") for the wells in this waterflood project should be set initially at **760 psi** which is a gradient of 0.2 psi/foot above the 3800-foot proposed injection interval.

(17) Any existing salt water disposal wells disposing into the unitized interval within the Unit shall be considered as part of the waterflood and shall have the well types changed to water injection by submittal of the operator of forms C-103 and C-108 to the Santa Fe office of the Division.

(18) Approval of this project should include a requirement to work with District personnel as to frequency of MIT testing and providing charts of annulus and tubing pressures and rates obtained from the automation system.

(19) This application for this secondary recovery project has not been prematurely filed for economic or technical reasons, and the area to be affected has been so depleted that it is prudent to apply enhanced recovery techniques to maximize the ultimate recovery of crude oil from the unit area.

(20) Forty Acres presented exhibits containing the information required by Division rules to qualify this project under the Enhanced Oil Recovery Act.

(21) The evidence establishes that the project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery (EOR) Project"

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pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5). The certified project area should consist of the entire West Eumont Unit area.

(22) The EOR project area and/or the producing wells within this area eligible for the recovered oil tax rate may be contracted or expanded depending upon the evidence presented by the applicant in its demonstration of the occurrence of a positive production response.

**IT IS THEREFORE ORDERED THAT:**

(1) Forty Acres Energy, LLC ("Operator") [OGRID 371416] is hereby authorized to implement secondary recovery operations within the West Eumont Unit, described in Finding Paragraph No. (4), by injection of water into the Yates, Seven Rivers, and Queen formations, Eumont; Yates-7 Rvrs-Queen Pool [Pool Codes 22800 (oil) and 76480 (gas)].

(2) The West Eumont Unit Secondary Recovery Project is hereby approved and shall consist of the entire West Eumont Unit and shall be contained vertically within that Unitized interval.

(3) The seven Proposed Wells as detailed in the Findings Paragraph No. (7) of this order are approved for use as injection wells at approximate depths of 3800 feet to 4100 feet and with tubulars as proposed in the application. The injection authority for the three Proposed Wells that have not yet been permitted for drilling shall expire within one year of the date of this order if not permitted for drilling at that date.

(4) The Division Director may administratively authorize additional injection wells within this Unit after proper notice and opportunity for hearing as provided in 19.15.26.8 NMAC with the provision that all injection wells shall conform to the following requirements and the operator is in compliance with Division Rule 19.15.5.9 NMAC.

(5) Any previously approved salt water disposal wells within this project and within any portions of the vertical limits of the Unit shall have the well type(s) changed from salt water disposal to water injection. The operator shall address these well type changes within one year of the date of this order by submittal of form C-108 to the Santa Fe office of the Division.

(6) Water injection in this project is allowed only through perforations in casing and not into an open hole interval. Injection shall be through plastic lined tubing no larger in outside diameter than 2-7/8 inch, set into a packer set no further than 100 feet of the top of each respective injection interval.

(7) The operator shall take all steps necessary to ensure that the injected fluids enter only the permitted injection intervals and are not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

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Order No. R-14616  
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(8) The casing-tubing annulus shall be filled with an inert fluid, and a gauge or approved leak-detection device shall be attached to the annulus to detect any leakage in the casing, tubing, or packer.

(9) Each injection well or the connected injection system shall be equipped with a pressure control device or acceptable substitute that will limit the maximum surface injection pressure on all wells to 760 psi.

(10) The Division Director may administratively authorize a pressure limitation in excess of the above, upon a showing supported by approved Step Rate Tests that such higher pressure will not result in the fracturing of the injection formation or confining strata or damage to the reservoir.

(11) As per Division Rule 19.15.26.11A NMAC, the operator shall test any injection well on this project for mechanical integrity ("MIT") prior to commencing injection into that well and prior to resuming injection each time the packer is unseated. All MIT testing procedures and schedules shall follow the requirements in Division Rule 19.15.26.11A. NMAC or with added provisions as may be required by the District office of the Division, such as continuous data gathering of tubing and casing pressures, temperatures, and injection rates. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths in any injection well.

(12) The operator shall provide notice, 72 hours in advance, to the supervisor of the Division's district office of the date and time of the installation of injection equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

(13) The operator shall provide written notice of the date of commencement of injection to the Division's district office. In accordance with Division rules, the operator shall submit monthly reports of the disposal operations on Division Form C-115.

(14) Without limitation on the duties of the operator as provided in Division rules, or otherwise, the operator shall immediately notify the Division's district office of any failure of the tubing, casing or packer in the well, or of any leakage or release of water, oil or gas from around any produced or plugged and abandoned well in the area, and shall take such measures as may be timely and necessary to correct such failure or leakage.

(15) The West Eumont Unit Secondary Recovery Project is hereby certified to the New Mexico Taxation and Revenue Department as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act" (NMSA 1978 Sections 7-29A-1 through 7-29A-5).

(16) The area to be affected by the enhanced oil recovery project shall consist of the area within the West Eumont Unit; provided, the area and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted or expanded based upon the evidence presented by the unit operator in its demonstration of a positive production response.

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Order No. R-14616  
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(17) At such time as a positive production response occurs, and within five years from the date the project was certified to the New Mexico Taxation and Revenue Department, the unit operator must apply to the Division for certification of a "positive production response." This application for "positive production response" shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate.

(18) The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate.

(19) The injection authority granted under this order is not transferable except upon Division approval. The Division may require the operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

(20) The Division may revoke any injection permit after notice and hearing if the operator is in violation of 19.15.5.9 NMAC.

(21) The injection authority granted herein shall terminate two years after the effective date of this order if the operator has not commenced injection operations into at least one injection well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good cause.

(22) One year after all timely reported water injection into the West Eumont Unit has ceased, the Division shall consider the project abandoned, and the authority to inject will terminate *ipso facto*. The Division, upon written request mailed by the operator prior to that termination date, may grant an extension thereof for good cause.

(23) The operator of the West Eumont Unit shall appear before the Division in the year 2022 (five years from the order date) and update the Division on the progress, production results, and expected plans of this waterflood. The progress report shall include an engineering analysis of the state of the waterflood.

(24) Compliance with this order does not relieve the operator of the obligation to comply with other applicable federal, state or local laws or rules, or to exercise due care for the protection of fresh water, public health and safety and the environment.

(25) Jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh or protectable waters or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing (or without prior notice and hearing in case of emergency), terminate the injection authority granted herein.



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Order No. R-14616  
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DONE in Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

*Heather Riley*

HEATHER RILEY  
Director

SEAL



**Jessica LaMarro**

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**From:** Vanessa Neal  
**Sent:** Tuesday, November 7, 2023 2:26 PM  
**To:** Jessica LaMarro  
**Subject:** FW: [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

Jess,

Can you do this?

Vanessa Neal | Sr Reservoir Engineer

**forty acres energy**

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

C [979.255.3476](tel:979.255.3476)

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**From:** McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>  
**Sent:** Tuesday, November 7, 2023 1:59 PM  
**To:** Vanessa Neal <vanessa@faenergyus.com>  
**Subject:** RE: [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

Vanessa,

Please provide to the engineering email an application to amend Order IPI-523-A. Included should be a brief explanation regarding the reason for the submittal and a corrected version of all of the documents submitted with the original document. I think the primary thing that will need corrected besides the summary is the cross section because it is showing the incorrect interval being open, but you will want to double check the packet.

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

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**From:** McClure, Dean, EMNRD  
**Sent:** Tuesday, October 31, 2023 9:49 AM  
**To:** Vanessa Neal <[vanessa@faenergyus.com](mailto:vanessa@faenergyus.com)>  
**Subject:** RE: [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

Thank you; that addresses some concerns in that the SRT tested the currently open perforations. Having said that, the IPI is explicit in the approved perf range as I have referenced below. I'm touching base with UIC to see how they wish to address this.

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



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**From:** Vanessa Neal <[vanessa@faenergyus.com](mailto:vanessa@faenergyus.com)>  
**Sent:** Tuesday, October 31, 2023 9:32 AM  
**To:** McClure, Dean, EMNRD <[Dean.McClure@emnrd.nm.gov](mailto:Dean.McClure@emnrd.nm.gov)>  
**Subject:** RE: [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

Hi Dean,

I went back and re-read all the morning reports to double check the timeline, below is my understanding of the well's history.

- **2018-03:** Well D&C, perf & test 4145-4332', Set CIBP @ 4308'
- **2018-05:** Set CIBP @ 4118', perf & test 3800-3910'
- **2018-09:** Tag CIBP @ 4145', reperf 3800-3811' & add perfs 4052-4130'
- **2019-04:** Acidize open perfs 3800-4130'
- **2020-01:** SRT performed, open perfs 3800-4130'
- **2020-03:** Approval of pressure increase (IPI-523)
- **2020-08:** SRT performed, open perfs 3800-4130'; Set CIBP @ 4100', open perfs 3800-4089'
- **2020-11:** Approval of pressure increase (IPI-523A)

I don't have a record of FAE doing work on the well after the second SRT and setting the CIBP @ 4100'.

Vanessa Neal | Sr Reservoir Engineer

**forty acres energy**

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

C [979.255.3476](tel:979.255.3476)

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**From:** McClure, Dean, EMNRD <[Dean.McClure@emnrd.nm.gov](mailto:Dean.McClure@emnrd.nm.gov)>  
**Sent:** Tuesday, October 31, 2023 9:06 AM  
**To:** Vanessa Neal <[vanessa@faenergyus.com](mailto:vanessa@faenergyus.com)>  
**Subject:** RE: [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

Hello Vanessa,

The SRT and CIBP at 4100 were not both done in August of 2020?

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

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**From:** Vanessa Neal <[vanessa@faenergyus.com](mailto:vanessa@faenergyus.com)>  
**Sent:** Monday, October 30, 2023 9:27 AM  
**To:** McClure, Dean, EMNRD <[Dean.McClure@emnrd.nm.gov](mailto:Dean.McClure@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] RE: 30-025-44207 WEST EUMONT UNIT #211

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

Looking through the well history, it appears the SRT was performed when the WEU 211 had perfs open from 3800-4159'. Several months after the SRT, a CIBP was set @ 4100'.



Currently the WEU 211's open injection interval is 3800-4089'.

Vanessa Neal | Sr Reservoir Engineer

**forty acres energy**

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

C [979.255.3476](tel:979.255.3476)

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**From:** McClure, Dean, EMNRD <[Dean.McClure@emnrd.nm.gov](mailto:Dean.McClure@emnrd.nm.gov)>

**Sent:** Friday, October 27, 2023 12:08 PM

**To:** Vanessa Neal <[vanessa@faenergyus.com](mailto:vanessa@faenergyus.com)>

**Subject:** 30-025-44207 WEST EUMONT UNIT #211

Vanessa,

The summary and supporting documentation submitted in the application packet for IPI-523 and IPI-523-A depicts the open perforations for the 30-025-44207 WEST EUMONT UNIT #211 as being 3800 to 3910 which is the injection interval in which FAE was approved to inject in at a higher than 0.2/ft MASP. However, FAE's more recent submissions indicate that the open perforations for this well are 3800 to 4089.

Please confirm for me the following:

- What injection interval was open to the SRT used for IPI-523?
- What is the currently open injection interval for this well?

Dean McClure

Petroleum Engineer, Oil Conservation Division

New Mexico Energy, Minerals and Natural Resources Department

(505) 469-8211

Revised March 23, 2017

RECEIVED: 11/9/20	REVIEWER: DM	TYPE: IPI	APP NO: pDM2007943861
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Geological & 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

**Applicant:** Forty Acres Energy **OGRID Number:** 371416  
**Well Name:** West Eumont Unit #211 **API:** 30-025-44207  
**Pool:** Eumont, Yates-Seven Rivers-Queen **Pool Code:** 22800

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED BELOW**

**1) TYPE OF APPLICATION:** Check those which apply for [A]

A. Location – Spacing Unit – Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling – Storage – Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection – Disposal – Pressure Increase – Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☒ IPI ☐ EOR ☐ PPR

**2) NOTIFICATION REQUIRED TO:** Check those which apply.

- A. ☒ Offset operators or lease holders  
B. ☒ Royalty, overriding royalty owners, revenue owners  
C. ☒ Application requires published notice  
D. ☒ Notification and/or concurrent approval by SLO  
E. ☒ Notification and/or concurrent approval by BLM  
F. ☒ Surface owner  
G. ☒ For all of the above, proof of notification or publication is attached, and/or,  
H. ☒ No notice required

**FOR OCD ONLY**

- ☐ Notice Complete  
☐ Application Content Complete

**3) 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.

Garret Johnson

Print or Type Name

Signature

September 3, 2020

Date

918-697-8311

Phone Number

Garret@faenergyus.com

e-mail Address

# forty acres energy

September 3, 2020

Energy Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis drive  
Santa Fe, New Mexico 87505

Attention: Mr. Dean McClure  
Petroleum Specialist

Re: Injection Pressure Increase Application  
Forty Acres Energy, LLC  
West Eumont Unit #211  
Pool: Yates-& 7 Rivers  
Lea County, New Mexico

Dear Mr. McClure,

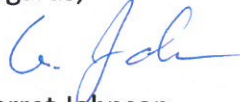
Forty Acres Energy, LLC ("Forty Acres"; OGRID No. 371416), as current operator of the Wes Eumont Unit Waterflood Project, hereby requests administrative approval to increase the surface injection pressure for the West Eumont Unit #211, API # 30-025-44207. (WEU #211)

On August 17th, 2020, Forty Acres conducted a step rate injection test on the WEU #211. The performed step rate test indicates a surface fracture pressure of 1825 psi. Attached for your review is the Capitan Wireline report of the step rate test performed on the WEU #211. Based on the results of the step rate test, Forty Acres, hereby requests authority to increase maximum surface injection pressure of 1825 psi for the WEU #211.

In addition to increasing injection pressure of the WEU #211, Forty Acres is requesting that the step rate test performed on the WEU #211 will effectively represent surface fracture pressure for the adjacent injection wells in the area: West Eumont Unit #212 (API # 30-025-44208), West Eumont Unit #213 (API # 30-025-44209), West Eumont Unit #214 (API # 30-025-44210), West Eumont Unit #218 (API # 30-025-45484), and the West Eumont Unit #219 (30-025-46679). The aforementioned wells will not take a sufficient volume of fluid at the current pressure limit and the approval of the proposed pressure increase will allow Forty Acres to conduct secondary recovery operations in a more efficient manner.

Please feel free to reach out with any questions of concerns.

Regards,

  
Garret Johnson  
Operations Engineer

## WEU #211

1185' FNL, 1345' FEL, Sec 02

T21S, R35E Lea Co., NM

Eumont Field completion Date: 03/21/2018

KB 12'

API # 30 025 44207

Status: Active

Last noted pull 9/14/2006

8 5/8" 24# @ 1573" w/ 850 sx. Circ.

## TBG RAN AS FOLLOWS

KB TO TOP OF TBG	8.00'
116 JTS 2 3/8" IPC	3755.64'
ASIX PKR 5.5" X 2 3/8"	7.40'
PKR SET	3771.04'

CIBP @ 4118'

•PERFS 3800-3811', 3878 - 3896' &amp; 3904' - 3910' 4 JSPF

•PERFS FROM 4145' - 4159' 6 JSPF

•PERFS FROM 4318' - 32' 4 JSPF

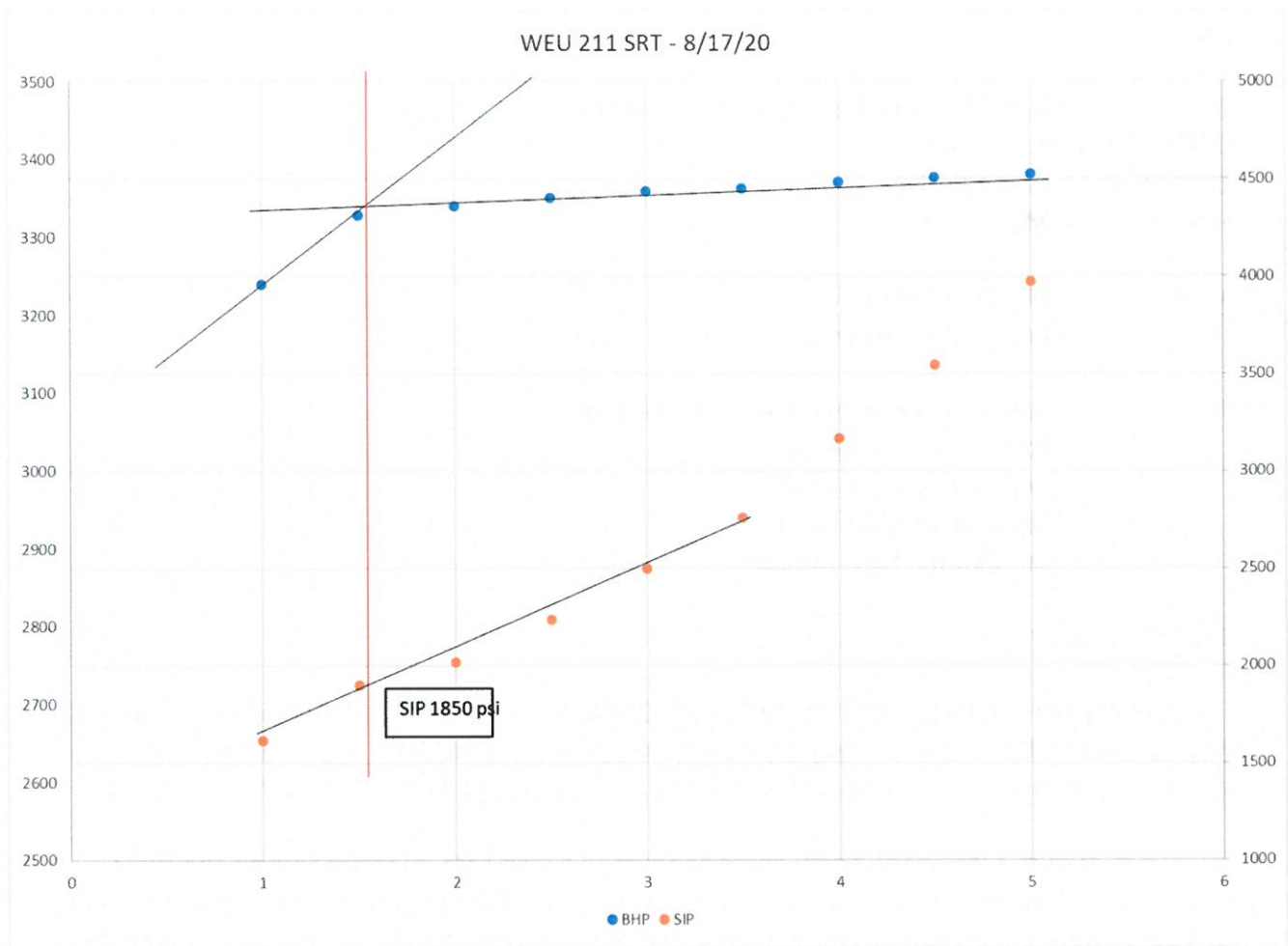
TD 4422'

5 1/2" 15.5# @ 4466' w/ 360 sx, Circ

Current

04/25/2019





2239 S Main Street  
Lovington, New Mexico 88260  
Office# (575)396-9702  
Fax # (575)396-9700

• ACID SERVICES

## Acid Field Invoice:

6746

Date of Job	8/20/2020	District:	Lovington	New Well:	<input type="checkbox"/>	Old Well:	<input type="checkbox"/> xx
Customer:	FORTY ACRES			Well #:	211	Lease:	WEU
Address:				County/ Parrish	LEA	State:	NM
City:				Field:			
Zip Code:				API#:			
Contact Person/Company man:	JAMES MARTINEZ			Salesman:	Mike White		
Contact Number:				Service Supervisor:	LEO SANDOVAL		
Rig Contractor:				Tractor:	Trailer:	Equipment Operators:	
Rig Number:				T1076	AP4001	ALEX HERNANDEZ 15	
Head & Manifold				Sup		JOSE SANDOVAL	
				Sup		LEO SANDOVAL	
<b>STEP RATE</b>							
Gals.	<b>Acid System</b>						
	STEP RATE						

Description	Quantity	Cost per Unit	Unit cost after Discount	List of Price of Services	Discounted Price of Services
<b>Acid Pumping Charges</b>					
Acid Pump 5,001-7,500	1	3,000.0000	\$1,500.0000	\$3,000.0000	\$1,500.0000
Acid Pump Additional Hours	4	500.0000	\$250.0000	\$2,000.0000	\$1,000.0000
Acid Pump Truck Mileage	50	\$6.5000	\$3.2500	\$325.0000	\$162.5000
Acid Treating Van Mileage	50	\$4.5000	\$2.2500	\$225.0000	\$112.5000
<b>Job Monitoring</b>					
Acid Treating Van	1	\$700.0000	\$350.0000	\$700.0000	\$350.0000
<b>Enviromental Charges</b>					
Enviromental Charge	1	\$125.0000	\$62.5000	\$125.0000	\$62.5000
<b>Miscellaneous Equipment Services</b>					
Valve & Swedge Rental 2"	1	\$300.0000	\$150.0000	\$300.0000	\$150.0000
<b>Field Personnel Charges</b>					
Acid Charges					
Blended Acid Systems					
Diversers					
Acidizing Materials					

<b>Price Book Total</b>	\$6,675.00
<b>Discount 50%</b>	\$3,337.50
<b>Job Total</b>	\$3,337.50

CONTRACT CONDITIONS: (This agreement must be signed before work is commenced).

The undersigned, as authorized agent of the customer, agrees and acknowledges that the services, materials, products and supplies provided for in this order shall be subject to the terms and conditions attached Including indemnty and waiver of warranty provisions. No additional terms and conditions shall apply to this order.

Signed: X

Well Owner, Operator, or Agent

Terms-Net

Payable on Receipt

Over 30 Days, Discount Voids

Supervisor: LEO SANDOVAL



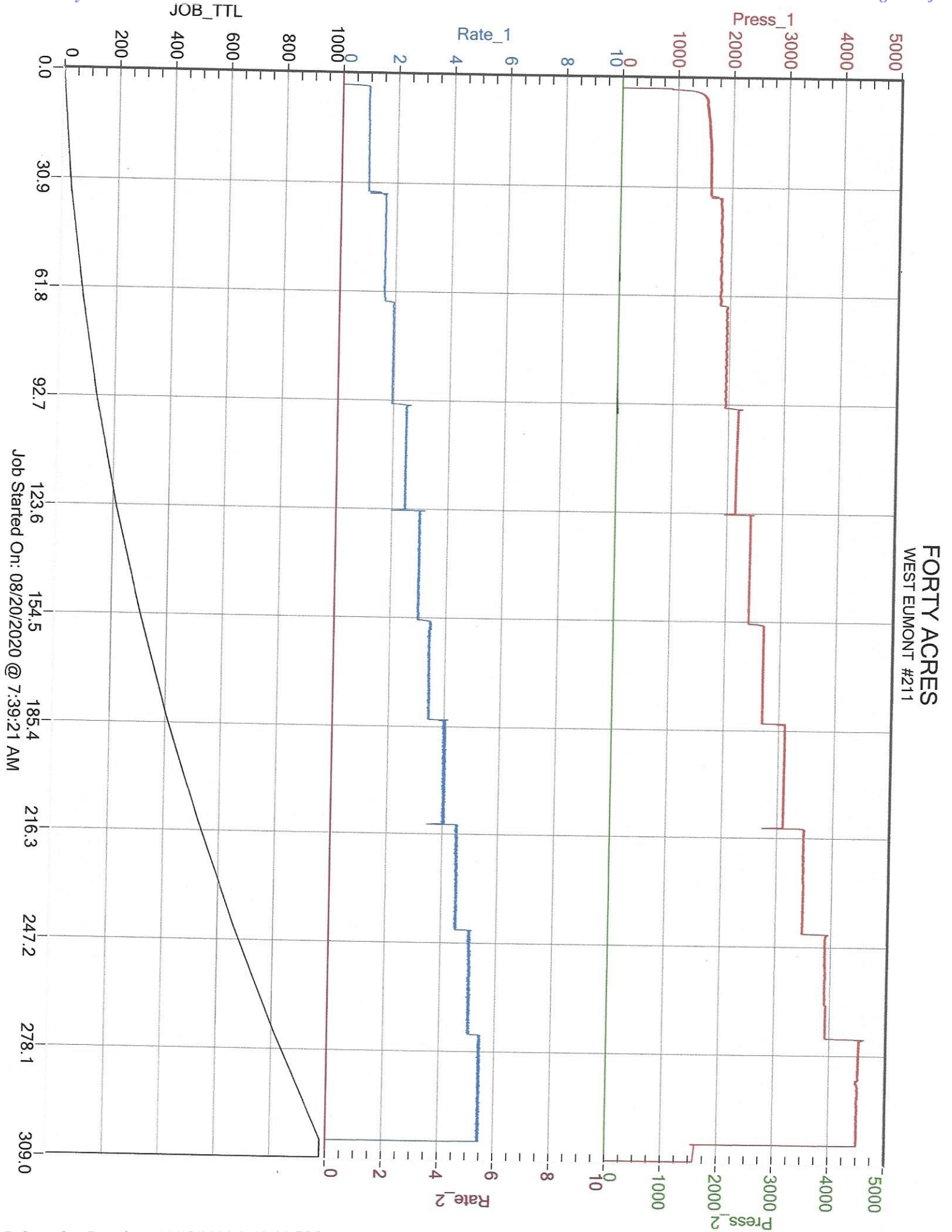
## Job Log

## Acid Systems

**Job Log Remarks:**ISIP=1609 // 5=1581

LEO SANDOVAL

X





Date:	8/20/2020	Time:	6:30 AM	Job #	6746
Meeting Facilitator:	LEO SANDOVAL			Meeting Location:	Pickup Tailgate
Work To Be Performed:	STEP RATE			Lease Name:	WEU Well No.: 211

Minimum Standard PPE Required

Personal Identification & Safety Briefing		
	Covered	N/A
Hand Protection:	X	
Respirator:		X
Appropriate Eyewear:	X	
Personal H2S Monitor:	X	
Fall Protection:	X	
Safety Toed Boots:	X	
Hearing Protection:	X	
Goggles/Faceshield:		X
Hard Hat:	X	

Personal Identification & Safety Briefing		
	Covered	N/A
Electrical Current	X	
Trapped Pressure	X	
Hazardous Substances	X	
Falling From Heights	X	
Heavy Lifting	X	
Slip, Trips, Falls	X	
Extreme Weather		X
Lifting Equipment	X	
Position of People	X	

Personal Identification & Safety Briefing		
	Covered	N/A
Noise Levels	X	
Pinch Points	X	
Sharp Edges	X	
Suspended Loads	X	
Hazardous Atmosphere	X	
Insects / Snakes	X	
Mechanical Integrity	X	
Towing Equipment	X	
Overhead Hazards	X	

Meeting Area \_\_\_\_\_  
Communication Area \_\_\_\_\_  
Head Count \_\_\_\_\_

## MAX PRESSURE 4500 PSI

MAX PRESSURE	4500	PSI
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BE ALERT - USE BUDDY SYSTEM- STAY CLEAR OF PUMP & LINES- RELEASE PSI BEFORE HAMMERING

### RIG DOWN USING BUDDY SYSTEM

[illegible]



## PRESSURE SURVEY REPORT

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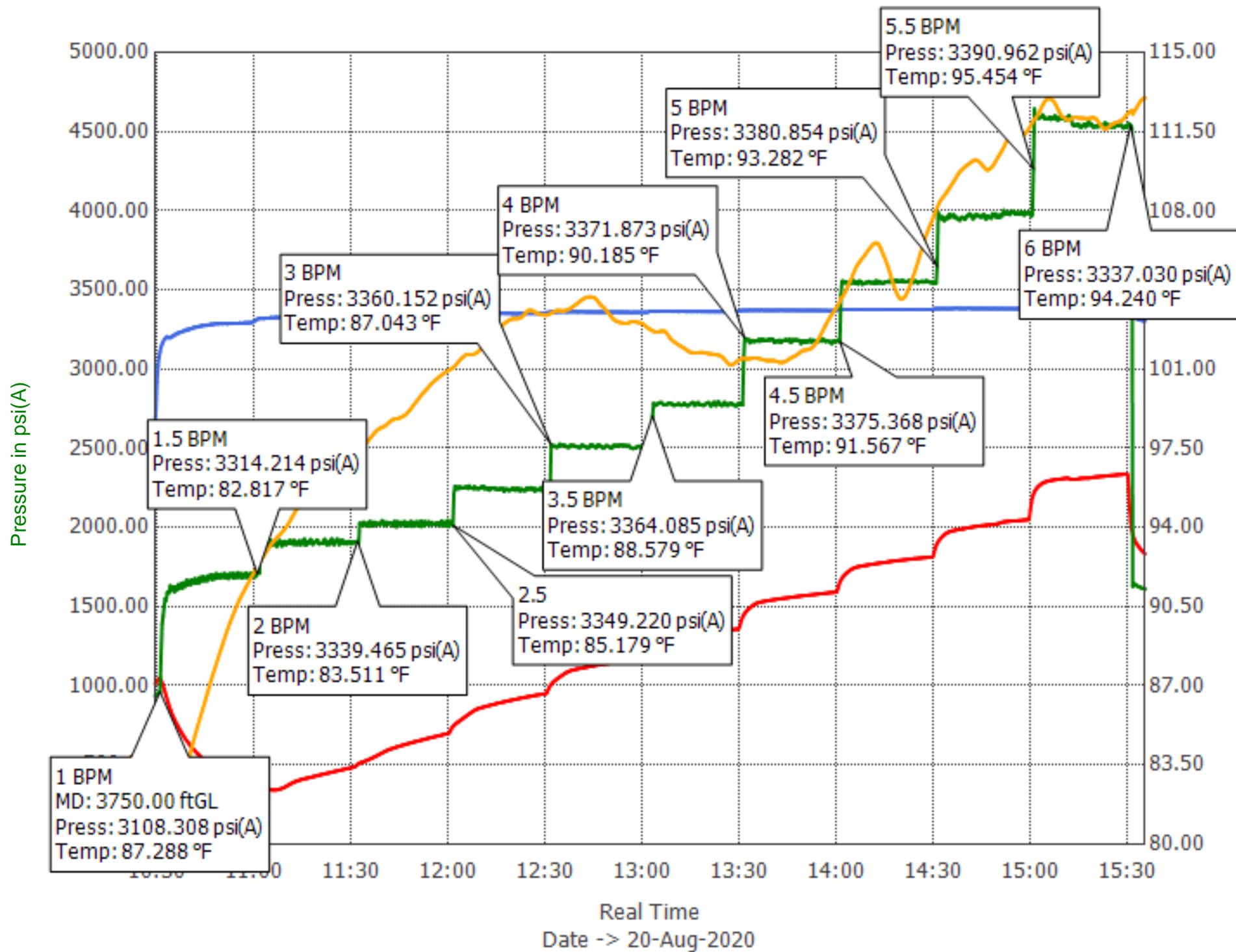
### *Linear Data*

Forty Acres Energy, LLC				West Eumont 211		
Start Test Date: 20-Aug-2020 10:29:14				Final Test Date: 20-Aug-2020 15:35:33		
#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
1	2020/08/20 10:29:16	0.0000	2648.75	87.07	933.14	80.95
1 BPM						
2	2020/08/20 10:30:51	0.0264	3108.31	87.29	959.90	80.93
3	2020/08/20 10:32:22	0.0517	3188.38	86.72	1528.07	81.02
4	2020/08/20 10:35:28	0.1033	3213.43	85.44	1621.39	81.78
5	2020/08/20 10:38:34	0.1550	3242.04	84.66	1659.80	83.18
6	2020/08/20 10:41:40	0.2067	3262.55	84.10	1675.85	84.78
7	2020/08/20 10:44:46	0.2583	3276.69	83.68	1681.23	86.29
8	2020/08/20 10:47:52	0.3100	3286.53	83.34	1690.73	87.79
9	2020/08/20 10:50:58	0.3617	3289.19	83.17	1687.01	89.15
10	2020/08/20 10:54:04	0.4133	3290.84	83.03	1684.56	90.34
11	2020/08/20 10:57:10	0.4650	3291.56	82.90	1678.14	91.27
12	2020/08/20 11:00:16	0.5167	3306.63	82.82	1681.89	92.08
1.5 BPM						
13	2020/08/20 11:00:56	0.5278	3314.21	82.82	1704.88	92.25
14	2020/08/20 11:03:22	0.5683	3318.49	82.50	1915.37	92.83
15	2020/08/20 11:06:28	0.6200	3325.97	82.37	1904.63	93.45
16	2020/08/20 11:09:34	0.6717	3328.21	82.51	1918.15	93.95
17	2020/08/20 11:12:40	0.7233	3332.66	82.74	1906.76	94.69
18	2020/08/20 11:15:46	0.7750	3330.70	82.88	1898.21	95.25
19	2020/08/20 11:18:52	0.8267	3328.73	82.99	1893.97	95.79
20	2020/08/20 11:21:58	0.8783	3330.74	83.09	1918.20	96.32
21	2020/08/20 11:25:04	0.9300	3335.59	83.20	1911.43	96.53
22	2020/08/20 11:28:10	0.9817	3332.82	83.30	1900.40	96.91
23	2020/08/20 11:31:16	1.0333	3338.28	83.42	1909.73	97.24
2 BPM						
24	2020/08/20 11:31:58	1.0450	3339.47	83.51	1911.60	97.31
25	2020/08/20 11:34:22	1.0850	3341.39	83.66	2032.63	97.68
26	2020/08/20 11:37:28	1.1367	3341.40	83.86	2034.30	98.21
27	2020/08/20 11:40:34	1.1883	3340.34	84.09	2017.07	98.50
28	2020/08/20 11:43:40	1.2400	3340.74	84.26	2016.51	98.79
29	2020/08/20 11:46:46	1.2917	3337.84	84.39	2010.60	98.98
30	2020/08/20 11:49:52	1.3433	3340.67	84.51	2036.58	99.51
31	2020/08/20 11:52:58	1.3950	3340.11	84.63	2031.32	100.05
32	2020/08/20 11:56:04	1.4467	3340.69	84.74	2006.72	100.51
33	2020/08/20 11:59:10	1.4983	3339.24	84.85	2003.31	100.86
2.5						
34	2020/08/20 12:01:25	1.5358	3349.22	85.18	2012.83	101.05
35	2020/08/20 12:02:16	1.5500	3352.55	85.30	2242.31	101.16
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						

Forty Acres Energy, LLC				West Eumont 211		
Start Test Date: 20-Aug-2020 10:29:14				Final Test Date: 20-Aug-2020 15:35:33		
#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
36	2020/08/20 12:05:22	1.6017	3352.10	85.63	2250.67	101.62
37	2020/08/20 12:08:28	1.6533	3350.70	85.92	2249.32	101.69
38	2020/08/20 12:11:34	1.7050	3352.34	86.07	2256.30	102.14
39	2020/08/20 12:14:40	1.7567	3347.95	86.19	2244.10	102.58
40	2020/08/20 12:17:46	1.8083	3350.09	86.29	2240.55	103.06
41	2020/08/20 12:20:52	1.8600	3350.79	86.39	2242.08	103.22
42	2020/08/20 12:23:58	1.9117	3350.98	86.48	2237.79	103.49
43	2020/08/20 12:27:04	1.9633	3350.20	86.56	2241.34	103.50
44	2020/08/20 12:30:10	2.0150	3345.16	86.64	2256.69	103.38
3 BPM						
45	2020/08/20 12:31:49	2.0425	3360.15	87.04	2520.95	103.47
46	2020/08/20 12:33:16	2.0667	3360.40	87.24	2507.21	103.57
47	2020/08/20 12:36:22	2.1183	3360.64	87.55	2513.57	103.59
48	2020/08/20 12:39:28	2.1700	3360.50	87.71	2511.72	103.85
49	2020/08/20 12:42:34	2.2217	3360.33	87.80	2504.54	104.16
50	2020/08/20 12:45:40	2.2733	3359.71	87.89	2499.82	104.10
51	2020/08/20 12:48:46	2.3250	3359.51	87.96	2518.71	103.60
52	2020/08/20 12:51:52	2.3767	3359.16	88.02	2513.66	103.12
53	2020/08/20 12:54:58	2.4283	3358.38	88.07	2517.05	103.02
54	2020/08/20 12:58:04	2.4800	3358.06	88.12	2498.88	103.08
55	2020/08/20 13:01:10	2.5317	3357.60	88.17	2516.31	102.88
3.5 BPM						
56	2020/08/20 13:03:10	2.5650	3364.09	88.58	2702.93	102.69
57	2020/08/20 13:04:16	2.5833	3363.23	88.73	2783.29	102.62
58	2020/08/20 13:07:22	2.6350	3364.53	88.99	2780.69	102.62
59	2020/08/20 13:10:28	2.6867	3364.19	89.12	2778.64	102.14
60	2020/08/20 13:13:34	2.7383	3364.74	89.19	2768.91	101.85
61	2020/08/20 13:16:40	2.7900	3363.27	89.26	2790.70	101.71
62	2020/08/20 13:19:46	2.8417	3364.10	89.32	2769.79	101.70
63	2020/08/20 13:22:52	2.8933	3362.58	89.38	2769.57	101.63
64	2020/08/20 13:25:58	2.9450	3361.47	89.44	2770.71	101.34
65	2020/08/20 13:29:04	2.9967	3361.70	89.49	2773.69	101.31
4 BPM						
66	2020/08/20 13:31:40	3.0400	3371.87	90.18	3194.58	101.46
67	2020/08/20 13:32:10	3.0483	3372.45	90.28	3184.24	101.45
68	2020/08/20 13:35:16	3.1000	3370.77	90.63	3180.61	101.48
69	2020/08/20 13:38:22	3.1517	3371.75	90.74	3181.10	101.38
70	2020/08/20 13:41:28	3.2033	3370.81	90.81	3179.99	101.34
71	2020/08/20 13:44:34	3.2550	3370.72	90.87	3187.87	101.35
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						

Forty Acres Energy, LLC				West Eumont 211		
Start Test Date: 20-Aug-2020 10:29:14				Final Test Date: 20-Aug-2020 15:35:33		
#	Date Time/Event(s) yyyy/mm/dd hh:mm:ss	Elapsed Time Hours	Pressure psi(A)	Temp. °F	Pressure psi(A)	Temp. °F
72	2020/08/20 13:47:40	3.3067	3369.94	90.93	3174.05	101.61
73	2020/08/20 13:50:46	3.3583	3371.61	90.98	3185.20	101.84
74	2020/08/20 13:53:52	3.4100	3369.86	91.03	3176.34	102.17
75	2020/08/20 13:56:58	3.4617	3370.88	91.08	3171.99	103.02
76	2020/08/20 14:00:04	3.5133	3371.95	91.11	3172.81	103.72
4.5 BPM						
77	2020/08/20 14:01:07	3.5308	3375.37	91.57	3172.64	103.98
78	2020/08/20 14:03:10	3.5650	3376.11	91.97	3552.88	104.52
79	2020/08/20 14:06:16	3.6167	3376.54	92.23	3545.04	105.54
80	2020/08/20 14:09:22	3.6683	3375.95	92.32	3547.24	106.15
81	2020/08/20 14:12:28	3.7200	3376.22	92.39	3538.57	106.57
82	2020/08/20 14:15:34	3.7717	3376.28	92.45	3550.42	105.69
83	2020/08/20 14:18:40	3.8233	3375.95	92.52	3553.80	104.36
84	2020/08/20 14:21:46	3.8750	3375.97	92.57	3551.02	104.34
85	2020/08/20 14:24:52	3.9267	3375.87	92.62	3549.13	105.56
86	2020/08/20 14:27:58	3.9783	3375.66	92.66	3550.36	106.99
87	2020/08/20 14:31:04	4.0300	3381.02	93.24	3558.17	108.09
5 BPM						
88	2020/08/20 14:31:12	4.0322	3380.85	93.28	3647.21	108.16
89	2020/08/20 14:34:10	4.0817	3381.67	93.74	3949.80	108.83
90	2020/08/20 14:37:16	4.1333	3382.47	93.88	3949.54	109.52
91	2020/08/20 14:40:22	4.1850	3381.88	93.96	3964.34	110.01
92	2020/08/20 14:43:28	4.2367	3380.82	94.04	3966.63	110.24
93	2020/08/20 14:46:34	4.2883	3382.22	94.09	3952.70	109.80
94	2020/08/20 14:49:40	4.3400	3380.81	94.14	3947.16	110.29
95	2020/08/20 14:52:46	4.3917	3380.56	94.25	3983.02	111.09
96	2020/08/20 14:55:52	4.4433	3381.26	94.29	3978.02	111.43
97	2020/08/20 14:58:58	4.4950	3381.01	94.33	3974.05	111.50
5.5 BPM						
98	2020/08/20 15:00:58	4.5283	3390.96	95.45	4265.28	112.01
99	2020/08/20 15:02:04	4.5467	3391.09	95.74	4602.60	112.18
100	2020/08/20 15:05:10	4.5983	3392.42	96.03	4582.19	112.94
101	2020/08/20 15:08:16	4.6500	3391.11	96.11	4579.42	112.58
102	2020/08/20 15:11:22	4.7017	3390.89	96.17	4577.28	112.03
103	2020/08/20 15:14:28	4.7533	3391.29	96.13	4550.67	112.11
104	2020/08/20 15:17:34	4.8050	3391.21	96.17	4545.40	112.07
105	2020/08/20 15:20:40	4.8567	3390.34	96.23	4537.49	111.99
106	2020/08/20 15:23:46	4.9083	3390.61	96.27	4525.39	111.66
107	2020/08/20 15:26:52	4.9600	3391.10	96.31	4534.89	111.91
Gauge		Serial Number: V6N		Run Depth (TVD) : 12303.15 ftGL		
Gauge		Serial Number: WB2		Run Depth (TVD) : 12303.15 ftGL		
Print Filter: Every 186 points						

Linear ( V6N\_ , WB2\_ )





State of New Mexico  
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham  
Governor

Sarah Cottrell Propst  
Cabinet Secretary

Todd E. Leahy, JD, PhD  
Deputy Secretary

Adrienne Sandoval, Director  
Oil Conservation Division



March 24, 2020

Garret Johnson  
Forty Acres Energy, LLC  
E-mail: [garret@faenergyus.com](mailto:garret@faenergyus.com)

**RE: Injection Pressure Increase; Order IPI-523**  
West Eumont Unit No. 211  
Eumont; Yates-7 RVRs-Queen (oil) (pool code: 22800)  
UIC Class II EOR Well

Dear Mr. Johnson:

Reference is made to your request on behalf of Forty Acres Energy, LLC (OGRID 371416; the "operator") for the application received on January 14, 2020, to increase the maximum surface injection pressure (MSIP) on the following well:

Well No.	API Number	UL-S-T-R	Injection Authority	Existing MSIP Limit (psi)	Existing Tubing OD (in)
West Eumont Unit No. 211	30-025-44207	B-02-21S-35E	Hearing Order R-14616	760	2.375

It is our understanding that the requested pressure increase is needed to increase the rate of injection and this pressure increase will not result in:

1. the fracturing of the permitted disposal interval;
2. the fracturing of either the upper or lower confining strata; or
3. induced-seismic events as a consequence of the higher injection pressure.

Based on the results of the submitted step rate injection test and nodal analysis, the following shall be the new pressure limit while equipped with **injection** tubing:

Well No.	Step Rate Test Date	New MSIP Limit (psi)	While Injecting	Injection Interval (ft)	Pressure Gradient (psi/ft)
West Eumont Unit No. 211	1/31/2020	<b>1560</b>	Water (SG ~ 1.05)	3800 - 3910	0.41

This approval is based on the provision that the tubing size, packer setting depth and completion interval for the well does not change. Any future requested pressure increase will require resubmission of additional


Administrative Order IPI-523  
Forty Acres Energy, LLC  
March 24, 2020  
Page 2 of 2

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data and/or a new step-rate test. The Director retains the right to require, at any time, wireline verification of completion and packer setting depths in the well. This approval is subject to your being in compliance with all other OCD rules including, but not limited to, Rule 19.15.5.9 NMAC.

The Director may rescind any injection pressure increase permit if it becomes apparent that the injected fluid is not being confined to the permitted disposal interval, impacts correlative rights, is endangering any freshwater aquifer or endangers public health and safety.

Sincerely,

  
\_\_\_\_\_  
ADRIENNE SANDOVAL  
Director

AS/dm

cc: Oil Conservation Division – Hobbs District Office  
Order R-14616  
Well file 30-015-44207

**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**

CONDITIONS  
  
Action 286213

CONDITIONS

Operator: FORTY ACRES ENERGY, LLC 11757 KATY FWY HOUSTON, TX 77079173	OGRID: 371416
	Action Number: 286213
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	11/15/2023