RECEIVED:	REVIEWER:	TYPE:	APP NO:	
	<u> </u>	ABOVE THIS TABLE FOR OCD DIV	SION USE ONLY	

NEW MEXICO OIL CONSERVATION DIVISION



NEW MEXICO OIL CONSER	//4 >			
- Geological & Engineerir 1220 South St. Francis Drive, Sar				
ADMINISTRATIVE APPLICA	TION CHECKLIST			
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLI REGULATIONS WHICH REQUIRE PROCESSING AT T	CATIONS FOR EXCEPTIONS TO DIVISION RULES AND			
Applicant: Forty Acres Energy Well Name: _West Eumont Unit #523	OGRID Number: <u>371416</u> API: <u>30-025-45480</u>			
Pool: <u>Eumont, Yates-7 Rivers-Queen</u>	Pool Code: 22800			
SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED BEI	UIRED TO PROCESS THE TYPE OF APPLICATION			
1) TYPE OF APPLICATION: Check those which apply for [A. Location – Spacing Unit – Simultaneous Dedication — NSL NSP (PROJECT AREA) NSP (PROJECT AREA)	•			
[II] Injection – Disposal – Pressure Increase – Enh	OLS OLM nanced Oil Recovery EOR PPR FOR OCD ONLY			
 NOTIFICATION REQUIRED TO: Check those which approved A. Coffset operators or lease holders B. Royalty, overriding royalty owners, revenue of Application requires published notice D. Notification and/or concurrent approval by States E. Notification and/or concurrent approval by States F. Surface owner G. For all of the above, proof of notification or positive approval No notice required 	Notice Complete Application Content Complete			
3) CERTIFICATION: I hereby certify that the information so administrative approval is accurate and complete to understand that no action will be taken on this applicant notifications are submitted to the Division.	the best of my knowledge. I also			
Note: Statement must be completed by an individual wit	th managerial and/or supervisory capacity.			
	November 13, 2020			
Garret Johnson	Date			
Print or Type Name	918-697-8311			
	Phone Number			
(g. /ol	Garret@faenergyus.com			
Signature	e-mail Address			

forty acres energy

Novemeber 13, 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 #525 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 West Eumont Unit Waterflood Project, requests administrative approval to increase the surface injection pressure for the West Eumont Unit #525, API # 30-025-45482. (WEU #525)

On June 27th, 2020, Forty Acres conducted a step rate injection test on the WEU #525. On August 24, 2020, the IPI order was approved to inject at a pressure gradient of 0.49 psi/ft. Forty Acres Energy is requesting approval of the 0.49 psi/ft injection gradient to be extended to the adjacent injection wells within the same interval as the WEU 525. The adjacent wells are the WEU 522 (30-025-45479), WEU 523 (30-025-45480), WEU 524 (30-025-45481), WEU 526 (30-025-45483), and WEU 527 (30-025-45459). Geological cross sections and wellbore diagrams are provided for reference.

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

Regards,

Garret Jöhnson

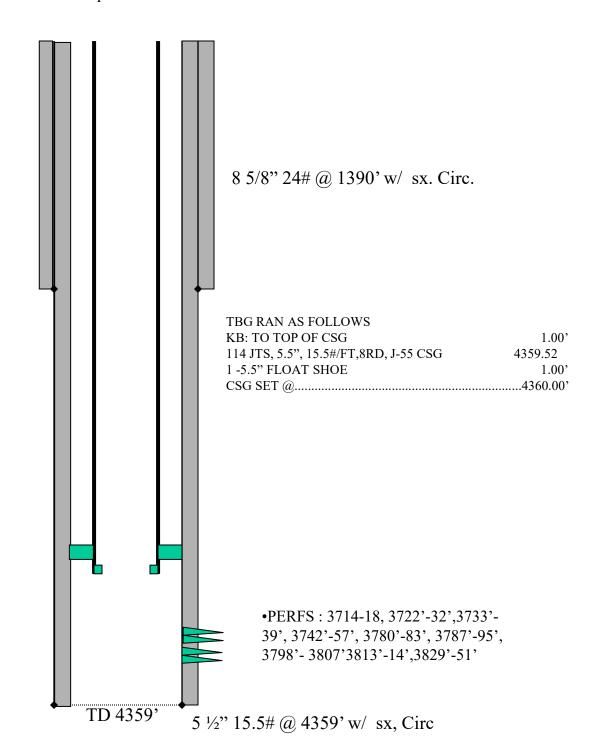
Operations Engineer

WEU #523

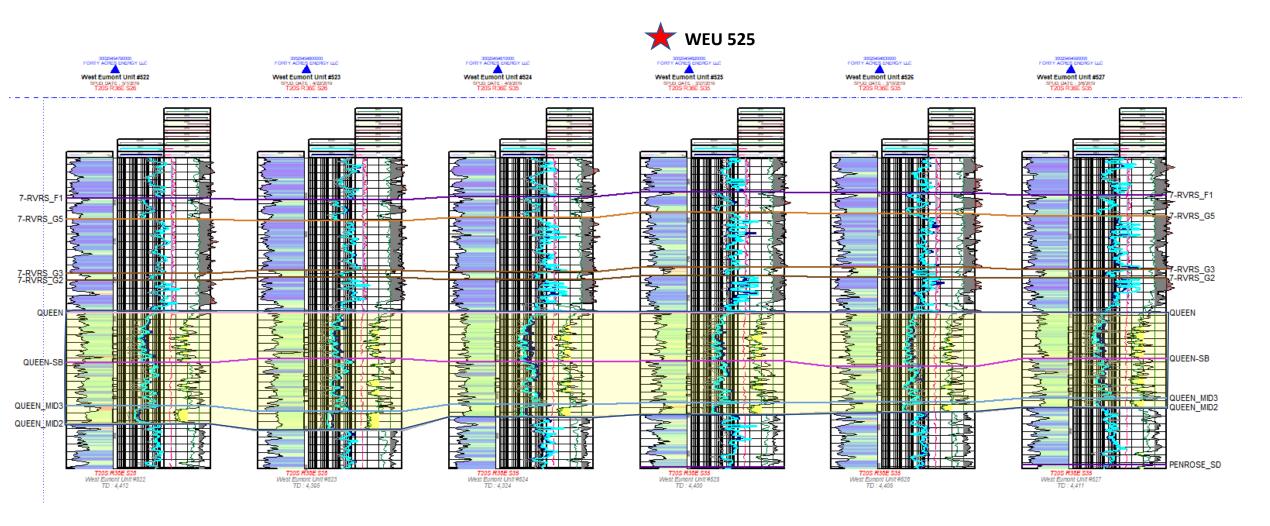
10' FSL, 2481' FWL, Sec 26 T20S, R36E Lea Co., NM

Eumont Field completion Date: 07/10/2019

KB 12' API # 30 025 45480



West Eumont Unit Pilot 2 Injection Interval for All 6 Injectors

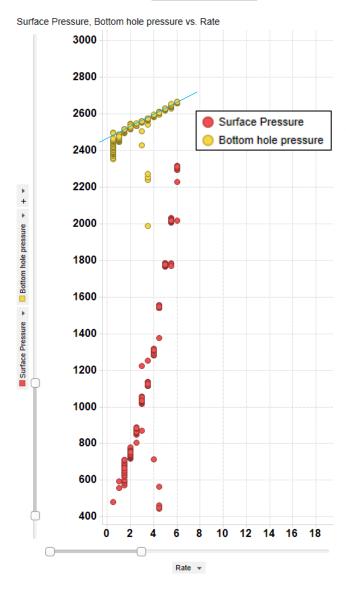


All 6 pilot 2 injectors inject into the exact same stratigraphic intervals

			Injection	Interval	Pressure	Initial New MSIP Limit (psi)	
Well No.	Tubing OD (inch)	While Injecting	Top Perf	Bot Perf	Gradient (psi/ft)		
West Eumont Unit No. 522	2.375	Water	3812	3932	0.49	1861	
West Eumont Unit No. 523	2.375	Water	3714	3851	0.49	1813	
West Eumont Unit No. 524	2.375	Water	3713	3825	0.49	1813	
West Eumont Unit No. 525	2.375	Water	3789	3898	0.49	1850	
West Eumont Unit No. 526	2.375	Water	3819	3929	0.49	1865	
West Eumont Unit No. 527	2.375	Water	3715	3818	0.49	1814	

WEU 525 SRTs from March and June

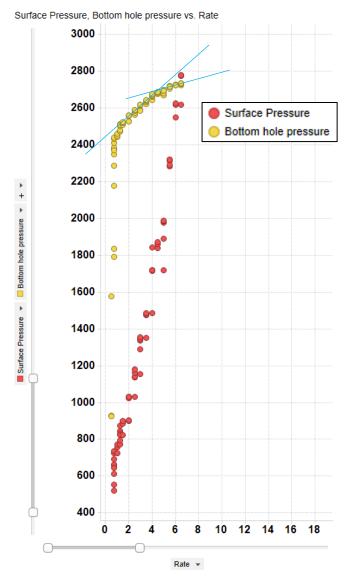
March SRT



March SRT Comments

- Max bottomhole pressure reached in March was 2,666 psi
- Max surface pressure was 2,316 psi
- We did not see the bottomhole pressure break over on the March step rate test (perfectly straight line)

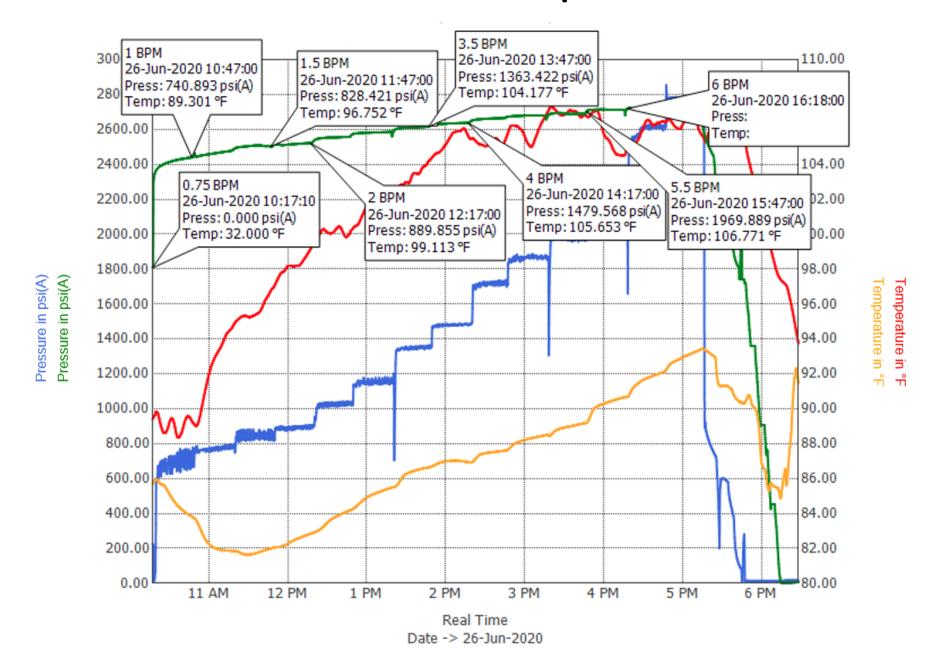
June SRT



June SRT Comments

- Max bottomhole pressure reached in June was 2,734 psi
- Max surface pressure reached was 2,776 psi, ~460 psi greater than the March SRT
- We saw a breakover by pumping at the higher surface pressure
- The bottomhole breakover point is approximately 2,680 psi, which corresponds to a surface injection pressure of 1,850 psi

West Eumont Unit #525: June Step Rate Test



Date: Time: Truck Called: 6/26/20 4:00 AM Arrived at location: 6/26/20 5:30 AM Start Job: 6/26/20 9:20 AM 4:30 PM Finish Job: 6/26/20 Leave Location: 6/26/20 5:30 PM

Job Log

		***	***							J	DD L	og
Crain Hot Oil Service Custo			Custon	er Name: FORTY ACRES					- Ticket Number:			
2239 S Main Street		Lease Name:			WEU			i icket Nu	mber.	GS	9678	
Lovington, NM 88260			Well #:		525			Supervi	isor:	GERARD	O SANCHE	
OFFICE # (575)396-9702		Tvi	Type of Job:			PRATE		County:		LEA		
FAX # (575)396-9700			Date: 6/26/2020			CUSTOMER REPRESENTATIVE			JAM	JAMES MARTINEZ		
	Tubing Size:							T			LO III/AIA	T 114 Laborator
	Tubing weight:		Casing size:					The Capacity:			-	
		 	Casing weight:					Top Perf:			-	
Tubing bbl/Inft Packer depth:			Casing bbl/Inft:					Bottom Perf:			-	
			-		Annulus:				ush Top Perf:			
E	nd of Tbg:				otal Depth:		Flush		Bottom Perf:			-
	Top Perf:				Open Hole:		Annu		ular Capacity:			ļ
	ttom Perf:				Liner Size:			Maximum:				Psi
Hol	les in Csg:			To	op of Liner		·					
Max psi:	2007	Min psi:	730	Avg psi:	1259	Max rate:	4.5	Avg rate:	2.4	IS	IP	0-
Load to re	cover							5 min		10 min		15 min
					Ac	id Sv	stems					
					AU	id Oy.	aremie					
Acid S	ystem:			Gallons								
			1				Coarse					
Dive	erter:			Balls			Rock Salt					
		Inicatio	n Rate:		Job Pre	essures			D			
Time	Rate:	mjecuc	Bbls in		Tbg psi.	Csg psi	JOD	Log	Rema	rks:	! I	
9:20 AM	0.	75		I Company of the Comp	602				START PROCI			
9:35 AM		75	10		730	6	PSI CHECK					
9:50 AM		1	22.5		786	6	BRING RATE UP					
10:10 AM		1	40		790	6	PSI CHECK					
10:20 AM 10:39 AM		25	52.5		852	6	BRING RATE UP					
0:59 AM	1.:	-	75 90		887	6	PSI CHECK					
11:12 AM		.5	122		909 920	6	BRING RATE UP PSI CHECK					
11:20 AM		2	135		1053	6						
11:38 AM		2	170		1058	11	BRING RATE UP PSI CHECK					
11:50 AM		2.5 195			1198	11	BRING RATE UP					
12:09 PM	2.		244		1202	11			PSI CHEC			
12:20 PM		3	270		1369	11	CHANGE GEARS					
12:38 PM		3	328		1418	11			PSI CHEC			
2:50 PM	3.	.5	360		1559	11	f		BRING RATI			
1:08 PM		.5	430		1564	11			PSI CHEC			
1:20 PM	4	1	465		1820	11	BI		BRING RATE UP			
1:35 PM		1	536		1833	11				PSI CHECK		
1:50 PM	4.	.5	585		1984	11			BRING RATI			
2:06 PM	4.	.5	672		2007	11			PSI CHEC			
EDVICE	DEDDECEN	TATIVE.	Cianctur	Diseas			OHOTOS	D DEDDESE	LATIVE		Disease	
PERVICE	REPRESEN	HAHVE:	Signature	riease		- major	CUSTOME	R REPRESE	NATIVE:	Signature	riease	

X

GERARDO SANCHEZ

Ticket Number:

GS9678

						L	ease:	WEU		
Cust	omer:	FORTY	ACRES					525		
The second secon	Date 6/26/2020				Job 7	Type:	STEP RATE			
Max psi:	3055 Min psi:	2140	Avg psi:	2664 Max rate:				e: STEP RATE e: 5.7		
	Injectio	on Rate:		Job Pressures		loh	Log	Remarks:		
Time 2:20 PM	Rate: 5	Bbls in 720		Tbg psi. 2140		300	LUG	GET HIGHER GEAR	-	
2:34 PM	5	800		2160	11			PSI CHECK		
2:50 PM	5.5	870		2460	11			BRING RATE UP		
3:10 PM 3:20 PM	5.5 6	994 1035		2505 2770	11 11			PSI CHECK GET HIGHER GEAR		
3:34 PM	6	1135		2858	11			PSI CHECK		
3:50 PM 4:10 PM	6.5 6.5	1215 1366		3055 3013	11			BRING RATE UP PSI CHECK		
4:20 PM	0.0	1410		3023	11			SHUT DOWN		
4:20 PM			4040					ICID		
4:25 PM			1040 808			- December 19	(I) -	ISIP 5 MIN		
4:30 PM			753					10 MIN		
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Thank you	for your business, yo	our patrona	ge is great	ly apprecia	ated!!!	OUOTONE	VDEBRES	-NAFWE IC: /- BI		
	Thank you for your business, your patronage is greatly appreciated!!! SERVICE REPRESENTATIVE: Signature Please						REPRESI	ENATIVE: Signature Please		
GERARDO SANCHEZ						X				