

June 27, 2017

Mr. David Catanach Division Director NMOCD 1220 South St. Francis Drive Santa Fe, NM 87501

Via Email and Federal Express

RE: REQUEST BY HOLLYFRONTIER TO DENY LIME ROCK'S REQUEST TO INCREASE INJECTION PRESSURES AT FEDERAL T SWD#1 (API # 30-015-26404)

Dear Director Catanach,

On May 8, 2017 Lime Rock Resources II-A L.P. (Lime Rock) requested from the New Mexico Oil Conservation Department (NMOCD) an injection pressure increase for their existing permitted (Order SWD-1135, approved July 16, 2008) salt water disposal well (Federal T SWD #1; API # 3001526404). Their request asks for an increase from the original maximum allowable operating pressure (MAOP) of 1,480 psig to 2,681 psig. Lime Rock's injection pressure increase (IPI) request is based on and relies on the results of a step rate test performed on this well on May 3, 2017. For the reasons detailed below, HollyFrontier Navajo Refining LLC (HFNR) objects to the requested pressure increase and respectfully requests that NMOCD deny Lime Rock's request.

BACKGROUND

On June 23, 2004 Navajo Refining Company (now HFNR) received from the NMOCD their Approval for Discharge Permit UIC-CLI-008-3 for a Class I non-hazardous waste disposal well (WDW-3; API # 3001526575) to dispose of wastewater from the Navajo Refinery in Artesia, New Mexico. This well is located 790 FSL and 2250 FWL of Section 1, T18S, R27E in Eddy County, New Mexico.

As seen in Figure 1, there are only approximately 2,500 feet separating HNFR's WDW-3 from Lime Rock's Federal T SWD #1, and both wells have completions in the same Cisco zone. The Federal T SWD #1 perforations in the Cisco Formation range from 7,685' to 8,060', and the WDW-3 Cisco perforations run from 7,666' to 8,620'. This overlap allows pressure fronts (and fluids) to migrate from the Lime Rock SWD to HNFR's WDW-3, potentially impairing the function of WDW-3.

HNFR's permit has a maximum allowable operational pressure (MAOP) of 1,550 psig, with no specific limit on the amounts of wastewater injected. From 2008 to 2016, the well (WDW-3; API# 3001526575) has injected an average of approximately 152,000 barrels of wastewater per month. The WDW-3 well is a group of three Class I wells operated by HNFR (WDW-1; API# 3001527592 and WDW-2; API# 3001520894) that also receive non-hazardous wastewater from the HFNR Refinery.

HollyFrontier Navajo Refining LLC 501 East Main • Artesia, NM 88210 (575) 748-3311 • http://www.hollyfrontier.com Mr. David Catanach June 27, 2017 Page 2

These three wells are the Refinery's approved method of disposing their non-hazardous wastewaters, and if reservoir capacity is reached, or pressures exceed MAOPs, HFNR would face significant curtailment of its operations at the plant or a possible shut down.

BASIS OF OBJECTIONS

1: The May 2017 Step Rate Test (SRT) is Not Valid and Cannot Serve as Justification for the Requested IPI Because the Injection Zone in This Well was Extensively Hydrofractured in August 2008

NMOCD records show that on August 13, 2008 the zone from 7,893' to 8,060' was fractured with 5,040 gallons of 15% HCl, 120,372 gallons of Spectra Star 2500, and 167,552 pounds of propant (sand). On August 16, the zone from 7,758' to 8,060' was fractured with 4,500 gallons of 15% HCl, 119,255 gallons of Spectra Star 2500, and 106,750 pounds of sand (see Attachment A).

These fracture jobs are also noted in the well diagram submitted as part of Lime Rock's May 2017 pressure increase application (see Attachment B).

It is clear that the reason that Lime Rock observed that "The formation pressure did not break at a maximum surface pressure of 2681 psi (bottom hole pressure of 4140 psi)..." during their SRT is that the formation had already been broken during the hydrofracturing work done in 2008. For these reasons the step rate test results and conclusions are invalid and cannot form a defensible technical basis for Lime Rock's IPI request.

2: HFNR Has Priority of use of this Shared Injection Zone in the Cisco Reservoir

Well WDW-3 was approved in June 2004 as a Class I non-hazardous well and began operations in January 2008. The well was originally spudded in December 1990 by Mewbourne Oil Company and was advanced to 10,120 feet and completed as a Morrow gas well. For economical reasons Mewbourne temporarily shut in the well in 1993. In September 2000 the wellbore was purchased by Navajo Refining as a potential disposal well. Following the 2004 approval of their Class I injection application, Navajo recompleted the well in October 2006 as an injection well, and commenced injection in January 2008. By the end of 2008, Navajo had injected approximately 2,021,000 barrels, and in 2009 over 2,385,000 barrels.

The Devon Federal T SWD #1 was approved as a SWD well in July 2008, over 4 years after the approval of WDW-3. This well was first spudded in June of 1990 Mewbourne Oil Company and was advanced to 10,141 feet and completed as a Morrow gas well. For economical reasons Mewbourne temporarily shut in this well in 1994. The well was acquired by Devon Energy Production in April of 2008, was approved as an SWD in Order SWD-1135 in July of 2008, and re-completed by Devon in August of 2008. Throughout 2008 Devon only injected a total of 190 barrels and in 2009 did not operate the well until September, and only injected 513,281 barrels in that year.

It is clear from this history that Navajo (now HFNR) received NMOCD approval to inject in the Wolfcamp, Cisco and Canyon zones in 2004, four years prior to the Devon (now Lime Rock) 2008 application. Further, HFNR commenced significant injection rates and volumes in January 2008, while Devon only began significant injection in September 2009, 20 months later.

HollyFrontier Navajo Refining LLC 501 East Main • Artesia, NM 88210 (575) 748-3311 • http://www.hollyfrontier.com Mr. David Catanach June 27, 2017 Page 3

3: Significantly Higher Effort and Expense by the Regulators and the Operator are Required to Permit a Class I Non-Hazardous Well versus a Standard Class II SWD Well

The NMOCD, USEPA Region 6, and HFNR spent significant technical effort, professional time, and costs to perform the analyses required to permit this Class I non-hazardous injection well. This level of investment far exceeds the efforts required to permit a SWD such as Federal T SWD#1.

4: WDW-3 Is Critical to the HFNR Refinery Operations

HFNR operates, in addition to WDW-3, two additional Class I disposal wells (WDW-1 and WDW-2), all permitted under the NMOCD UIC program. These wells accept non-exempt, non-hazardous wastewaters from the Refinery, at average total amounts of approximately 15,000 barrels per day, roughly equally distributed among the 3 wells. HFNR has no other current options for disposing of this wastewater, and loss of service of even one of these wells would severely reduce refinery throughput leading to losses of jobs, and diminished revenues for HFNR, contracted operators, and the State.

5: Both the Lime Rock and HFNR Injection Wells Share the Same, Continuous Reservoir

Figure 2 is a cross-section showing the geology of injection zones of WDW-3 and Federal T SWD#1. There is clearly an overlap of the injection zones in the Cisco Formation, the lithologies of the Cisco are very similar, and it is clear that there are no stratigraphic or structural barriers between the wells. This direct connection will ensure that increased injection pressure in the Federal T SWD #1 will result in the migration of a pressure wave to WDW-3 that will negatively affect HFNR's ability to stay within their approved MAOP of 1,550 psig surface.

6: Increased Injection Pressure by Lime Rock will Raise Reservoir Pressure at WDW-3

Lime Rock proposes to increase the MAOP of their Federal T SWD #1 from 1,480 to 2,681 psig, an increase of approximately 1,200 psig, or over 180% of the current limit. Currently, the HFNR well WDW-3 has seen an annual injection average of 1,315 psig, only 235 psig below their MAOP of 1,550 psig. Only approximately 20% of Lime Rock's requested increase would push reservoir pressures above HFNR's MAOP, making WDW-3 inoperable. If the requested pressure increase is approved, the overlapping perforations in the Cisco Formation, 7,685' to 8,060' in the Federal T SWD #1, and 7,666' to 8,620' in the WDW-3, will allow pressure fronts (and fluids) to migrate from the Lime Rock SWD to HFNR's WDW-3, impairing or precluding successful injection in the WDW-3.

CONCLUSIONS

In summary, HFNR respectfully requests the NMOCD deny Lime Rock's application for an injection pressure increase for their Federal T SWD #1 for the reasons detailed above. However, should NMOCD see fit to grant this pressure increase, HFNR requests that a corresponding pressure increase be immediately granted to wells WDW-1, WDW-2, and WDW-3, that are completed in the same injection zone.

HollyFrontier Navajo Refining LLC 501 East Main • Artesia, NM 88210 (575) 748-3311 • http://www.hollyfrontier.com Mr. David Catanach June 27, 2017 Page 4

If you have any questions or require additional information regarding our request to deny Lime Rock's application please contact me at 575-746-5487 or our technical consultants on this matter Alberto Gutierrez, RG & James C. Hunter, RG at 505-842-8000.

Sincerely,

Scott M. Denton

Environmental Manager

HollyFrontier Navajo Refining LLC

cc:

NMOCD – P. Goetze

Geolex – A. Gutierrez HFNR – R. Dade

> HollyFrontier Navajo Refining LLC 501 East Main • Artesia, NM 88210 (575) 748-3311 • http://www.hollyfrontier.com

FIGURES

Figure 1:

HollyFrontier Class 1 Wells: Active Disposal Wells Within One-Mile AORs (All three Class 1 wells)

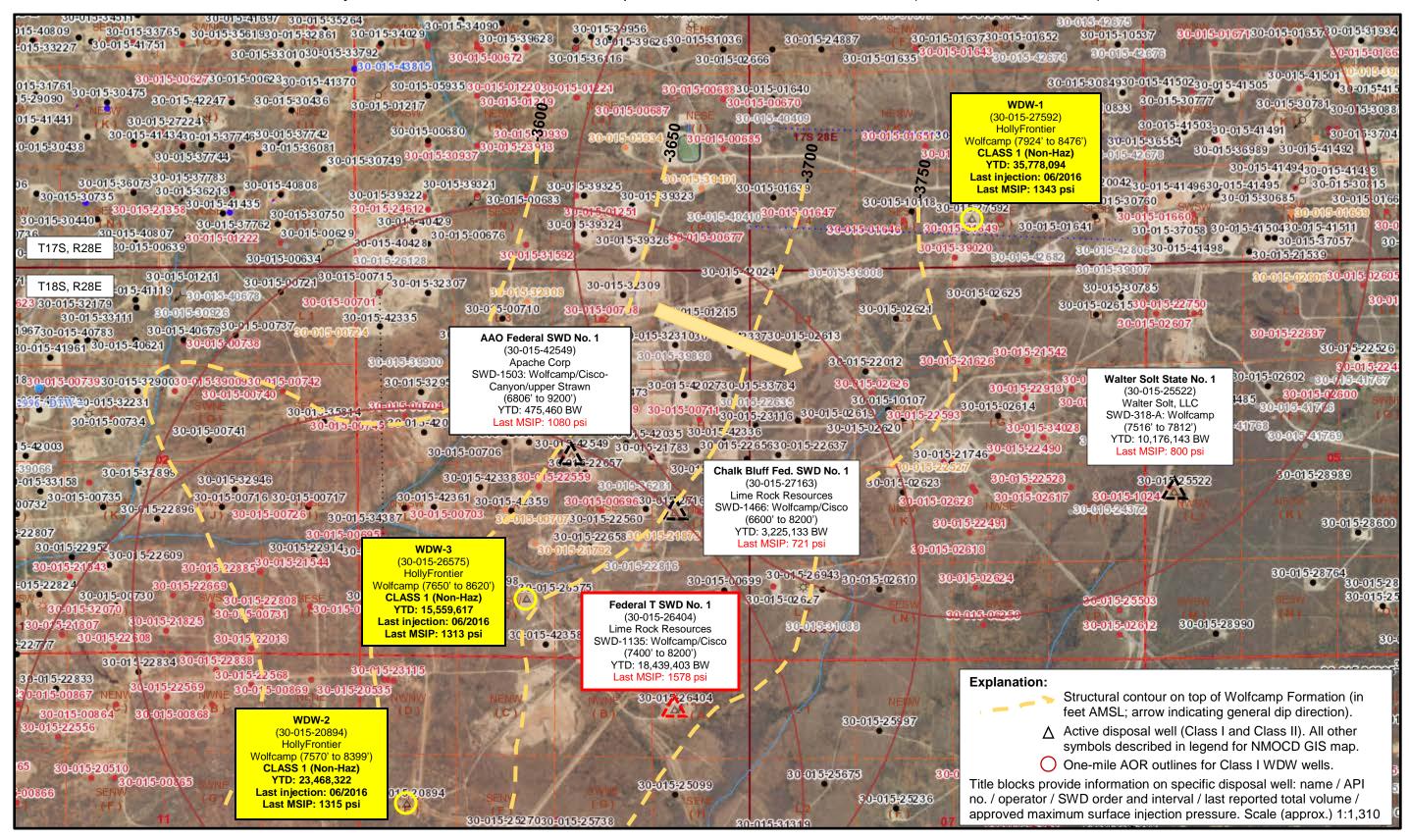
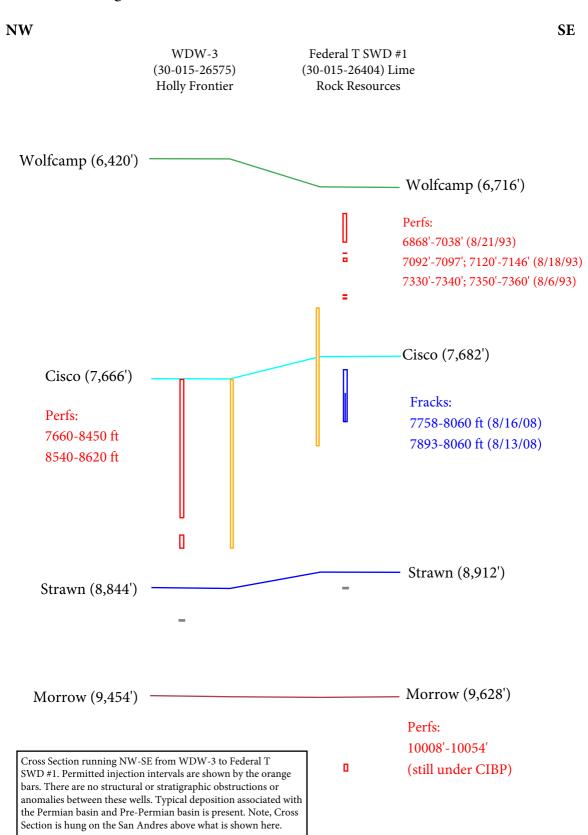


Figure 2: Cross Section between WDW-3 and Federal T SWD #1



ATTACHMENT A

BLM FORM 3160-5 REPORTING THE RECOMPLETION AND HYDROFRACTURING OF FEDERAL T SWD#1

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

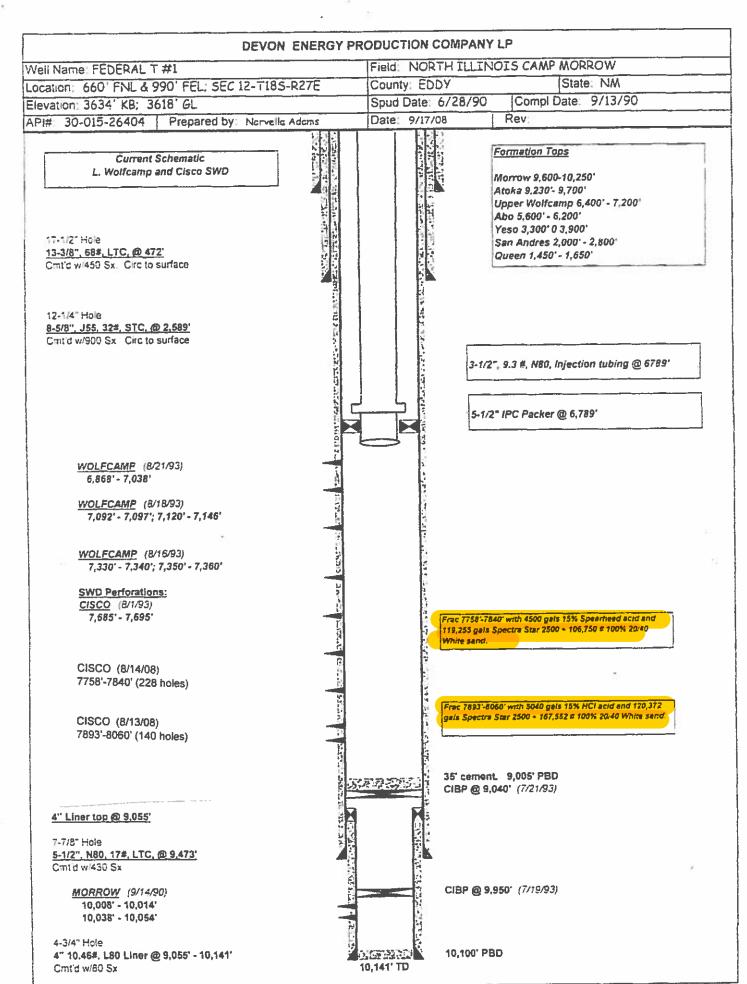
FORM APROVED OMB NO. 1004-0137 EXPIRES: March 31, 200

BUREA	U OF LAND MANAGEMENT					EXPIRE	S: March 31, 2007
SUNDRY NO	TICES AND REPORTS ON WE	LLS				5 Lease Serial No	
Do not use this form abandoned well. Us	n for proposals to drill or to re e Form 3160-3 (APD) for such	e-ent pro	ter an posals			6. If Indian, Allottee o	NM-42410 or Tribe Name
	LICATE - Other instructions on						
1. Type of Well					·	7. Unit or CA Agreer	ment Name and No.
Oil Well Gas We	II ☑ Other SWD convers	ion.	Admin Order SWD-1	135	5	8 Well Name and No)
2. Name of Operator						F	ederal T 1
DEVON ENERGY PRODUC	TION COMPANY, LP					9 API Well No	
3a, Address		3b.	Phone No. (include are	ea	code)		-015-26404
20 North Broadway, Oklahoma City, O		40	5-552-8198			10. Field and Pool, o	
4 Location of Well (Footage, Sec., T., 660 FNL 990 FEL A 1	R., M , or Survey Description) 2 18S 27E					L.Wolfe 11. County or Parish	camp and Cisco
)	2 100 27 L						
12 CUECK	APPROPRIATE BOX(es) TO	INIDI	CATE NATURE OF NO		CE PEDO	Eddy	NM NM
TYPE OS SUBMISSION	APPROPRIATE BOX(es) TO	INDI			F ACTION	KI OK OTHER DATA	\
☐ Notice of Intent	Acidize		Deepen		Production	n (Start/Resume)	☐ Water Shut-Off
	Alter Casing		Fracture Treat		Reclamati		Well Integrity
✓ Subsequent Report	Casing Repair Change Plans	늗	New Construction Plug and Abandon	-	Recomple	te ily Abandon	U Other
Final Abandonment Notice	✓ Convert to Injection		Plug Back		Water Dis	•	
13 Describe Proposed or Completed Operations (C despen directionally or recomplete honzontally, give si the Bond No on file with BLM/BIA Required subsequ interval, a Form 3160-4 shall be filed once testing has determined that the site is ready for final inspection)	ubsurface location and measured and true ent reports shall be filed within 30 days fo	e verti llowing	cal depths of all pertinent mark g completion of the involved op	cers oera	and zones. Al	ttach the Bond under which t peration results in a multiple o	he work will be performed or provide completion or recompletion in a new
Converted to SWD. Administrative Ord 8/04/08 RU unit. ND wellhead and NU 8/05/08 Drill CIBP at 6800' and 7078'. 8/06/08 Drilled through cement at 7525 8/07/08 Ran step rate test; pumped 50 bbls at 3 bbls/min – 170# psi, pumped 5 8/08/08 Trucked in and established inje 8/11/08 Drilled cement retainers at 774 8/12/08 Drilled cement retainer at 7820 8/13/08 Perforate Cisco from 7893' – 8 167,552 # 20/40 White sand. 8/14/08 TIH with retrievable tool and I 228 total holes 8/15/08 TIH with packer and set at 758 8/16/08 Frac 7758'-8060' with 4500 gal 8/18/08 Release packer. TOOH with p 8/20/08 TIH with bailer and bailed sand 9/15/08 TIH with packer and tubing. St TOOH with tubing. RIH with 3 ½" IPC to	BOP. TIH with bit and drill colling, CIBP at 7300' and cement at bbls at ½ bbl/min – 0# psi, pun 50 bbls at 4 bbls/min – 250 psi. ection in the Wolfcamp at 150 to 5', and 7780'. I' and 8000'. Circulate hole and 060', total 140 holes. TIH and eath onto packer. Release pace 15% Spearhead acid + 119,2 acker and tubing. Bailed sand to 8460'. TOOH at packer at 6789'. ND BOP and	7566 nped 3WP LTOB set p kker a 55 ga with	50 bbls at 1 bbl/min -20 D at 170 psi. H with tubing and bit. acker at 7688'. Frac word TOOH with packer at 100 at	vith and 3,75 NU 500	5,040 gals d tubing. R 50 # 20/40 flange. Wi	15% HCl + 120,372 g U wireline and perfora 100% White sand. RI aiting on tubing.	pals Spectra Star 2500 + ste Cisco from 7758'-7840';
14. I hereby certify that the foregoing is tr Name Norvella Adams	ue and correct Title	s	r. Staff Engineering T	Гес	hnician		
Signature	Date		9/17/2008				
	CORHIS SPACE FOR F	ED		0	FFICE U	SE	
Approved by S/ DAVID	R. GLASS					Date	
SEP 2 9 2008			ACC	e	pted fo	r recoro	
Conditions of approval, if any are attached notice does not warrant or certify that the					NMOC	· L	`
equitable title to those highly in the subject	t lease which would						
entitle the applicant to confuct or coleration	ns thereon Office						

Title 18 U S C Section 1001 and Title 43 U S C Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

ATTACHMENT B

WELL COMPLETION DIAGRAM PROVIDED IN LIME ROCK'S REQUEST FOR PRESSURE INCREASE SHOWNING ZONES OF HYDROFRACTURING IN FEDERAL T SWD#1



					47
S/11/2017	SUSPENSE	ENGINEER	5/12/	ZPZ TYPE	PMAM 1713255697

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



redi	EKAL I SWD#I	Order: SWD-1135		
		ADMINISTRATIVE APPLIC	ATION CHECKL	ST
	THIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE D S:	IS FOR EXCEPTIONS TO DIVISION DIVISION LEVEL IN SANTA FE	RULES AND REGULATIONS
o de les		ndard Location] [NSP-Non-Standard Prore	ation Unit] [SD-Simultaned	ous Dedication1
	[DHC-Dow	nhole Commingling] [CTB-Lease Comm	ingling] [PLC-Pool/Lease	Commingling]
	[PC-P	ooi Commingling] [OLS - Off-Lease Store		asurement]
		[WFX-Waterflood Expansion] [PMX-Pre [SWD-Salt Water Disposal] [IPI-Inje		sion]
	[EOR-Qua	lified Enhanced Oil Recovery Certification		ion Response]
[1]	TVPF OF AL	PPLICATION - Check Those Which Apply	Lime	- ROCK DESOUNCS
f.1	[A]	Location - Spacing Unit - Simultaneous I	/ TTT LTT.	L L D
	[-]	□ NSL □ NSP □ SD		77550
			•	WEV
		One Only for [B] or [C]		Eredent 7500
	[B]	Commingling - Storage - Measurement DHC CTB PLC	PG	30-015-26
		DHC CIR DATE	PC OLS OLN	
	[C]	Injection - Disposal - Pressure Increase -	Enhanced Oil Recovery	
		☐ WFX ☐ PMX ☐ SWD 🛛	IPI 🗌 EOR 🔲 PPR	
	[D]	Other: Specify		
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Wh.	ich Apply or Door Not A	
[]	[A]	Working, Royalty or Overriding Roy	icii Appiy, or w Does Not A /aitv Interest Owners	ppiy
	L		any microst Owners	
	[B]	Offset Operators, Leaseholders or Su	ırface Owner	0 ./
	[C]	Application is One Which Described	D1.12-1 1 7 - 1 3 7 - 2	F 8 %
	[C]	Application is One Which Requires	Published Legal Notice	-SWD', WOLFE
	[D]	☐ Notification and/or Concurrent Appr	oval by BLM or SLO	Pool -SwD'shocks CISCO
		U.S. Bureau of Land Management - Commissioner of Pu	blic Lands, State Land Office	96136
	[E]	For all of the above, Proof of Notific	ation or Publication is Attac	thed, and/or,
	Free			,
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFORMATION INDICATED ABOVE.	ATION REQUIRED TO P	ROCESS THE TYPE
	OF APPLICA	TION INDICATED ABOVE.		
[4]	CERTIFICAT	FION: I hereby certify that the information	submitted with this applica	tion for administrative
approv	val is accurate a	nd complete to the best of my knowledge.	I also understand that no ac	tion will be taken on this
applic	ation until the re	quired information and notifications are sub	mitted to the Division.	
	Note:	Statement must be completed by an individual with	th managerial and/or supervisor	capacity.
Mike I	Pinnin	Michor Jain	Dataslave #	
	or Type Name	Signature	Petroleum Engineer Title	ay 8, 2017 Date
		_	mike@pippinllc.com	
			e-mail Address	

Released to Imaging: 2/20/2024 10:50:48 AM

Encl

LIME ROCK RESOURCES II-A, L.P.
Mike Pippin
3104 N. Sullivan Avenue
Farmington, NM 87401
505-327-4573 (phone) mike@pippinllc.com

May 8, 2017

Phil Goetze New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

RE:

Injection Pressure Increase Request

Administrative Order SWD-1135

FEDERAL T SWD #1 API#: 30-015-26404

Unit Letter "A" Section 12 T18S R27E

Eddy County, New Mexico

Dear Mr. Goetze,

By administrative order SWD-1135, dated July 16, 2008, the NMOCD authorized water injection into Federal T SWD #1 (API No. 30-015-26404) for the disposal of produced water. The order provides for a wellhead injection pressure of "no more than 1480 psi". On 9/16/08, this well was converted to SWD & soon started produced water injection. Lime Rock believes that this maximum pressure of 1480 psi is significantly below the formation frac pressure.

The disposal formation in this well is extremely tight. On 5/3/17, a step rate test was run to determine the actual formation frac pressure. The formation pressure did not break at a maximum surface pressure of 2681 psi (bottom hole pressure of 4140 psi), which indicates that the formation frac pressure was not exceeded at that point. Therefore, the actual formation frac pressure is higher than a surface pressure of 2681 psi. A summary of the step rate test data from Renegade Services is attached along with a wellbore diagram.

Lime Rock Resources therefore requests that the maximum wellhead injection pressure be increased to at least 2681 psi.

Please contact me at 505-327-4573 should you have any questions.

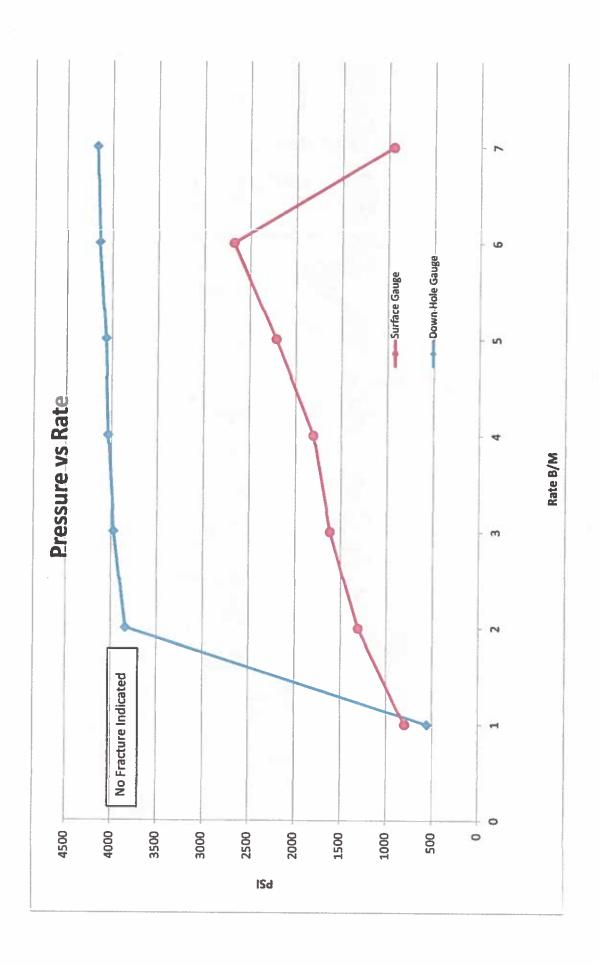
Very truly yours,

Mike Pippin P.E. Petroleum Engineer

Enclosures

Released to Imaging: 2/20/2024 10:50:48 AM

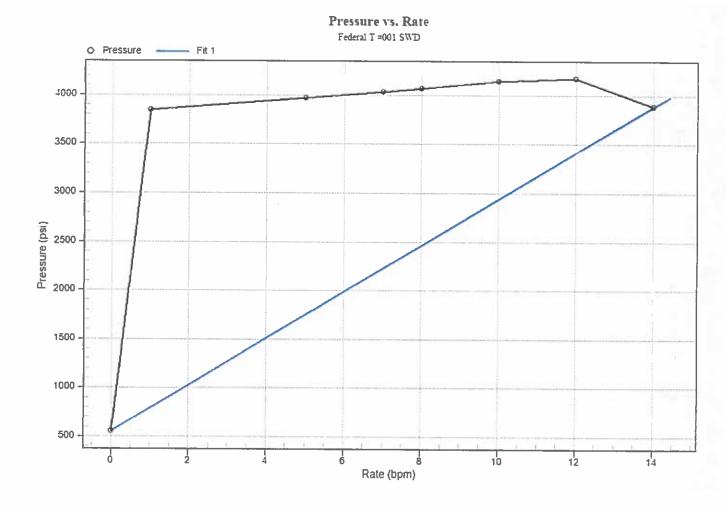
Received by OCD: 2/20/2024 10:49:21 AM

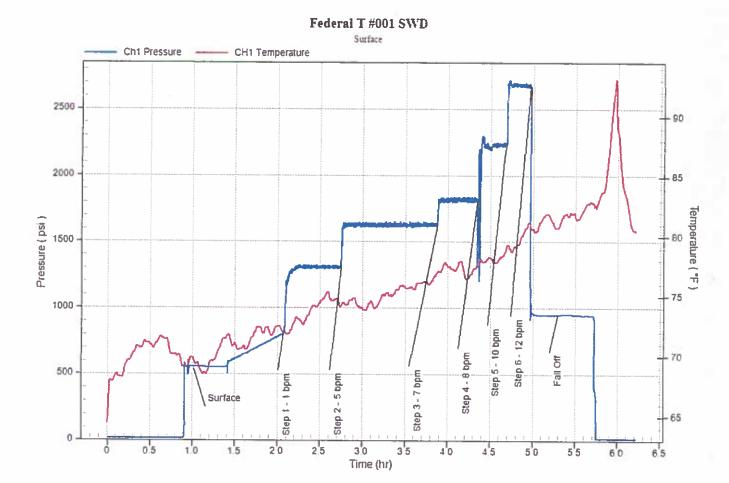


	100		WA	Plug Back Depth IN/A	
				Perforations:	
	50.00		N/A	Seat Nipple Depth:	
		180	New Mexico	State:	
			Eddy, County	County:	
Truck N			LLU	Field:	
	N. C.	1 SWD	Federal T #00	Well:	
Recor		sources	Lime Rock Re	Company:	
944.	4169.81	2:32 PM	5/3/2017	Fall Off	rall Off
2681.	4140.96	2:13 PM	5/3/2017	6	Step 6
2219.	4066.6	1:56 PM	5/3/2017	C I	Step 5
180;	4035.19	1:37 PM	5/3/2017	4	Step 4
1619.	3970.7	1:09 PM	5/3/2017	ω	Step 3
1311.	3842.09	12:01 PM	5/3/2017	2	Step 2
801.9	558.57	11:20 AM	5/3/2017	1	Step 1
SURF. P	BH PRESS	IIme	Date	754111 0/0	
	801.9 1311. 1619. 1803.0 2219.1 2681.1 944.1 Truck NI		AM 558.57 PM 3842.09 PM 3970.7 PM 4035.19 PM 4140.96 PM 4169.81 Tr	3/2017 11:20 AM 558.57 3/2017 12:01 PM 3842.09 3/2017 1:09 PM 3970.7 3/2017 1:37 PM 4035.19 3/2017 2:32 PM 4140.96 3/2017 2:32 PM 4169.81 e Rock Resources eral T #001 SWD Tr y, County	5/3/2017 11:20 AM 558.57 5/3/2017 12:01 PM 3842.09 5/3/2017 1:09 PM 3970.7 5/3/2017 1:37 PM 4035.19 5/3/2017 2:37 PM 4066.6 5/3/2017 2:32 PM 4140.96 5/3/2017 2:32 PM 4169.81 any: Lime Rock Resources 4169.81 Pell: Federal T #001 SWD Trield: LLU Trield: LLU Trield: LLU Trield: New Mexico

JOB INFORMATION SHEET

Company Name	Company Information	
Company Name:	Lime Rock Resources	
	Well Information	
Well Name:	Federal T #001 SWD	
Location:	Eddy County, NM	
Field - Pool:	Federal T	
Status:	SWD	
	Test Information	
Type of Test:	Step Rate Test	
Gauge Depth:	6750 ft	
Temperature @ Run Depth	100.03 degF	
Surface Temperature:	68.51 degF	
	Gauge Information	
	Top Recorder	Bottom Recorder
Serial Number:	79810	
Calibration Date:	10/21/16	
Pressure Range:	10000 psi	
	Comments	





DEVON ENERG	BY PRODUCTION COMPANY LP
Veli Name: FEDERAL T #1	Field: NORTH ILLINOIS CAMP MORROW
ocation: 660' FNL & 990' FEL; SEC 12-T18S-R27E	County: EDDY State: NM
levation: 3634' KB; 3618' GL	Spud Date: 6/28/90 Compl Date: 9/13/90
PI#: 30-015-26404 Prepared by: Norvella Adoms	Date: 9/17/08 Rev
Current Schematic L. Wolfcamp and Cisco SWD	Formation Tops Morrow 9,600-10,250' Atoka 9,230'- 9,700'
17-1/2" Hole 13-3/6", 58#, LTC, @ 472" Cmt'd w/450 Sx. Circ to surface	Upper Wolfcamp 6,400' - 7,200' Abo 5,600' - 6,200' Yeso 3,300' 0 3,900' San Andres 2,000' - 2,800' Queen 1,450' - 1,650'
12-1/4" Hole 8-5/8", J55, 32#, STC, @ 2,589' Crit'd v:/900 Sx	AND THE STATE OF T
	3-1/2", 9.3 #, NB0, Injection tubing @ 6789"
	5-1/2" IPC Packer @ 6,789'
<u>WOLFCAMF</u> (8/21/93) 6,868' - 7,038'	
WOLFCAMP (8/18/93) 7,092' - 7,097'; 7,120' - 7,146'	
WOLFCAMP (8/16/93) 7,330' - 7,340'; 7,350' - 7,360'	
SWD Perforations: CISCO (8/1/93) 7,685' - 7,695'	Frac 7758-7840' with 4500 gets 15% Spearneed acid and 119,255 gets Spectra Star 2500 + 106,750 ± 100% 20/40 White sand.
CISCO (8/14/08) 7758'-7840' (228 holes)	Frec 7893'-8060' with 5040 gals 15% HCl acid and 120,372
CISCO (8/13/08) 7893'-8060' (140 holes)	gals Spectra Star 2500 + 167,552 # 100% 20:40 White send.
A magnifed later, makes differ a facility of the distribution fragment of the decision of the contract of the	35' cement. 9,005' PBD CIBP @ 9,040' (7/21/93)
4" Liner top @ 9.055' 7-7/8" Hole 5-1/2", N80, 17#, LTC, @ 9,473' Cmid w/430 Sx	SWEET CASES
<u>MORROW</u> (9/14/90) 10,008' - 10,014' 10,038' - 10,054'	CIBP @ 9,950' (7/19/93)
4-3/4" Hole 4" 10,46#, L80 Liner @ 9,055" - 10,141' Cmt'd w/80 Sx	10,190' PBD 10,141' TD

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

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 315977

CONDITIONS

No see a	
Operator:	OGRID:
NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE	264235
1220 S St Francis Dr	Action Number:
Santa Fe , NM 87504	315977
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created E	ly Condition	Condition Date
pgoetze	None None	2/20/2024