Initial IPI Application

07/06/2022

This application is placed in file for record. It MAY or MAY NOT have been reviewed to be determined Administratively Complete

Revised March 23, 2017

Locatives	Lacurura	LTVDS	Labore
RECEIVED:	REVIEWER:	TYPE:	APP NO:
THIS	- Geologica 1220 South St. Fra ADMINISTRA CHECKLIST IS MANDATORY FOR ALL	al & Engineering ancis Drive, San ATIVE APPLICAT ADMINISTRATIVE APPLIC	ATION DIVISION g Bureau – ta Fe, NM 87505 ION CHECKLIST ATIONS FOR EXCEPTIONS TO DIVISION RULES AND
		JIRE PROCESSING AT THE	E DIVISION LEVEL IN SANTA FE
Applicant: Mack			OGRID Number: 013837
Well Name: Round			API: 30-005-64095 Pool Code: 96101
Pool: SWD; Devonian	n .		1 001 00uc. <u>30001</u>
		INDICATED BEL	
A. Location	LICATION: Check those - Spacing Unit - Simulta NSL NSP(PROJ	aneous Dedication	
[I] Com [II] Inje [II] Inje 2) NOTIFICATION A. Offsee B. Roya C. Appli D. Notifi E. Notifi F. Surfa G. For a H. No no	otice required	C PC C Ire Increase - Enl ID IPI C those which applyers ners, revenue over a notice at approval by SI notification or p	FOR OCD ONLY Notice Complete Application Content Complete Publication is attached, and/or,
administrative understand the	e approval is accurate a	nd complete to en on this applic	submitted with this application for the best of my knowledge. I also cation until the required information and
N	ote: Statement must be complete	ed by an individual wit	th managerial and/or supervisory capacity.
			7// 100
Jerry W. Sherrell			7/6/22 Date
Print or Type Name			
			575-748-1288
0,1	SI PO		Phone Number
Signature	June		jerrys@mec.com e-mail Address



P.O. Box 960 Artesia, NM 88211-0960 Office (575) 748-1288 Fax (575) 746-9539

July 6 2022

Oil Conservation Division Attn: Dean McClure 1220 South St. Francis Drive Santa Fe, NM 87505

Dear Sir or Madam:

On June 10th of 2022 Mack Energy Corporation performed a NMOCD approved Step Rate Test with the intention of acquiring approval to increase our maximum allowable injection pressure. During our Step Rate Test on June 10th MEC performed a 10 step test starting at 1 BPM (increasing by .5 BPM each step – using produced water 1.098 SG) and finishing at 5.5 BPM. After shutting down an ISIP of 2,581 psi was recorded, which respectively gives a .72 psi/ft fracture gradient.

With the recorded results Mack Energy would like to propose the new maximum allowable injection pressure to be increased to 4,300 psi (or .41 psi/ft gradient) with an approximate injection rate of 5.5 bpm (7,900 bbls/day). Respectively under the current maximum injection pressure of 2,100 psi MEC is capable of injecting roughly 3,700 bbls.

Should you have any questions please contact me @ 575-748-1288.

Sincerely,

Cole A. Ponce

Operations Engineer

ColePonce@mec.com

CAP/ 2

Enclosures Well List

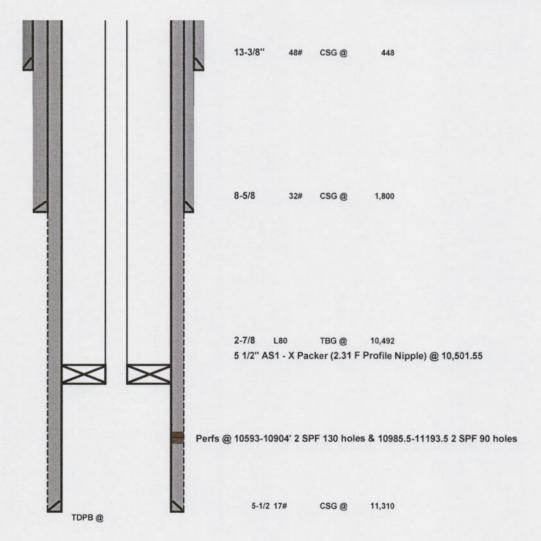
Round Tank SWD #1

30-005-64095

SWD; Devonian

Company				
Author:	Cole Ponce - MEC			
Well Name	Round Tank SWD	Well No.	#	1
Field/Pool		API#:	30-005	-64095
County	Chaves	Location:	K-19-1	5S-29E
State	New Mexico		1980 FSL	1980 FWL
Spud Date	4/1/2009	GL:	37	35

Description	O.D.	Grade	Weight	Depth	Hole	Cmt Sx	TOC
Surface Csg	13-3/8"	H40	48#	448	17-1/2	795	Surf
Inter Csg	8-5/8	J55	32#	1,800	12-1/4	725	Surf
Prod Csg	5-1/2	HCL- 80	17#	11,310	7-7/8	1,650	Surf
Prod Tbg	2-7/8	L80	6.5#	10,492			



State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division Artesia District Office

RD ADENIHEAD TEST DEDOOT

							DKA	DUNDE	AD 153	I KEP	JKI				
	Operator Name Mack Energy Corporation									• API Number 30-005-64095					
Property Name Round Tank SWD									Well No.						
					·			7. Surfac	e Locatio	ת					
UL - Lot K	Section 19	Town 15S		Range 29E				Feet from 1980	140	Line outh		t From 980		E/W Line West	County Chaves
		-						Well	Status	•					
TA'	D well	\prod	SHUT-IN				INJECTO	R	PF	RODI	JCER		/	DATE	
			Y	ES	N	0	IN.		SWD	OIL		<u>GA</u>	S	6	1-22
								OBSERV	<u>/ED DA</u>	<u>.TA</u>					
			(A) S	urf-Interm	<u>.</u>	(B) I	nterm, (1	7	Interm.	(2)		Prod	Casin	g	(E) Tu ing
Pressure														·	O'
Flow Chara			··-		•					·		.		· "=	
	uff			Y/W		,	//N		Y/N	Г		Y)/N		'	C02
Steady	Flow			Y/N		7	//N		Y/N		7	Y/N			WTR GAS
Sur	ges			Y/\		7	//N		Y/N		7	Y / N		•	If applicable type
Down to n	othing			Y/W		,	//N		Y/N		7	Y/N		·	fluid injected for
Gas o	r Oil			Y/N		7	//N		Y/N		,	Y / N			Waterflood
Wat	er			W/Y	<u> </u>	7	//N		Y/N	Ī	7	Y / N			Watermood
f Braden bea	d flowed wa	ter, che	ck the	description	s that a	pply;			<u> </u>			 1			
CLEAR			FRES				SALT			SULFUR				BLACK	
Remarks: P	lease state	for eac	h stri	ng (A, B, (C, D, I	E) perti	inent info	ermation reg	arding ble	ed down o	r cont	inuous b	uild u	p if applie	s
	Tox		,	/	1										

1851 GBOC

Signature: De S	OIL CONSERVATION DIVISION
Printed name: Danny Smolik	Entered RBDMS
Title: Compliance Office	Re-test
E-mail Address: danny.smolik@state.nm.us	
Date: 6 -7 - 22 Phone: 575-626-0836	
Witness:	

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

CONDITIONS

Action 118002

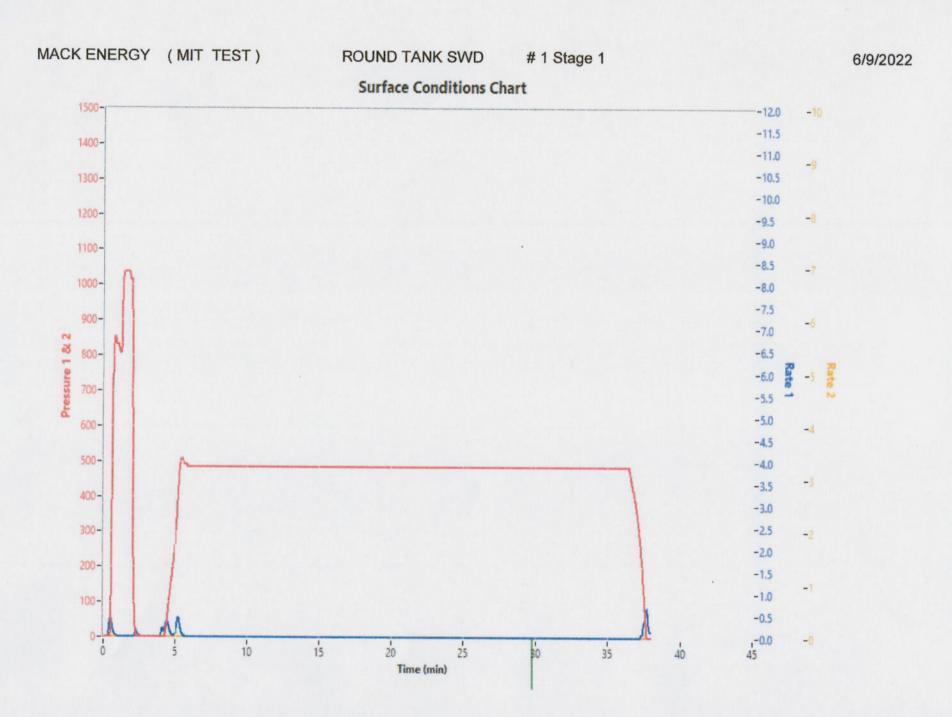
COND	ITIONS
CUIVE	LIWING

Operator:	OGRID:
MACK ENERGY CORP	13837
	Action Number:
Artesia, NM 882110960	118002
	Action Type:
	[UF-BHT] Bradenhead Test (BRADENHEAD TEST)

CONDITIONS

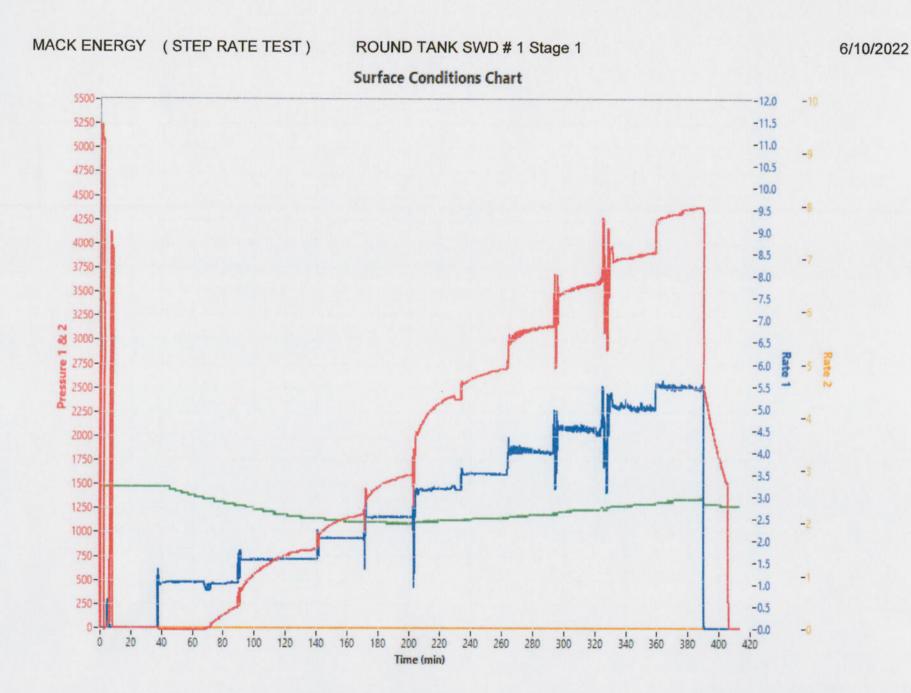
Created By	Condition Date
kfortner	6/16/2022

er en		CPS	3 Trea	tmen	t Repo	ort		page 1
	Customer:						RIRZCF8A9F	1-9-
Well	Name & No.:	ROUND T	ANK SWD	#1		Formation:		
		CHAVEZ				Date:	June 9, 2022	
	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	NEW MEX	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO			Well type:	Oil / Old /	Stim.
		stomer Info	ormation					
	Address:						CILBR	A
	City, State:					1	CUDD	7
Customer Ban	Zip Code:							
Customer Rep	resentative:					_	PUMPING SERVICE	S
				Ren	narks			
			The second secon		THE STREET		Arrive on Location:	
			Phillips and the second				Depart Location:	
	-	W			and the same of the same of		Total Hours:	
			O.D	Weight	I.D		Volume	Bbls/linear f
	1 length ft.:		2 7/8	6.5	2.441		0.00 BBLS.	0.00579
	2 length ft.:		-	-			0.00 BBLS.	0.00000
	1 length ft.:		5 1/2	17	4.892		0.00 BBLS.	0.02325
	2 length ft.: le length ft.:		N/A	N/A			0.00 BBLS.	0.00000
	ed Depth ft.:		N/A	N/A		Annular Vol.:	0.00 BBLS.	0.00000
Combine	a Depui it					#	0.00 BBLS.	0.01522
		Depth	Vol.					Water bourse
	f/Open Hole:				m Pressure		ISIP:	
	f/Open Hole:			- Charles Control of the Control of	ge Pressure			
Num	ber of Perfs:				ximum Rate		10 min:	
	Perf Size: acker Depth:		in.		verage Rate to Recove		15 min:	
Time	Pressure 1		Rate	Stage	Total	E	Proppant Total: Comments	
10:42:12 AM	0	0	0.0	0.0	0.0	SAFETY MEE		
10:44:21 AM	1037	0	0.0	0.0	0.0		ESTED LINES	
10:48:28 AM	507	0	0.0	0.0	0.0		NITOR 30 MINUTES	500 PSI
11:21:50 AM 11:24:00 AM	486	0	0.0	0.0	0.0	RATE & PSI C	N PRESSURE	-
11.24.00 AW	0	0	0.0	0.0	0.0	STEPN RATE		
1:49:19 PM	1567	0	0.0	0.0	0.0	PREESURE E	BACKSIDE	1500 PSI
						PRESSURE T	ESTED LINES	
3:12:55 PM	507	0	0.0	0.0	0.0	PRESSURE S	SURFACE VALVE	500 PSI
							A. () () () () () () () () () (NO.
			-					
			-					



		CPS	Troa	tmon	t Pana	set		
		The second secon		unen	t Repo			page 1
Mail A	Customer:	_		#1		ESO#: Formation:	RIRZCF8A9F	
AAGII L	Name & No.:		ANK SWD	L 40, 0000				
		NEW MEXI	CO			Well type:	June 10, 2022	Otim
	The same of the sa	stomer Info	THE RESERVE WHEN PERSON NAMED IN			wen type.	Oil / Old /	Stim.
		P.O. BOX 9				-		
	City, State:					4	CUDD	1
	Zip Code:		AIAI			-		7
Customer Rep		00211					DUMPING GEDVICES	
						'	PUMPING SERVICES	
				Ren	narks			
				MINING CO. CO. CO. CO.			Arrive on Location:	7:00 AM
							Depart Location:	3:00 PM
							Total Hours:	8.00
			O.D	Weight	I.D			3bls/linear
	1 length ft.:	10,501	2 7/8	6.5	2.441		60.78 BBLS.	0.00579
	2 length ft.:						0.00 BBLS.	0.00000
	1 length ft.:		2 7/8	17	4.892		0.00 BBLS.	0.02325
	2 length ft.:						0.00 BBLS.	0.00000
	le length ft.:		N/A	N/A			0.00 BBLS.	0.00000
Combine	ed Depth ft.:					Annular Vol.:	0.00 BBLS.	0.01522
		Depth	Vol.		#			
Top Per	f/Open Hole:	Lopui	101.	Maximu	m Pressure:		ISIP:	2,581
	f/Open Hole:			LOW THE SERVICE	ge Pressure:		5 min:	2,120
	ber of Perfs:			- District Control of the Control	ximum Rate:		10 min:	1,797
	Perf Size:		in.	A	verage Rate:		15 min:	1,544
P	acker Depth:		ft.		to Recover:		Proppant Total:	
Time	Pressure 1		Rate	Stage	Total		Comments	
7:41:00 AM	0	0	0.0	0.0	0.0	SAFETY MEE		
7:49:00 AM 7:53:00 AM	5046 4120	0	0.0	0.0	0.0		ESTED LINES	
7.00.00 AW	4120	0	0.0	0.0	0.0	PRESSURE I	EST WIRELINE	
						STEP RATE T	EST	
8:47:07 AM	0	1468	1.0	3.0	3.0	STEP 1 1BPM	FOR 30 MIN	
9:28:29 AM	115	1317	1.0	40.0	43.0	RATE & PSI C		
9:31:05 AM 9:40:15 AM	138 392	1317 1273	1.0	2.0	45.0	RATE & PSI C		
9:50:20 AM	576	1230	1.5	11.0 15.0	56.0 71.0	RATE & PSI C	PM FOR 30 MIN	
10:02:00 AM	714	1209	1.5	19.0	90.0	RATE & PSI C		
10:10:14 AM	760	1187	1.5	12.0	102.0	RATE & PSI C		
10:30:44 AM	829	1144	1.5	30.0	132.0	RATE & PSI C	CHECK	
	945	1144	2.0	3.0	135.0		M FOR 30 MIN	
10:30:47 AM					16/10			
10:30:47 AM 10:40:52 AM	1083	1122	2.0	19.0	154.0	RATE & PSI C		
10:30:47 AM 10:40:52 AM 10:51:09 AM	1083 1152	1101	2.0	20.0	174.0	RATE & PSI C	CHECK	
10:30:47 AM 10:40:52 AM	1083				174.0 193.0	RATE & PSI C	CHECK	
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10:30:47 AM 10:40:52 AM 10:51:09 AM 11:00:12 AM 11:02:36 AM 11:13:05 AM 11:23:09 AM 11:32:20 AM 11:34:41 AM 11:44:53 AM 11:54:43 AM 12:04:30 PM 12:05:24 PM 12:15:35 PM	1083 1152 1198 1336 1498 1567 1590 2028 2221 2373 2373 2535 2627	1101 1101 1101 1101 1079 1079 1101 1101	2.0 2.0 2.5 2.5 2.5 3.0 3.0 3.0 3.0 3.5 3.5	20.0 19.0 5.0 26.0 25.0 23.0 5.0 32.0 31.0 30.0 36.0	174.0 193.0 198.0 224.0 249.0 272.0 277.0 309.0 340.0 370.0 373.0 409.0	RATE & PSI C RATE & PSI C STEP 4 2.5 B RATE & PSI C RATE & PSI C STEP 5 3 BPN RATE & PSI C RATE & PSI C RATE & PSI C RATE & PSI C RATE & PSI C	CHECK	

		Treatm	ent Re	port C	Continu	ation	RIRZCF8A
Time	Tub. Psi	Ann. Psi	Rate	Stage	Total	Comments	Pag
12:56:56 PM	3157	1187	4	41	563.0	RATE & PSI CHECK	
1:07:24 PM	3180	1187	4	41	604.0	RATE & PSI CHECK	
1:11:24 PM	3479	1209	4.5	16	620.0	STEP 8 4.5 BPM FOR 30 MIN	
1:20:50 PM	3525	1230	4.5	42	662.0	RATE & PSI CHECK	
1:31:26 PM	3594	1230	4.5	48	710.0	RATE & PSI CHECK	
1:40:16 PM	3664	1252	4.5	38	748.0	RATE & PSI CHECK	
1:48:00 PM	3905	1273	5	23	771.0	STAGE 9 5 BPM FOR 30 MIN	
1:55:41 PM	3848	1273	5	54	824.0	RATE & PSI CHECK	
2:06:07 PM	3894	1295	5	51	875.0	RATE & PSI CHECK	
2:16:02 PM	3894	1295	5	47	922.0	RATE & PSI CHECK	
2:17:08 PM	4263	1317	5	7	929.0	STAGE 10 5.5 BPM	
2:27:08 PM	4309	1338	5	55	984.0	RATE & PSI CHECK	
2:37:14 PM	4355	1338	5	56	1040.0	RATE & PSI CHECK	
2:48:18 PM	2581	1295	5	50	1090.0	SHUTDOWN	

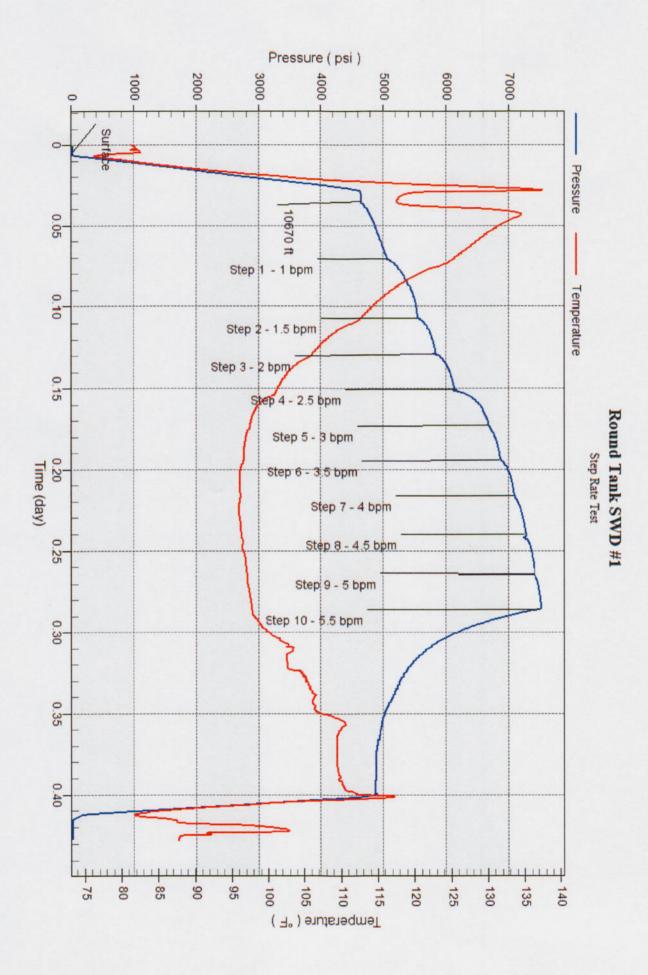




Round Tank SWD #1 June 10, 2022

JOB INFORMATION SHEET

	Company Informat	tion
Company Name:	Mack Energy Corp.	
	Well Information	n
Well Name:	Round Table SWD #1	·
Location:	Chavez County, NM	
Field - Pool:	Round Table SWD	
Status:	Disposal Well	
	Test Information	n
Type of Test:	Step Rate Test	
Gauge Depth:	10670 ft	
Temperature @ Run Depth	137.42 degF	
Surface Temperature:	73.9 degF	·
	Gauge Information	
	, Top Recorder	Bottom Recorder
Serial Number:	81287	
Calibration Date:	3/21/22	
Pressure Range:	10 <u>0</u> 00 psi	<u> </u>
	Comments	
Step Rate Test		
Set at 10,670ft		
Step Rate Test for 10 Steps		
*Tablea about access	aforell 10/adra differential carression	4
i ools were stuck coming out	of well. Worked free and came ou	ι



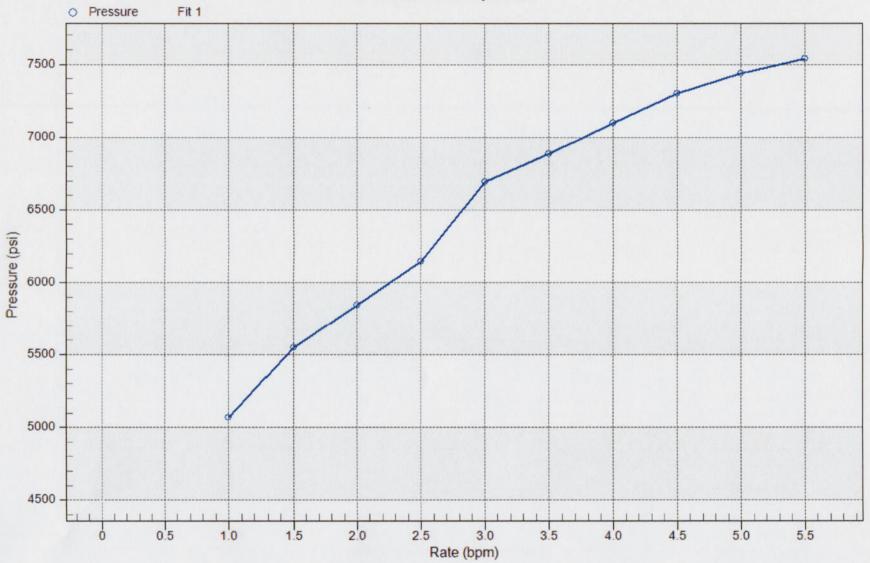
Pressure and Temperature Report

Round Tank SWD #1 Step Rate Test

Rate	Pressure	Temperature
bpm	psi	degF
Step 1 - 1.00	5065.60	125.11
Step 2 - 1.50	5550.22	112.63
Step 3 - 2.00	5846.45	106.01
Step 4 - 2.50	6146.04	101.15
Step 5 - 3.00	6690.54	97.42
Step 6 - 3.50	6887.23	96.50
Step 7 - 4.00	7094.73	96.05
Step 8 - 4.50	7301.50	96.20
Step 9 - 5.00	7437.62	97.00
Step 10 - 5.50	7537.34	97.71

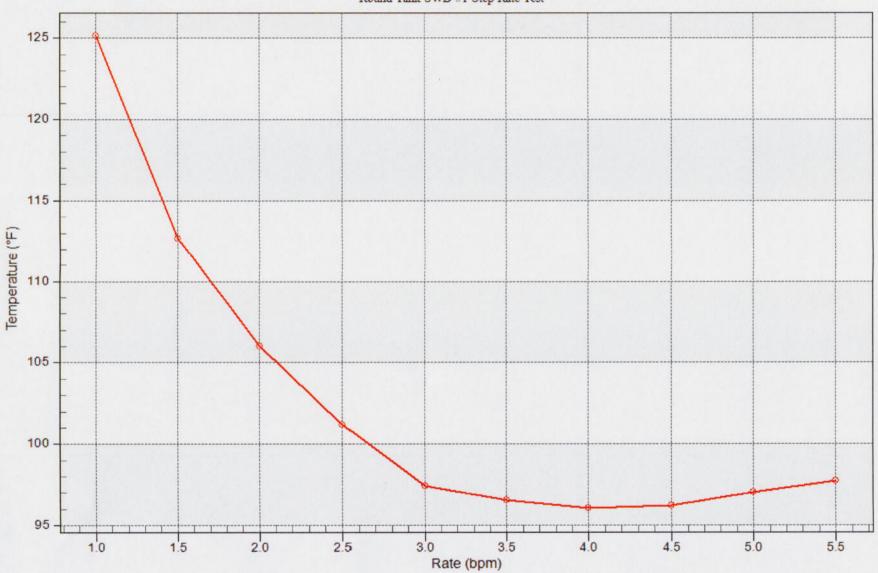
Pressure vs Rate

Round Tank SWD #1 Step Rate Test



Temperature vs. Rate

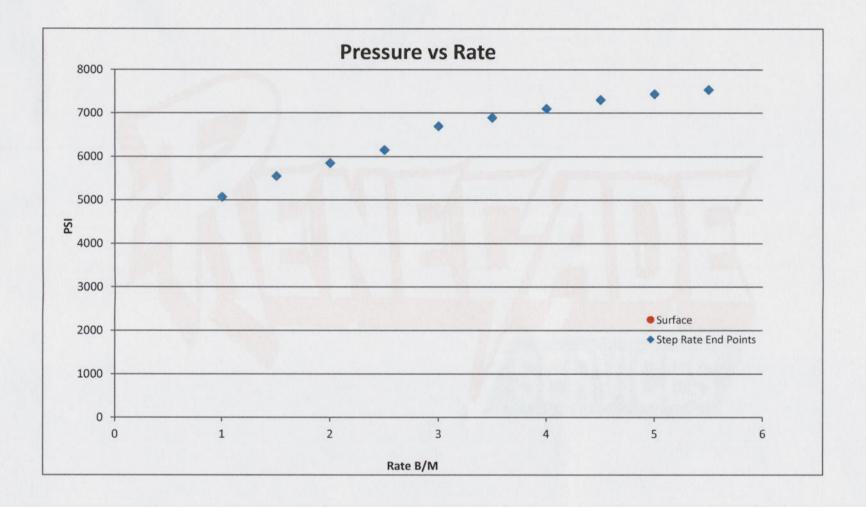
Round Tank SWD #1 Step Rate Test





STEP RATE TEST

	RATE B/D	Date	Time	BH PRESS		Comments
Step 1	1	6/13/2022	9:37 AM	5065.6		
Step 2	1.5	6/13/2022	10:27 AM	5550.22		,
Step 3	2	6/13/2022	11:00 AM	5846.45		
Step 4	2.5	6/13/2022	11:32 AM	6146.04		
Step 5	3	6/13/2022	12:04 PM	6690.54		
Step 6	3.5	6/13/2022	12:35 PM	6887.23		
Step 7	4	6/13/2022	1:07 PM	7094.73		
Step 8	4.5	6/13/2022	1:40 PM	7301.5		
Step 9	5	6/13/2022	2:16 PM	7437.62		
Step 10	5.5	6/13/2022	2:47 PM	7537.34		
	Company:	Mack Energ	v Corporatio	n	Recorded By:	M Flores
		Round Tank			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Round Tank		Medic Basilita		
	County:				District:	Levelland
		New Mexico				
0						
Seat Nipple Depth: Perforations:						
Plug Back Depth						



MAR 1 1 2009

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor

Joanna Prukop Cabinet Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



Administrative Order SWD-1163

March 9, 2009

Jerry W. Sherrell Mack Energy Corp PO Box 960 Artesia, NM 88211-0960

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Rule 26.8B., Mack Energy Corp seeks an administrative order to utilize its Roundtank SWD Well No. 1 (API 30-005-64095) located 1980 feet from the South line and 1980 feet from the West line, Unit K of Section 19, Township 15 South, Range 29 East, NMPM, Chaves County, New Mexico, for produced water disposal purposes.

THE DIVISION DIRECTOR FINDS THAT:

The application has been duly filed under the provisions of Division Rule 26.8B. Satisfactory information has been provided that affected parties as defined in Rule 26.8B.(2) have been notified and no objections have been received within the prescribed waiting period. The applicant has presented satisfactory evidence that all requirements prescribed in Rule 26.8 will be met and the operator is in compliance with Division Rule 5.9.

IT IS THEREFORE ORDERED THAT:

The applicant Mack Energy Corp, is hereby authorized to utilize its Roundtank SWD Well No. 1 (API 30-005-64095) located 1980 feet from the South line and 1980 feet from the West line, Unit K of Section 19, Township 15 South, Range 29 East, NMPM, Chaves County, New Mexico, for disposal of produced water into the Devonian formation from approximately 10500 feet to 11200 feet through 2-7/8 inch or smaller diameter, plastic-lined tubing set within 100 feet of the disposal interval.

As preparation and prior to commencing disposal, the operator shall perform the following work on the subject well:

- 1) Unless hole-conditions prevent this, run openhole resistivity and porosity logs from total depth to surface and supply copies of these electric logs to the Division (send to Hobbs district for scanning).
- 2) Send a copy of a mudlog with plots of lithology, drilltimes, and any hydrocarbon



Administrative Order SWD-1163 Mack Energy Corp March 9, 2009 Page 2 of 3

shows through this Devonian interval - OR

3) If a mudlog is NOT available, perforate and swab test the new perforations for hydrocarbon potential and catch a water sample for analysis. The Division's district office shall be noticed prior to this test and given the opportunity to witness the swab test. The results of the swab test and water analysis shall be sent to the Division attached to a sundry notice.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the disposed water enters only the proposed disposal interval and is not permitted to escape to other formations or onto the surface.

After installing tubing, the casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer. The casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to no more than 2100 psi. In addition, the disposal well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface tubing pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in tubing pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the disposed fluid from the target formation. Such proper showing shall be demonstrated by an acceptable Step-Rate-Test.

The operator shall notify the supervisor of the Division's district II office in Artesia of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed. The operator shall provide written notice of the date of commencement of disposal to the Division's district II office. The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Division Rules 26.13 and 7.24.

Without limitation on the duties of the operator as provided in Division Rules 30 and 29, 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.

In accordance with Division Rule No 26.12.C., the disposal authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request, mailed by the operator prior to the termination date, may grant an extension thereof for good

Administrative Order SWD-1163 Mack Energy Corp March 9, 2009 Page 3 of 3

cause. One year after disposal into the well has ceased, the authority to dispose will terminate ipso facto.

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.

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, terminate the disposal authority granted herein.

MARK E. FESMIRE, P.E.

Director

MEF/wvjj

cc: Oil Conservation Division - Artesia
State Land Office - Oil, Gas, and Minerals Division

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 197620

CONDITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	197620
	Action Type:
	[IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	3/15/2023