

Submit 1 Copy To Appropriate District Office
 District I- (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II- (575) 748-1283
 1301 W. Grand Ave., Artesia, NM 88210
 District III- (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV- (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-005-64095
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Mack Energy Corporation		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 960 Artesia, NM 88210		7. Lease Name or Unit Agreement Name Round Tank SWD
4. Well Location Unit Letter <u>K</u> <u>1980</u> feet from the <u>South</u> line and <u>1980</u> feet from the <u>West</u> line Section <u>19</u> Township <u>15S</u> Range <u>29E</u> NMPM County <u>Chaves, NM</u>		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR etc.) 3735' GR		9. OGRID Number 013837
		10. Pool Name or Wildcat SWD; Devonian

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIALWORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐	Step Rate Test ☒	OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Mack Energy Corporation would like to conduct a Step Rate Test on the Round Tank SWD #1.

1. Notify NMOCD of plan to perform SRT 72 hours before SRT.
2. Shut well in 48 hours before SRT.
3. MIRU frac tanks for needed water volume (~2500 bbls) IF facility and pond cannot be used or do not have enough capacity.
4. MIRU Crain Acidizing. (Tubing, casing, rate sensors)
5. Perform MIT test and bradenhead test (if required by district).
6. MIRU Renegade Wireline.
7. Make gauge ring run down tubing with wireline.
8. POH w/ wireline.
9. RU Spartek 1 1/4" Sapphire Memory Gauge.
10. RIH with wireline and memory gauge to mid perf (~10,900) to record BHP during SRT.
11. Begin SRT test at 1 BPM increasing by .5 BPM unless otherwise instructed by NMOCD. Each step in the test MUST be 30 minutes unless otherwise instructed by NMOCD.
12. The intent is to complete a SRT with at least three (3) steps below the 0.5 psi/ft gradient and three (3) steps above the fracture parting pressure (breakdown pressure).

Spud Date:

3/31/2009

Rig Release Date:

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

SIGNATURE Jerry W Sherrell TITLE Regulatory Supervisor DATE 5/17/22

Type or print name Jerry W Sherrell E-mail address: jerrys@mec.com PHONE: 575-748-1288

For State Use Only

APPROVED BY: Dean R McClure TITLE Petroleum Engineer DATE 05/18/2022

Conditions of Approval (if any):

Perform Bradenhead and MIT prior to conducting SRT.

MACK ENERGY CORPORATION
Round Tank SWD #1
API # 30-005-64095
SEC 19, T15S R29E

Well Information

Casing:

Existing Casing: all depths are with 17.5' KB.

<u>Hole</u>	<u>MD (ft)</u>	<u>Casing</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>	<u>Comments</u>
17 1/2"	0-448'	13 3/8"	48#	H-40	ST & C	Did not Circ. 1" plugs to surf.
12 1/4"	0-1,800'	8 5/8"	32#	J-55	ST & C	Circ. 122sx
7 7/8"	0-9,813'	5 1/2"	17	L-80	LT & C	
7 7/8"	9,813'-11,310'	5 1/2"	17	HCL-80	Buttress	

Tubing:

<u>Down Hole BHA</u>	<u>Length (ft)</u>	<u>Total Depth (ft)</u>
KB	10	10
1 Jt 2 7/8" IPC tbg	31.55	41.55
6' and 4' 2 7/8" IPC pup Jts	10	51.55
332 Jts 2 7/8" IPC tbg	10,440.92	10,492.47
5 1/2" AS1 – X Packer (2.31 F Profile Nipple	9.08	10,501.55

Directions

From the intersection of St. Hwy #31 and county road 217 turn south approx 5.3 miles. Turn right and go northwest approx 1.1 miles. The location is east approx 250ft.

Zones

Perf #	Perfs	Phasing	# settings	# of shots
2 nd	10,985'-11,1193.5'		2 SPF	130
1 st	10,593'-10,904'		2 SPF	90

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4. MIRU Crain Acidizing. (Tubing, casing, rate sensors)
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10. RIH with wireline and memory gauge to mid perf (~10,900) to record BHP during SRT.
11. Begin SRT test at 1 BPM increasing by .5 BPM unless otherwise instructed by NMOCD. Each step in the test **MUST** be 30 minutes unless otherwise instructed by NMOCD.
12. The intent is to complete a SRT with at least three (3) steps below the 0.5 psi/ft gradient and three (3) steps above the fracture parting pressure (breakdown pressure).

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Tentative SRT Pump Schedule

Step	Rate	Step Time (Minutes)	Step Volume (BBLs)	Cumulative Time (Minutes)	Cumulative Volume (BBLs)
1	1	30	30	30	30
2	1.5	30	45	60	75
3	2	30	60	90	135
4	2.5	30	75	120	210
5	3	30	90	150	300
6	3.5	30	105	180	405
7	4	30	120	210	525
8	4.5	30	135	240	660
9	5	30	150	270	810
10	5.5	30	165	300	975
11	6	30	180	330	1155
12	6.5	30	195	360	1350
13	7	30	210	390	1560
14	7.5	30	225	420	1785
15	8	30	240	450	2025
16	8.5	30	255	480	2280
17	9	30	270	510	2550
18	9.5	30	285	540	2835
19	10	30	300	570	3135

NOTE – Schedule is derived based on past unofficial SRT results and FG (on the following page). Schedule is subject to change based on test conditions, well conditions and/or recommendations per NMOCD representative.

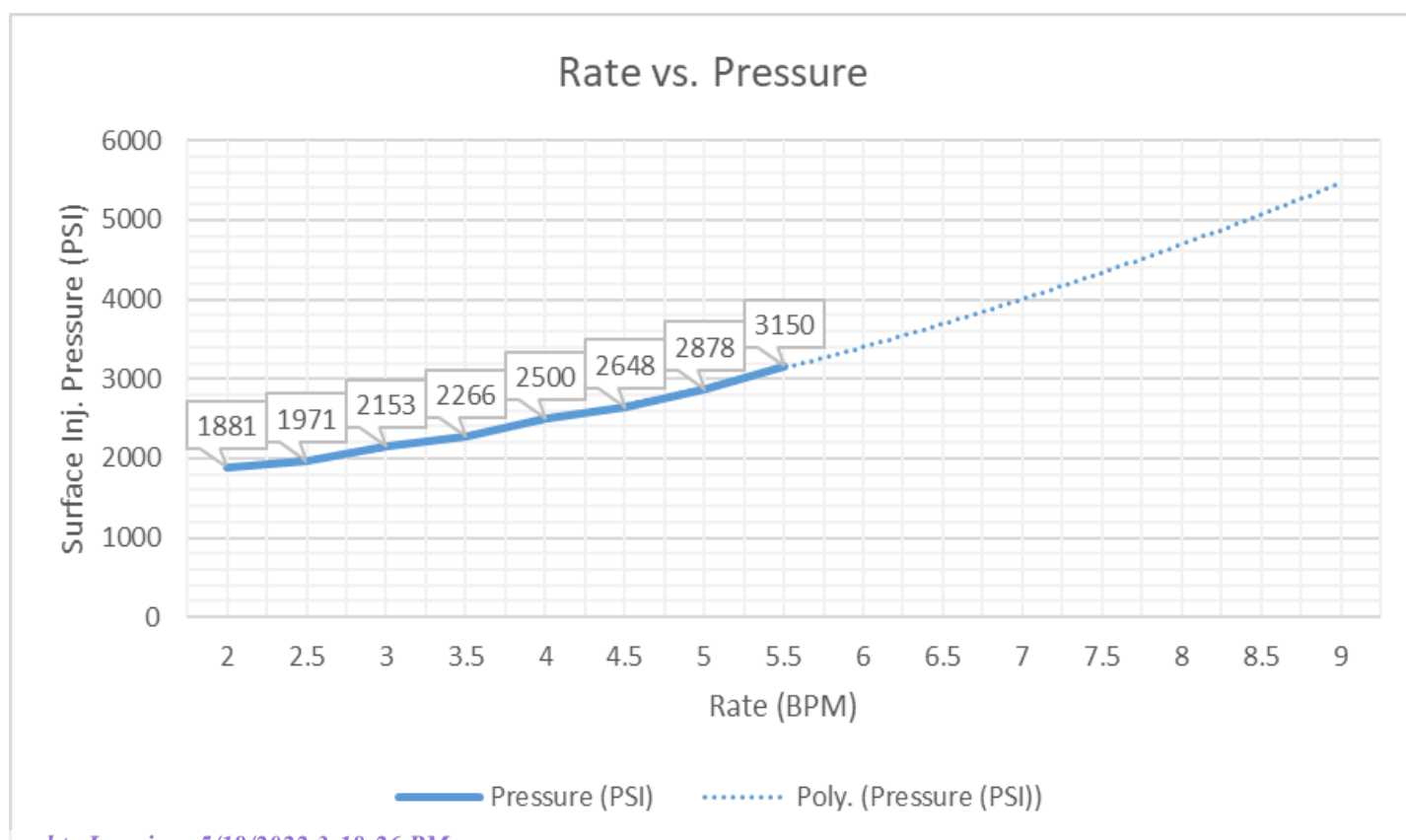
MACK ENERGY CORPORATION
Round Tank SWD #1
API # 30-005-64095
SEC 19, T15S R29E

Step Rate Test Performed 12/2020

SRT 12/15/2020	
Rate (BPM)	Pressure (PSI)
5.5	3150
5	2878
4.5	2648
4	2500
3.5	2266
3	2153
2.5	1971
2	1881
ISIP	1150
5 min	838
10 min	680
15 min	589
FG	0.592162258

Round Tank SWD		
Top Perf Set	10593	10904
Bottom Perf	10985	11193
Max Inj Pressure	2118.6	-

FG - Calculated using top perforation depth and 9.3 ppg PW.



Round Tank SWD 1

YEAR/MONTH	VOLUME	PRESSURE
2017		
Jan	71678	1700
Feb	39996	1550
Mar	49118	1650
Apr	23327	1350
May	8949	1350
Jun	8281	1350
Jul	8334	1350
Aug	11951	1350
Sep	3565	1350
Oct	6998	1350
Nov	8641	1350
Dec	8801	1350
2018		
Jan	7945	1350
Feb	6336	1350
Mar	60342	1650
Apr	78388	1700
May	57165	1650
Jun	43838	1550
Jul	20615	1350
Aug	59078	1650
Sep	18203	1350
Oct	17388	1350
Nov	41798	1550
Dec	27356	1350
2019		
Jan	69346	1700
Feb	51967	1650
Mar	40936	1550
Apr	34773	1550
May	34613	1550
Jun	38128	1550
Jul	12609	1350
Aug	53223	1650
Sep	63341	1650
Oct	33790	1350
Nov	45985	1650
Dec	57459	1650
2020		
Jan	69406	1700
Feb	68225	1700

Mar	77492	1700
Apr	75478	1700
May	2771	1350
Jun	73284	1700
Jul	75956	1700
Aug	73440	1700
Sep	71988	1700
Oct	70035	1700
Nov	22071	1350
Dec	46680	1650

2021

Jan	26567	1350
Feb	57623	1650
Mar	38849	1550
Apr	80471	1700
May	85331	1700
Jun	42159	1550
Jul	35451	1550
Aug	26639	1350
Sep	24688	1350
Oct	75946	1700
Nov	96189	1700
Dec	97809	1700

2022

Jan	96729	1700
Feb	60749	1650
Mar	47554	1650

MACK ENERGY CORPORATION
DAILY WATER PRODUCTION
ROUND TANK - SWD
MAX PSI 2100

MONTH January 2022
52455PUMPER Lvan

DATE	METER	DAILY TOTAL	DAILY PSI	REMARKS
1	55662	3207	1700	FR- 3151
2	58935	3273	1700	3127
3	62068	3133	1700	3170
4	65200	3132	1700	3155
5	68396	3196	1700	3150
6	71534	3138	1700	3148
7	74613	3079	1700	3149
8	77790	3177	1700	3147
9	80914	3124	1700	
10	84095	3181	1700	
11	87311	3216	1700	3128
12	90400	3089	1700	3145
13	93510	3110	1700	3127
14	96600	3090	1700	3128
15	99700	3100	1700	3144
16	102870	3170	1700	3130
17	105933	3063	1700	3133
18	109160	3227	1700	3144
19	112331	3171	1700	3138
20	115406	3075	1700	3159
21	118604	3198	1700	3155
22	121713	3109	1700	3123
23	124843	3130	1700	3162
24	128010	3167	1700	3160
25	131240	3230	1700	3153
26	133143	1903	0	320
27	136380	3237	1700	3155
28	139496	3116	1700	3147
29	142780	3284	1700	3185
30	145967	3187	1700	3215
31	149172	3205	1700	3216

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Santa Fe, NM 87505

CONDITIONS

Action 108321

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 108321
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	Perform Bradenhead and MIT prior to conducting SRT.	5/18/2022