

Santa Fe Main Office
Phone: (505) 476-3441
General Information
Phone: (505) 629-6116

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

Online Phone Directory Visit:
<https://www.emnrd.nm.gov/ocd/contact-us/>

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

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.) 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD-2617		WELL API NO. 30-015-31436
2. Name of Operator Mack Energy Corporation		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
3. Address of Operator P.O. Box 960 Artesia, NM 88210		6. State Oil & Gas Lease No. VA15740002
4. Well Location Unit Letter K : 1979 feet from the South line and 1981 feet from the West line Section 32 Township 16S Range 27E NMPM County Eddy		7. Lease Name or Unit Agreement Name Glacier SWD
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3391.6' GR		8. Well Number 1
		9. OGRID Number 013837
		10. Pool name or Wildcat SWD; Devonian (96101)

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 request the following changes to the Glacier SWD #1 APD (action ID 172569).

Production csg/cmt: Drill 7 7/8" hole to TD @ 9,880'. RIH w/ 5 1/2", 20# L-80, LT&C @ 0-9,880', Cmt Stage 1 w/ 50bbls Pro M Spacer 12PPB P-611, tail 100sx Class C-Buzzi, yld 1.71, desity 14.2, 40% excess, 9285' slurry top. Stage 2 - 785sx Light weighth+ 2% P-202, yld 2.49, density 11, 40% excess, 1350' slurry top, tail 200sx Pro-Eco Plus Class H, yld 1.26, density 14.2, 40% excess, 8395' slurry top. Stage 3- tail 150sx Class C- GCC, yld 1.34, denisty 14.8, surface slurry top.

DV tool @ 1300' & 9285' +/-
Perforations @ 9385-9780'

Spud Date:

Rig Release Date:

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

SIGNATURE Deana Weaver TITLE Regulatory Tech II DATE 3/17/2025

Type or print name Deana Weaver E-mail address: dweaver@mec.com PHONE: 575-748-1288
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

Casing Design

Well:

Glacier SWD #1

String Size & Function:

5 1/2"

 in

Production

x

Total Depth:

9780

 ft

TVD:

9780

 ft

Pressure Gradient for Calculations

(While drilling)

Mud weight, collapse:

10

 #/gal

Safety Factor Collapse:

1.125

Mud weight, burst:

10

 #/gal

Safety Factor Burst:

1.25

Mud weight for joint strength:

10

 #/gal

Safety Factor Joint Strength

1.8

BHP @ TD for:

collapse:

5085.6

 psi

Burst:

5085.6

 psi,

joint strength:

5085.6

 psi

Partially evacuated hole?

Pressure gradient remaining:

10

 #/gal

Max. Shut in surface pressure:

3000

 psi

1st segment	9880 ft	to	0 ft	Make up Torque ft-lbs			Total ft =	9880
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
5.5 inches	20 #/ft	L-80	LT&C	4200	3150	5250		
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
8,830 psi	9,190 psi	416 ,000 #		466 ,000 #		4.653		

2nd segment	ft	to	0 ft	Make up Torque ft-lbs			Total ft =	
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
psi	psi	,000 #		,000 #				

3rd segment	0 ft	to	0 ft	Make up Torque ft-lbs			Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
psi	psi	,000 #		,000 #				

4th segment	0 ft	to	0 ft	Make up Torque ft-lbs			Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
psi	psi	,000 #		,000 #				

5th segment	0 ft	to	0 ft	Make up Torque ft-lbs			Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
psi	psi	,000 #		,000 #				

6th segment	0 ft	to	0 ft	Make up Torque ft-lbs			Total ft =	0
O.D.	Weight	Grade	Threads	opt.	min.	mx.		
inches	#/ft							
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift		
psi	psi	,000 #		,000 #				

Select	1st segment bottom	9880	S.F.	Actual	Desire
			collapse	1.736275	>= 1.125
	9780 ft to 0 ft		burst-b	3.063333	>= 1.25
	5.5 0 L-80 LT&C		burst-t	3.063333	
	Top of segment 1 (ft)	0	S.F.	Actual	Desire
Select	2nd segment from bottom		collapse	#DIV/0!	>= 1.125
			burst-b	0	>= 1.25
	0 ft to 0 ft		burst-t	0	
	0 0 0 0		jnt strngth	2.510967	>= 1.8

Glacier SWD #1 (3 Stage)

Surface-1,281' 12 ¼" hole 8 5/8"

32# K-55 In Place

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	35/65 POZ C + additives				750		
Tail	Class C + Additives				200		Circ. 150 sacks

Comments	20bbls Gelled Water. 50 sacks of 11# Scavenger cement.
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Intermediate

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead							
Tail							

Comments	
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Production- 7 7/8" hole 9,780'

TD 5 ½" 20# L-80 DV Tool @

9285' & 1300'

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	ProM Spacer 12PPB P-611+2GPB P-618+87.36PPB P-603	10			50bbls		
Tail	CLASS C - BUZZI + 0.3% P-202+10PPS P-725+0.3% P-112	14.2	1.71	8.66	100	40	9285'

Comments	20bbls Gelled Water. 20bbls Chemical wash. 50 sacks of 11# Scavenger cement.	Cu Ft per Lin Ft 86
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Glacier SWD #1 (3 Stage)

Stage 2	Slurry	Density	Yield	# of sacks	% Excess	Slurry Top
Lead	LIGHT WEIGHT + 2% P-202+1.3% P-112+5PPS P-305	11	2.49	785	40	1350
Tail	PRO-ECO PLUS CLASS H - BUZZI + PRO-ECO POZ F OG + 5% P402+2% P-201+0.2% P-12	14.2	1.26	200	40	8395

Comments:		1375 FT3
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Stage 3	Slurry	Density	Yield	# of sacks	% Excess	Slurry Top
Lead						
Tail	CLASS C - GCC + 1% P-401	14.8	1.34	150	0	Surface

Comments:		240 FT3
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Prior to any cement job it is Mack Energy policy to circulate bottoms up 1 time before commencing with cement operations. On wells where hole conditions have been an issue during the drilling and reaming process the number or circulations needs to increase to a minimum of 2 times around.

All production cement figured with an additional 10% for washout unless otherwise noted. Flush is figured with a 40' shoe joint. Do not displace more than 2bbls over calculated flush without prior approval.

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CONDITIONS

Action 443074

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 443074
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All previous COA's still apply.	3/26/2025
ward.rikala	Stage 1 Tail slurry should be Class H cement (or equivalent) and similar to the proposed Stage 2 Tail slurry ie. to be suitable for the depth/temperature across the proposed injection interval	3/26/2025