

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM130324
2. Name of Operator MACK ENERGY CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: JERRY SHERRELL E-Mail: jerrys@mackenergycorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address P.O. BOX 960 ARTESIA, NM 88211-0960	3b. Phone No. (include area code) Ph: 505.748.1288 Fx: 505.746.9539	8. Well Name and No. DAWSON CREEK FEDERAL COM 1H <i>30-005-64319</i>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 36 T15S R28E NENW 765FNL 1675FWL 32.977627 N Lat, 104.977623 W Lon		9. API Well No. <i>30-005-64319</i>
		10. Field and Pool or Exploratory Area ROUND TANK-SAN ANDRES
		11. County or Parish, State CHAVES COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Mack Energy Corporation would like to change the name of this well from Dawson Creek State Com 1H to Dawson Creek Federal Com 1H.

New C-102 and casing and cement information is attached.

327/69

RECEIVED

FEB 19 2020

EMNRD-OCD ARTESIA

All previous conditions of Approval still apply. DR

14. I hereby certify that the foregoing is true and correct. Electronic Submission #502062 verified by the BLM Well Information System For MACK ENERGY CORPORATION, sent to the Roswell Committed to AFMSS for processing by MEIGHAN SALAS on 02/05/2020 (20MMS0046SE)	
Name (Printed/Typed) JERRY SHERRELL	Title PRODUCTION CLERK
Signature (Electronic Submission)	Date 02/04/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>[Signature]</i> <i>Dylan Rossmanigo</i>	Title <i>PE</i>	Date <i>2/18/20</i>
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office <i>(FO)</i>	

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RWP 2-20-2020

District I
1625 N French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0729
District II
811 S First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-005-64319	Pool Code 52770	Pool Name Round Tank, San Andres
Property Code 322479 327169	Property Name DAWSON CREEK FEDERAL COM	Well Number 1H
GRID No. 13837	Operator Name MACK ENERGY CORPORATION	Elevation 3585.2

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	15 S	28 E		765	NORTH	1675	WEST	CHAVES

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	24	15 S	28 E		2629	SOUTH	1650	WEST	CHAVES

Dedicated Acres 240	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Terre W. Sherrell</u> Date: <u>1/29/2020</u> Printed Name: <u>Terre W. Sherrell</u> Email Address: <u>terres@mecc.com</u>		"SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 28, 2020 Date of Survey Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>725400015</u> JAR ARILLO, PLS 12797 NEW MEXICO PROFESSIONAL SURVEYOR NO. 6319A	
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RwP 2-20-2020

Dawson Creek Federal Com #1H

Surface- 17 1/2" bit 200' 13 3/8" 48# J-55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	RFC + 12% PF53+2%PF1+5ppsPF42+ .125ppsPF29	14.4	1.61	7.357	250		
Tail	Class C+1%PF1	14.8	1.34	6.323	200	100	

Comments	20bbls Gelled Water. 50 sacks of 11# Scavenger cement.	Cu. Ft per Lin. Ft 347
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Intermediate- 12 1/4" bit 1,200' 9 5/8"-36# J-55

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead							
Tail	Class C+1%PF1	14.8	1.34	6.323	585	100	Surface

Comments	20 bbls Gelled Water. 50 sacks of 11# Scavenger cement.	Cu. Ft per Lin. Ft 469.8
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Production- 8 3/4" bit 11,247' 7" 26# HCP-110. 3,100' Crossover 7"X 5 1/2". 5 1/2"-17# HCP-110 ' 8,147'

Stage 1	Slurry	Density	Yield	Mix H2O Gals./sk	# of Sacks	% Excess	Slurry Top
Lead	Class "C" 4% PF20+4 pps PF45+125pps PF29	13.2	1.84	9.914	370	40	Surface
Tail	PVL+1.3 (BWOW) PF44+5%PF174+.5%PF606+.1%P F153+.4ppsPF44	13	1.48	7.577	2130	40	2,000'

Casing Design Well: Dawson Creek Federal Com #1H

String Size & Function: 13 3/8 in surface X intermediate

Total Depth: 200 ft

Pressure Gradient for Calculations (While drilling)

Mud weight, collapse: 9.6 #/gal Safety Factor Collapse: 1.125

Mud weight, burst: 9.6 #/gal Safety Factor Burst: 1.25

Mud weight for joint strength: 9.6 #/gal Safety Factor Joint Strength: 1.8

BHP @ TD for: collapse: 99.84 psi Burst: 99.84 psi joint strength: 99.84 psi

Partially evacuated hole? Pressure gradient remaining: 10 #/gal

Max. Shut In surface pressure: 500 psi

1st segment	200 ft	to	0 ft	Make up Torque ft-lbs			Total ft =
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
13.375 inches	48 #/ft	J-55	ST&C	3,220	2,420	4,030	200
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift			
740 psi	2,370 psi	433,000 #	744,000 #	12,559			

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

Select	1st segment bottom	200	S.F.	Actual	Desire
			collapse	7.411859	>= 1.125
			burst-b	4.700889	>= 1.25
			burst-t	4.74	
	200 ft to 0 ft				
	13.375 0 J-55 ST&C				
	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
			burst-t	0	
	0 ft to 0 ft		int strngth	52.88966	>= 1.8
	0 0 0 0				

Casing Design Well: Dawson Creek Federal Com #1H

String Size & Function: 9 5/8 in surface intermediate

Total Depth: 1200 ft TVD: 1200 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: 624 psi Burst: 624 psi joint strength 624 psi

Partially evacuated hole? Pressure gradient remaining: 10 #/gal

Max. Shut In surface pressure: 500 psi

1st segment	1200 ft	to	0 ft	Make up Torque ft-lbs	Total ft =
O.D.	Weight	Grade	Threads	opt. min. mx.	
9.625 inches	36 #/ft	J-55	ST&C	3,940 2,980 4,930	1200
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift	
2,020 psi	3,520 psi	394,000 #	564,000 #	6,765	

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

Select	1st segment bottom	1200	S.F.	Actual	Desire
			collapse	3.237170	>= 1.125
			burst-b	7.04	>= 1.25
			burst-t	7.04	
	1200 ft to 0 ft				
	9.625 0 J-55 ST&C				
	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
			burst-t	0	
	0 ft to 0 ft		joint strength	10.76785	>= 1.8
	0 0 0 0				

Casing Design Well: Dawson Creek Federal Com #1H

String Size & Function: 7 x 5.5 in Production

Total Depth: 11247 ft TVD: 2900 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: 1508 psi Burst: 1508 psi joint strength: 1508 psi

Partially evacuated hole? Pressure gradient remaining: 10 #/gal

Max. Shut in surface pressure: 3000 psi

1st segment 11247 ft to 3100 ft Make up Torque ft-lbs Total ft = 8147

O.D.	Weight	Grade	Threads	opt.	min.	mx.
5.5 inches	17 #/ft	HCP-110	Buttress	4,620	3,470	5,780
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
8,590 psi	10,640 psi-lrcr	568,000 #	546,000 #	4,767		

2nd segment 2100 ft to 3100 ft Make up Torque ft-lbs Total ft = 1500

O.D.	Weight	Grade	Threads	opt.	min.	mx.
7 inches	26 #/ft	HCP-110	Buttress	6,930	5,200	8,660
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
7,800 psi	9,950 psi-lrcr	853,000 #	830,000 #	6,151		

3rd segment 2100 ft to 0 ft Make up Torque ft-lbs Total ft = 2100

O.D.	Weight	Grade	Threads	opt.	min.	mx.
7 inches	26 #/ft	HCP-110	LT&C	6,930	5,200	8,660
Collapse Resistance	Internal Yield	Joint Strength	Body Yield	Drift		
7,800 psi	9,950 psi	693,000 #	830,000 #	6,151		

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	11247	S.F.	Actual	Desire
			collapse	5.680655	>= 1.125
	11247 ft to 3100 ft		burst-b	3.546667	>= 1.25
	5.5 0 HCP-110 Buttress		burst-t	3.546667	
	Top of segment 1 (ft)	3100	S.F.	Actual	Desire
Select	2nd segment from bottom		collapse	4.615627	>= 1.125
			burst-b	3.316667	>= 1.25
	3100 ft to 2100 ft		burst-t	3.316667	
	7 26 HCP-110 Buttress		jnt strngth	4.841928	>= 1.8