District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
I 000 Rio Brazos Rd., Aztec, NM 8741 0
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address	2 OGRID Number
Mack Energy Coporation P.O. Box 960 Artesia, NM 88210	013837
	3 Reason for Filing Code/ Effective Date NW

4 API Number	5 Pool Name	6 Pool Code
30-015-44499	Crow Flats; San Andres	14860
7 Property Code	**8 Property Name**	**9 Well Number**
319788	Rudolph Federal	2H

II. 10 Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	21	16S	28E		940	South	330	West	Eddy, NM

11. Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	16S	28E		968	South	2615	East	Eddy, NM

12 Lse Code	13 Producing Method Code	14 Gas Connection Date	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date
F	P	1/27/2018			

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 O/G/W
278421	Holly Marketing & Refining Co LLC P.O. Box 1600 Artesia, NM 88211-1600	O
036788	DCP Midstream 4001 Penbrook Odessa, TX 79762	G

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 05 2018
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IV. Well Completion Data

21 Spud Date	22 Ready Date	23 TD	24 PBTD	25 Perforations	26 DHC, MC
12/1/2017	1/12/2018	4000' / 1902	3969'	2122-3920'	

27 Hole Size	28 Casing & Tubing Size	29 Depth Set	30 Sacks Cement
12 1/4"	8 5/8" J-55	495'	922sx
7 7/8"	5 1/2" L-80	4000'	725sx
	2 7/8" J-55 (Tubing)	1396'	

V. Well Test Data

31 Date New Oil	32 Gas Delivery Date	33 Test Date	34 Test Length	35 Tbg. Pressure	36 Csg. Pressure
1/25/2018	1/27/2018	1/28/2018	24 hours		
37 Choke Size	**38 Oil**	**39 Water**	**40 Gas**		**41 Test Method**
	55	855	66		pumping

42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Deana Weaver

Printed name: Deana Weaver

Title: Production Clerk

E-mail Address: Dweaver@mec.com

Date: 2.1.18 Phone: (575) 748-1288

OIL CONSERVATION DIVISION

Approved by: Raymond Jr. Todany

Title: Geologist

Approval Date: 2-12-2018

Pending BLM approvals will subsequently be reviewed and scanned

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 05 2018

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Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNM100844

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator: MACK ENRGY CORPORATION — Contact: ROBERT CHASE — E-Mail: DWEAVER@MEC.COM

8. Lease Name and Well No.: RUDOLPH FEDERAL 2H

3. Address: P.O. BOX 960, ARTESIA, NM 88210

3a. Phone No. (include area code): Ph: 575-748-1288

9. API Well No.: 30-015-44499

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface: SWSW 940FSL 330FWL

At top prod interval reported below: SESW 925FSL 788FWL

At total depth: SESW 968FSL 2615FEL

10. Field and Pool, or Exploratory: CROW FLATS; SAN ANDRES

11. Sec., T., R., M., or Block and Survey or Area: Sec 21 T16S R28E Mer

12. County or Parish: EDDY — 13. State: NM

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, KB, RT, GL)*
12/01/2017	12/13/2017	☐ D & A ☒ Ready to Prod. 01/12/2018	3605 GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 4000	MD 3969	MD
TVD 1902	TVD	TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CNL,DLL, FDC, GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	8.625 J-55	24.0	0	495		922		0	
7.875	5.500 L-80	17.0	0	4000		725		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	1396							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CROW FLAT; SAN ANDRES	2122	3920	2122 TO 3920	0.410	270	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
2122 TO 3920	244BBLS 15% ACID, 2,083BBLS SW, 10,929BBLS X-LINK, 24,569# 100 MESH, 262,294# 30/50 WI,

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/25/2018	01/28/2018	24	→	55.0	66.0	855.0	35.0	0.60	ELECTRIC PUMPING UNIT

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→	55	66	855	1200	POW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #403000 VERIFIED BY THE BLM WELL INFORMATION SYS

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

Pending BLM approvals will subsequently be reviewed and scanned

BC 2-13-18

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
QUEEN	1100	1118	SAND, OIL/GAS/WATER	YATES	342
~~GRAYBURG~~	2122	3920	SAND, OIL/GAS/WATER	7-RVRS	573
				QUEEN	1074
				GRAYBURG	1598
				SAN ANDRES	1922

32. Additional remarks (include plugging procedure):
1/3-8/2018 PERFORATED 2122-3920' W/ 270 HOLES. FRAC W/ 244 BBLS 15% ACID, 2083 BBLS SW, 10,929 BBLS X-LINK, 24,569# 100 MESH, 262,294# 30/50 WI, 209,574# 30/50 COOL SET.
1/12/2018 RIH W/ 2 7/8" J-55 TUBING @ 1396', SN @ 1418', 2 1/2" X 2" X 16'RTHC PUMP. RIG DOWN

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #403000 Verified by the BLM Well Information System.
For MACK ENRGY CORPORATION, sent to the Carlsbad

Name *(please print)* DEANA WEAVER Title PRODUCTION CLERK

Signature (Electronic Submission) Date 02/01/2018

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Form 3160-5
(June 2015)

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

5. Lease Serial No.
NMNM100844

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
RUDOLPH FEDERAL 2H

2. Name of Operator
MACK ENERGY CORPORATION
Contact: ROBERT CHASE
E-Mail: DWEAVER@MEC.COM

9. API Well No.
30-015-44499

3a. Address
P.O. BOX 960
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-1288

10. Field and Pool or Exploratory Area
CROW FLATS; SAN ANDRES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 21 T16S R28E SWSW 940FSL 330FWL

11. County or Parish, State
EDDY 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 Production Start-up
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recomplete 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 recompletion 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.

1/3-8/2018 PERFORATED 2122-3920' W/ 270 HOLES. FRAC W/ 244 BBLS 15% ACID, 2,083 BBLS SW, 10,929 BBLS X-LINK, 24,569# 100 MESH, 262,294# 30/50 WI, 209,574# 30/50 COOL SET.
1/12/2018 RIH W/ 43JTS 2 7/8" J-55 @ 1396', SN @ 1418', 2 1/2" X 2" X 16' RTHC PUMP. RIG DOWN

NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 05 2018
RECEIVED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #402998 verified by the BLM Well Information System
For MACK ENERGY CORPORATION, sent to the Carlsbad

Name *(Printed/Typed)* DEANA WEAVER — Title PRODUCTION CLERK

Signature (Electronic Submission) — Date 02/01/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____

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

Pending BLM approvals will subsequently be reviewed and scanned
SC 2-13-18

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingl... States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdi... ...ited

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****