

District I - (505) 393-6161  
1625 N. French Dr  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131



SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO THE SANTA FE  
OFFICE

APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960		OGRID Number 013837						
Contact Party Robert C. Chase		Phone (505)748-1288						
Property Name Mohawk Federal		Well Number	API Number 30-015-30630					
UL M	Section 14	Township 17S	Range 30E	Feet From The 990	North/South Line South	Feet From The 330	East/West Line West	County Eddy, NM

II. Date/Time Information

Spud Date 6/26/99	Spud Time 5:00 pm	Date Completed 7/23/99	Pool Loco Hills Paddock
----------------------	----------------------	---------------------------	----------------------------

- III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.
- IV. Attach a list of all working interest owners with their percentage interests.
- V. AFFIDAVIT:

State of New Mexico )  
County of Eddy ) ss.  
Robert C. Chase, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature: [Signature] Title: Vice President Date: 8/16/99

SUBSCRIBED AND SWORN TO before me this 16th day of August, 1999

My Commission expires: 12-9-99 Notary Public: [Signature]

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:  
This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature	Title	Date
-----------	-------	------

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

NOTICE: The operator must notify all working interest owners of this New Well certification.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

OPERATOR'S COPY  
SUBMIT IN DUPLICATE\*  
(For other information on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

6. LEASE DESIGNATION AND SERIAL NO.  
**LC-055259**

7. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
**Mohawk Federal #1**

9. API WELL NO.  
**30-015-30630**

10. FIELD AND POOL, OR WILDCAT  
**Loco Hills Paddock**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec 14 T17S R30E**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Mack Energy Corporation**

3. ADDRESS AND TELEPHONE NO.  
**P.O. Box 960, Artesia, NM 88211-0960 (505) 748-1288**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **990 FSL 330 FWL**  
At top prod. interval reported below **990 FSL 330 FWL**  
At total depth **990 FSL 330 FWL**

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

12. COUNTY OR PARISH **Eddy** 13. STATE **NM**

15. DATE SPUNDED **6/20/99** 16. DATE T.D. REACHED **7/7/99** 17. DATE COMPL. (Ready to prod.) **7/23/99** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **3689 RKB** 19. ELEV. CASING HEAD **3677**

20. TOTAL DEPTH, MD & TVD **5080** 21. PLUG, BACK T.D., MD & TVD **5031** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **Rotary** ROTARY TOOLS **Yes** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
**4534.5-4829, Paddock** 25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	308	17 1/2	550sx	None
8 5/8	24	1206	12 1/4	650sx	None
5 1/2	15.5	5044	7 7/8	1050sx	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	4842	

31. PERFORATION RECORD (Interval, size and number) 4534.5-4829, 1/2, 78

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4534.5-4829	2500 gals 15% NE acid
4534.5-4829	32,000 gals 20% NE acid

33. PRODUCTION

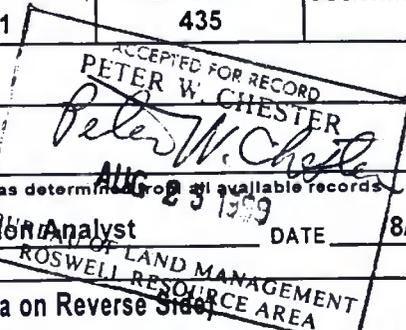
DATE FIRST PRODUCTION <b>8/7/1999</b>	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) <b>2 1/2 x 2 20 RHBC HVR PAP BNC</b>	WELL STATUS (Producing or shut-in) <b>Producing</b>					
DATE OF TEST <b>8/12/1999</b>	HOURS TESTED <b>24</b>	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL-BBL. <b>105</b>	GAS-MCF. <b>121</b>	WATER-BBL. <b>435</b>	GAS-OIL RATIO <b>1152</b>
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL. <b>105</b>	GAS-MCF. <b>121</b>	WATER-BBL. <b>435</b>	OIL GRAVITY - API (CORR.) <b>38</b>	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold**

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Cissa D. Carter TITLE Production Analyst DATE 8/16/1999



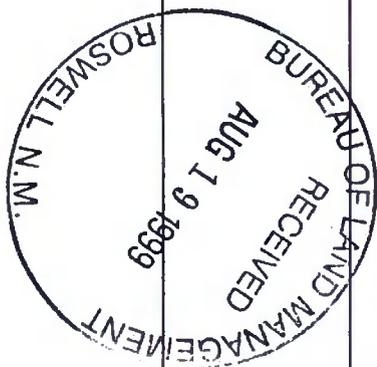
\*(See Instructions and spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes 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.

37. SUMMARY OF POROUS ZONES- (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):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS.DEPTH	TRUE VERT.DEPTH
Loco Hills Paddock	4496	4876		Queen	2522	
				San Andres	2965	
				Glorietta	4425	



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Mack Energy Corporation

3. Address and Telephone No.

P.O. Box 960, Artesia, NM 88211-0960    (505)748-1288

4. Location of Well (Footage, Sec., T. R., M. or Survey Description)

Sec-14,T17S-R30E    990 FSL & 330 FWL

5. Lease Designation and Serial No.

LC-055259

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Mohawk Federal #1

9. API Well No.

30-015-30630

10. Field and Pool, or Exploratory Area

Loco Hills Paddock

11. County or Parish, State

Eddy, NM

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Surface Casing
- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

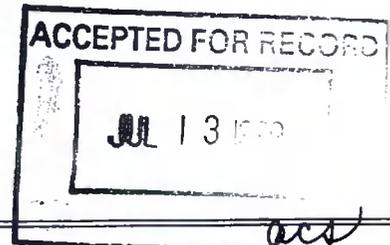
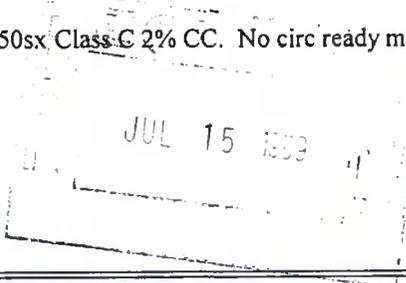
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work )\*

Mack Energy Corporation is drilling the Mohawk Federal #1 and has encountered a problem with setting surface casing @ 450'. While drilling the 17 1/2" hole, lost circulation at 183', partial returns back at 260' to 455' at TD. Ran 13 3/8" casing to 308' and could not get casing to go any deeper. Called David Glass with the BLM in Roswell and obtained a verbal to set the 13 3/8" casing at 308'.

6/26/1999 Spud 17 1/2" hole @ 5:00PM. Lost circ @ 183'.

6/27/1999 TD 17 1/2" hole @ 453'. RIH w/ 7 joints 13 3/8" K-55 ST&C 48# csg & hit bridge @ 311'. BLM gave permission to Land csg @ 308' & RU BJ c/w 550sx Class C 2% CC. No circ ready mix w/10 yds. Plug down @ 1:30 PM.



14. I hereby certify that the foregoing is true and correct

Signed

*Clayton Carter*

Title

Production Analyst

Date

7/8/99

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes 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.

•See Instruction on Reverse Side

PROPERTY	DOI	MO/YR	PROPERTY NAME	OWNER SQ	OWNER NAME	INTEREST	INTEREST TYPE	LAST CHANGE
001342	001	J1	01/98	MOHAWK FEDERAL 1				
				006172	00 THE HOMESTAKE OIL & GAS CO.	.06250000	1 WOR	6/24/99
				999101	00 CHASE OIL CORPORATION	.60937500	1 WOR	6/24/99
				999104	00 RICHARD L. CHASE	.02812500	1 WOR	6/24/99
				999105	00 GERENE DIANNE CHASE CROUCH	.01875000	1 WOR	6/24/99
				999106	00 ROBERT C. CHASE	.04687500	1 WOR	6/24/99
				999107	00 MACK C. CHASE TRUST	.23437500	1 WOR	6/24/99
					TOTAL INTEREST	1.00000000		

District I - (505) 393-6161  
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District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131



SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO THE SANTA FE  
OFFICE

APPLICATION FOR NEW WELL STATUS

I. Operator and Well

Operator name & address		Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960				OGRID Number		013837	
Contact Party		Robert C. Chase				Phone		(505)748-1288	
Property Name		Mohawk Federal				Well Number		API Number	
								30-015-30630	
UL	Section	Township	Range	Feet From The	North/South Line	Feet From The	East/West Line	County	
M	14	17S	30E	990	South	330	West	Eddy, NM	

II. Date/Time Information

Spud Date	Spud Time	Date Completed	Pool
6/26/99	5:00 pm	7/23/99	Loco Hills Paddock

III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.

IV. Attach a list of all working interest owners with their percentage interests.

V. AFFIDAVIT:

State of New Mexico )  
County of Eddy ) ss.  
Robert C. Chase, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature: [Signature] Title Vice President Date 8/16/99

SUBSCRIBED AND SWORN TO before me this 16th day of August, 1999

My Commission expires: 12-9-99 Notary Public [Signature]

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature	Title	Date

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

NOTICE: The operator must notify all working interest owners of this New Well certification.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

OPERATOR'S COPY  
SUBMIT IN DUPLICATE  
(For other In-formation on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Mack Energy Corporation**  
 3. ADDRESS AND TELEPHONE NO.  
**P.O. Box 960, Artesia, NM 88211-0960 (505) 748-1288**  
 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface **990 FSL 330 FWL**  
 At top prod. interval reported below **990 FSL 330 FWL**  
 At total depth **990 FSL 330 FWL**

6. LEASE DESIGNATION AND SERIAL NO.  
**LC-055259**  
 8. IF INDIAN, ALLOTTEE OR TRIBE NAME  
  
 7. UNIT AGREEMENT NAME  
  
 8. FARM OR LEASE NAME, WELL NO.  
**Mohawk Federal #1**  
 9. API WELL NO.  
**30-015-30630**  
 10. FIELD AND POOL, OR WILDCAT  
**Loco Hills Paddock**  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec 14 T17S R30E**

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_  
 12. COUNTY OR PARISH **Eddy** 13. STATE **NM**

15. DATE SPUNDED **6/20/99** 16. DATE T.D. REACHED **7/7/99** 17. DATE COMPL. (Ready to prod.) **7/23/99** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) **3689 RKB** 19. ELEV. CASING HEAD **3677**

20. TOTAL DEPTH, MD & TVD **5080** 21. PLUG, BACK T.D., MD & TVD **5031** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **→** ROTARY TOOLS **Yes** CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
**4534.5-4829, Paddock** 25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	308	17 1/2	550sx	None
8 5/8	24	1206	12 1/4	650sx	None
5 1/2	15.5	5044	7 7/8	1050sx	None

29. LINER RECORD 30. TUBING RECORD

SIZE	T O P (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8	4842	

31. PERFORATION RECORD (Interval, size and number) **4534.5-4829, 1/2, 78**

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4534.5-4829	2500 gals 15% NE acid
4534.5-4829	32,000 gals 20% NE acid

33. PRODUCTION  
 DATE FIRST PRODUCTION **8/7/1999** PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) **2 1/2 x 2 20 RHBC HVR PAP BNC** WELL STATUS (Producing or shut-in) **Producing**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROOF FOR TEST PERIOD	OIL-BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
8/12/1999	24		→	105	121	435	1152
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-MCF.	WATER - BBL.	OIL GRAVITY - API (CORR.)	
		→	105	121	435	38	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold**

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.  
 SIGNED Cassia D. Carter TITLE Production Analyst DATE 8/16/1999

ACCEPTED FOR RECORD  
**PETER W. CHESTER**  
*Peter W. Chester*  
 AUG 23 1999  
 BUREAU OF LAND MANAGEMENT  
 ROSWELL RESOURCE AREA

\*(See Instructions and spaces for Additional Data on Reverse Side)  
 Title 18 U.S.C. Section 1001, makes 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1 Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

Mack Energy Corporation

3. Address and Telephone No.

P.O. Box 960, Artesia, NM 88211-0960    (505)748-1288

4. Location of Well (Footage, Sec., T. R., M. or Survey Description)

Sec-14,T17S-R30E    990 FSL & 330 FWL

5. Lease Designation and Serial No.

LC-055259

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8 Well Name and No.

Mohawk Federal #1

9 API Well No.

30-015-30630

10. Field and Pool, or Exploratory Area

Loco Hills Paddock

11. County or Parish, State

Eddy, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input checked="" type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Surface Casing</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)\*

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6/27/1999 TD 17 1/2" hole @ 453'. RIH w/ 7 joints 13 3/8" K-55 ST&C 48# csg & hit bridge @ 311'. BLM gave permission to Land csg @ 308' & RU BJ c/w 550sx Class C 2% CC. No circ ready mix w/10 yds. Plug down @ 1:30 PM.

JUL 15 1999

ACCEPTED FOR RECORD  
JUL 13 1999

14. I hereby certify that the foregoing is true and correct

Signed Cris D. Carter Title Production Analyst Date 7/8/99

(This space for Federal or State office use)

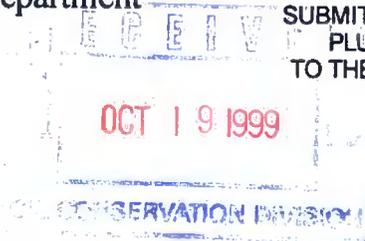
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

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PROPERTY	DOI	MO/YR	PROPERTY NAME	OWNER SQ	OWNER NAME	INTEREST	INTEREST TYPE	LAST CHANGE
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				006172	00 THE HOMESTAKE OIL & GAS CO.	.06250000	1 WOR	6/24/99
				999101	00 CHASE OIL CORPORATION	.60937500	1 WOR	6/24/99
				999104	00 RICHARD L. CHASE	.02812500	1 WOR	6/24/99
				999105	00 GERENE DIANNE CHASE CROUCH	.01875000	1 WOR	6/24/99
				999106	00 ROBERT C. CHASE	.04687500	1 WOR	6/24/99
				999107	00 MACK C. CHASE TRUST	.23437500	1 WOR	6/24/99
TOTAL INTEREST						1.00000000		

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1625 N. French Dr  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
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2040 South Pacheco Street  
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I. Operator and Well

Operator name & address		Mack Energy Corporation P.O. Box 960 Artesia, NM 88211-0960				OGRID Number		013837	
Contact Party		Robert C. Chase				Phone		(505)748-1288	
Property Name					Well Number	API Number			
Mohawk Federal					1	30-015-30630			
UL	Section	Township	Range	Feet From The	North/South Line	Feet From The	East/West Line	County	
M	14	17S	30E	990	South	330	West	Eddy, NM	

II. Date/Time Information

Spud Date	Spud Time	Date Completed	Pool
6/26/99	5:00 pm	7/23/99	Loco Hills Paddock

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V. AFFIDAVIT:

State of New Mexico )  
County of Eddy ) ss.  
Robert C. Chase, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature [Signature] Title Vice President Date 8/16/99

SUBSCRIBED AND SWORN TO before me this 16th day of August, 1999

My Commission expires: 12-9-99 Notary Public [Signature]

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature	Title	Date

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

NOTICE: The operator must notify all working interest owners of this New Well certification.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

OPERATOR'S COPY  
SUBMIT IN DUPLICATE\*  
(For other information on reverse side)

FOR APPROVED  
OMB NO. 1004-0137  
Expires: December 31, 1991

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Mack Energy Corporation**

3. ADDRESS AND TELEPHONE NO.  
**P.O. Box 960, Artesia, NM 88211-0960 (505) 748-1288**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface **990 FSL 330 FWL**

At top prod. interval reported below **990 FSL 330 FWL**

At total depth **990 FSL 330 FWL**

5. LEASE DESIGNATION AND SERIAL NO.  
**LC-055259**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME \_\_\_\_\_

8. FARM OR LEASE NAME, WELL NO.  
**Mohawk Federal #1**

9. API WELL NO.  
**30-015-30630**

10. FIELD AND POOL, OR WILDCAT  
**Loco Hills Paddock**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec 14 T17S R30E**

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

12. COUNTY OR PARISH **Eddy** 13. STATE **NM**

15. DATE SPUNDED **6/20/99** 16. DATE T.D. REACHED **7/7/99** 17. DATE COMPL. (Ready to prod.) **7/23/99** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **3689 RKB** 19. ELEV. CASING HEAD **3677**

20. TOTAL DEPTH, MD & TVD **5080** 21. PLUG, BACK T.D., MD & TVD **5031** 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY **Rotary Tools** 24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\* **4534.5-4829, Paddock** 25. WAS DIRECTIONAL SURVEY MADE **Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN **Gamma Ray, Neutron, Density, Lateralog, Spectral Gamma Ray** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8	48	308	17 1/2	550sx	None
8 5/8	24	1206	12 1/4	650sx	None
5 1/2	15.5	5044	7 7/8	1050sx	None

29. LINER RECORD

SIZE	T O P (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	4842	

31. PERFORATION RECORD (Interval, size and number)  
**4534.5-4829, 1/2, 78**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4534.5-4829	2500 gals 15% NE acid
4534.5-4829	32,000 gals 20% NE acid

33. PRODUCTION

DATE FIRST PRODUCTION **8/7/1999** PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) **2 1/2 x 2 20 RHBC HVR PAP BNC** WELL STATUS (Producing or shut-in) **Producing**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL-BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
8/12/1999	24			105	121	435	1152

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL.	GAS-MCF.	WATER-BBL.	OIL GRAVITY - API (CORR.)
			105	121	435	38

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold**

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined by all available records.

SIGNED *Curtis D. Carter* TITLE Production Analyst DATE 8/16/1999

ACCEPTED FOR RECORD  
PETER W. CHESTER  
*Peter W. Chester*  
AUG 23 1999  
BUREAU OF LAND MANAGEMENT  
ROSWELL RESOURCE AREA

\*(See Instructions and spaces for Additional Data on Reverse Side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

1 Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 Mack Energy Corporation

3. Address and Telephone No.  
 P.O. Box 960, Artesia, NM 88211-0960    (505)748-1288

4. Location of Well (Footage, Sec., T. R., M. or Survey Description)  
 Sec-14, T17S-R30E    990 FSL & 330 FWL

5. Lease Designation and Serial No.  
 LC-055259

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 Mohawk Federal #1

9. API Well No.  
 30-015-30630

10. Field and Pool, or Exploratory Area  
 Loco Hills Paddock

11. County or Parish, State  
 Eddy, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Surface Casing</u>
	<input checked="" type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work )\*

Mack Energy Corporation is drilling the Mohawk Federal #1 and has encountered a problem with setting surface casing @ 450'. While drilling the 17 1/2" hole, lost circulation at 183', partial returns back at 260' to 455' at TD. Ran 13 3/8" casing to 308' and could not get casing to go any deeper. Called David Glass with the BLM in Roswell and obtained a verbal to set the 13 3/8" casing at 308'.

6/26/1999 Spud 17 1/2" hole @ 5:00PM. Lost circ @ 183'.

6/27/1999 TD 17 1/2" hole @ 453'. RIH w/ 7 joints 13 3/8" K-55 ST&C 48# csg & hit bridge @ 311'. BLM gave permission to Land csg @ 308' & RU BJ c/w 550sx Class-C 2% CC. No circ ready mix w/10 yds. Plug down @ 1:30 PM.

JUL 15 1999

ACCEPTED FOR RECORD  
 JUL 13 1999

14. I hereby certify that the foregoing is true and correct  
 Signed Craig D Carter Title Production Analyst Date 7/8/99

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

PROPERTY	DOI	MO/YR	PROPERTY NAME	OWNER SQ	OWNER NAME	INTEREST	INTEREST TYPE	LAST CHANGE
001342	001	J1	01/98	MOHAWK	FEDERAL 1			
				006172	00 THE HOMESTAKE OIL & GAS CO.	.06250000	1 WOR	6/24/99
				999101	00 CHASE OIL CORPORATION	.60937500	1 WOR	6/24/99
				999104	00 RICHARD L. CHASE	.02812500	1 WOR	6/24/99
				999105	00 GERENE DIANNE CHASE CROUCH	.01875000	1 WOR	6/24/99
				999106	00 ROBERT C. CHASE	.04687500	1 WOR	6/24/99
				999107	00 MACK C. CHASE TRUST	.23437500	1 WOR	6/24/99
					TOTAL INTEREST	1.00000000		