

12/10/07 DATE IN	SUSPENSE	W. Sherrell ENGINEER	12/10/07 LOGGED IN	SWD TYPE	PKUR0734428589 APP NO.
---------------------	----------	-------------------------	-----------------------	-------------	---------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



MAEK Energy Corp

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
[D] Other: Specify _____

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
[A] ☐ Working, Royalty or Overriding Royalty Interest Owners
[B] ☒ Offset Operators, Leaseholders or Surface Owner
[C] ☒ Application is One Which Requires Published Legal Notice
[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] ☐ Waivers are Attached

- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Jerry W. Sherrell
Print or Type Name

Jerry W. Sherrell
Signature

Production Clerk
Title

12/7/07
Date

jerrys@mackenergycorp.com
e-mail Address

RECEIVED
2007 DEC 10 AM 7 58

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X _____ Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: Mack Energy Corporation

ADDRESS: P.O. Box 960 Artesia, NM 88211-0960

CONTACT PARTY: Jerry W. Sherrell

PHONE: (505)748-1288

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes X _____ No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (if well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of freshwater from two or more freshwater wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Jerry W. Sherrell

TITLE: Production Clerk

SIGNATURE: Jerry W. Sherrell

DATE: 11/27/07

* if the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

[illegible]

MACK ENERGY CORPORATION
PO BOX 960
ARTESIA, NM 88211-0960

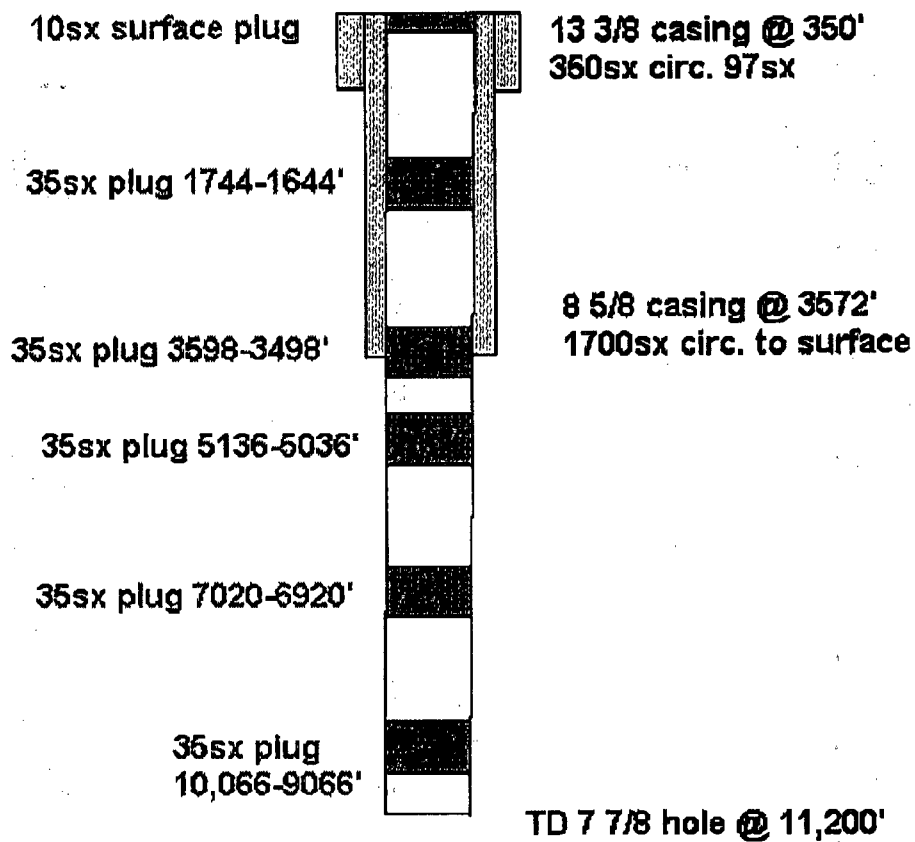
FACSIMILE TRANSMITTAL SHEET

TO:	Will Jones	FROM:	Jerry W. Sherrell
COMPANY:	OCD-Santa Fe	DATE:	1-17-08
FAX NUMBER:	505-476-3462	TOTAL NO. OF PAGES INCLUDING COVER:	2
PHONE NUMBER:		PHONE NUMBER:	(505)748-1288
RE:	Mule SWD #1 - Before diagram	FAX NUMBER:	(505)746-9539

☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

**Mule SWD #1
Before workover**



NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
LG-2843	

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. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Manzano Oil Corporation 505/623-1996		8. Farm or Lease Name Tonto State
3. Address of Operator P.O. Box 571, Roswell, NM 88202		9. Well No. 1
4. Location of Well UNIT LETTER M 660 FEET FROM THE South LINE AND 660 FEET FROM THE West LINE, SECTION 13 TOWNSHIP 18S RANGE 34E NMPM.		10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 3982.2' GR		12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPMS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded 5/31/85 (see previous report) - drilled to 350', ran 9 joints (359') of 13-3/8" 54.5# J55 ST&C casing. Set and cemented at 350' with 350 sacks Class C with 2% CaCl. Circulated 97 sacks to surface. Plug down @ 1:30 p.m. 12/8/85.

Drilled to 3572'. Ran 85 joints (3,585') of 8-5/8" 24 & 32# J55 casing. Set and cemented at 3572' with 1400 sacks Halad Lite cement with 15# salt & 1/4# floseal per sack PLUS 300 sacks Class C with 2% CaCl. Circulated to surface. Plug down @ 2:30 a.m. 12/14/85.

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

SIGNED Jackie Midkiff TITLE Jackie Midkiff/Prod. Clerk DATE 1/3/86

APPROVED BY Eddie W. Seay TITLE Oil & Gas Inspector DATE JAN 8 - 1986
CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-85

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. LG-2843	

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. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER- Dry and abandoned		7. Unit Agreement Name
2. Name of Operator Manzano Oil Corporation 505/623-1996		8. Farm or Lease Name Tonto State
3. Address of Operator P.O. Box 571/Roswell, NM 88202		9. Well No. 1
4. Location of Well UNIT LETTER M 660 FEET FROM THE South LINE AND 660 FEET FROM West 13 TOWNSHIP 18S RANGE 34E NMPM.		10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 3982.2' GR		12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 12/31/85 Ran DST #1: 9575' to 9658', Recovered 124' mud and 1' oil, Sampler @ 10# 2300 ccs drilling mud, very slight trace of oil, temperature 138°.
- 1/3/86 Ran DST #2: 10,166' to 10,368', Recovered 5500' formation water & 200' drlg. mud Very slight show gas. Sampler 58# 2300 ccs formation water, 0 oil, 0 gas, temperature 138°.
- 1/8/86 Ran DST #3: 10,942' to 11,010', Recovered 2825' total fluid, 270' drlg. fluid, 2550' formation water, Sampler 2150 ccs formation water, temperature 158°.
- 1/12/86 Drilled to total depth 11,200' Lime & Shale.
Plugged and abandoned well as follows:
Set 5 100' plugs with 35 sacks Class H Neat each @:
#1 9066 to 10,066' 10 sacks at surface.
#2 6920 to 7020' Set dry hole marker.
#3 5036 to 5136'
#4 3498 to 3598' (50' in & out of 8-5/8" casing)
#5 1644 to 1744'

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

SIGNED Jackie Midkiff

TITLE Jackie Midkiff/Prod. Clerk

DATE 1/21/86

APPROVED BY [Signature]

TITLE OIL & GAS INSPECTOR

DATE AUG 15 1986

CONDITIONS OF APPROVAL, IF ANY:

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blaineby _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand 5530	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs 6984	T. Wingate _____	T. _____
T. Wolfcamp 10,004	T. " 1st Sand 8439	T. Chinle _____	T. _____
T. Penn. _____	T. " 2nd Sand 9278	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. " 3rd Sand 9674	T. Penn. "A" _____	T. _____
L.B.S. Carb 9816	Tonto Pay 10,986		

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
Surface	1778	1778	Redbeds, anhydrite & lime				
1778	1890	112	Anhydrite & shale				
1890	3140	1250	Salt & anhydrite				
3140	4446	1306	Anhydrite, dolomite & sand				
4446	4497	51	Sand & shale				
4497	4680	183	Dolomite & anhydrite				
4680	4710	30	Sand & anhydrite				
4710	5104	394	Dolomite, anhydrite & sand				
5104	5530	426	Dolomite				
5530	6984	1454	Sand, shale & dolomite				
6984	8439	1455	Lime, shale, dolomite & chert				
8439	9278	839	Sand, dolomite & shale				
9278	9674	396	Sand, shale & lime				
9674	10004	330	Sand, shale & dolomite				
10004	10140	136	Shale & dolomite				
10140	10395	255	Dolomite				
10395	10986	591	Dolomite, shale & chert				
10986	11200	199	Dolomite, lime & shale				

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy Corporation

WELL NAME & NUMBER: Mule SWD #1

WELL LOCATION: 660 FSL & 660 FWL

UNIT LETTER M SECTION 13 TOWNSHIP 18S RANGE 34E

FOOTAGE LOCATION

WELL CONSTRUCTION DATA
Surface Casing

WELLBORE SCHEMATIC

Hole Size: 17 1/2 Casing Size: 13 3/8 @ 350'

Cemented with: 350 sx. or ft

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12 1/4 Casing Size: 8 5/8 @ 3572'

Cemented with: 1700 sx. or ft

Top of Cement: Surface Method Determined: Circulated

Production Casing

Hole Size: 7 7/8 Casing Size: 5 1/2

Cemented with: 2300 sx. or ft

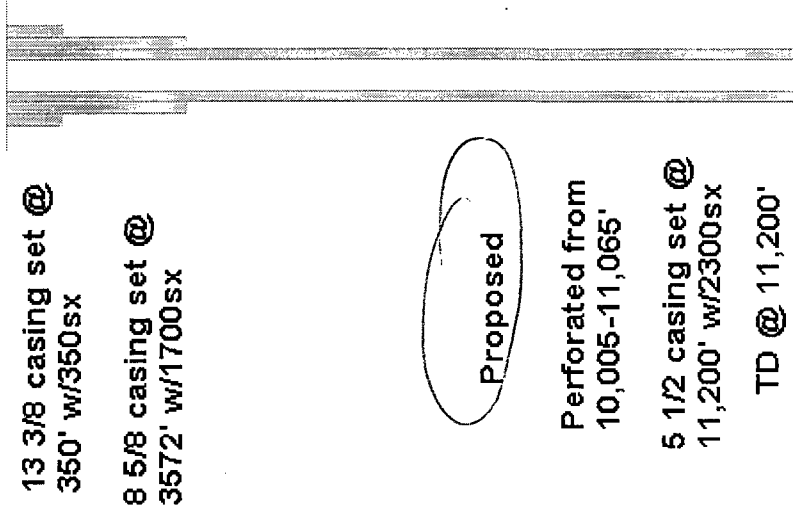
Top of Cement: Surface Method Determined: Circulate

Total Depth: 11,200'

Injection Interval

10,005 feet to 11,065, Perforated

(Perforated or Open Hole; indicate which)



INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Plastic Coated

Type of Packer: Halliburton Trump Packer

Packer Setting Depth: 9905'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Wolfcamp

- Name of the Injection Formation: Wolfcamp
- Name of Field or Pool (if applicable): Airstrip Wolfcamp
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying Bone Spring-9650', Underlying Morrow-13,200'

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
EnerRy, Minerals & Natural ResourcesOIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe. NM 87505

Form C-102

Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 30-025-29288	'Pool Code	'Pool Name Wolfcamp
'Property Code	'Property Name Mule SWD	'Well Number 1
'OGRID No. 013837	'Operator Name Mack Energy Corporation	'Elevation 3982

H1 Surface Location

UL or lot no. M	Section 13	Township 18S	Range 34E	Lot 1dn	Feet from the 660	North/South line South	Feet from the 660	East/West line West	County Lea
--------------------	---------------	-----------------	--------------	---------	----------------------	---------------------------	----------------------	------------------------	---------------

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
" Dedicated Acres 40	" joint or Infill	" Consolidation Code	" Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL XL INTERESTS HAVE BEEN CONSOLIDATED OR A
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16				OPERATOR CERTIFICATION <i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>
				Signature <i>Jerry W. Sherrell</i> Printed Name Jerry W. Sherrell Title Production Clerk Date 11/27/07
				"SURVEYOR CERTIFICATION <i>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.</i>
				Date of Survey Signature and Seal of Professional Surveyer.
				Certificate Number

AREA OF REVIEW WELL DATA

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

WELL API NO. 30-025-37055
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. 34555
7. Lease Name or Unit Agreement Name Big Sky '13' State
8. Well Number 1
9. OGRID Number 006742
10. Pool name or Wildcat Wolfcamp

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 ☒ Gas Well ☐ Other ☐

2. Name of Operator
Echo Production, Inc.

3. Address of Operator
PO Box 1210, Graham, TX 76450

4. Well Location
Unit Letter K : 1680 feet from the south line and 1980 feet from the west line
Section 13 Township 18S Range 34E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3976 GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mll Below-Grade Tank: Volume _____ bbls; Construction Material _____

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 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 checked="" 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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

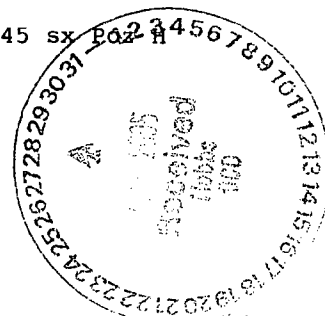
4/07/05 Drill to TD 10400'

4/08/05 Set 45 sx plug @ 10,400' and 65 sx plug @ 10,000'

4/12/05 Ran 5 1/2" 17# N-80 & J-55 casing to 9943' w/ DV tool @ 5485'.

4/13/05 Cement 1st stage w/ 490 sx 50/50 Poz H & 2nd stage w/ 345 sx Poz H

AOR well
PE AED



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Tom Golden Tom Golden TITLE Operations Manager DATE 4/25/05

Type or print name For State Use Only E-mail address: Telephone No.

APPROVED BY: [Signature] TITLE PETROLEUM ENGINEER DATE APR 29 2005

VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Respectively, 2000 BWPD and 3000 BWPD
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
100-360#
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
We will be re-injecting produced water
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water;
N/A

VIII. GEOLOGICAL DATA

Wolfcamp

1. Lithologic Detail; **Dolomite**
2. Geological Name; **Wolfcamp**
3. Thickness; **1060'**
4. Depth; **10,005-11,065'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 1000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data has been filed with the OCD

XI. ANALYSIS OF FRESHWATER WELLS

1. Attached

Additional Information

Waters Injected: Abo, Blinbry and Queen

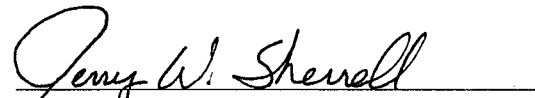
XII. AFFIRMATIVE STATEMENT

RE: Mule SWD #1

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 11-27-2007



Jerry W. Sherrell, Production Clerk



Post Office Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

November 28, 2007

VIA CERTIFIED MAIL 7006 0100 0002 8524 5440
RETURN RECEIPT REQUESTED

State Land Office
PO Box 1148
Santa Fe, NM 87504-1148

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Wolfcamp SWD well. The Mule SWD #1 located 660 FSL & 660 FWL, Sec. 13 T18S R34E Lea County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in cursive script that reads "Jerry W. Sherrell".

Jerry W. Sherrell
Production Clerk

JWS\



Post Office Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

November 28, 2007

VIA CERTIFIED MAIL 7006 0100 0002 8524 5433
RETURN RECEIPT REQUESTED

Rex Energy Operating Corp.
1965 Waddle Road
State College, PA 16803

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Wolfcamp SWD well. The Mule SWD #1 located 660 FSL & 660 FWL, Sec. 13 T18S R34E Lea County.

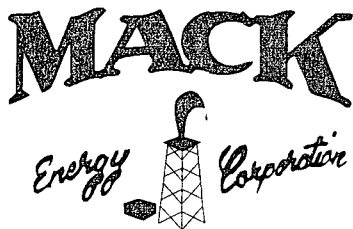
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\



Post Office Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

November 28, 2007

VIA CERTIFIED MAIL 7006 0100 0002 8524 5426
RETURN RECEIPT REQUESTED

Nadel & Gussman
601 N. Marienfeld Ste 508
Midland, TX 79701

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Wolfcamp SWD well. The Mule SWD #1 located 660 FSL & 660 FWL, Sec. 13 T18S R34E Lea County.

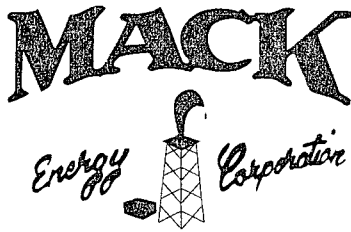
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\



Post Office Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

November 28, 2007

VIA CERTIFIED MAIL 7006 0100 0002 8524 5419
RETURN RECEIPT REQUESTED

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Wolfcamp SWD well. The Mule SWD #1 located 660 FSL & 660 FWL, Sec. 13 T18S R34E Lea County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\



Post Office Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9539

November 28, 2007

VIA CERTIFIED MAIL 7006 0100 0002 8524 5402
RETURN RECEIPT REQUESTED

Chevron USA Inc.
11111 South Wilcrest
Houston, TX 77099

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Wolfcamp SWD well. The Mule SWD #1 located 660 FSL & 660 FWL, Sec. 13 T18S R34E Lea County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\

Jones, William V., EMNRD

From: Jerry Sherrell [jerrys@mackenergycorp.com]
Sent: Friday, December 07, 2007 3:31 PM
To: Jones, William V., EMNRD
Subject: Mule SWD Legal Notice
Attachments: Mule Affidavit.pdf

Hello Will,

Attached is the Legal Notice for the Mule SWD #1. I submitted this application for approval of a SWD well. If you have any questions let me know.

Thanks,

Jerry W. Sherrell
Mack Energy Corporation
Office 505-748-1288
Cell 505-703-8383
jerrys@mackenergycorp.com

This inbound email has been scanned by the MessageLabs Email Security System.

12/7/2007

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

PUBLISHER

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1

weeks.

Beginning with the issue dated

November 30 2007

and ending with the issue dated

November 30 2007

PUBLISHER

Sworn and subscribed to before

me this 30th day of

November 2007

Notary Public.

My Commission expires
February 07, 2009
(Seal)



OFFICIAL SEAL
DORA MONTZ
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires: _____

This newspaper is duly qualified
to publish legal notices or adver-
tisements within the meaning of
Section 3, Chapter 167, Laws of
1937, and payment of fees for
said publication has been made.

LEGAL NOTICE
November 30, 2007

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Mula SWD #1 of Section 13, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico. The water will be injected into the Wolfcamp formation at a disposal depth of 10,005 feet to 11,085 feet. Water will be injected at a maximum surface pressure of 360 pounds and a maximum injection rate of 3000 BWPD. Any interested party with questions or comments may contact Jerry W. Sherrell at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice.

#23670

67100900000

02597313

MACK ENERGY CORPORATION
PO BOX 960
ARTESIA,, NM 88211-0960

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, January 17, 2008 2:10 PM
To: 'Jerry Sherrell'
Cc: Charles Sadler; Matt Brewer
Subject: RE: SWD Application from Mack Energy: Mule SWD #1 30-025-29288 Unit M, Sec 13, T18S, R34E, Wolfcamp

Thanks Jerry
Will release this to Mark today.

From: Jerry Sherrell [mailto:jerrys@mackenergycorp.com]
Sent: Thursday, January 17, 2008 1:50 PM
To: Jones, William V., EMNRD
Cc: Charles Sadler; Matt Brewer
Subject: RE: SWD Application from Mack Energy: Mule SWD #1 30-025-29288 Unit M, Sec 13, T18S, R34E, Wolfcamp

Will,
The State of New Mexico owns both the surface and the minerals in this acreage. We aquired an oil and gas lease covering all depths from the State on December 1, 2007. The State Land Office, as surface owner was notified of our SWD application. I am faxing the before wellbore diagram now.

Thanks,

Jerry W. Sherrell
Mack Energy Corporation
Office 505-748-1288
Cell 505-703-8383
jerrys@mackenergycorp.com

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Thursday, January 17, 2008 11:53 AM
To: Jerry Sherrell
Cc: Ezeanyim, Richard, EMNRD; Williams, Chris, EMNRD
Subject: SWD Application from Mack Energy: Mule SWD #1 30-025-29288 Unit M, Sec 13, T18S, R34E, Wolfcamp

Hello Jerry:
I have this ready to release, but should get a "before" wellbore diagram from you. The well file shows it to be a Manzano well that DSTed this Wolfcamp interval and never ran production pipe. Could you fax this in?

Also, tell me about how Mack procured the wellbore - Had it reverted back to the State Land Office as the surface owner and Mack obtained the rights to it from them? Or was the well still held by someone else?

I see it is not productive, but does Mack control the minerals in the Wolfcamp? If not, who does, and were they notified?

Thanks,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

1/17/2008

SWD Order Number 111 Dates: Division Approved _____ District Approved _____Well Name/Num: Mule SWD #1 Date Spudded: 1/86API Num: (30-) 025-29288 County: LaFootages 660 FSL/660 FWL Sec 13 Tsp 185 Rge 34EOperator Name: Mock Energy Corp. Contact Terry W. SherrillOperator Address: PO Box 960 Artesia NM 88211-0960Current Status of Well: P & A Planned Work: _____ Inj. Tubing Size: 2 7/8 9905

	Hole/Pipe Sizes		Depths	Cement	Top/Method
Surface	17 1/2	13 3/8	350	350	CIRC
Intermediate	12 1/4	8 5/8	3572	1700	CIRC
<u>Proposed</u> Producing	7 7/8	5 1/2	<u>11200</u>	2300	CIRC <u>Proposed</u>
Last DV Tool					
Open Hole/Liner					
Plug Back Depth					

Diagrams Included (Y/N): Before Conversion _____ After Conversion ✓Checks (Y/N): Well File Reviewed ✓ ELogs in Imaging ✓

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
Cliff House, Etc.	<u>9650 -</u>	<u>B.S.</u>	
Formation Above			
Top Inj Interval	<u>10005</u>	<u>WC</u>	<u>NO</u>
Bottom Inj Interval	<u>11065</u>	<u>WC</u>	<u>NO</u>
Formation Below	<u>13200</u>	<u>Monar</u>	

Drilled by MonarFresh Water: Depths: _____ Wells(Y/N) _____ Analysis Included (Y/N): _____ Affirmative Statement ✓Salt Water Analysis: Injection Zone (Y/N/NA) _____ DispWaters (Y/N/NA) _____ Types: ABO, Blue, GreenNotice: Newspaper(Y/N) ✓ Surface Owner: SLO Mineral Owner(s) _____Other Affected Parties: Rock Energy, Model Green, Xcel, ChevronAOR/Repairs: NumActiveWells 0 Repairs? _____ Producing in Injection Interval in AOR _____AOR Num of P&A Wells 0 Repairs? _____ Diagrams Included? _____ RBDMS Updated (Y/N) _____Well Table Adequate (Y/N) Yes AOR STRs: Sec _____ Tsp _____ Rge _____ UIC Form Completed (Y/N) _____

New AOR Table Filename _____ Sec _____ Tsp _____ Rge _____ This Form completed _____

Conditions of Approval: Sec _____ Tsp _____ Rge _____ Data Request Sent _____

AOR Required Work: Run 5 1/2" Cement across zone
Send before W.B.D.

Required Work to this Well: _____

UGRID=13837
 245
 OK
 Rub 40