

DATE IN 10.27.10	SUSPENSE	ENGINEER WJ	LOGGED IN 10.27.10	TYPE SWD 1256	APP NO. 1030034046
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



Mack Energy
ED OCD

2010 OCT 25 P 2:14

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]

30-025-28517

[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 _____

*original well above
Talk State*

[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

10/20/10
Date

jerrys@mec.com
e-mail Address

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: (575)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.).

*VIII. 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: _____

* 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: _____

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy CorporationWELL NAME & NUMBER: Buzzard SWD #1WELL LOCATION: 1980 FNL & 1980 FWLF

FOOTAGE LOCATION

UNIT LETTER

7

SECTION

15S

TOWNSHIP

32E

RANGE

WELL CONSTRUCTION DATASurface Casing

Buzzard SWD #1

Sec. 7 T15S R32E

1980 FNL 1980 FWL

After

Hole Size: 17 1/2"Casing Size: 13 3/8 @ 380'Cemented with: 350sx sx. or _____

ft

Top of Cement: SurfaceMethod Determined: CirculatedIntermediate Casing

Packer @ 4375'

Perfs 4,400-5,550'

Hole Size: 11"Casing Size: 8 5/8 @ 4000'Cemented with: 2630sx sx. or _____

ft

Top of Cement: SurfaceMethod Determined: CirculatedProduction Casing

Cmt Plug @ 7,529-7629'

Cmt Plug @ 8,710-8,810'

Cmt Plug @ 9,742-9,842'

Cmt Plug @ 10,400-10,500'

Cmt Plug @ 12,321-12,421'

Hole Size: 7 7/8"Casing Size: 5 1/2 @ 5590'Cemented with: 800sx sx. or _____

ft

Top of Cement: SurfaceMethod Determined: CirculatedTotal Depth: 5600'Injection Interval4400'5550'

feet to _____

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Plastic CoatedType of Packer: Arrow Set 10K Nickel Plated PackerPacker Setting Depth: 4375'

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

Additional Data

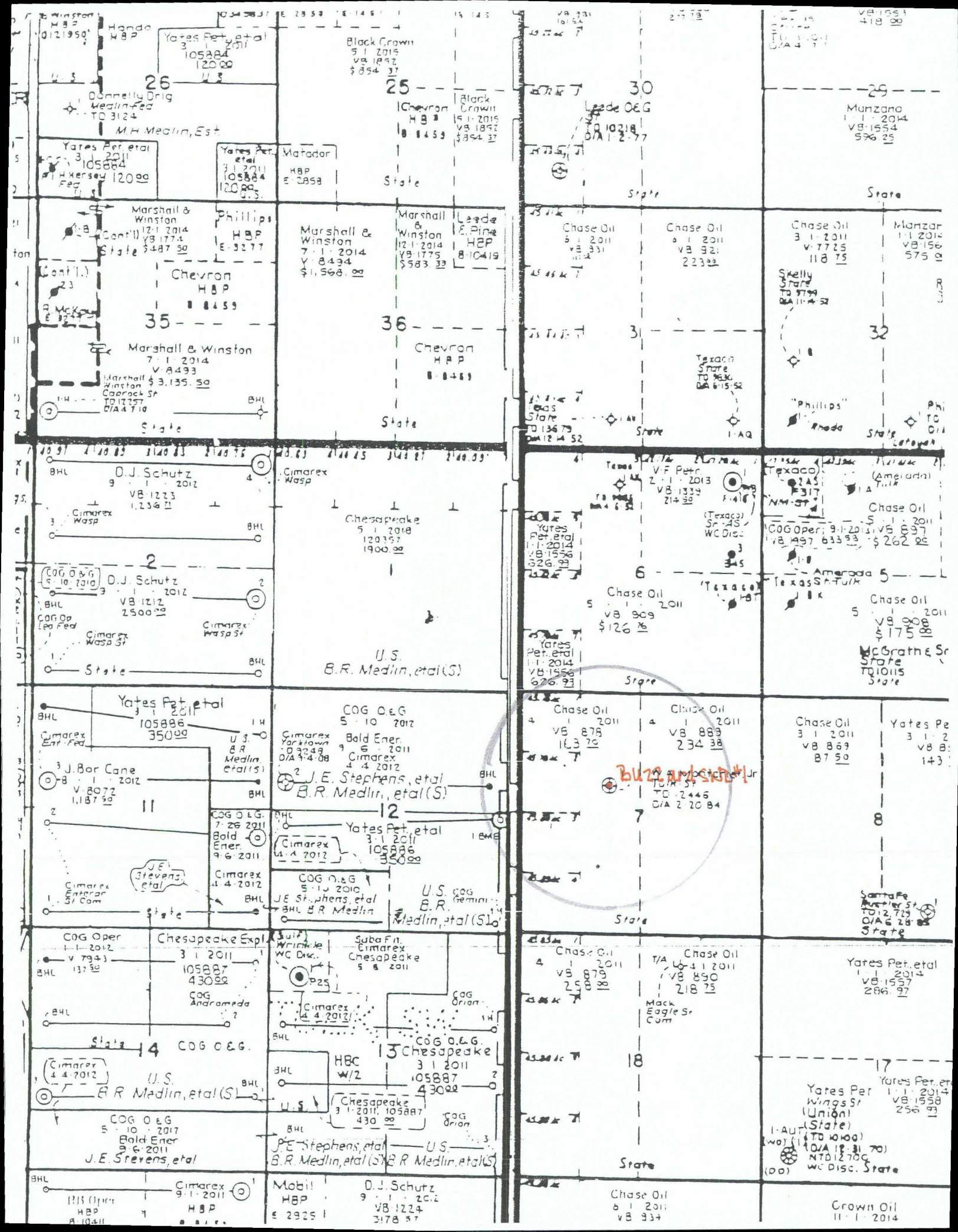
1. Is this a new well drilled for injection? ☐ Yes ☒ No

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: San Andres3. Name of Field or Pool (if applicable): SWD; San Andres4. 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. No5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying- None Underlying- None

AREA OF REVIEW WELL DATA

[illegible]



Buzzard SWD #1
Sec. 7 T15S R32E

10sx cmt plug to Surface

Cmt Plug @ 1,486-1,586'

Cmt Plug @ 3,895-3,995'

Cmt Plug @ 4,456-4556'

Cmt Plug @ 5,480-5580'

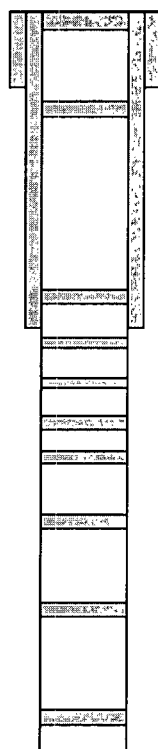
Cmt Plug @ 7,529-7629'

Cmt Plug @ 8,710-8,810'

Cmt Plug @ 9,742-9,842'

Cmt Plug @ 10,400-10,500'

Cmt Plug @ 12,321-12,421'



13 3/8" casing @ 380'; cem w/ 350sx; circ

8 5/8" casing @ 4000'; cem w/2630sx; circ

TD @ 12,449'

Buzzard SWD #1
Sec. 7 T15S R32E
1980 FNL 1980 FWL
After

Packer @ 4375'

Perfs 4,400-5,550'

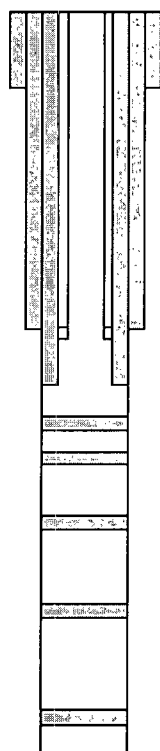
Cmt Plug @ 7,529-7629'

Cmt Plug @ 8,710-8,810'

Cmt Plug @ 9,742-9,842'

Cmt Plug @ 10,400-10,500'

Cmt Plug @ 12,321-12,421'



13 3/8" casing @ 380'; cem w/ 350sx; circ

8 5/8" casing @ 4000'; cem w/2630sx; circ

5 1/2" casing @ 5590'; cem w/ 800sx; circ

TD @ 5,600'

BUZZARD SWD #1
1980 FNL & 1980 FWL, Sec. 7 T15S R32E
Formation Tops

Quaternary	Surface
Yates	2470'
Queen	3284'
Grayburg	3660'
San Andres	3995'

VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Average 1000/Maximum 4000 BWPD
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
0-1670#
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

Devonian

1. Lithologic Detail; **Dolomite**
2. Geological Name; **SWD;San Andres**
3. Thickness; **1,150'**
4. Depth; **4,400-5,550'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 10,000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data will be filed with OCD.

XI. ANALYSIS OF FRESHWATER WELLS

1. Will send information when available.


XII. AFFIRMATIVE STATEMENT

RE: Buzzard 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: 10/20/10



Charles Sadler, Geologist

Buzzard SWD #1 Notification List

Yates Petroleum Corporation

105 South Fourth Street
Artesia, NM 88210

Myco Industries Inc.

105 South Fourth Street
Artesia, NM 88210

Abo Petroleum Corporation

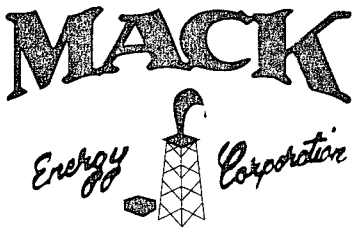
105 South Fourth Street
Artesia, NM 88210

Oxy Y-1 Company

P.O. Box 4294
Houston, TX 77210
Attention: Kate Almeida

Cimarex Energy Company

600 N. Marienfeld, Suite 600
Midland, TX 79701
Attention: Hayden Tresner



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

October 25, 2010

VIA CERTIFIED MAIL 7009 2820 0003 6387 5949
RETURN RECEIPT REQUESTED

Oxy Y-1 Company
P.O. Box 4294
Houston, TX 77210
Attn: Kate Almeida

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

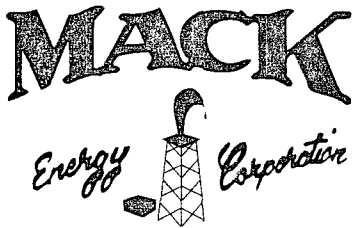
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\dw



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

October 25, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 0423
RETURN RECEIPT REQUESTED

Myco Industries, Inc.
105 South Fourth
Artesia, NM 88210

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

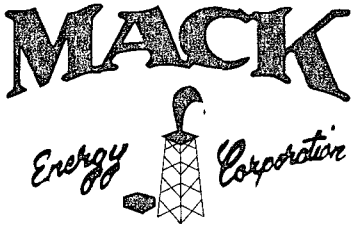
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\dw



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

October 25, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 0416
RETURN RECEIPT REQUESTED

Cimarex Energy Company
600 N. Marienfeld, Suite 600
Midland, TX 79701

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

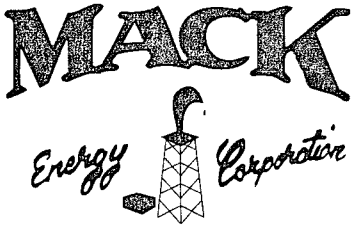
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\dw



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

October 25, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 0430
RETURN RECEIPT REQUESTED

*Abo Petroleum Corporation
105 South Fourth
Artesia, NM 88210*

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

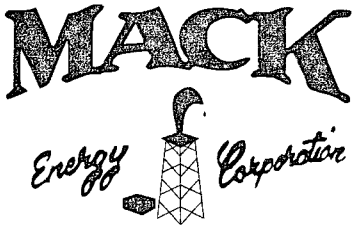
This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

*Jerry W. Sherrell
Production Clerk*

JWSldw



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

October 25, 2010

VIA CERTIFIED MAIL 7009 2820 0003 6387 5956
RETURN RECEIPT REQUESTED

Yates Petroleum Corporation
105 South Fourth
Artesia, NM 88210

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\dw

Legal Notice

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 water into the Buzzard SWD #1 1980 FNL & 1980 FWL of Section 7, T15S R32E, NMPM, Lea County, New Mexico. The water will be injected into the San Andres formation at a disposal depth of 4400-5550'. Water will be injected at a maximum surface pressure of 1670 pounds and a maximum injection rate of 4000 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 (575) 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.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

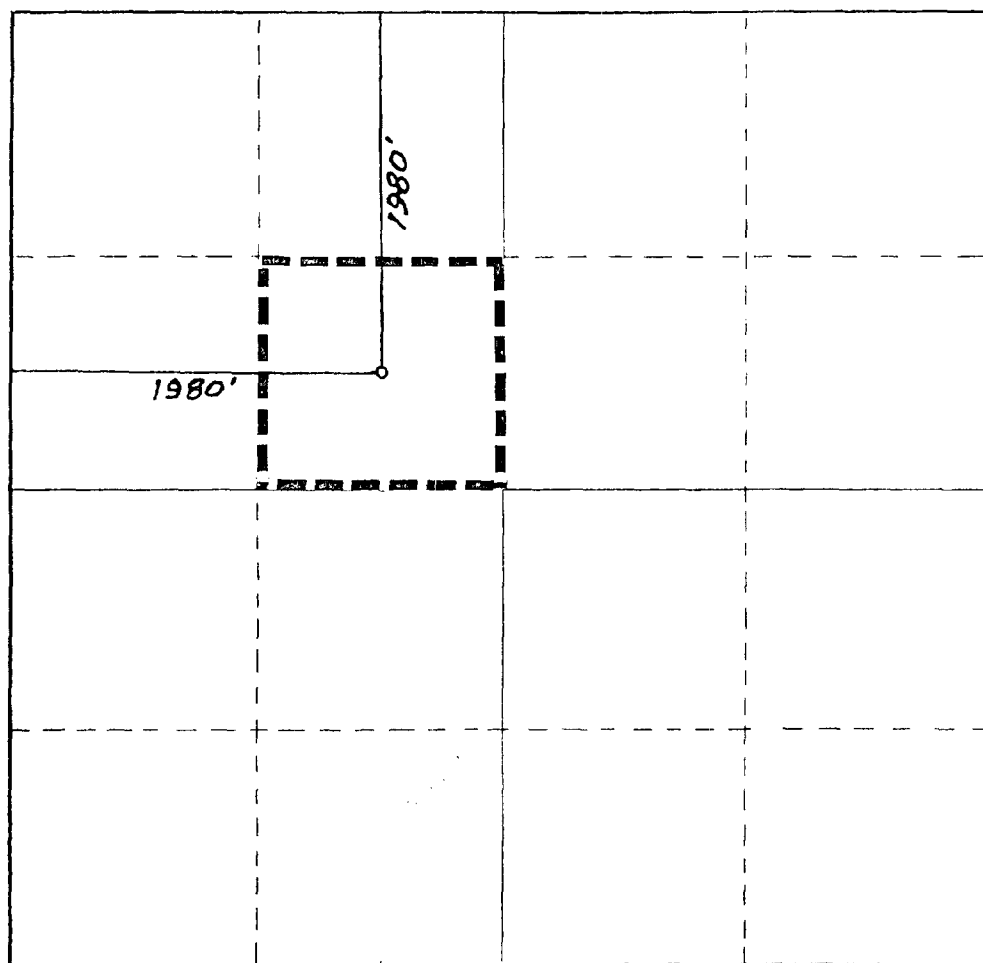
Operator W. A. MONCRIEF JR.			Lease Tulsa State		Well No. 1
Unit Letter F	Section 7	Township 15 South	Range 32 East	County Lea	
Actual Footage Location of Well: 1980 feet from the North line and 1980 feet from the West line					
Ground Level Elev. 4353.	Producing Formation Atoka	Pool Wildcat		Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Dewey E. Thornton

Name

Dewey E. Thornton

Position

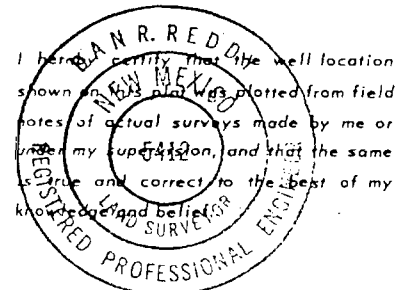
Exploration Manager

Company

W.A. Moncrief, Jr.

Date

12-2-83



Date Surveyed

November 30, 1983

Registered Professional Engineer
and/or Land Surveyor

Dan R. Reddy

Certificate No.

NM PE&LS #5412

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity 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 quadruplicate except on state land, where no copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	1486	T. Canyon	10,500	T. Ojo Alamo	T. Penn. "B"
T. Salt	1586	T. Strawn	11,253	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	2395	T. Atoka	11,500	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2470	T. Miss	12,421	T. Cliff House	T. Leadville
T. 7 Rivers	2626	T. Devonian		T. Menefee	T. Madison
T. Queen	3284	T. Silurian		T. Point Lookout	T. Elbert
T. Grayburg	3830	T. Montoya		T. Mancos	T. McCracken
T. San Andres	3995	T. Simpson		T. Gallup	T. Ignacio Qtzite
T. Glorieta	5580	T. McKee		Base Greenhorn	T. Granite
T. Paddock		T. Ellenburger		T. Dakota	T.
T. Blinberry		T. Gr. Wash		T. Morrison	T.
T. Tubb	6855	T. Granite		T. Todilto	T.
T. Drinkard	6984	T. Delaware Sand		T. Entrada	T.
T. Abo	7629	T. Bone Springs		T. Wingate	T.
T. Wolfcamp	8810	T.		T. Chinle	T.
T. Bough "C"	9842	T.		T. Permian	T.
T. Cisco	9991	T.		T. Penn. "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....	No. 4, from.....to.....
No. 2, from.....to.....	No. 5, from.....to.....
No. 3, from.....to.....	No. 6, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....surface.....to.....360'.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....
No. 4, from.....to.....feet.....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
surface	360	360	caliche & water sands	8810	9220	410	dolomite, lime & shale
360	1486	1126	redbeds	9920	10,475	1255	lime w/shale stringers
1486	1586	100	anhydrite & redbeds	10,475	10,600	125	shale, sand & lime stringer
1586	2395	809	salt w/any stringers	10,600	10,950	350	lime w/shale stringers
2395	2470	75	any & redbeds	10,950	11,500	550	lime, shale & sand stringer
2470	2626	156	sand, any & redbeds	11,500	12,421	921	shale, sand & lime stringer
2626	3284	658	dol & any stringers	12,421	12,449	28	lime
3284	3800	516	sand & any stringers				
3800	3995	195	dol & any stringers				
3995	5580	1585	dolomite				
5580	6210	630	sand & sandy dolomite				
6210	6855	645	dolomite				
6855	6984	129	sand & sandy dolomite				
6984	7629	645	dolomite				
7629	7656	27	shale				
7656	8810	1154	dolomite w/shale stringers				

RECEIVED
MAR 5 1984
O.C.D.
HOBBBS OFFICE

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

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-83

5a. Indicate Type of Lease	
State <input checked="" type="checkbox"/>	Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	
V-916	
7. Unit Agreement Name	
8. Farm or Lease Name	
Tulka State	
9. Well No.	
1	
10. Field and Pool, or Wildcat	
Wildcat	
12. County	
Lea	

SUNDY 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"/>
2. Name of Operator
W.A. Moncrief, Jr.
3. Address of Operator
400 Metro Bldg., Midland, Texas 79701
4. Location of Well
UNIT LETTER <u>F</u> , <u>1980</u> FEET FROM THE <u>north</u> LINE AND <u>1980</u> FEET FROM THE <u>west</u> LINE, SECTION <u>7</u> TOWNSHIP <u>15S</u> RANGE <u>32E</u> NMPM.
13. Elevation (Show whether DF, RT, GR, etc.)
4353' gd., 4364.5' KB

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUS 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 OPS. <input type="checkbox"/>	PLUS AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <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 1703.

- (1.) Operator spudded at 8am 12-15-83
- (2.) Operator set 9 joints of 61# K-55 ST&C 13-3/8" casing at 380' and cemented w/350 sax Class "C" w/2% CaCl on 12-15-83. Cement circulated. WOC 18 hrs.
- (3.) Operator set 99 joints of 32# J-55 ST&C 8-5/8" casing @ 4000' & cemented w/2430 sax HOWCO lite w/15# salt per sack & 1/2# flocele per sack + 200 sax Class "C" on 12-24-83. Cement circulated. WOC 18 hrs. Pressured 8-5/8" casing to 1,000# for 30 minutes. Held OK.

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

SIGNED Dewey E. Sharpton TITLE Exploration Manager DATE 12-27-83

APPROVED BY DISTRICT 1 SUPERVISOR TITLE DATE JAN 3 1984

CONDITIONS OF APPROVAL, IF ANY:



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardenhire, TX 79758
 (432) 563-0727
 Fax: (432) 224-1038
 RECEIVED
 2010 NOV 10 P 1:25

Water Analysis Report

Customer: Mack Energy Corporation
 Area: Artesia
 Lease: Buzzard
 Location: SWD F/W #1 0
 Sample Point: Windmill

Sample #: 2826
 Analysis ID #: 5141

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	10/20/2010	Chloride:	102.7	Sodium:	79.2
Analysis Date:	10/22/2010	Bicarbonate:	103.7	Magnesium:	6.2
Analyst:	Catalyst	Carbonate:		Calcium:	19.3
TDS (mg/l or g/m3):	335.1	Sulfate:	20.0	Potassium:	2.9
Density (g/cm3):	1.003			Strontium:	1.0
				Barium:	0.1
Hydrogen Sulfide:	0			Iron:	0.0
Carbon Dioxide:	0			Manganese:	0.000
Comments:		pH at time of sampling:	7		
		pH at time of analysis:			
		pH used in Calculation:	7		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	496
				Resistivity (ohm meter):	20.1613

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Calcite CaCO ₃			Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		
Temp											
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-1.13	0.00	-2.73	0.00	-2.80	0.00	-2.29	0.00	-0.21	0.00	
100	-0.98	0.00	-2.72	0.00	-2.72	0.00	-2.26	0.00	-0.34	0.00	
120	-0.82	0.00	-2.69	0.00	-2.62	0.00	-2.22	0.00	-0.45	0.00	
140	-0.65	0.00	-2.66	0.00	-2.50	0.00	-2.17	0.00	-0.53	0.00	
160	-0.48	0.00	-2.63	0.00	-2.36	0.00	-2.11	0.00	-0.58	0.00	
180	-0.29	0.00	-2.58	0.00	-2.20	0.00	-2.05	0.00	-0.62	0.00	
200	-0.10	0.00	-2.54	0.00	-2.04	0.00	-1.98	0.00	-0.64	0.00	
220	0.09	1.05	-2.49	0.00	-1.86	0.00	-1.92	0.00	-0.64	0.00	

Jones, William V., EMNRD

From: Deana Weaver [dweaver@mec.com]
Sent: Friday, November 12, 2010 11:51 AM
To: Jones, William V., EMNRD
Cc: Jerry Sherrell
Subject: Buzzard SWD #1;
Attachments: Buzzard SWD #1.pdf

<<Buzzard SWD #1.pdf>> Will

Attached is the affidavit of Publication for the Buzzard SWD #1. I'll send a hard copy in the mail.

Thank you

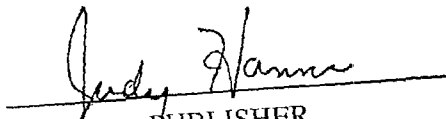
Deana Weaver
Mack Energy Corporation
575-748-1288

Affidavit of Publication

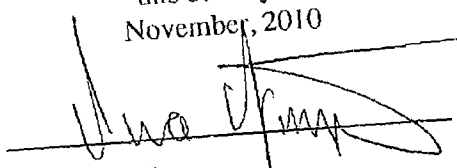
State of New Mexico,
County of Lea.

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

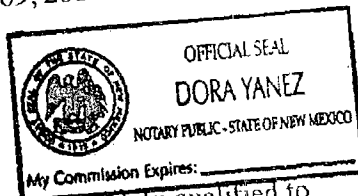
of 1 issue(s).
Beginning with the issue dated
October 21, 2010
and ending with the issue dated
October 21, 2010


PUBLISHER
Sworn and subscribed to before me

this 8th day of
November, 2010


Notary Public

My commission expires
February 09, 2013
(Seal)



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

LEGAL
OCTOBER 21, 2010

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 water into Buzzard SWD #1 1980 FNL & 1980 FWL of Section 7, T15S R32E, NMPM, Lea County, New Mexico. The water will be injected into the San Andres formation at a disposal depth of 4400-5550'. Water will be injected at a maximum surface pressure of 1670 pounds and a maximum injection rate of 4000 BWPD. Any interested party with questions or comments may contact Jerry W. at Mack Energy Corporation Post Office Box 960, Artesia, New Mexico 88211-0960 or call (575) 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.
#26157

67100900

00061590

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

Jones, William V., EMNRD

From: Deana Weaver [dweaver@mec.com]
Sent: Monday, November 22, 2010 3:36 PM
To: Jones, William V., EMNRD
Cc: Jerry Sherrell; Charles Sadler
Subject: Buzzard SWD #1 30-025-28517
Attachments: Buzzard SWD #1.pdf

Mr. Jones,

Below I have answered some of your questions. As soon as I receive answers to questions B and C, I will send it to you.

Thank you.

a. Who is the surface owner of the well site? Please send proof of notice to whomever this is. Letter Attached

b. Please ask your favorite Geo to look at this San Andres interval and do a quick paragraph talking about the oil/gas productive capability - including rough water saturation numbers. If you plan to swab test, let us know. Will send information when I received it. ✓

c. What formations or pools will be the source water going into this well? Will you estimate the salinities of these or send water analysis of each? Will send information when I received it.

d. How deep is the fresh water in this area? 200 feet ✓

Deana Weaver

Mack Energy Corporation
575-748-1288 Phone
575-746-9539 Fax
dweaver@mec.com





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

November 22, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 0492
RETURN RECEIPT REQUESTED

Commissioner of Public Lands
New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a San Andres SWD well. Produced water will be injected at a proposed depth of 4,400-5,550'. The Buzzard SWD #1, located 1980 FNL & 1980 FWL, Sec. 7, T15S R32E, Lea County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to drill this water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell
Production Clerk

JWS\dw

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, November 17, 2010 11:52 AM
To: 'Jerry Sherrell'
Cc: Ezeanyim, Richard, EMNRD; Hill, Larry, EMNRD; Kautz, Paul, EMNRD
Subject: Disposal application from Mack Energy Corp: Buzzard SWD #1 30-025-28517 San Andres Perfed Disposal Interval

Hello Jerry:

Just read over your application:

- SL*
- 11/22/10 + 15 \approx 12/8/10*
- Who is the surface owner of the well site? Please send proof of notice to whomever this is.
 - Please ask your favorite Geo to look at this San Andres interval and do a quick paragraph talking about the oil/gas productive capability – including rough water saturation numbers. If you plan to swab test, let us know.
 - What formations or pools will be the source water going into this well? Will you estimate the salinities of these or send water analysis of each?
 - How deep is the fresh water in this area? *20'*
- waiting 2 of 11/30/10*

All else looks fine.

Regards,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462



Jones, William V., EMNRD

From: Deana Weaver [dweaver@mec.com]
Sent: Tuesday, November 30, 2010 4:15 PM
To: Jones, William V., EMNRD
Cc: Jerry Sherrell; Charles Sadler
Subject: Buzzard SWD #1 30-025-28517

Mr. Jones

Below is the answer to your question B. I'm still working on question C and will get it to you soon.

Thank you

b. Please ask your favorite Geo to look at this San Andres interval and do a quick paragraph talking about the oil/gas productive capability – including rough water saturation numbers. If you plan to swab test, let us know. The San Andres is not productive within several miles of the proposed Buzzard SWD #1. Water saturations in the injection interval are in excess of 75%. Sidewall cores from the Mack Energy Eagle State #1, located approximately 4200' south southeast of the proposed Buzzard SWD #1, had water saturations in excess of 90% in the correlative San Andres injection zone.

Deana Weaver

Mack Energy Corporation
575-748-1288 Phone
575-746-9539 Fax
dweaver@mec.com



Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ (SWD 1256) Permit Date 12/10/10 UIC Qtr (0/N/D)

Wells 1 Well Name(s): BUZZARD SWD #1

API Num: 30-0 25-28517 Spud Date: 12/15/1988 New/Old: N (UIC primacy March 7, 1982)

Footages 1980FM/1980FWL Unit F Sec 7 Tsp 15S Rge 32E County LEA

General Location:

Operator: MACK ENERGY CORPORATION Contact: Jerry W. SH errell

OGRID: 13837 RULE 5.9 Compliance (Wells) 0/355 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed ☒ Current Status: PIA (was TOLK STATE #1)

Planned Work to Well: Re-enter, run 5 1/2" pipe, inject.

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: ☒

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New ___ Existing <input checked="" type="checkbox"/> Surface	17 1/2	13 3/8	380		350 SX	CIRC
New ___ Existing <input checked="" type="checkbox"/> Intern	11	8 5/8	4000		2630 SX	CIRC
New <input checked="" type="checkbox"/> Existing ___ LongSt	7 7/8	5 1/2	5590		800 SX	CIRC
New ___ Existing ___ Liner						
New ___ Existing ___ OpenHole			(5,600' TD)	old TD 12,449		

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	3995	SA	<input checked="" type="checkbox"/>
Injection TOP:	4400	Sandstone	Max. PSI 880
Injection BOTTOM:	5550	Sandstone	Tubing Size 2 1/8
Formation(s) Below	5580	GLAUCONITE	<input checked="" type="checkbox"/>

Capitan Reef? (Potsdam? Noticed?) [WIP? Noticed?] Salado Top/Bot 1586-2315 Cliff House?

Fresh Water: Depths: Formation: Wells? Analysis? ☒ Affirmative Statement ☒

Disposal Fluid Analysis? Sources:

Disposal Interval: Analysis? Production Potential/Testing:

Notice: Newspaper Date 10/21/10 Surface Owner: Mineral Owner(s):

RULE 26.7(A) Affected Persons: YPC, MGA, ARO, OXY-1, Cimarron

AOR: Maps? ☒ Well List? ☒ Producing in Interval? NO Wellbore Diagrams? ☒

.....Active Wells ☒ Repairs? Which Wells? ☒

.....P&A Wells ☒ Repairs? Which Wells? ☒

Issues: Request Sent: Reply: