DATE IN 11,5,10	SUSPENSE	ENGINEER WJ	LOGGED IN 11.5.10	TYPE SWD 1269	APP NO. 1030947420

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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

MAC IC Energy

RECEIVED OCD

2010 NOV -5 P 12:57

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

Dino SWD #1

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	Jerry W. Sherrell	Production Clerk	11-4-2010
Print or Type Name	Signature	Title	Date

jerrys@mec.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 SOUTH PACHECO
SANTA FE, NEW MEXICO 87505

FORM C- 108
Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance X Disposal _____Storage
Application qualifies for administrative approval'? X Yes _____No

IL OPERATOR: Mack Energy Corporation

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

CONTACTPARTY: 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.

VIL 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.).

*V111. 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/I 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: 11-4-2010

* **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

Side I

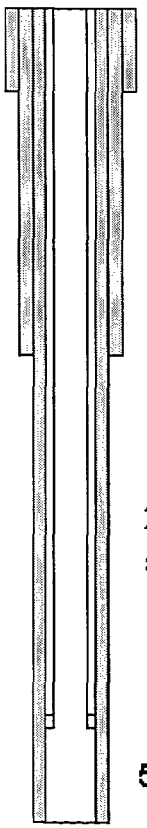
INJECTION WELL DATA SHEET

OPERATOR: **Mack Energy Corporation**

WELL NAME & NUMBER: **Dino SWD #1**

WELL LOCATION:					
1680 FSL & 705 FWL	**L**	**30**	**15S**	**30E**
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



13 3/8" casing @ 450', cem w/ 450sx; circ

8 5/8" casing @ 2900', cem w/800sx, circ.

2 7/8" PC tubing @ 11,125'
set w/ 10k nickel plated pkr

Perfs @ 11,150-12,525'

5 1/2" casomg @ 12750', cem w/2500sx, circ

TD @ 12,750'

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: **17 1/2"** Casing Size: **13 3/8 @ 450'**

Cemented with: **450sx** sx. or _____ ft

Top of Cement: **Surface** Method Determined: **Circulated**

Intermediate Casing

Hole Size: **12 1/4"** Casing Size: **8 5/8 @ 2900'**

Cemented with: **800sx** sx. or _____ ft

Top of Cement: **Surface** Method Determined: **Circulated**

Production Casing

Hole Size: **7 7/8"** Casing Size: **5 1/2" @ 12,750'**

Cemented with: **2500sx** sx. or _____ ft

Top of Cement: **Surface** Method Determined: **Circulated**

Total Depth: **12,750'**

Injection Interval

11,150 feet to **12,525' Perforated**

(Perforated or Open Hole; indicate which)

11,150 - 12,525

INJECTION WELL DATA SHEET

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

Type of Packer: **Arrow Set 10K Nickel Plated Packer**

Packer Setting Depth: **11,125'**

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

Additional Data

1. Is this a new well drilled for injection? [X] Yes [ ] No

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

2. Name of the Injection Formation: **Devonian, Montoya and Ellenburger**

3. Name of Field or Pool (if applicable): **Little Lucky Lake**

4. 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. **No**

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: **Morrow Gas-10,000'**

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

1. Lithologic Detail; **Dolomite**
2. Geological Name; **SWD; Devonian, Montoya and Ellenburger**
3. Thickness; **800', 200', 300'**
4. Depth; **11,150-11,950', 11,950-12,150', 12,225'-12,525'**

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: Dino 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

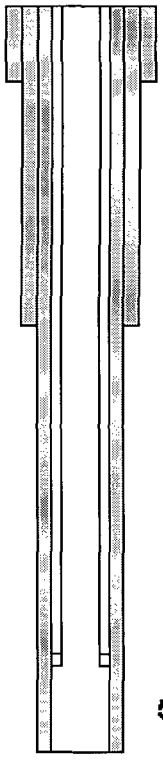
Date: 11/4/10

Charles Sadler, Geologist

AREA OF REVIEW WELL DATA

LEASE	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
		1680' FSL			17 1/2	13 3/8, 48#	450'	450	Circ	
		705' FWL		SWD	12 1/4	8 5/8, 32#	2900'	800	Circ	
Dino SWD	1	30-15S-30E	12,750'	Pending	7 7/8	5 1/2, 17#	12,750'	2500	Circ	11,150-12,525'
						13 3/8, 48#	493'	500	Circ	
		660' FNL			17 1/2	8 5/8, 32#	2929'	1400	Circ	3666-3738'
		1980' FWL	11,250'	Oil	12 1/4	5 1/2, 15.5#	4406'	275	2835	9334-9359'
Champeau Fed	1	31-15S-30E	(P & A)	5-3-1962	7 7/8	4", 12.93#	10.032'	425	8500	9894-9946'

Dino SWD #1
1680 FSL & 705 FWL
Sec. 30 T15S R30E



13 3/8" casing @ 450', cem w/ 450sx; circ

8 5/8" casing @ 2900', cem w/800sx, circ.

2 7/8" PC tubing @ 11,125'
set w/ 10k nickel plated pkr

Perfs @ 11,150-12,525'

5 1/2" casomg @ 12750', cem w/2500sx, circ

TD @ 12,750'

NADEL AND GUSSMAN PERMIAN

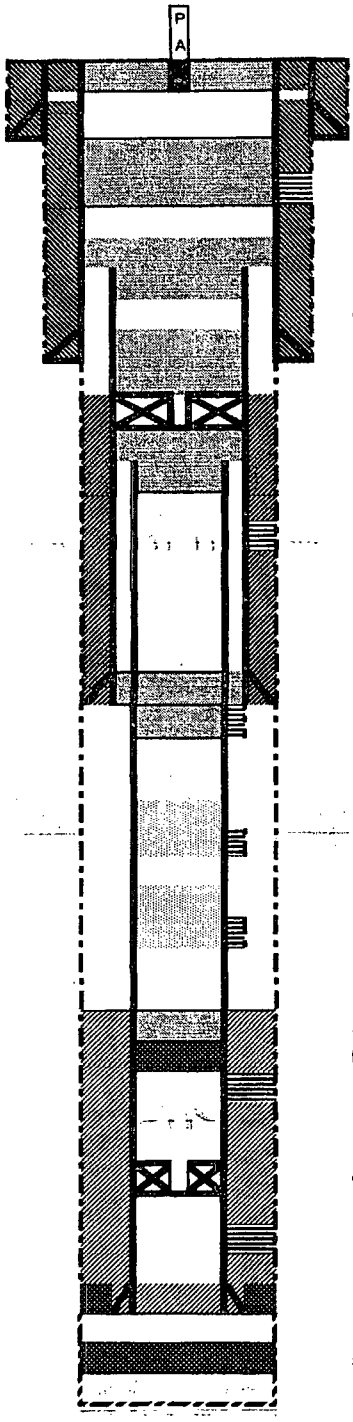
Champeau Federal #1

660' FNL, 1980' FWL, UnitC, Sec 31, T15S, R30E, Chaves County, NM

API # 30-005-00518

Elev: 3932' GL

Actual P&A



20 sx plug at 60' - surface

13-3/8", 48# @ 493'
500 sx, circulated
17-1/2" hole

60 sx plug 597'- 363' tagged
Perf @ 543'.

50 sx plug 2072-1852' tagged
Cut 5-1/2" csg @ 2009'.

8-5/8", 32# @ 2929'
1300 sx, DNC
1" from 250' to surface w/ 100 sx
11" hole

20 sx plug @ 2925-2733' tagged
Cmt Ret @ 3170' spot 35 sxs 3170-2925 tagged
35 sx @ 3549-3174 tagged
Cut 4"casing at 3500'

San Andres Perfs: 3666' - 3738'
@ 2 SPF, 15/15 LO frac
SQZD w/ 250 sx (3/85)

5-1/2", 15.5 & 17# @ 4406'
275 sx, TOC @ 2835', calc 75%
7-7/8" hole

25 sx plug: 4580' - 3806' tagged
across production casing shoe
Perf @ 4550'

25 sx plg @ 6474- 5996 tagged
Perf @ 6400'

25 sx plug @ 8109-7312 tagged
Perf @ 8000'

60 sx plug: 9302' - 8861' tagged
Spotted 2 30 sxs plugs twice
tag solid @ 9302'
Strawn Perfs: 9334' - 9359'
@ 2 SPF, 38 holes, 2500 gals 7 1/2% NEFE

cmt ret @ 9882'

Morrow Perfs: 9894' - 9946'
@ 2 SPF

4", 12.93# N-80 @ 10,032'
425 sx, TOC @ 8500' by T.S.

50 sx plug: 11,000' - 10,900'

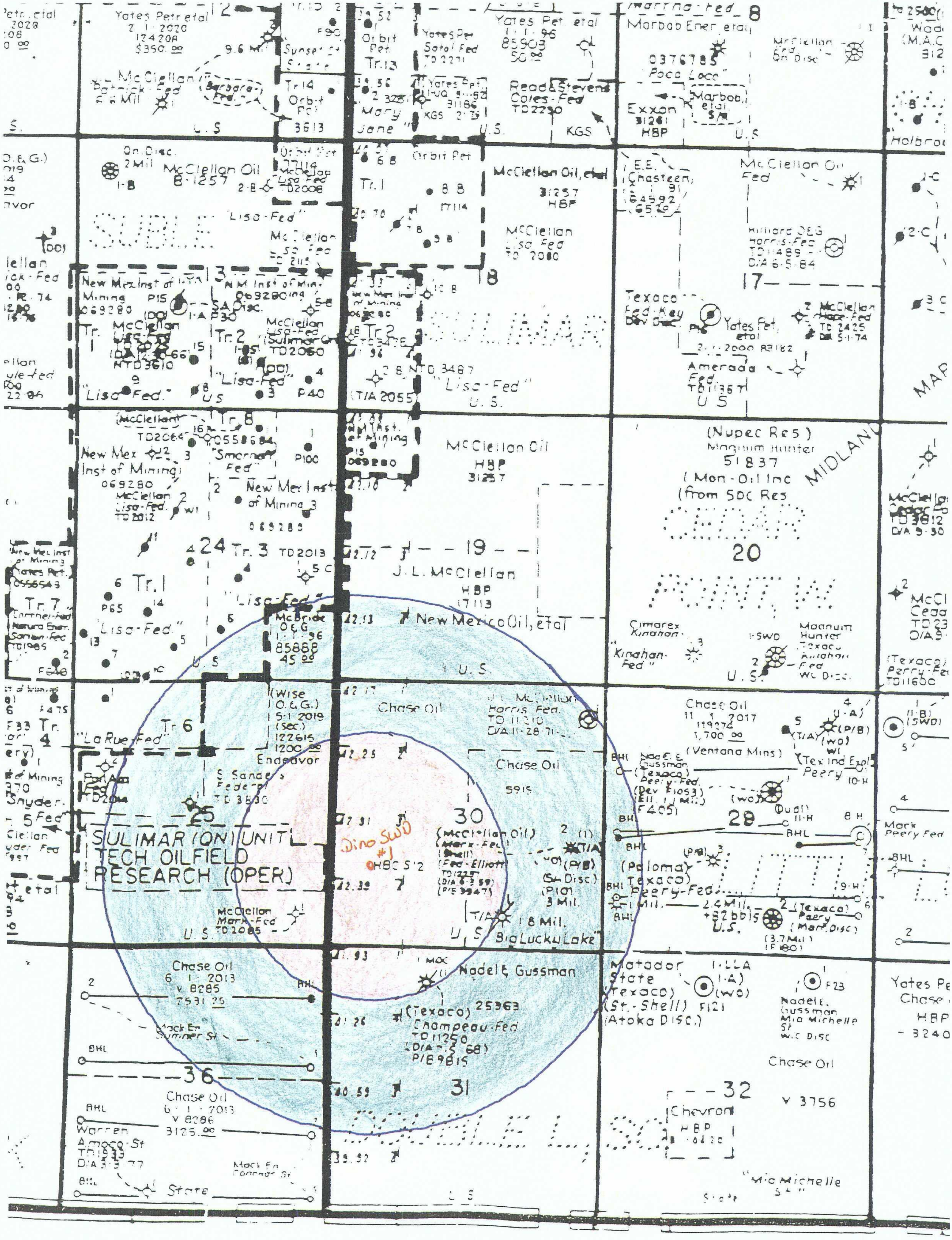
PBTD @ 9978'

TD @ 11,250'

Former Well Name: **Texaco - Shell Champeau Federal #1**

RTM Spud Date: 05/03/62, P&A 7/05/68, reentered 3/27/85

9/14/2004



Yates Pet. etal
McClellan Oil
Lisa-Fed
New Mex Inst of Mining
Orbit Pet.
Read & Stevens Coles-Fed
Exxon
Marbob Ener. etal
Poco Loco
E.E. Chasteen
Hilliard O&G Harris-Fed
Texaco Fed-Key
Yates Pet. etal
Amerada Fed.
SULIMAR
McClellan Oil HBP 31257
(Nupec Res) Magnum Hunter 51837
(Mon-Oil Inc (from SDC Res
MIDLAND
CEDAR POINT W.
J.L. McClellan HBP 17113
New Mexico Oil, etal
McBride O&G
Cimarex Kinahan
Kinahan-Fed
(Wise O.&G.) 5-1-2019
Chase Oil
La Rue-Fed
Endeavor
S Sanders Federal TD 3830
SULIMAR (ON) UNIT
TECH OILFIELD RESEARCH (OPER)
Dino SWD #1
(McClellan Oil) Mark-Fed
(Paloma) Texaco Peery-Fed
Big Lucky Lake
McClellan Mark-Fed TD 2085
Chase Oil 11 1 2017
Chase Oil 6 1 2013
Nadel & Gussman
(Texaco) Champeau-Fed
Matador State Texaco (St.-Shell) (Atoka Disc.)
Nadel & Gussman Mia Michelle St
Mack En. Sumner St
Warren Amoco-St
Chevron HBP
Mia Michelle St
U.S.
State
12 8 13 17 18 19 20 24 25 28 29 30 31 32 36

AFFIDAVIT OF PUBLICATION
STATE OF NEW MEXICO

I, Corinna Martinez
Legals Clerk

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico do solemnly swear that the clipping hereto attached was published in the regular and entire issue of said paper and not in a supplement thereof for a period of:

one time with the issue dated

October 22, 2010

Clerk

Sworn and subscribed to before me

this 26th October, 2010

Notary Public

My Commission expires
June 13, 2014

(SEAL)

Publish October 22, 2010

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 Dinc SWD #1 1680 FSL & 705 FWL of Section 30, T15S R30E, NMPM *Chaves County, New Mexico. Water will be injected into the Devonian* Montoya and Ellenburger formations at a depth of 11, 150-12,525 Water will be injected at a maximum surface pressure of 2230 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.

MACK Energy Corporation

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

November 4, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 0072
RETURN RECEIPT REQUESTED

Bureau of Land Management
2909 W. 2nd. Street
Roswell, NM 88202

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Devonian, Montoya and Ellenburger SWD well. Produced water will be injected at a proposed depth of 11,150-12,525'. The Dino S WD #1, located 1680 FSL & 705 FWL, Sec. 30, T15S R30E, Chaves 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

Jerry W. Sherrell
Production Clerk

JWS\

MACK Energy Corporation

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

November 4, 2010

VIA CERTIFIED MAIL 7009 2820 0004 4193 5534
RETURN RECEIPT REQUESTED

Caza Petroleum Inc.
2002 Timberloch P., #500
The Woodlands, TX 77380

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Devonian, Montoya amd Ellenburger SWD well. Produced water will be injected at a proposed depth of 11,150-12,525'. The Dino S WD #1, located 1680 FSL & 705 FWL, Sec. 30, T15S R30E, Chaves County.

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Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell

Jerry W. Sherrell
Production Clerk

JWS\

MACK Energy Corporation

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

November 4, 2010

VIA CERTIFIED MAIL 7008 1140 0004 0380 9328
RETURN RECEIPT REQUESTED

Endeavor Energy Resources
110 N Marienfeld, #200
Midland, TX 79701

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for a Devonian, Montoya amd Ellenburger SWD well. Produced water will be injected at a proposed depth of 11,150-12,525'. The Dino S WD #1, located 1680 FSL & 705 FWL, Sec. 30, T15S R30E, Chaves 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\

MACK Energy Corporation

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

November 4, 2010

VIA CERTIFIED MAIL 7008 1140 0004 0380 9267
RETURN RECEIPT REQUESTED

Wise Oil & Gas
6851 NE Loop 820, Suite 110
North Richland Hills, TX 76180

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for a Devonian, Montoya amd Ellenburger SWD well. Produced water will be injected at a proposed depth of 11,150-12,525'. The Dino S WD #1, located 1680 FSL & 705 FWL, Sec. 30, T15S R30E, Chaves 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

Jerry W. Sherrell
Production Clerk

JWS\

Jones, William V., EMNRD

From: Jerry Sherrell [jerrys@mec.com]
Sent: Wednesday, December 08, 2010 8:37 AM
To: Jones, William V., EMNRD
Cc: Deana Weaver
Subject: Dino SWD #1
Attachments: Peery Wolfcamp water analysis.pdf

Will,
I have attached the water analysis for the waters to be disposed of at the Dino SWD #1.

Thanks,

Jerry W. Sherrell
Mack Energy Corporation
P.O. Box 960
Artesia, NM 88211-0960
Office 575-748-1288
Cell 575-703-8383
jerrys@mec.com

Catalyst Oilfield Services
11999 E Hwy 158
Gardendale, TX 79758
(432) 563-0727
Fax: (432) 224-1038

CATALYST
Oilfield Services

Water Analysis Report

Company:	Mack Energy Corporation	Sample #:	3121
Area:	Artesia	Analysis ID #:	5506
Lease:	Peery		
Location:	Battery 0		
Sample Point:	Wolfcamp Battery		

Sampling Date:	11/12/2010
Analysis Date:	11/30/2010
Analyst:	Catalyst
TDS (mg/l or g/m3):	43156.4
Density (g/cm3):	1.023
Hydrogen Sulfide:	367
Carbon Dioxide:	29
Comments:	

Anions	mg/l	meq/l
Chloride:	**18168.3**	**512.46**
Bicarbonate:	**518.5**	**8.5**
Carbonate:		
Sulfate:	**2100.0**	**43.72**

Cations	mg/l	meq/l
Sodium:	**11480.0**	**499.35**
Magnesium:	**263.8**	**21.7**
Calcium:	**807.8**	**40.31**
Strontium:	**35.1**	**0.8**
Barium:	**0.4**	**0.01**
Potassium:	**99.8**	**2.55**
Iron:	**0.0**	**0.**
Manganese:	**0.000**	**0.**

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):	**57400**
Resistivity (ohm meter):	**.1742**

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

Temp	Calcite $CaCO_3$		Gypsum $CaSO_4{*}2H_2O$		Anhydrite $CaSO_4$		Celestite $SrSO_4$		Barite $BaSO_4$	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.08	1.36	-1.06	0.00	-1.11	0.00	-0.32	0.00	1.29	4.07
100	0.18	3.39	-1.09	0.00	-1.07	0.00	-0.33	0.00	1.13	3.73
120	0.29	5.76	-1.10	0.00	-1.01	0.00	-0.31	0.00	0.98	3.73
140	0.39	8.14	-1.11	0.00	-0.92	0.00	-0.30	0.00	0.86	3.39
160	0.50	10.51	-1.11	0.00	-0.82	0.00	-0.27	0.00	0.76	3.39
180	0.62	13.22	-1.10	0.00	-0.70	0.00	-0.24	0.00	0.68	3.39
200	0.73	15.93	-1.09	0.00	-0.57	0.00	-0.20	0.00	0.62	3.05
220	0.84	18.65	-1.08	0.00	-0.43	0.00	-0.17	0.00	0.57	3.05

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, December 16, 2010 5:07 PM
To: 'Jerry Sherrell'
Cc: Ezeanyim, Richard, EMNRD; Hill, Larry, EMNRD
Subject: Disposal application from Mack Energy Corp: Dino SWD #1 30-005-00000 Devonian, Montoya, Ellenburger

Hello Jerry:

Would you send a quick writeup from a geo as to why you are drilling a deep disposal well in this particular spot? Do you have a Devonian structure map of this area?
Will you mudlog this interval or swab test it?

When you get any Fresh Water well info let me know?

What step is this in the BLM permitting process?

Is the BLM the surface owner?

Take Care,

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: Jerry Sherrell [jerrys@mec.com]
Sent: Tuesday, December 21, 2010 1:34 PM
To: Jones, William V., EMNRD
Cc: Deana Weaver
Subject: FW: Disposal application from Mack Energy Corp: Dino SWD #1 30-005-00000 Devonian, Montoya, Ellenburger

---

From: Jerry Sherrell
Sent: Friday, December 17, 2010 7:04 AM
To: Charles Sadler
Cc: Deana Weaver
Subject: FW: Disposal application from Mack Energy Corp: Dino SWD #1 30-005-00000 Devonian, Montoya, Ellenburger

Charles, can you help me out with this, please?

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]
Sent: Thursday, December 16, 2010 5:07 PM
To: Jerry Sherrell
Cc: Ezeanyim, Richard, EMNRD; Hill, Larry, EMNRD
Subject: Disposal application from Mack Energy Corp: Dino SWD #1 30-005-00000 Devonian, Montoya, Ellenburger

Hello Jerry:

Would you send a quick writeup from a geo as to why you are drilling a deep disposal well in this particular spot? Do you have a Devonian structure map of this area?
Will you mudlog this interval or swab test it?

When you get any Fresh Water well info let me know? **There are no fresh water wells close to this area.**

What step is this in the BLM permitting process? **Permit sent, working on Plan of Development, Sand Dune Lizard Survey Complete.**

Is the BLM the surface owner? **Yes(grazing lessee Bogel).**

Take Care,

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

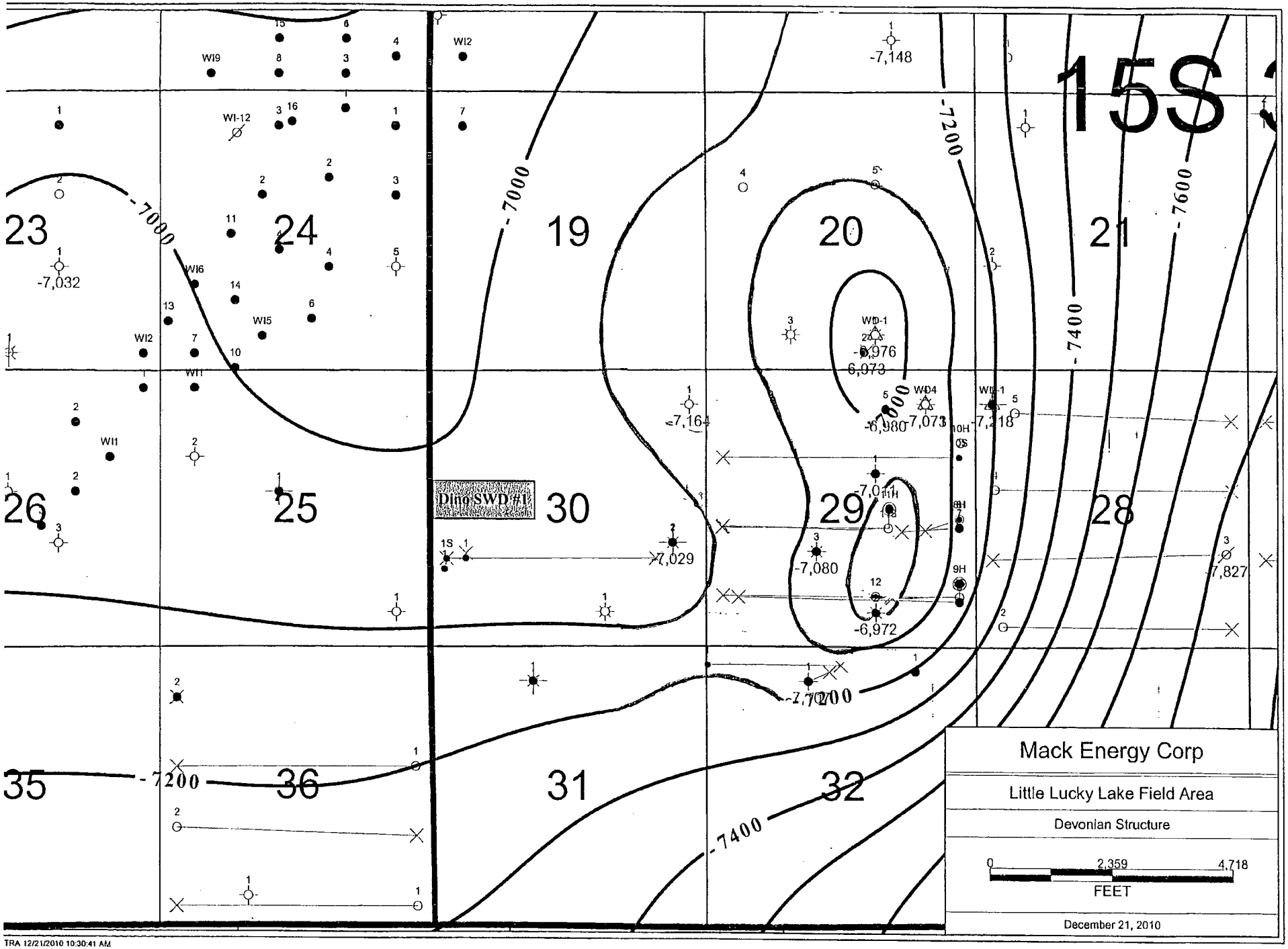
Jones, William V., EMNRD

From: Jerry Sherrell [jerrys@mec.com]
Sent: Tuesday, December 21, 2010 1:35 PM
To: Jones, William V., EMNRD
Cc: Deana Weaver
Subject: FW: Dino SWD #1 Geology Comments
Attachments: Little Lucky Lake Dev Str.pdf

From: Charles Sadler
Sent: Tuesday, December 21, 2010 1:21 PM
To: Jerry Sherrell
Cc: Matt Brewer; Cari Sadler; Chris Moreno; Deana Weaver
Subject: Dino SWD #1 Geology Comments

The Dino SWD #1 is a proposed Devonian, Montoya, and Ellenburger disposal well located in the SW/4 of Section 30, T15S R30E. The Devonian, Montoya, and Ellenburger are not prospective for oil and gas at the proposed location. There is no structural closure at the Devonian horizon to support trapping of hydrocarbons in the Paleozoic (See Attached). This location was also chosen because of proposed Wolfcamp horizontal drilling potential in Section 30. The Barney Fed Com #1 is a proposed horizontal Wolfcamp test and is located on the same 40 acre tract as the proposed Dino SWD #1

Electric logs and mudlogs will be run across all proposed disposal zones.



TRA 12/21/2010 10:30:41 AM

NO API 12/23/10

Injection Permit Checklist (11/15/2010)

WFX ____ PMX ____ SWD 1260 Permit Date 12/23/10 UIC Qtr (O)(N)(D)

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

API Num: 30-0 25-00000 Spud Date: not drilled New/Old: N (UIC primacy March 7, 1982)

Footages 1680 FSL/705 FWL Unit L Sec 30 Tsp 15S Rge 30E County Chaves

General Location:

Operator: MACK ENERGY ~~Corporation~~ Contact Jerry Sherrell

OGRID: 13837 RULE 5.9 Compliance (Wells) 0/356 (Finan Assur) ____ IS 5.9 OK? OK

Well File Reviewed NONE YET Current Status: Not Drilled

Planned Work to Well: Drill, EQUIP, ~~ENT~~

Diagrams: Before Conversion ~~X~~ After Conversion ✓ Elogs in Imaging File: New well

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New ✓ Existing __ Surface	17½ 13⅜	450	—	450	CIRC
New ✓ Existing __ Interm	12¼ 8⅝	2,900		800	CIRC
New ✓ Existing __ LongSt	7⅞ 5½	12,750		2500 sx	CIRC
New __ Existing __ Liner					
New __ Existing __ OpenHole					

PLAN

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above			
Injection TOP:	11,150	DEV, Montoya	Max. PSI 2230 OpenHole ___ Perfs ✓
Injection BOTTOM:	12,525	Ellenburger	Tubing Size 2⅞ Packer Depth 11,135
Formation(s) Below			

LITTLE LUCKY LAKE
SULIMAR QUEEN
(NM TECH Research area)

~~Capitan Reef?~~ ____ (~~Potash?~~ ____ ~~Noticed?~~ ____) [~~WIPP?~~ ____ ~~Noticed?~~ ____] Salado Top/Bot ____ ~~Cliff House?~~ ____

Fresh Water: Depths: ____ Formation ____ Wells? ____ Analysis? ____ Affirmative Statement ✓

Disposal Fluid Analysis? ✓ Sources: Wolfcamp exc

Disposal Interval: Analysis? ____ Production Potential/Testing: ✓

Notice: Newspaper Date 10/22/10 Surface Owner BLM Mineral Owner(s)

RULE 26.7(A) Affected Persons: ~~Yates~~ Yates ✓ / Endeavor ✓ / Caza ✓ / Wiser Oil Co ✓

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

.....Active Wells 0 Repairs? — Which Wells? —

.....P&A Wells 1 Repairs? 0 Which Wells? —

Issues: Request Sent ____ Reply: ____