

8/25/2014 DATE IN	SUSPENSE	PRG ENGINEER	8/25/2014 LOGGED IN	SWD TYPE	PMAM1423757381 APP NO.
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received 3/1/15

WV

1539

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



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.

Deana Weaver
Print or Type Name

Deana Weaver
Signature

Production Clerk
Title

8.21.14
Date

dweaver@mec.com
e-mail Address

- SWD
- MACK ENERGY CORP
13837
2014 AUG 25 P 3:00
RECEIVED OGD
wey
- Karst SWD #1
30-015-42528
Pool
- SWD, Bell Canyon
CHERRY CANYON
96802

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: Deana Weaver 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: Deana Weaver

TITLE: Production Clerk

SIGNATURE: Deana Weaver

DATE: 8.21.14

* 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

INJECTION WELL DATA SHEET

OPERATOR: **Mack Energy Corporation**WELL NAME & NUMBER: **Karst SWD #1**WELL LOCATION: **1150 FSL & 675 FEL**

FOOTAGE LOCATION

P

UNIT LETTER

35

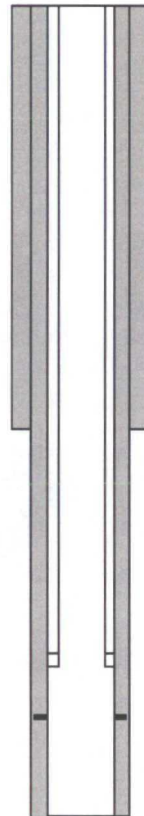
SECTION

22S

TOWNSHIP

27E

RANGE

WELLBORE SCHEMATIC8 5/8" csg @ 1150'
w/ 610sx, circ2 7/8" tubing @ 2230'
pump @ 2230'5 1/2" csg @ 4350'
w/ 690sx cmt, circ

Perfs @ 2280-4199'

TD- 4350'

WELL CONSTRUCTION DATASurface CasingHole Size: 12 1/4 Casing Size: 8 5/8" J-55Cemented with: 610sx sx. or _____ ftTop of Cement: Surface Method Determined: CirculatedIntermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: 7 7/8 Casing Size: 5 1/2", L-80Cemented with: 690sx sx. or _____ ftTop of Cement: Surface Method Determined: CirculatedTotal Depth: 4350'Injection Interval2280 feet to 4199

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Plastic CoatedType of Packer: Halliburton Trump PackerPacker Setting Depth: 2230'

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: Bell Canyon and Cherry Canyon

3. Name of Field or Pool (if applicable): _____

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying- Limestone , Underlying- Bone Sping

VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Respectively, 2000 BWPD and 4000 BWPD
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
0-456#
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; **Sandstone**
2. Geological Name; **SWD; Bell Canyon-Cherry Canyon**
3. Thickness; **1919'**
4. Depth; **2280-4199'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 10000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data will be filed with the OCD.

XI. ANALYSIS OF FRESHWATER WELLS

1. Will be forwarded, when complete.

Additional Information

Waters Injected: Delaware Sands and Bone Spring

XII. AFFIRMATIVE STATEMENT

RE: Karst 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: _____

8/21/14

A handwritten signature in black ink, appearing to read 'C. Sadler', written over a horizontal line.

Charles Sadler, Geologist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88216
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42528	² Pool Code 96802	³ Pool Name SWD; Bell@Canyon - Cherry Canyon
⁴ Property Code 313533	⁵ Property Name KARST SWD	⁶ Well Number 1
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	⁹ Elevation 3084.8

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	22 S	27 E		1150	SOUTH	675	EAST	EDDY

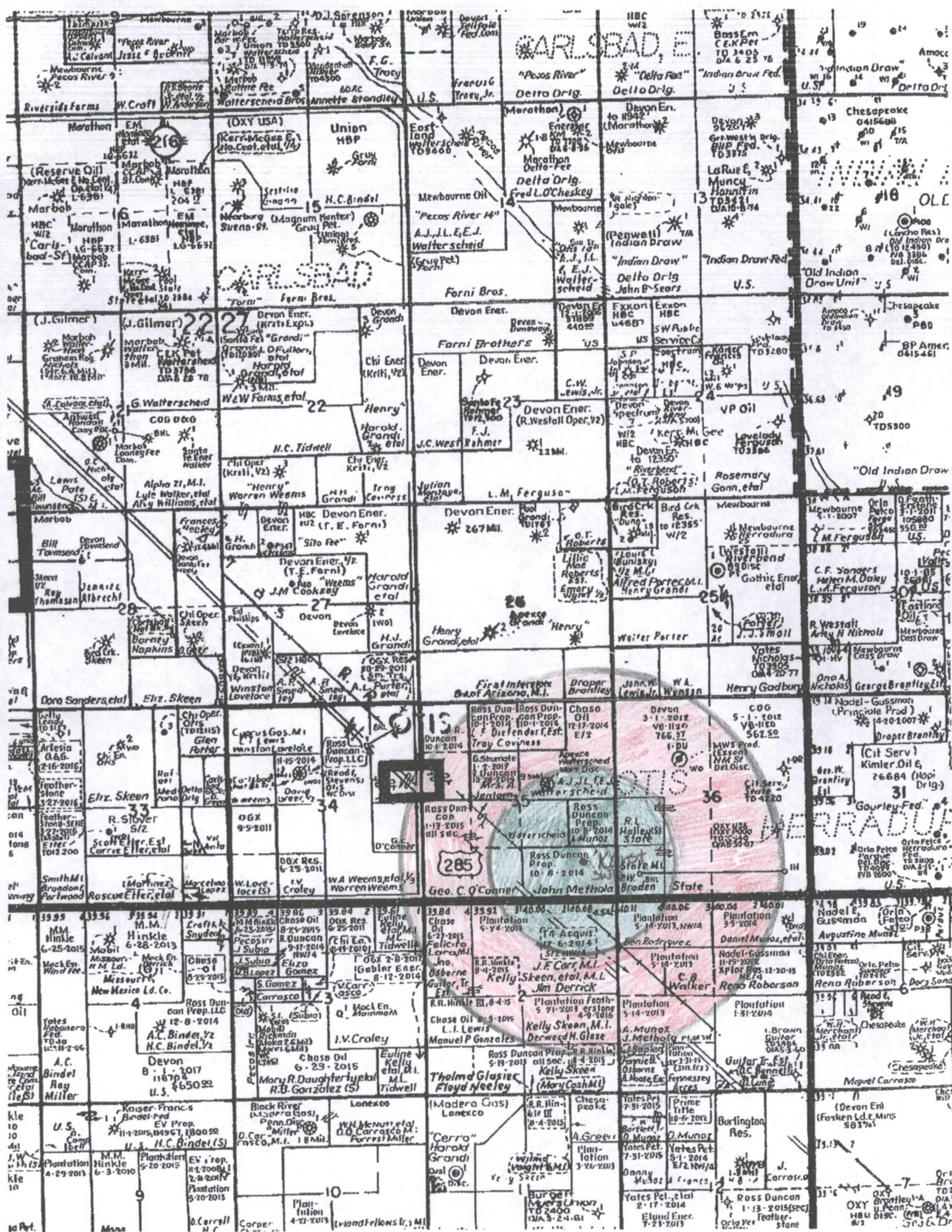
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p>N89°47'33"E 2622.10 FT</p> <p>NW CORNER SEC. 35 LAT. = 32°21'22.643"N LONG. = 104°10'07.345"W NMSP EAST (FT) N = 493389.08 E = 592171.42</p> <p>N O CORNER SEC. 35 SCALED</p> <p>NE CORNER SEC. 35 LAT. = 32°21'22.747"N LONG. = 104°09'06.219"W NMSP EAST (FT) N = 493408.08 E = 597414.38</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN DEGREES, MINUTES AND DECIMAL SECONDS FORMAT. LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.</p> <p>E O CORNER SEC. 35 LAT. = 32°20'56.279"N LONG. = 104°09'06.895"W NMSP EAST (FT) N = 490733.28 E = 597360.96</p> <p>KARST SWD #1 ELEV. = 3084.8' LAT. = 32°20'41.142"N (NAD83) LONG. = 104°09'15.148"W NMSP EAST (FT) N = 489202.50 E = 596655.52</p> <p>SW CORNER SEC. 35 LAT. = 32°20'29.452"N LONG. = 104°10'09.412"W NMSP EAST (FT) N = 488013.71 E = 592002.38</p> <p>S O CORNER SEC. 35 LAT. = 32°20'29.631"N LONG. = 104°09'38.491"W NMSP EAST (FT) N = 488035.98 E = 594654.98</p> <p>SE CORNER SEC. 35 LAT. = 32°20'29.808"N LONG. = 104°09'07.568"W NMSP EAST (FT) N = 488058.22 E = 597307.76</p> <p>SURFACE LOCATION 675' 1150'</p> <p>N01°48'04"E 2689.63 FT</p> <p>N01°48'04"E 2689.63 FT</p> <p>S01°08'39"W 2675.94 FT</p> <p>S01°08'22"W 2676.20 FT</p> <p>S89°31'09"W 2653.30 FT</p> <p>S89°31'11"W 2653.48 FT</p>		<p>¹⁷ OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Deana Weaver B.J.</i> Signature Date</p> <p>Deana Weaver Printed Name</p> <p>dweaver@mec.com E-mail Address</p> <p>¹⁸ SURVEYOR CERTIFICATION</p> <p>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.</p> <p>JUNE 9, 2014 Date of Survey</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number FILINON L. JARAMILLO, PLS 12797 SURVEY NO. 3023</p>
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(2 wells in AOR)

AREA OF REVIEW WELL DATA

LEASE/API	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
Karst SWD	1	1150' FSL 675' FEL 35- 22S-27E	4350'	SWD	12 1/4" 7 7/8"	8 5/8, 32# 5 1/2", 17#	1150' 4350'	610 690	Circ Circ	2280-4199'
(MACK) Carlsbad Fee 30-015-41627	1	990' FSL 990' FEL 35-22S-27E	9347' PBTD- 9286'	Oil 12/7/2013	17 1/2" 12 1/4" 7 7/8"	13 3/8, 48# 8 5/8, 32# 5 1/2, 17#	418' 2035' 9347'	470 1125 1350	Circ Circ Circ	7489-7624' 8221-8654' 8951-9232'
Marvel Fee 30-015-41922	1	1650' FNL 1650' FWL 1-23S-27E	9440' PBTD-	Oil 4/27/2014	17 1/2" 12 1/4" 8 3/4"	13 3/8, 48# 9 5/8, 36# 7, 26#	416' 2146' 9440'	470 650 1255	Circ Circ Circ	
Walterschied Com 30- 015-21102	1	2240' FNL 1830' FEL 35-22S-27E	12,460' PBTD- 12,400'	Gas 5/31/1974 P&A 7/12/1976	15" 12" 8 3/4"	12 3/4, 40# 9 5/8, 36# & 40# 4 1/2, 11.6#, 13.5#, 15.1#	363' 4576' 12450'	240 1050 675	Circ Circ Circ	11,958-11,968'
OXY Pogo State 30- 015-34549	1	1980' FSL 990' FEL 36-22S-27E	12,540' PBTD- 11,096'	OUT of AOR Dry 1/30/2006 P&A 8/30/2007	17 1/2" 12 1/4" 8 3/4"	13 3/8, 48# 9 5/8, 36# 7, 26# 4 1/2 Liner	438' 2528' 9509' 8910- 12540'	700 760 1280 300	Circ Circ Circ Circ	11,146-12,282'
New Mexico DU State 30- 015-24531	1	1973' FNL 1809' FWL 36-22S-27E	5890' PBTD- 5889'	OUT of AOR SWD 11/6/2007	17 1/2" 11" 7 7/8"	13 3/8, 54.5# 8 5/8, 24# 5 1/2, 17#	612' 2411' 5889'	500 800 1250	Circ Circ Circ	4988-5644'
Drilled & Fraped - BUT NOT C-104/105 / Production / 6774-9246										
Intermediate was located - Sand analysis over inline DISCUSSION of										

No records
Circ
No logs
(No logs)
(6200' 8' LTDS)
OUT of AOR
OUT of AOR

Karst SWD #1
Sec. 35 T22S R27E
1150 FSL 675 FEL

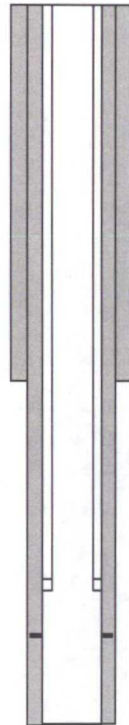
8 5/8" csg @ 1150'
w/ 610sx, circ

2 7/8" tubing @ 2230'
pump @ 2230'

5 1/2" csg @ 4350'
w/ 690sx cmt, circ

Perfs @ 2280-4199'

TD- 4350'

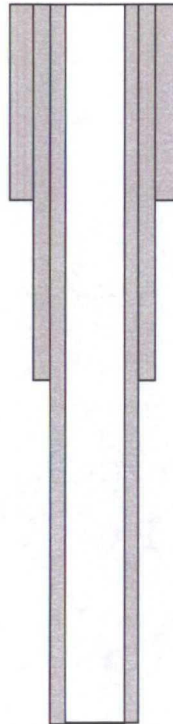


Marvel Fee #1
Sec. 1 T23S R27E
1650' FNL 1650' FWL
30-015-41922

13 3/8" csg @ 416'
w/ 470sx, circ

9 5/8" csg @ 2146'
w/ 650sx cmt, circ

7" csg @ 9440'
w/ 1255sx cmt, circ



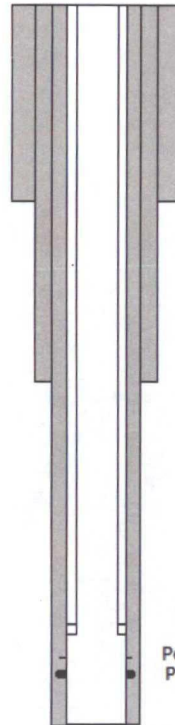
TD- 9440'
PBTD-9440'

New Mexico DU State #1
Sec. 36 T22S R27E
1673' FNL 1809 FWL
30-015-24531

13 3/8" csg @ 612'
w/ 800sx, circ

8 5/8" csg @ 2411'
w/ 1300sx, circ

5 1/2" csg @ 5889'
w/ 1250sx, circ



2 7/8" tubing @ 4891'
Packer @ 4891'

Perfs @ 4988-5002'
Perfs @ 5075-5644'

TD- 5890'
PBTD- 5889'

Noz in AOR

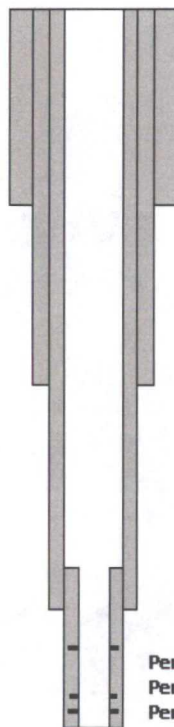
Oxy Pogo State #1
Sec. 36 T22S R27E
1980 FSL 990 FEL
30-015-34549

13 3/8" csg @ 438'
w/ 700sx, circ

9 5/8" csg @ 2528'
w/ 760 sx, circ

7" csg @ 9509'
w/ 1280sx, Circ

4 1/2" Liner @ 8910-12,540'
w/ 300sx, TOC 9314'



Perfs @ 11,146-11,234'
Perfs @ 11,946-12,080'
Perfs @ 12,101-12,282'

TD- 12,540'
PBD- 12,383'

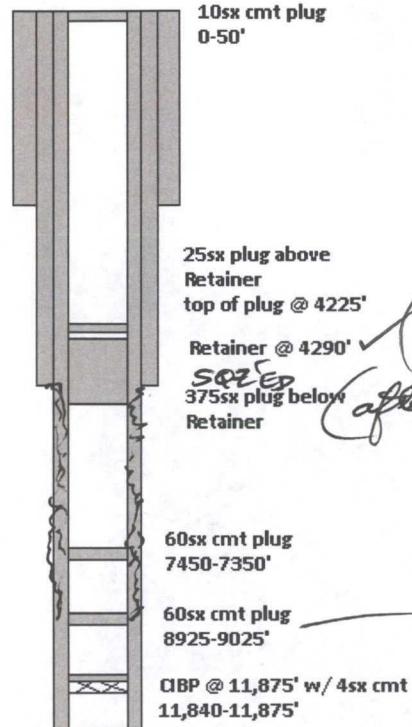
NOT in AOR

Walterschied Com #1
Sec. 32 T22S R27E
2240' FNL 1830' FEL
30-015-21102

12 3/4" csg @ 363'
w/ 240sx, circ

9 5/8" csg @ 4576'
w/ 1050 sx, circ

4 1/2" csg @ 12,450'
w/ 675 sx, circ



10sx cmt plug
0-50'

25sx plug above
Retainer
top of plug @ 4225'

Retainer @ 4290'
SQUEE
375sx plug below
Retainer

60sx cmt plug
7450-7350'

60sx cmt plug
8925-9025'

CIBP @ 11,875' w/ 4sx cmt
11,840-11,875'

(9 5/8" Retain)
(after Gas Bubble During PEA)

Pulled 4 1/2" Casing From 9025'

TD-12,460'
PBTD- 12,400'

~~CORRECTED REPORT~~

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

NEW MEXICO OIL CONSERVATION COMMISSION

NO. OF COPIES RECEIVED	3
DISTRIBUTION	
SANTA FE	1
FILE	1
U.S.G.S.	
LAND OFFICE	
OPERATOR	

RECEIVED

OCT 17 1974

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

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 checked="" type="checkbox"/> OTHER- <input type="checkbox"/>		ARTESIA, OFFICE	7. Unit Agreement Name
2. Name of Operator Apexco, Inc.			8. Farm or Lease Name Walterschied Com.
3. Address of Operator 1121 First Place, Tulsa, Oklahoma 74103			9. Well No. 1
4. Location of Well UNIT LETTER <u>G</u> <u>2240</u> FEET FROM THE <u>North</u> LINE AND <u>1830</u> FEET FROM <u>East</u> LINE, SECTION <u>35</u> TOWNSHIP <u>22S</u> RANGE <u>27E</u> NMPM.		10. Field and Pool, or Wildcat	
15. Elevation (Show whether DF, RT, GR, etc.) 3082.6 GR		12. County Eddy	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☒
OTHER ☐

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.

June 1974

6-4 415' Drlg. shale, anhydrite, drlg. w/brine water.
6-6 1197' Drlg. anhydrite, salt stringer, w/brine water.
6-9 1842' Drlg. salt anhydrite, w/brine water.
6-14 2840' Drlg. sand and limestone, w/brine water.
6-19 4576' Limestone and shale, logging, 10.2#/gal brine. Set 1441.75' 9-5/8" 40# K-55 & 3230.6' of 9-5/8" 36# K-55 New Casing w/800 sacks light neat and 250 sacks Class "C" neat. Plug down 10:40 pm WOC 24 hrs. Replaced hydril. Tested casing 2000# for 30 min. Held OK, Top of cement 1290', (by temp. survey).

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

SIGNED Lyle R. Somers

TITLE Central Division Prod.Mgr DATE 10-12-74

APPROVED BY W.A. Gussitt

TITLE OIL AND GAS INSPECTOR

DATE OCT 23 1974

CONDITIONS OF APPROVAL, IF ANY:

COPIES RECEIVED	3
CONTRIBUTION	
INT. FE	1
FILE	1
U.S.G.S.	
LAND OFFICE	
OPERATOR	1

RECEIVED
NEW MEXICO OIL CONSERVATION COMMISSION

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

JUL 14 1976

O. C. C.
ARTESIA, OFFICE

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

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 checked="" type="checkbox"/> OTHER <input type="checkbox"/>
2. Name of Operator Cities Service Oil Company
3. Address of Operator Box 1919 Midland, Texas 79701
4. Location of Well UNIT LETTER <u>G</u> <u>2240</u> FEET FROM THE <u>North</u> LINE AND <u>1830</u> FEET FROM THE <u>East</u> LINE, SECTION <u>35</u> TOWNSHIP <u>22S</u> RANGE <u>27E</u> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) 3083' GR

16. 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"/>	PLUG AND ABANDONMENT <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <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.
T.D. 12,460' Shale. PBTD 12,400'. This well was plugged & abandoned in the following manner:

1. MIRU csg puller, load tbg w/wtr, unseat pkr & pulled tbg & pkr..
2. Set CIBP @ 11,875' & dump 4 sacks of cement on top of CIBP @ approx. 11,875' - 11,840' to plug off the Morrow perfs. 11,958' - 11,968'.
3. Shot 4-1/2" csg off @ 9025' & pulled 214 Jts. (9057.48') 4-1/2" 11.6# & 13.5# N-80 csg..
4. Circulate hole with laden fluid.
5. Spotted 60 sack cement plug 9025' - 8925' @ casing stub.
6. Spotted 60 sack cement plug @ 7450' - 7350' (Bone Springs).
7. Spotted 60 sack cement plug @ 4625' - 4525', 1/2 in & 1/2 out of 9-5/8" csg stub.
8. Spotted 10 sack cement plug @ 58' - 0'. Detected gas leaking.
9. Welded 9-5/8" lift nipple to csg & installed BOP.
10. RIH w/8-3/4" bit on 4-3/4" DC's & 154 Jts. 2-3/8" EUE tbg.
11. Drilled out cement plugs from 4525' - 4625' & 58' - 0'.
12. Set 9-5/8" SV EZ drill retainer on WL & set @ 4290'.
13. Ran & set 2-3/8" EUE tbg drill retainer @ 4290'.
14. Pump 400 sx Class C cement in hole w/2% CaCl in 1st 100 sx. (275 sx in open hole, 100 sx in 9-5/8" below retainer & 25 sx in 9-5/8" above retainer.) Top of plug @ 4225'.
15. Pressure tested below RTTS to 1500# for 15 mins. - OK.
Pressure tested annulus above RTTS to 1500# for mins. - OK.

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

SIGNED E. Spindler TITLE Region Oper. Mgr. DATE July 12, 1976

APPROVED BY [Signature] TITLE OIL AND GAS INSPECTOR DATE DEC 27 1976

CONDITIONS OF APPROVAL, IF ANY:

Carlsbad Fee #1
Sec. 35 T22S R27E
990 F&L 990 FEL
30-015-41627

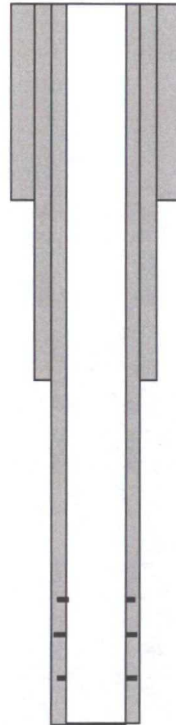
13 3/8" csg @ 418'
w/ 470sx, circ

8 5/8" csg @ 2035'
w/ 1125sx cmt, circ

5 1/2" csg @ 9347'
w/ 1350sx, circ

Perfs @ 7489-7624
Perfs @ 8221-8654
Perfs @ 8951-9232

TD- 9347'
PBTD- 9286'



District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	Form C-103 August 1, 2011 Permit 178788 WELL API NUMBER 30-015-41627 5. Indicate Type of Lease P 6. State Oil & Gas Lease No. 7. Lease Name or Unit Agreement Name CARLSBAD FEE 8. Well Number .001 9. OGRID Number 13837 10. Pool name or Wildcat
--	---	--

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: O	8. Well Number .001
2. Name of Operator MACK ENERGY CORP	9. OGRID Number 13837
3. Address of Operator PO Box 960, 11344 Lovington Hwy, Artesia, NM 88211	10. Pool name or Wildcat

4. Well Location
 Unit Letter P : 990 feet from the S line and feet 990 from the E line
 Section 35 Township 22S Range 27E NMPM County Eddy

11. Elevation (Show whether DR, KB, BT, GR, etc.)
 3085 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: _____ mil Below-Grade Tank Volume _____ bbls; Construction Material _____

12. 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 OF PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> Other: _____	SUBSEQUENT REPORT OF: <input type="checkbox"/> ALTER CASING <input type="checkbox"/> <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> <input type="checkbox"/> REMEDIAL WORK <input type="checkbox"/> <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING/CEMENT JOB Other: Drilling/Cement <input checked="" 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.
 12/7/2013 Spud 17 1/2" @ 10pm. 12/8/2013 TD 17 1/2" @ 418'. RIH 9js 13 3/8", 48#, H-40 ST&C @ 418'. Cmt w/ 470sx Class C, pd @ 5:45am, circ 167sx. WOC 18 hrs 1st csg to 1800# for 30 mins. 12/10/2013 TD 12 1/4" @ 2035'. RIH 54js 8 5/8", 32#, J-55, ST&C @ 2035'. Cmt w/ 925sx 35/65 POZ, Tail 200sx Class C, pd @ 8am, circ 537sx. WOC 12hrs 1st csg to 600# for 30 mins. 12/16/2013 TD 7 7/8" @ 9347'. 12/18/2013 RIH w/ 240js 5 1/2", 17#, L-80, LT&C @ 9347'. Cmt w/ 650sx 35/65, Tail 700sx PVL, pd @ 7:45pm. WOC 12 hrs tested to 600# for 20 mins. Released rig @ 6am 12/17/2013 Spudded well.

Date	String	Fluid Type	Hole Size	Csg Size	Weight lb/ft	Grade	Est TOC	Dpth Set	Sacks	Yield	Class	1" Dpth	Pres Held	Pres Drop	Open Hole
12/11/13	Int1	CutBrine	12.25	8.625	32	J55	0	2035	1125		C		600		N
12/08/13	Surf	FreshWater	17.5	13.375	48	H40	0	418	470		C		1800		N
12/18/13	Prod	CutBrine	7.875	5.5	17	L-80	0	9347	1350		H		600		N

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 _____	TITLE _____	DATE _____
Type or print name _____	E-mail address _____	Telephone No. _____

For State Use Only:

APPROVED BY: <u>Randy Dade</u>	TITLE <u>District Supervisor</u>	DATE <u>12/19/2013 2:31:41 PM</u>
--------------------------------	----------------------------------	-----------------------------------

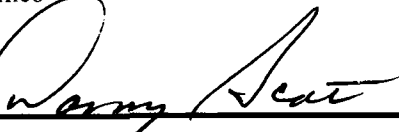
Affidavit of Publication

No. 23067

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn, says that he is the

Publisher

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same day as follows:

First Publication June 29, 2014

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

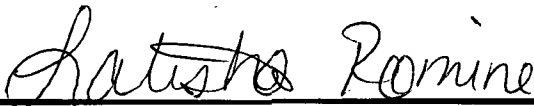
Subscribed and sworn before me this

30th day of June 2014



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

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 Karst SWD #1 1150 FSL & 675 FEL of Section 35, T22S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon and Cherry Canyon formations at a disposal depth of 2280-4199'. Water will be injected at a maximum surface pressure of 456# pounds and a maximum injection rate of 4000 BWPD. Any interested party with questions or comments may contact Deana Weaver 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.

Published in the Artesia Daily Press, Artesia, N.M., June 29 2014 Legal No. 23067.

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 Karst SWD #1 1150 FSL & 675 FEL of Section 35, T22S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon and Cherry Canyon formations at a disposal depth of 2280-4199'. Water will be injected at a maximum surface pressure of 456# pounds and a maximum injection rate of 4000 BWPD. Any interested party with questions or comments may contact Deana Weaver 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.



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

August 21, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 4128
RETURN RECEIPT REQUESTED

Margaret H. Klinikowski
Walter Klinikowski
2824 Devil's Tower
El Paso, TX 79904

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy 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 at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DW

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0535
RETURN RECEIPT REQUESTED

Arroyo Resources, LTD.
400 West Illinois, Ste. 1070
Midland, TX 79701

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0559
RETURN RECEIPT REQUESTED

Margaret Hitson Harris
15618 Creekhaven Dr.
Houston, TX 77084-3608

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DW

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Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0566
RETURN RECEIPT REQUESTED

Catherine Hitson Griffin
153 Loblolly Ln.
Bastrop, TX 78602-9514

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

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Office (575) 748-1288
Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0573
RETURN RECEIPT REQUESTED

Miriam Denise Ponder
225 E. Sesame St.
Uncertain, TX 75661

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0580
RETURN RECEIPT REQUESTED

Deborah Dykes Kelly
24 Tumbledown Ln.
Aspen, CO 81611-1087

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

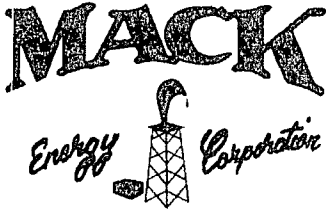
MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0597
RETURN RECEIPT REQUESTED

Martin James Dykes
509 Turtle Creek Dr.
Shreveport, LA 71115-2509

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0603
RETURN RECEIPT REQUESTED

Christopher Edward Dykes
P.O. Box 41316
Austin, TX 78704-0022

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0610
RETURN RECEIPT REQUESTED

Lovella O'Conner Fuller
7662 Maple Rd.
Baldwinsville, NY 13027

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

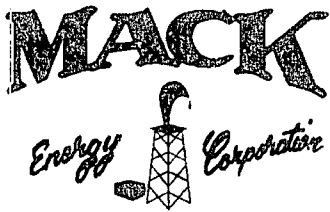
MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



P.O. Box 960
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Office (575) 748-1288
Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0627
RETURN RECEIPT REQUESTED

Estate of Ronald O'Conner
202 E. Orchard Ln.
Carlsbad, NM 88220

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0634
RETURN RECEIPT REQUESTED

Michael W. O'Conner
PO Box 411
Marfa, TX 79843

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWA

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0641
RETURN RECEIPT REQUESTED

BNSF Railway Company
2500 Lou Menk Drive AOB-3
Fort Worth, TX 76131

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana weaver

Deana Weaver
Production Clerk

DWA

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0658
RETURN RECEIPT REQUESTED

MRC Permian Company
5400 LBJ Freeway, Ste. 1500
Dallas, TX 75240

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0665
RETURN RECEIPT REQUESTED

Josephine Armendariz
4227 Derrick Rd.
Carlsbad, NM 88220

Gentlemen:

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWA

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0672
RETURN RECEIPT REQUESTED

Estate of Belen Hernandez
1905 Howard Rd.
Carlsbad, NM 88220

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0689
RETURN RECEIPT REQUESTED

Estate of Irene Ruiz
PO Box 583
Loving, NM 88256

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy 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 at 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0696
RETURN RECEIPT REQUESTED

Ernest Rodriguez
511 S. Alameda
Carlsbad, NM 88220

Gentlemen:

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DW

Attachments



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Office (575) 748-1288
Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0702
RETURN RECEIPT REQUESTED

Eduardo Rodriguez
PO Box 744
Hobbs, NM 88241

Gentlemen:

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Sincerely,

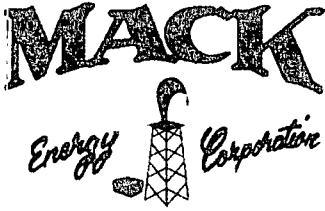
MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

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August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0719
RETURN RECEIPT REQUESTED

Otilia Bonilla
2812 SW 28th Ave. Apt. 118
Amarillo, TX 79109-1739

Gentlemen:

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

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Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0726
RETURN RECEIPT REQUESTED

Mary Helen Ruiz
4414 S. Travis
Amarillo, TX 79109

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0733
RETURN RECEIPT REQUESTED

Ide Losoya
702 Jason St
Carlsbad, NM 88220

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DWA

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0740
RETURN RECEIPT REQUESTED

Robert Rodriguez Jr.
NM State Prison
Santa Fe, NM 87508

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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Office (575) 748-1288
Fax (575) 746-9539

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0757
RETURN RECEIPT REQUESTED

Priscilla Rodriguez
1718 Silver Knoll Ave
Las Vegas, NV 89123-3841

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver

Deana Weaver
Production Clerk

DW

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0764
RETURN RECEIPT REQUESTED

James F. Carr
Route 2
Box 157
Terrell, TX 75160

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DWM

Attachments



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

August 21, 2014

VIA CERTIFIED MAIL 7014 1200 0001 9123 0788
RETURN RECEIPT REQUESTED

Laura Mijangos-Rapp Revocable Trust
2355 Oakland Bend
San Antonio, TX 78258

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2280-4199'. The Karst SWD #1 located 1150 FSL & 675 FEL, Sec. 35 T22S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DWM

Attachments



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

Water Analysis Report

Customer: Mack Energy Corporation (Karst SWD #1) Sample #: 23391
Area: Artesia Analysis ID #: 22231
Lease: Waltersheid
Location: FW #1 (Hepler and Hwy 285, N. side of road)
Sample Point: Wellhead (cox well)

Handwritten note:
Krook
Water Sample

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	9/24/2014	Chloride:	3467.1	Sodium:	1323.0
Analysis Date:	9/30/2014	Bicarbonate:	197.6	Magnesium:	406.1
Analyst:	Catalyst	Carbonate:		Calcium:	783.8
TDS (mg/l or g/m3):	7583	Sulfate:	1400.0	Potassium:	0.0
Density (g/cm3):	1.007	Borate*:	0.0	Strontium:	5.4
		*Calculated based on measured elemental boron.		Barium:	0.0
Hydrogen Sulfide:	0			Iron:	0.0
Carbon Dioxide:	0			Manganese:	0.000
		pH at time of sampling:			
		pH at time of analysis:			
		pH used in Calculation:			
		Temperature @ lab conditions (F):			
				Conductivity (micro-ohms/cm):	10750
				Resistivity (ohm meter):	.9302

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

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.20	5.22	-0.22	0.00	-0.28	0.00	-0.66	0.00	0.00	0.00
100	0.32	8.70	-0.22	0.00	-0.23	0.00	-0.65	0.00	0.00	0.00
120	0.44	12.52	-0.22	0.00	-0.14	0.00	-0.63	0.00	0.00	0.00
140	0.58	16.70	-0.21	0.00	-0.04	0.00	-0.60	0.00	0.00	0.00
160	0.72	20.87	-0.18	0.00	0.09	94.97	-0.56	0.00	0.00	0.00
180	0.86	25.05	-0.16	0.00	0.23	218.81	-0.52	0.00	0.00	0.00
200	1.01	29.22	-0.12	0.00	0.38	325.60	-0.47	0.00	0.00	0.00
220	1.16	33.05	-0.09	0.00	0.54	413.96	-0.42	0.00	0.00	0.00



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

Water Analysis Report

Customer: Mack Energy Corporation (Karst SWD #1)
Area: Artesia
Lease: Waltersheid
Location: FW #2 (Hwy 285 and Grandi, East side of road)
Sample Point: Wellhead

Sample #: 23389
Analysis ID #: 22228

FW #2 Water Sample

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	9/24/2014	Chloride:	2913.2	Sodium:	1008.0
Analysis Date:	9/30/2014	Bicarbonate:	219.6	Magnesium:	328.9
Analyst:	Catalyst	Carbonate:		Calcium:	713.7
TDS (mg/l or g/m3):	6186.8	Sulfate:	1000.0	Potassium:	1.4
Density (g/cm3):	1.006	Borate*:	0.0	Strontium:	2.0
		*Calculated based on measured elemental boron.		Barium:	0.0
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):	8700
				Resistivity (ohm meter):	1.1494

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

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F										
80	0.25	7.66	-0.34	0.00	-0.41	0.00	-1.17	0.00	0.00	0.00
100	0.37	11.50	-0.34	0.00	-0.35	0.00	-1.16	0.00	0.00	0.00
120	0.50	16.02	-0.34	0.00	-0.26	0.00	-1.14	0.00	0.00	0.00
140	0.64	20.55	-0.32	0.00	-0.16	0.00	-1.10	0.00	0.00	0.00
160	0.78	25.08	-0.30	0.00	-0.03	0.00	-1.06	0.00	0.00	0.00
180	0.92	29.61	-0.27	0.00	0.11	89.53	-1.02	0.00	0.00	0.00
200	1.07	34.14	-0.24	0.00	0.26	188.46	-0.97	0.00	0.00	0.00
220	1.22	38.32	-0.21	0.00	0.43	268.93	-0.92	0.00	0.00	0.00



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

Water Analysis Report

Customer: Mack Energy Corporation (Karst SWD #1)
Area: Artesia
Lease: Skeen
Location: FW #2 (Southwind and Grandi) 0
Sample Point: Wellhead

Sample #: 23390
Analysis ID #: 22230

*Fresh water
Sample*

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	9/24/2014	Chloride:	2873.6	Sodium:	1043.0
Analysis Date:	9/30/2014	Bicarbonate:	263.5	Magnesium:	292.2
Analyst:	Catalyst	Carbonate:		Calcium:	694.0
TDS (mg/l or g/m3):	6069.8	Sulfate:	900.0	Potassium:	0.0
Density (g/cm3):	1.006	Borate*:	0.0	Strontium:	3.5
Hydrogen Sulfide: 0 Carbon Dioxide: 0		*Calculated based on measured elemental boron.		Barium:	0.0
				Iron:	0.0
				Manganese:	0.000
Comments:		pH at time of sampling:	7	Conductivity (micro-ohms/cm): 8850 Resistivity (ohm meter): 1.1299	
		pH at time of analysis:			
		pH used in Calculation:	7		
		Temperature @ lab conditions (F):	75		

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

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.33	12.19	-0.38	0.00	-0.45	0.00	-0.96	0.00	0.00	0.00
100	0.45	16.72	-0.39	0.00	-0.39	0.00	-0.95	0.00	0.00	0.00
120	0.58	21.95	-0.38	0.00	-0.30	0.00	-0.92	0.00	0.00	0.00
140	0.71	27.52	-0.37	0.00	-0.20	0.00	-0.89	0.00	0.00	0.00
160	0.85	32.75	-0.35	0.00	-0.07	0.00	-0.85	0.00	0.00	0.00
180	1.00	38.32	-0.32	0.00	0.07	51.21	-0.80	0.00	0.00	0.00
200	1.15	43.20	-0.29	0.00	0.22	148.42	-0.75	0.00	0.00	0.00
220	1.30	48.08	-0.25	0.00	0.38	227.50	-0.70	0.00	0.00	0.00



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

Water Analysis Report

Customer: Mack Energy Corporation (Karst SWD #1) Sample #: 23392
Area: Artesia Analysis ID #: 22233
Lease: Skeen
Location: FW #1 (Derrick Rd and Hwy 285, 1/2 mile west)
Sample Point: Wellhead

Frederick Sample

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	9/24/2014	Chloride:	3185.4	Sodium:	1112.0
Analysis Date:	9/30/2014	Bicarbonate:	219.6	Magnesium:	370.1
Analyst:	Catalyst	Carbonate:		Calcium:	750.1
TDS (mg/l or g/m3):	6742	Sulfate:	1100.0	Potassium:	1.2
Density (g/cm3):	1.007	Borate*:	0.0	Strontium:	3.6
		*Calculated based on measured elemental boron.		Barium:	0.0
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):	9420
				Resistivity (ohm meter):	1.0616

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

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F										
80	0.26	7.66	-0.30	0.00	-0.37	0.00	-0.90	0.00	0.00	0.00
100	0.38	11.49	-0.31	0.00	-0.31	0.00	-0.89	0.00	0.00	0.00
120	0.50	16.02	-0.30	0.00	-0.23	0.00	-0.87	0.00	0.00	0.00
140	0.64	20.54	-0.29	0.00	-0.12	0.00	-0.84	0.00	0.00	0.00
160	0.78	25.07	-0.27	0.00	0.00	3.48	-0.80	0.00	0.00	0.00
180	0.92	29.59	-0.24	0.00	0.14	122.55	-0.75	0.00	0.00	0.00
200	1.07	34.12	-0.21	0.00	0.30	224.22	-0.70	0.00	0.00	0.00
220	1.22	38.30	-0.17	0.00	0.46	307.08	-0.65	0.00	0.00	0.00

Karst SWD

Section 35-T22S-R27E

E2NE4, SW4NE4

- COC & Kids
- Margaret H Klinikowski & Walter Klinikowski: 2824 Devil's Tower, El Paso, TX 79904
- Arroyo Resources, Ltd: 400 West Illinois, Ste. 1070, Midland, TX 79701

SE4NW4

- COC & Kids

NE4SE4

- COC & Kids
- Margaret Hitson Harriss: 15618 Creekhaven Dr., Houston, TX 77084-3608
- Catherine Hitson Griffin: 153 Loblolly Ln., Bastrop, TX 78602-9514
- Miriam Denise Ponder (Denise): 225 E Sesame St, Uncertain, TX 75661
- Deborah Dykes Kelly: 24 Tumbledown Ln., Aspen, CO 81611-1087
- Martin James Dykes: 509 Turtle Creek Dr., Shreveport, LA 71115-2509
- Christopher Edward Dykes: PO Box 41316, Austin, TX 78704-0022

NW4SE4

- COC & Kids

S2SE4

- COC & Kids

SW4

- COC & Kids
- Lovella O'Connor Fuller: 7662 Maple Rd., Baldwinsville, NY 13027
- Estate of Ronald O'Connor: 202 E Orchard Ln., Carlsbad, NM 88220
- Michael W. O'Connor: PO Box 411, Marfa, TX 79843
- BNSF Railway Company: 2500 Lou Menk Drive AOB-3, Fort Worth, TX 76131

✓

Section 36-T22S-R27E

- MRC Permian Company: 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240

Section 1-T23S-R27E

N2NW4

- MRC Permian Company: 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240
- Josephine Armendariz: 4227 Derrick Rd., Carlsbad, NM 88220
- Estate of Belen Hernandez: 1905 Howard Rd., Carlsbad, NM 88220
- Estate of Irene Ruiz: PO Box 583, Loving, NM 88256
- Ernest Rodriguez: 511 S Alameda, Carlsbad, NM 88220
- Eduardo Rodriguez: PO Box 744, Hobbs, NM 88241
- • Raymond Rodriguez: Address not found
- Otilia Bonilla: 2812 SW 28th Ave, Apt. 118, Amarillo, TX 79109-1739
- Mary Helen Ruiz: 4414 S Travis, Amarillo, TX 79109
- Ide Losoya: 702 Jason St., Carlsbad, NM 88220
- • Carla Losoya: Address not found
- Robert Rodriguez, Jr.: NM State Prison, Santa Fe, NM 87508
- Priscilla Rodriguez: 1718 Silver Knoll Ave.; Las Vegas, NV 89123-3841

Section 2-T23S-R27E

NE4, E2NW4

- MRC Permian Company: 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240
- James F. Carr: Route 2, Box 157, Terrell, TX 75160
- Laura Mijangos-Rapp Revocable Trust: 2355 Oakland Bend, San Antonio, TX 78258

Jones, William V, EMNRD

From: Jones, William V, EMNRD
Sent: Wednesday, March 11, 2015 4:42 PM
To: 'dweaver@mec.com'
Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Dade, Randy, EMNRD
Subject: Mack Energy Corporation: proposed Karst SWD Well No. 1 30-015-42528 Bell/Cherry Canyon formations in the Delaware Basin Disposal perms proposed at 2280 to 4199 feet

Hello Deana,

We received this application last year and, I regret to say, am just now looking at it.

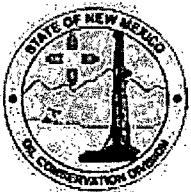
Do you (or anyone else) have any other correspondence or protests or anything else I should know about?

I had a few, hopefully easy questions,

- a. Would you pull the application and look at the water analysis – please write down on each which formation it applies to or, if it is for Fresh Water, let me know where the sample well is located.
- b. Please ask Charles or your log analyst to give a short paragraph about the lack of productivity of this upper Delaware interval, what the logs show, how far away it produces, etc.
- c. And ask Charles about the caprock above it – is it the Castille? Is it competent to prevent upwards movement of waste water?
- d. Will this well be used for on lease disposal, only disposal of Mack Energy nearby wells, or will it be a commercial site?
- e. There was one affected party that you mentioned but did not include a certified receipt mailer for: COC & Kids who is this? Did you notify them?

Thanks in Advance,

Will



William V. Jones, P.E., District IV Supervisor
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995

Jones, William V, EMNRD

From: Deana Weaver <dweaver@mec.com>
Sent: Thursday, March 12, 2015 4:19 PM
To: Jones, William V, EMNRD
Cc: Jerry Sherrell
Subject: RE: Mack Energy Corporation: proposed Karst SWD Well No. 1 30-015-42528 Bell/Cherry Canyon formations in the Delaware Basin Disposal perms proposed at 2280 to 4199 feet

Will – Our geologist Charles Sandler wants to add some additional information. Please see below. Thanks Deana

Following is additional information in regards to question (b.).

There is a small Bell Canyon field located approximately 2 miles to the east of the proposed Karst SWD #1 and another located approximately 3.75 miles to the northeast. Both of these fields have a N-S alignment controlled by deposition, which is typical of Delaware Sand fields in this area. Well control defines the limits of the reservoir.

From: Jones, William V, EMNRD [<mailto:WilliamV.Jones@state.nm.us>]
Sent: Thursday, March 12, 2015 2:16 PM
To: Deana Weaver
Cc: Jerry Sherrell
Subject: RE: Mack Energy Corporation: proposed Karst SWD Well No. 1 30-015-42528 Bell/Cherry Canyon formations in the Delaware Basin Disposal perms proposed at 2280 to 4199 feet

Thanks for this!
I'll get it drafted for David's signature.

From: Deana Weaver [<mailto:dweaver@mec.com>]
Sent: Thursday, March 12, 2015 2:09 PM
To: Jones, William V, EMNRD
Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Dade, Randy, EMNRD; Jerry Sherrell
Subject: RE: Mack Energy Corporation: proposed Karst SWD Well No. 1 30-015-42528 Bell/Cherry Canyon formations in the Delaware Basin Disposal perms proposed at 2280 to 4199 feet

Will- please see below. If you have any more questions, let me know.

A. See Attached – All Fresh Water

B. The nearest Delaware Sand completion to the proposed Karst SWD #1 is approximately 3.25 miles to the southwest in Section 15, T23S, R27E. The Forehand #2 has produced 37 MBO and 1.7 MMCFG since 1976 with the majority of the production at less than 5 BOPD. There have been 168 wells drilled within 4 miles of the Karst SWD #1 with only 4 completions in the Cherry Canyon and no completions in the Bell Canyon.

Upper Delaware Sand reservoirs in this area are very small and limited where they occur. Trapping mechanisms were poor in this area for the Upper Delaware Sands. Mack Energy has drilled 19 Bone Spring/Wolfcamp tests within 4 miles of the Karst SWD #1 since 2013 without any drilling shows in the upper Delaware Sand.

Log analysis, in the upper Delaware Sand, indicates high water saturations in the sands as is typical with non-commercial production.

- C. The Delaware Sand at the Karst SWD #1 is overlain by 50' of very low porosity and permeability Lamar Limestone and then by the Castile Formation. The Lamar and Castile are competent to prevent upward movement of disposed water.
- D. For on lease disposal, only disposal of Mack Energy nearby wells
- E. COC & Kids is Chase Oil Corporation and the Chase Family. They were notified in the office.

Thank you

Deana Weaver
Mack Energy Corporation
575-748-1288

From: Jones, William V, EMNRD [<mailto:WilliamV.Jones@state.nm.us>]
Sent: Wednesday, March 11, 2015 4:42 PM
To: Deana Weaver
Cc: Sanchez, Daniel J., EMNRD; Goetze, Phillip, EMNRD; Dade, Randy, EMNRD
Subject: Mack Energy Corporation: proposed Karst SWD Well No. 1 30-015-42528 Bell/Cherry Canyon formations in the Delaware Basin Disposal perms proposed at 2280 to 4199 feet

Hello Deana,

We received this application last year and, I regret to say, am just now looking at it.

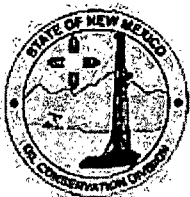
Do you (or anyone else) have any other correspondence or protests or anything else I should know about?

I had a few, hopefully easy questions,

- a. Would you pull the application and look at the water analysis – please write down on each which formation it applies to or, if it is for Fresh Water, let me know where the sample well is located.
- b. Please ask Charles or your log analyst to give a short paragraph about the lack of productivity of this upper Delaware interval, what the logs show, how far away it produces, etc.
- c. And ask Charles about the caprock above it – is it the Castille? Is it competent to prevent upwards movement of waste water?
- d. Will this well be used for on lease disposal, only disposal of Mack Energy nearby wells, or will it be a commercial site?
- e. There was one affected party that you mentioned but did not include a certified receipt mailer for: COC & Kids who is this? Did you notify them?

Thanks in Advance,

Will



William V. Jones, P.E., District IV Supervisor
Oil Conservation Division <http://www.emnrd.state.nm.us/ocd/>
1220 South St. Francis Drive, Santa Fe, NM 87505
P: 505.476.3477 C: 505.419.1995



C-108 Review Checklist: Received 8/25/14 Add. Request: 3/11/15 Reply Date: 3/12/15 Suspended: _____ [Ver 14]

PERMIT TYPE: WFX / PMX / SWD Number: 1539 Permit Date: _____ Legacy Permits/Orders: _____

Well No. #1 Well Name(s): Karst SWD

API: 30-0 15-42528 Spud Date: Not Yet (New or Old: _____) (UIC Class II Primacy 03/07/1982)

Footages 1150 FSL/675 FEL Lot _____ or Unit P Sec 35 Tsp 22S Rge 27E County EDDY

General Location: ≈ 6 mi SE of Carlsbad Pool: _____ Pool No.: _____

BLM 100K Map: _____ Operator: Maack Energy Corp OGRID: 13837 Contact: Deana Weaver

COMPLIANCE RULE 5.9: Total Wells: 418 Inactive: 1 Fincl Assur: ☒ Compl. Order? _____ IS 5.9 OK? ☒ Date: 3/11/15

WELL FILE REVIEWED ☒ Current Status: Permitted APD but NOT Drilled

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: _____

Planned Rehab Work to Well: Drill/Perf/ing

Well Construction Details		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	Sx or Cf	Determination Method
Planned <input checked="" type="checkbox"/> or Existing <input checked="" type="checkbox"/>	Surface	<u>12 1/4 - 8 5/8</u>	<u>1150'</u>	<u>610 SX</u>	<u>CIRC</u>
Planned <input checked="" type="checkbox"/> or Existing <input checked="" type="checkbox"/>	Interm/Prod	<u>7 7/8 - 5 1/2</u>	<u>4350'</u>	<u>690 SX</u>	<u>CIRC</u>
Planned _____ or Existing _____	Interm/Prod				
Planned _____ or Existing _____	Prod/Liner				
Planned _____ or Existing _____	Liner				
Planned _____ or Existing _____	OH / PERF				

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:	<u>2280</u>	<u>Bell C.</u>	<input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:	<u>4199</u>	<u>Cherry C.</u>	
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD _____ PBDT _____
NEW TD 4350' NEW PBDT _____
NEW Open Hole ☐ or NEW Perfs ☒
Tubing Size 2 7/8 in. Inter Coated? ☒
Proposed Packer Depth 2230 ft
Min. Packer Depth _____ (100-ft limit)
Proposed Max. Surface Press. 456 psi
Admin. Inj. Press. 456 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: ~~H-111P~~ ☒ Noticed? _____ BLM Sec Ord ~~WIPP~~ ☒ Noticed? _____ SALT/SALADO T: B1940 CULT HOUSE

FRESH WATER: Aquifer _____ Max Depth _____ HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: _____ CAPITAN REEF: thru ☐ adj ☐ NAD ☒ No. Wells within 1-Mile Radius? _____ FW Analysis ☒

Disposal Fluid: Formation Source(s) _____ Analysis? EXPLAIN On Lease ☐ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): 2000/4000 Protectable Waters? _____ Source: _____ System: Closed ☒ or Open ☐

HC Potential: Producing Interval? _____ Formerly Producing? _____ Method: Logs/DST/P&A/Other _____ 2-Mile Radius Pool Map ☒

AOR Wells: 1/2-M Radius Map? ☒ Well List? ☒ Total No. Wells Penetrating Interval: 2 Horizontals? 0

Penetrating Wells: No. Active Wells 1 Num Repairs? 0 on which well(s)? _____ Diagrams? _____

Penetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? _____ Diagrams? ☒

NOTICE: Newspaper Date 6/29/14 Mineral Owner _____ Surface Owner COC & KIDS N. Date _____

RULE 26.7(A): Identified Tracts? _____ Affected Persons: See APP (COC & KIDS) N. Date 8/21/14

Permit Conditions: Issues: _____

Add Permit Cond: _____