

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]

-SWD
-Mack Energy
13837

[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

well
-CANALSWD#1
30-015-21064
Formerly MAB
MAB de Beckman
Curtis
Pool
-SWD release
6/6/12

[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

311.14
Date

Deana Weaver
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: Mack Energy Corporation
ADDRESS: P.O. Box 960 Artesia, NM 88211-0960
CONTACT PARTY: 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: 3.11.14

* **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: **Canal SWD #1**WELL LOCATION: **2175 FSL & 838 FWL**

FOOTAGE LOCATION

L

UNIT LETTER

3

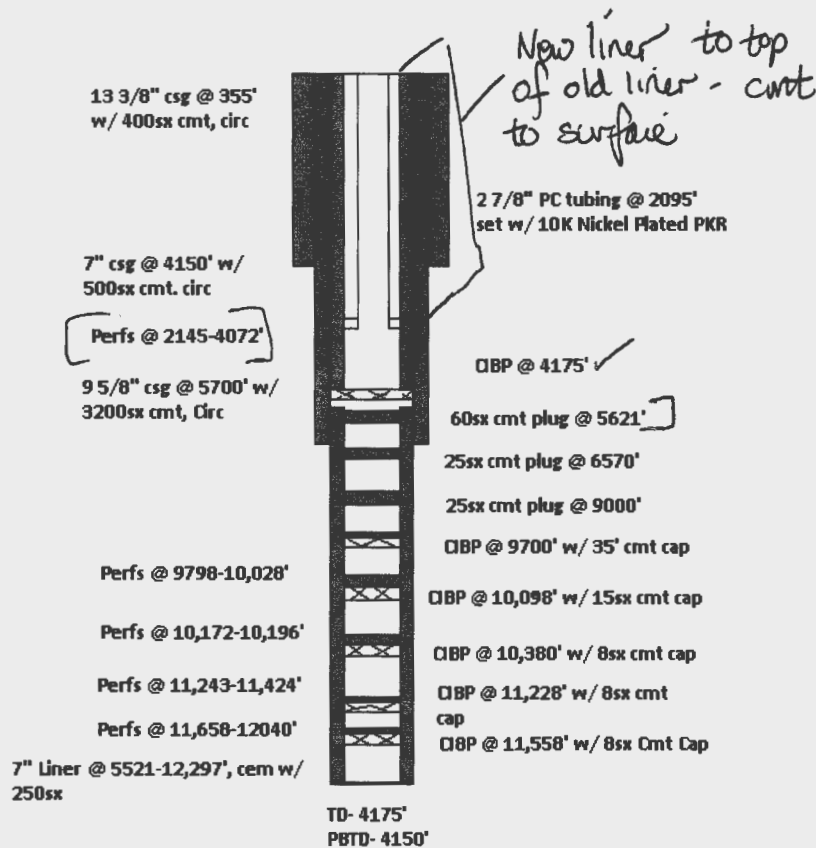
SECTION

23S

TOWNSHIP

27E

RANGE

WELLBORE SCHEMATIC**WELL CONSTRUCTION DATA**Surface CasingHole Size: 17 1/2 Casing Size: 13 3/8", H-40 (Existing)Cemented with: 400sx SX. or _____ ftTop of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: 12 1/4 Casing Size: 9 5/8", S-95 (Existing)Cemented with: 3200sx SX. or _____ ftTop of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 8 3/4 Casing Size: 7", L-80 (New)Cemented with: 500sx SX. or _____ ftTop of Cement: 0 Method Determined: CirculatedTotal Depth: 4175'Injection Interval2145 feet to 4072

(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: 2095'

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? Oil Well2. Name of the Injection Formation: Bell Canyon and Cherry Canyon

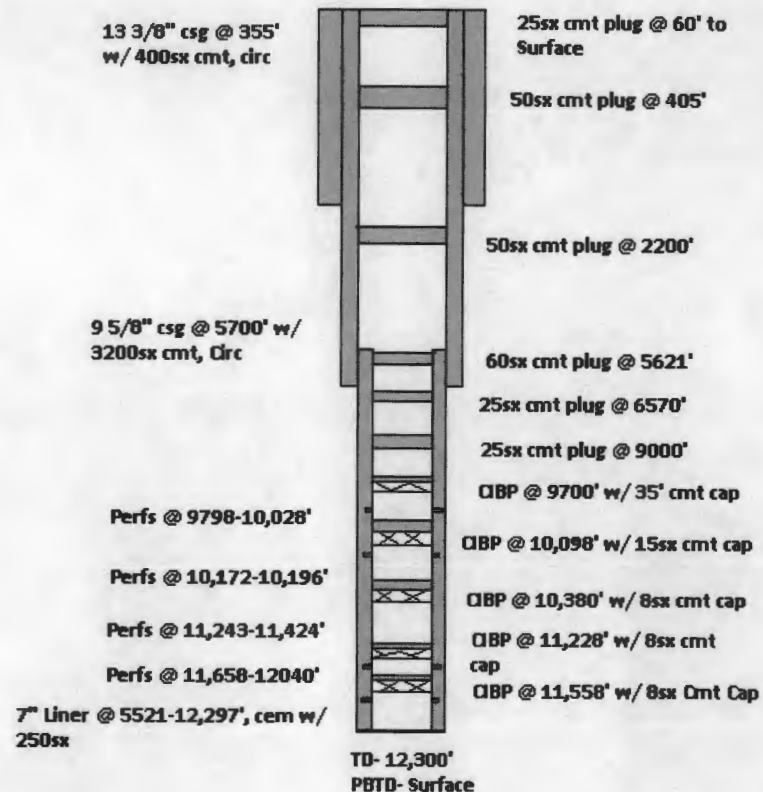
3. Name of Field or Pool (if applicable): _____

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. 60sx Cmt Plug @ 5621' 25sx Cmt Plug @ 6570' & 9000',

Perfs 9798-10,028' CIBP @ 9700' w/ 35' cmt, CIBP @ 10,100' & 10,380' w/ 50' cmt, Perfs 11,243-11,424' CIBP @ 11,228' w/ 50' cmt, Perfs 11,658-12,040' CIBP @ 11,558' w/ 50' cmt

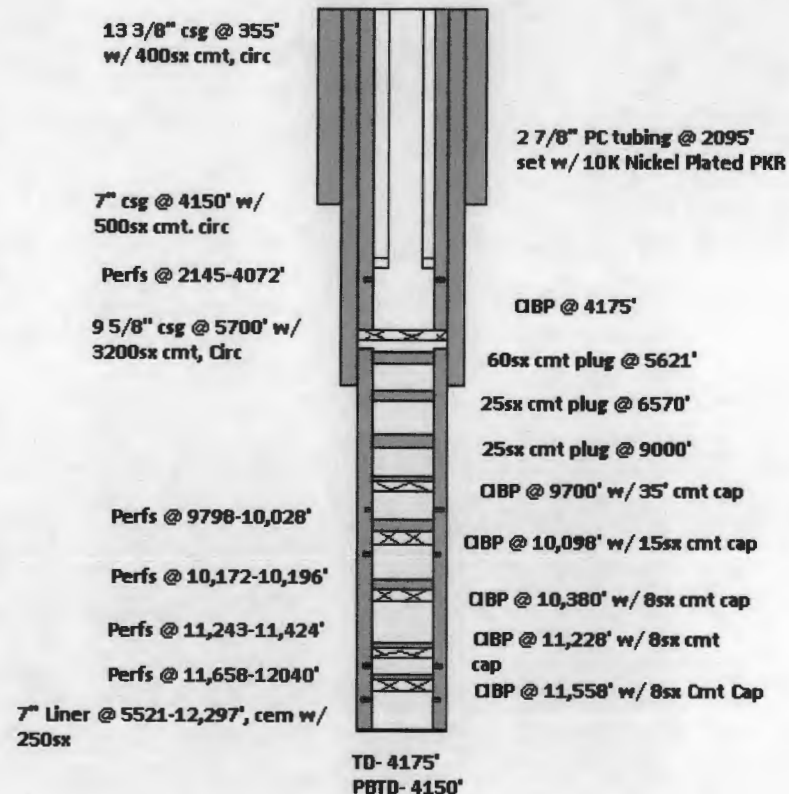
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Overlying- Lamar Limestone , Underlying- Brushy Canyon

Before



Canal SWD #1
Sec. 3 T23S R27E
2175 FSL 838 FWL
30-015-21064

After



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;
0-429#
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 *Bone Springs*
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; **Bell Canyon and Cherry Canyon**
3. Thickness; **1927'**
4. Depth; **2,145-4,072'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 2000 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. *✓ Have - Otis FW wells*

Additional Information

Waters Injected: Delaware Sands and Bone Spring

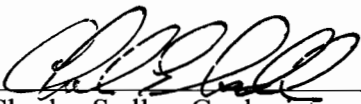
XII. AFFIRMATIVE STATEMENT

RE: Canal 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: 3/11/14



Charles Sadler, Geologist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6175 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 30-015-21064	² Pool Code 96802	³ Pool Name SWD; Bell Canyon, Cherry Canyon
⁴ Property Code 40393	⁵ Property Name CANAL SWD	
⁷ OGRID No. 13837	⁸ Operator Name MACK ENERGY CORPORATION	
		⁶ Well Number 1
		⁹ Elevation 3114.7

¹⁰ Surface Location

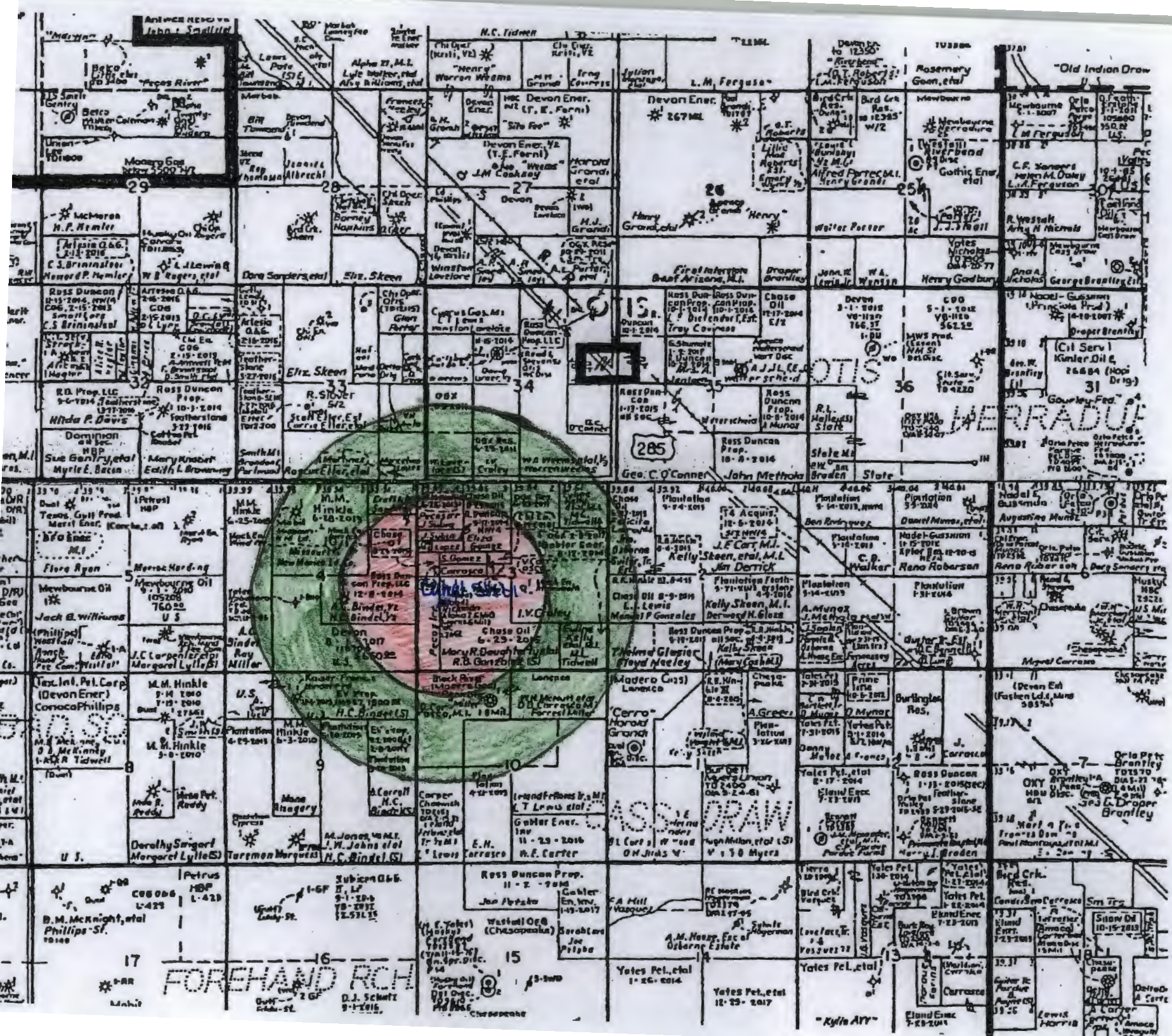
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	23 S	27 E		2175	SOUTH	838	WEST	EDDY

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.					

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°29'41"E 2652.18 FT</p> <p>NW CORNER SEC. 3 LAT. = 32.3414054°N LONG. = 104.1864496°W NMSP EAST (FT) N = 487966.38 E = 586700.21</p> <p>W/4 CORNER SEC. 3 LAT. = 32.3342473°N LONG. = 104.1866046°W NMSP EAST (FT) N = 485362.27 E = 586655.89</p> <p>838'</p> <p>2175'</p> <p>SURFACE LOCATION</p> <p>SW CORNER SEC. 3 LAT. = 32.3269992°N LONG. = 104.1867611°W NMSP EAST (FT) N = 482725.43 E = 586611.17</p> <p>S89°44'52"W 2620.04 FT</p>		<p>N89°28'55"E 2651.41 FT</p> <p>N/4 CORNER SEC. 3 LAT. = 32.3414594°N LONG. = 104.1778641°W NMSP EAST (FT) N = 487989.76 E = 589351.67</p> <p>NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). 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>CANAL SWD #1 ELEV. = 3114.7' LAT. = 32.3329839°N (NAD83) LONG. = 104.1839186°W NMSP EAST (FT) N = 484903.82 E = 587486.14</p> <p>E: 576804.49 N: 3577637.98</p> <p>SE CORNER SEC. 3 LAT. = 32.3270207°N LONG. = 104.1782808°W NMSP EAST (FT) N = 482736.97 E = 589230.57</p> <p>S89°45'54"W 2664.74 FT</p>		<p>NE CORNER SEC. 3 LAT. = 32.3415144°N LONG. = 104.1692811°W NMSP EAST (FT) N = 488013.72 E = 592002.35</p> <p>E/4 CORNER SEC. 3 LAT. = 32.3342764°N LONG. = 104.1694695°W NMSP EAST (FT) N = 485380.53 E = 591948.20</p> <p>S01°09'54"W 2633.80 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</i> 3.11.14 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>JANUARY 22, 2014 Date of Survey</p> <p><i>[Signature]</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number PHILIP MONT JARAMILLO, PLS 12707 SURVEY NO. 2615</p>	
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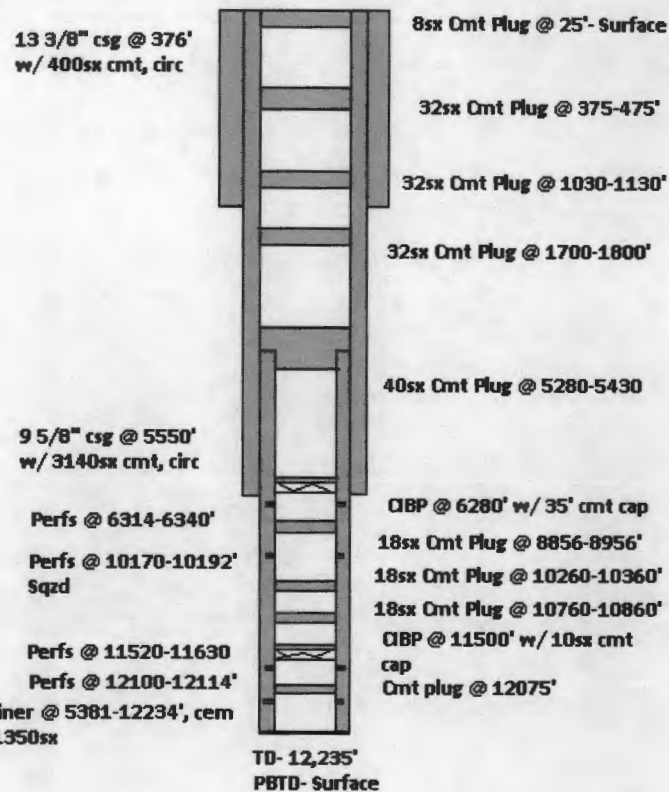
AREA OF REVIEW WELL DATA

LEASE/API	WELL#	LOCATION	TD (PBSD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
Canal SWD 30-015-21064	1	2175' FSL 838' FWL 3-23S-27S	4175' PBSD- 4150'	SWD 2/1/1974	17 1/2 12 1/4 8 3/4	13 3/8, 48 9 5/8, 40 7,26	355 5700 4150	400 3000 500	Circ Circ Circ	2145-4072
Otis SWD 30-015-21145	1	1947' FSL 1971' FEL 4-23S-27E	15,100' PBSD- 15,050'	SWD 1/25/1983	1 1/2 12 1/4 6 1/8	13 3/8, 48 9 5/8, 43.5 5,15	376 5550 15,100	400 3140 855	Circ Circ Circ	12,967-15100'
Devonian SWD										10760-10860 11445-11500
Derrick Fee 30-015-40817	1	1675' FNL 700' FEL 4-23S-27E	10,520' PBSD- 10,477'	Oil 2/27/2013	17 1/2 12 1/4 7 7/8	13 3/8, 48 8 5/8, 32 5 1/2, 17	398 2005 10520	475 1025 1310	Circ Circ Circ	6533-6740 7160-7298
										8424-8821 8886-9066
Wind Fee 30-015-40922	1	1650' FNL 2310' FEL 4-23S-27E	9165' PBSD- 9119'	Oil 9/15/2013	17 1/2 12 1/4 7 7/8	13 3/8, 48 8 5/8, 24 5 1/2, 17	420 2004 9165	420 1080 1300	Circ Circ Circ	6523-6674 7112-7252 8736-9039
Wind Fee 30-015-41756	2	1650' FNL 2310' FWL 4-23S 27E	5558' PBSD- 5518'	Oil 11/27/2013	14 3/4 8 3/4	9 5/8, 36 7, 26	420 5558	560 855	Circ Circ	5264-5456
Miller Com 30-015-22552	1	760' FNL 2080' FWL 10-23S-27E	12350' PBSD- 11160'	Gas 5/22/1978	17 1/2 12 1/4	13 3/8, 48 10 3/4, 40.5	349 5635	400 1850	Circ Circ	9896-9932' 11923-11966
Bindel Federal Com 30-015-22290	1	660' FNL 1980' FWL 9-23S-27E	12,205' PBSD- 11,596'	Gas 7/10/1986 P&A 6/27/2003	17 1/2 11 7 7/8	13 3/8, 72 8 5/8, 24 4 1/2, 11.6	364 5566 12205	475 2875 1350	Circ Circ Circ	10910-10916' 11531-11544 11716-11990
									Circ: circulated to surface	

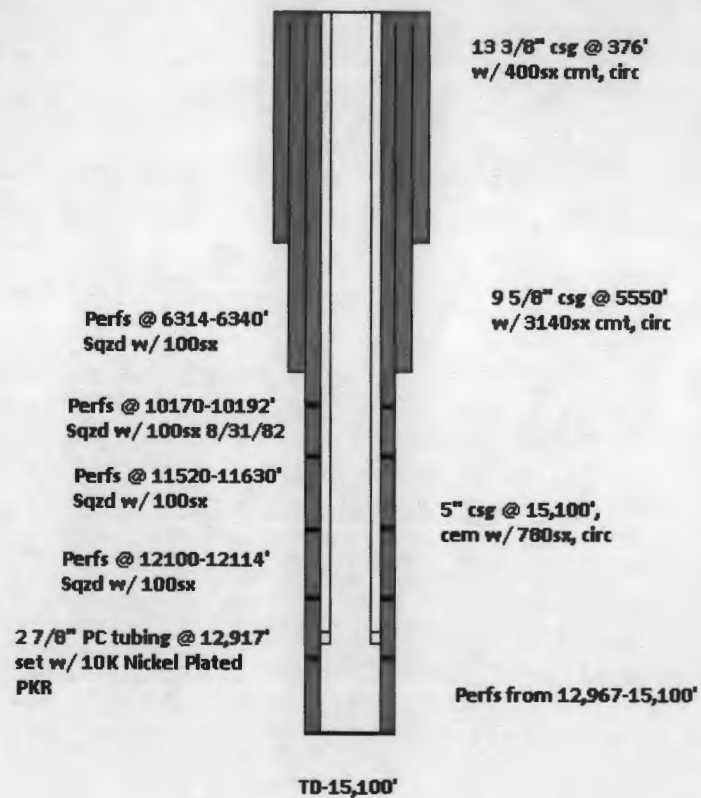
6 wells
5 active / 1 P&A

Before

Otis SWD #1
Sec. 4 T23S R27E
1947 FSL1971 FEL



After

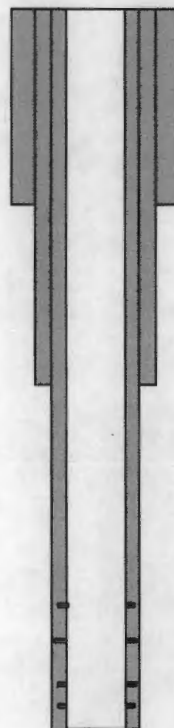


Derrick Fee #1
Sec. 4 T23S R27E
1675 FNL 700 FEL
30-015-40817

13 3/8" csg @ 398'
w/ 475sx, circ

8 5/8" csg @ 2005'
w/ 1025sx cmt, circ

5 1/2" csg @ 10520'
w/ 1310sx cmt, circ



Perfs @ 6533-6740'
Perfs @ 7160-7298'
Perfs @ 8424-8821
Perfs @ 8886-9066'

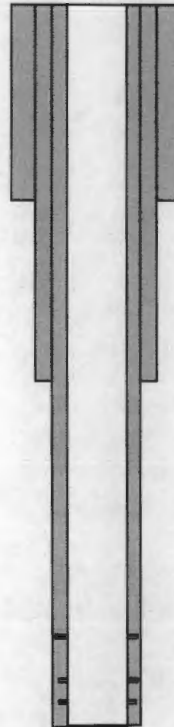
TD- 10,520'
PBD- 10,477'

Wind Fee #1
Sec 4 T23S R27E
1650 FNL 2310 FEL
30-015-40922

13 3/8" csg @ 420'
w/ 420sx, circ

8 5/8" csg @ 2004'
w/ 1080sx cmt, circ

5 1/2" csg @ 9165'
w/ 1300sx cmt, circ

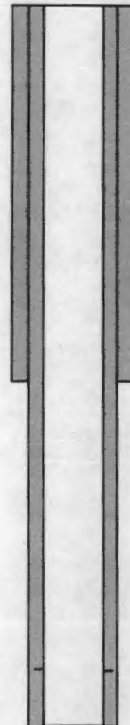


Perfs @ 6523-6674'
Perfs @ 7112-7252'
Perfs @ 8736-9039'

TD- 9165'
PBTD- 9119'

Wind Fee #2
Sec. 4 T23S R27E
1650' FNL 2310' FWL
30-015-41756

9 5/8" csg @ 402'
w/ 560sx, circ



7" csg @ 5558'
w/ 855sx cmt, circ

Perfs @ 5264-5456'

TD- 5558'
PBTD- 5518'

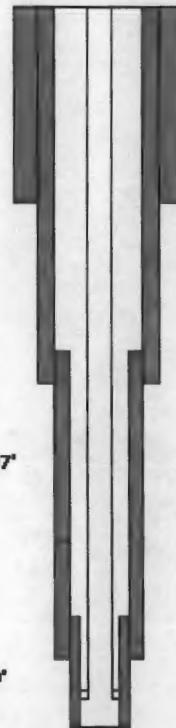
Miller Com #1
Sec 10 T23S R27E
760' FNL 2080' FWL
30-015-22552

13 3/8" csg @ 349'
w/ 400sx cmt, circ

10 3/4" csg @ 5635'
w/ 1850sx cmt, circ

7 5/8" liner @ 5410-11,497'
w/ 770sx cmt

5" liner @ 11,367-12,349'
w/ 150sx cmt

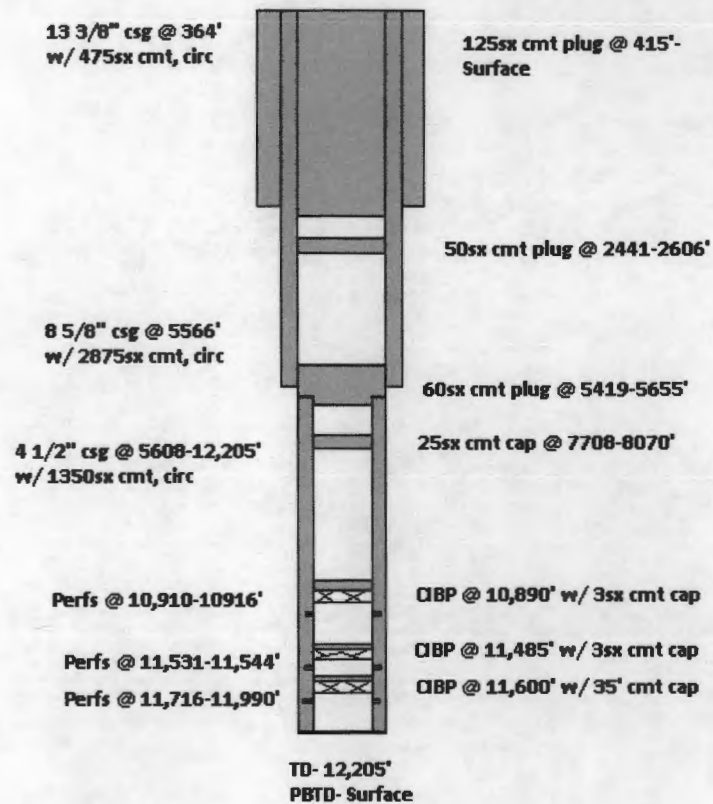


2 3/8" tubing @ 12,285'
Packer @ 11,870'

Perfs @ 9896-9932'
Perfs @ 11923-11966'

TD- 12,350'
PBTD- 11,160'

Bindell Federal Com #1
Sec. 9 T23S R27E
660 FNL 1980 FWL
30-015-22290





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

Water Analysis Report

Customer:	Mack Energy Corporation	Sample #:	16259
Area:	Artesia	Analysis ID #:	17342
Lease:	Otis		
Location:	FW #1		0
Sample Point:	Water Line		

		Anions	mg/l	meq/l	Cations	mg/l	meq/l
Sampling Date:	12/10/2013	Chloride:	592.8	16.72	Sodium:	80.3	3.49
Analysis Date:	12/13/2013	Bicarbonate:	87.8	1.44	Magnesium:	75.5	6.21
Analyst:	Catalyst	Carbonate:			Calcium:	316.1	15.77
TDS (mg/l or g/m3):	1704.3	Sulfate:	460.0	9.58	Potassium:	59.7	1.53
Density (g/cm3):	1.004				Strontium:	32.1	0.73
					Barium:	0.0	0.
Hydrogen Sulfide:	0				Iron:	0.0	0.
Carbon Dioxide:	0				Manganese:	0.000	0.
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):		1740
					Resistivity (ohm meter):		5.7471

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	-0.27	0.00	-0.67	0.00	-0.75	0.00	0.03	1.40	0.00	0.00
100	-0.14	0.00	-0.68	0.00	-0.68	0.00	0.04	2.10	0.00	0.00
120	0.00	0.00	-0.67	0.00	-0.59	0.00	0.07	3.50	0.00	0.00
140	0.15	2.10	-0.65	0.00	-0.48	0.00	0.11	4.90	0.00	0.00
160	0.30	4.20	-0.62	0.00	-0.35	0.00	0.15	6.65	0.00	0.00
180	0.46	6.30	-0.58	0.00	-0.20	0.00	0.20	8.40	0.00	0.00
200	0.62	8.75	-0.55	0.00	-0.04	0.00	0.25	10.15	0.00	0.00
220	0.79	10.85	-0.51	0.00	0.13	47.24	0.31	11.90	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 Sample #: 16260
Area: Artesia Analysis ID #: 17343
Lease: Otis
Location: FW #2 0
Sample Point: Water line

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/10/2013	Chloride:	583.8	Sodium:	75.7
Analysis Date:	12/13/2013	Bicarbonate:	65.9	Magnesium:	74.2
Analyst:	Catalyst	Carbonate:		Calcium:	301.8
TDS (mg/l or g/m3):	1633	Sulfate:	440.0	Potassium:	59.7
Density (g/cm3):	1.004			Strontium:	31.9
				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):	1715
				Resistivity (ohm meter):	5.8309

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		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-0.41	0.00	-0.70	0.00	-0.77	0.00	0.02	1.05	0.00	0.00	
100	-0.28	0.00	-0.70	0.00	-0.71	0.00	0.04	1.75	0.00	0.00	
120	-0.14	0.00	-0.69	0.00	-0.62	0.00	0.06	3.15	0.00	0.00	
140	0.01	0.00	-0.67	0.00	-0.51	0.00	0.10	4.55	0.00	0.00	
160	0.17	1.75	-0.64	0.00	-0.37	0.00	0.14	6.30	0.00	0.00	
180	0.32	3.50	-0.61	0.00	-0.23	0.00	0.19	8.05	0.00	0.00	
200	0.49	5.25	-0.57	0.00	-0.07	0.00	0.24	9.80	0.00	0.00	
220	0.65	7.00	-0.53	0.00	0.10	36.74	0.30	11.55	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	Sample #:	16261
Area:	Artesia	Analysis ID #:	17344
Lease:	Otis		
Location:	FW #3		0
Sample Point:	Water Line		

Sampling Date:	12/10/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/13/2013	Chloride:	642.0	18.11	Sodium:	76.3	3.32
Analyst:	Catalyst	Bicarbonate:	87.8	1.44	Magnesium:	74.9	6.16
TDS (mg/l or g/m3):	1639.3	Carbonate:			Calcium:	306.9	15.31
Density (g/cm3):	1.004	Sulfate:	360.0	7.5	Potassium:	59.5	1.52
					Strontium:	31.9	0.73
					Barium:	0.0	0.
Hydrogen Sulfide:	0				Iron:	0.0	0.
Carbon Dioxide:	0				Manganese:	0.000	0.
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):		1745
					Resistivity (ohm meter):		5.7307

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		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-0.26	0.00	-0.78	0.00	-0.85	0.00	-0.06	0.00	0.00	0.00	
100	-0.13	0.00	-0.78	0.00	-0.78	0.00	-0.04	0.00	0.00	0.00	
120	0.00	0.00	-0.77	0.00	-0.69	0.00	-0.01	0.00	0.00	0.00	
140	0.15	2.10	-0.75	0.00	-0.58	0.00	0.02	1.05	0.00	0.00	
160	0.31	4.20	-0.72	0.00	-0.45	0.00	0.07	3.15	0.00	0.00	
180	0.47	6.30	-0.69	0.00	-0.31	0.00	0.12	5.25	0.00	0.00	
200	0.63	8.75	-0.65	0.00	-0.15	0.00	0.17	7.35	0.00	0.00	
220	0.79	10.85	-0.61	0.00	0.02	7.35	0.23	9.10	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	Sample #:	16262
Area:	Artesia	Analysis ID #:	17345
Lease:	Otis		
Location:	FW #4		0
Sample Point:	Water Line		

Sampling Date:	12/10/2013	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	12/13/2013	Chloride:	605.2	17.07	Sodium:	75.8	3.3
Analyst:	Catalyst	Bicarbonate:	87.8	1.44	Magnesium:	74.3	6.11
TDS (mg/l or g/m3):	1667	Carbonate:			Calcium:	312.5	15.59
Density (g/cm3):	1.004	Sulfate:	420.0	8.74	Potassium:	59.5	1.52
					Strontium:	31.9	0.73
					Barium:	0.0	0.
Hydrogen Sulfide:	0				Iron:	0.0	0.
Carbon Dioxide:	0				Manganese:	0.000	0.
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):		1728
					Resistivity (ohm meter):		5.7870

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	-0.27	0.00	-0.71	0.00	-0.78	0.00	0.00	0.00	0.00	0.00	
100	-0.14	0.00	-0.71	0.00	-0.72	0.00	0.01	0.70	0.00	0.00	
120	0.00	0.00	-0.70	0.00	-0.63	0.00	0.04	2.10	0.00	0.00	
140	0.15	2.10	-0.68	0.00	-0.52	0.00	0.08	3.50	0.00	0.00	
160	0.30	4.20	-0.66	0.00	-0.38	0.00	0.12	5.60	0.00	0.00	
180	0.46	6.30	-0.62	0.00	-0.24	0.00	0.17	7.35	0.00	0.00	
200	0.63	8.75	-0.58	0.00	-0.08	0.00	0.22	9.10	0.00	0.00	
220	0.79	10.85	-0.54	0.00	0.09	32.19	0.28	10.85	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 Sample #: 16263
Area: Artesia Analysis ID #: 17346
Lease: Otis
Location: FW #5 0
Sample Point: Water Line

		Anions		mg/l		meq/l	Cations		mg/l		meq/l
Sampling Date:	12/10/2013	Chloride:		635.1		17.91	Sodium:		89.5		3.89
Analysis Date:	12/10/2013	Bicarbonate:		65.8		1.08	Magnesium:		74.5		6.13
Analyst:	Catalyst	Carbonate:					Calcium:		309.7		15.45
TDS (mg/l or g/m3):	1686.7	Sulfate:		420.0		8.74	Potassium:		60.0		1.53
Density (g/cm3):	1.004						Strontium:		32.1		0.73
							Barium:		0.0		0.
Hydrogen Sulfide:	0						Iron:		0.0		0.
Carbon Dioxide:	0						Manganese:		0.000		0.
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):				1731
							Resistivity (ohm meter):				5.7770

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		
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	-0.40	0.00	-0.72	0.00	-0.79	0.00	0.00	0.00	0.00	0.00	
100	-0.27	0.00	-0.72	0.00	-0.72	0.00	0.02	0.70	0.00	0.00	
120	-0.13	0.00	-0.71	0.00	-0.63	0.00	0.04	2.10	0.00	0.00	
140	0.02	0.35	-0.69	0.00	-0.52	0.00	0.08	3.85	0.00	0.00	
160	0.17	1.75	-0.66	0.00	-0.39	0.00	0.12	5.60	0.00	0.00	
180	0.33	3.50	-0.63	0.00	-0.24	0.00	0.17	7.35	0.00	0.00	
200	0.49	5.25	-0.59	0.00	-0.08	0.00	0.22	9.10	0.00	0.00	
220	0.66	7.00	-0.55	0.00	0.09	30.79	0.28	10.85	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 Sample #: 16264
 Area: Artesia Analysis ID #: 17347
 Lease: Otis
 Location: FW #6 0
 Sample Point: Water Line

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/10/2013	Chloride:	611.9	Sodium:	76.3
Analysis Date:	12/10/2013	Bicarbonate:	87.8	Magnesium:	74.7
Analyst:	Catalyst	Carbonate:		Calcium:	307.0
TDS (mg/l or g/m3):	1649.2	Sulfate:	400.0	Potassium:	59.6
Density (g/cm3):	1.004			Strontium:	31.9
				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):	1740
				Resistivity (ohm meter):	5.7471

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	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-0.27	0.00	-0.74	0.00	-0.81	0.00	-0.02	0.00	0.00	0.00
100	-0.14	0.00	-0.74	0.00	-0.74	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	-0.73	0.00	-0.65	0.00	0.02	1.40	0.00	0.00
140	0.15	2.10	-0.71	0.00	-0.54	0.00	0.06	2.80	0.00	0.00
160	0.30	4.20	-0.68	0.00	-0.41	0.00	0.11	4.90	0.00	0.00
180	0.46	6.30	-0.65	0.00	-0.26	0.00	0.15	6.65	0.00	0.00
200	0.62	8.75	-0.61	0.00	-0.10	0.00	0.21	8.75	0.00	0.00
220	0.79	10.85	-0.57	0.00	0.06	22.75	0.27	10.50	0.00	0.00

Affidavit of Publication

No. 22843

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 January 31, 2014

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn before me this

31st day of January 2014



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2015

Latisha Romine

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 Canal SWD #1 2175 FSL & 838 FWL of Section 3, T23S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon, Cherry Canyon formations at a disposal depth of 2145-4072'. Water will be injected at a maximum surface pressure of 429 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., Jan. 31, 2014 Legal No 22843.



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3565
RETURN RECEIPT REQUESTED

Commissioner of Public Lands
PO Box 1148
Santa Fe, NM 87504-1148


Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3572
RETURN RECEIPT REQUESTED

Nancy J. Peebles
7797 Tree Swallow, SE
Brookshire East
Grand Rapids, MI 49508

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in cursive script that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3589
RETURN RECEIPT REQUESTED

Richard Graddis
8794 Lookout Mountain
Los Angeles, CA 90046

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

A handwritten signature in cursive script that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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Fax (575) 746-9539

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3596
RETURN RECEIPT REQUESTED

Mike K Bullock
4980 FM 1256
Eustace, TX 75124-6948

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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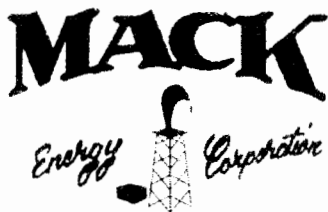
Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3602
RETURN RECEIPT REQUESTED

David A. Carrick
1929 Oak Avenue
Boulder, CO 80304

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

A handwritten signature in black ink that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3619
RETURN RECEIPT REQUESTED

Ross Duncan Properties, LLC
P.O. Box 647
Artesia, NM 88211

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

A handwritten signature in black ink that reads "Deana Weaver". The signature is written in a cursive, flowing style.

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3626
RETURN RECEIPT REQUESTED

XPLOR Resources, LLC
1104 N. Shore
Carlsbad, NM 88220

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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.

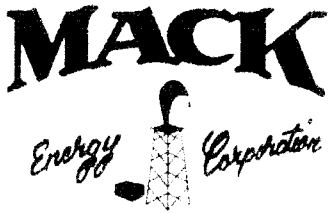
Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3633
RETURN RECEIPT REQUESTED

Featherstone Development Corporation
Big Three Energy Group, LLC
Prospector, LLC
P.O. Box 429
Roswell, NM 88202

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3640
RETURN RECEIPT REQUESTED

Brian C. Reid
2502 Camarie
Midland, TX 79705

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

A handwritten signature in cursive script that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3657
RETURN RECEIPT REQUESTED

Elizabeth Ann Wilson
P.O. Box 1434
Artesia, NM 88211

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

A handwritten signature in black ink that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3664
RETURN RECEIPT REQUESTED

Devon Energy Production Company, LP
333 West Sheridan Ave
Oklahoma City, OK 73102

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

DWM

Attachments



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

March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3671
RETURN RECEIPT REQUESTED

Merit Management Partners I LP
13727 Noel Rd. Ste 500
Dallas, TX 75240

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S 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

A handwritten signature in cursive script that reads "Deana Weaver".

Deana Weaver
Production Clerk

DW

Attachments



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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3688
RETURN RECEIPT REQUESTED

Estate of Simon N. Carrasco & Cinderella Carrasco
706 Barnett
Roswell, NM 88201

Gentlemen:

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3695
RETURN RECEIPT REQUESTED

Dale L. Johnson
2209 Brantley Rd.
Carlsbad, NM 88220-9586

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3701
RETURN RECEIPT REQUESTED

Marifred M. Handley
Trustee of the Joe F. Handley
Marifred M. Handley Revocable Trust
9201 Carlsbad Hwy
Hobbs, NM 88240

Gentlemen:

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Deana Weaver
Deana Weaver
Production Clerk

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3718
RETURN RECEIPT REQUESTED

David Scott Miller
P.O. Box 511
Show Low, AZ 85902-0511

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Production Clerk

DWM

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3725
RETURN RECEIPT REQUESTED

Jay P. Miller
7401 Crystal Ridge Road, SW
Albuquerque, NM 87121

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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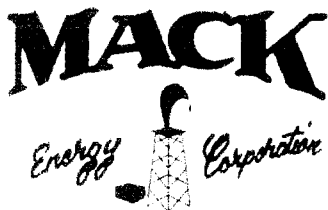
Sincerely,

MACK ENERGY CORPORATION

Deana Weaver
Deana Weaver
Production Clerk

DW

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3732
RETURN RECEIPT REQUESTED

Leslyn E. Johnson
9201 Carlsbad Hwy
Hobbs, NM 88240

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3749
RETURN RECEIPT REQUESTED

Julie Lara
P.O. Box 2428
Roswell, NM 88202

Gentlemen:

Enclosed for your review, is a copy of Mack Energy Corporation's application for Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2145-4072'. The Canal SWD #1 located 2175 FSL & 838 FWL, Sec. 3 T23S R27E, Eddy County.

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3756
RETURN RECEIPT REQUESTED

Enrique P Gomez
Ramona G. Gomez Revocable Trust
6028 Grandi
Carlsbad, NM 88220

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Deana Weaver
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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3763
RETURN RECEIPT REQUESTED

Reymundo C. Carrasco
2206 Burnett
Carlsbad, NM 88220

Gentlemen:

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Deana Weaver
Production Clerk

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March 11, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3770
RETURN RECEIPT REQUESTED

Gilbert Fierro
1955 Telshore #7
Las Cruces, NM 88011

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Deana Weaver
Production Clerk

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C-108 Review Checklist:

Received 03/11/14 Add. Request: 7/21/14 Reply Date: 7/23/14 Suspended: None [Ver 13]

PERMIT TYPE: WFX / PMX SWD Number: 1493 Permit Date: 07/23/14 Legacy Permits/Orders: None

Well No. 1 Well Name(s): Canal SWD [currently - Maude Rickman No. 1]

API: 30-0 15-21064 Spud Date: 02-01-1974 New or Old: Old (UIC Class II Primacy 03/07/1982)

Footages 2175 FSL/838 FWL Lot — or Unit L Sec 3 Tsp 23S Rge 27E County Eddy

General Location: Crane survey with C-108 submitted in March Previously WC / Atoka / Morrow Production

BLM 100K Map: Carlbad Operator: Mack Energy Corporation GRID: 138.37 Contact: Deana Weaver

COMPLIANCE RULE 5.9: Total Wells: 388 Inactive: 2 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 07/21/14

WELL FILE REVIEWED ☒ Current Status: P&A: former producer; surface reclamation (Check with Carlbad) 07/23/14

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

Planned Rehab Work to Well: Re-enter and drill at shallow plugs to top of 7 in liner / add new 7 in liner / correct new liner / correct base of liner / correct

Well Construction Details:	Sizes (in)		Setting Depths (ft)	Stage Tool	Cement Sxpr Cf	Cement Top and Determination Method
	Borehole / Pipe					
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Surface	<u>17 1/2 / 13 3/8</u>		<u>0 to 355</u>		<u>800</u>	<u>Cir to surface</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Intern Prod	<u>12 1/4 / 9 5/8</u>		<u>0 to 5700</u>	<u>None</u>	<u>3200</u>	<u>Cir to surface</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Intern Prod	<u>8 3/4 / 7</u>		<u>5520 to 12297</u>	<u>None</u>	<u>1350</u>	<u>Top of Liner / Cal.</u>
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Prod / Liner	<u>Add (7 in liner) to surf.</u>		<u>—</u>	<u>—</u>	<u>500</u>	<u>Cir to surface</u>
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Liner	<u>—</u>		<u>4175</u>	<u>—</u>	<u>—</u>	
Planned <input checked="" type="checkbox"/> or Existing <input checked="" type="checkbox"/> OH (PERF)	<u>New 7 in ch</u>		<u>2145 to 4072</u>	<u>Inj Length 1927</u>		

Injection Stratigraphic Units:		Depths (ft)		Injection or Confining Units		Tops	
Adjacent Unit: Litho. Struc. Por.				<u>Salado Base</u>		<u>1790</u>	
Confining Unit: Litho. Struc. Por.				<u>Lamar</u>		<u>2025</u>	
Proposed Inj Interval TOP:	<u>2145</u>			<u>Del. Men Gp. / Bell</u>		<u>2145</u>	
Proposed Inj Interval BOTTOM:	<u>4072</u>			<u>Cherry Canyon</u>			
Confining Unit: Litho. Struc. Por.				<u>Brushy Canyon</u>		<u>8675</u>	
Adjacent Unit: Litho. Struc. Por.				<u>Bone Spring</u>		<u>8670</u>	

Completion/Operation Details:			
Drilled TD	<u>12,300</u>	PBTD	<u>12,150</u>
NEW TD	<u>—</u>	NEW PBTD	<u>4172 / 4130</u>
NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>			
Tubing Size	<u>2 7/8</u> in.	Inter Coated?	<u>Yes</u>
Proposed Packer Depth	<u>2095</u> ft		
Min. Packer Depth	<u>2045</u> (100-ft limit)		
Proposed Max. Surface Press.	<u>429</u> psi		
Admin. Inj. Press.	<u>429</u> (0.2 psi per ft)		

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? IVA BLM Sec Ord No WIPP Noticed? NA SALT/SALADO T: — B: — CLIFF HOUSE —

FRESH WATER: Aquifer Alluvial aquifer / Pecos Max Depth < 300' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Carlbad CAPITAN REEF: thru ☐ adj ☐ NAG ☒ No. Wells within 1-Mile Radius? 130 FW Analysis ☒

Disposal Fluid: Formation Source(s) Delaware & Bone Spring Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): 4000 Protectable Waters? No Source: GoTech System: Closed ☐ or Open ☐

HC Potential: Producing Interval? No Formerly Producing? No Method: Cherry Canyon - Herradura Band; all other Brushy 2-Mile Radius Pool Map No

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 6 Horizontals? 0

Penetrating Wells: No. Active Wells 5 Num Repairs? 0 on which well(s)? — Diagrams? Yes

Penetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? — Canal Watershed Diagrams? Yes

NOTICE: Newspaper Date 01/31/14 Mineral Owner Fee Surface Owner Fee (Need info) Date 03/11/14

RULE 26.7(A): Identified Tracts? No Affected Persons: Need map [21 parties + NMS] Date 03/11/14

Permit Conditions: < 1500' Long interval - injection survey would be good info.

Add Permit Cond: Injection survey / current pressure then second if IPI approved



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)													
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	q q q					X	Y	Distance		
									Source	6416	4	Sec	Tws				Rng	
C 00071		IRR	422.34	HENRY R. OR DELORES WALTERSCHIED	ED	C 00071			Shallow	2	1	3	03	23S	27E	576865	3577649*	61
C 03000	C	DOM		3 PHILLIP WALTERSCHEID	ED	C 03000	POD2	TD: 150' WL: 80' (Clay) R	Shallow	2	3	3	03	23S	27E	576866	3577246	396
					ED	C 03000			Shallow	2	3	3	03	23S	27E	576866	3577246*	396
C 03718	C	PRO		0 MACK ENERGY CORP	ED	C 00098	AS	} Jan 2014		3	3	4	04	23S	27E	576499	3577893	397
C 03719	C	PRO		0 MACK ENERGY CORP	ED	C 00098	AS			3	3	4	04	23S	27E	576499	3577893	397
C 00098 A		IRR		12 BINDEL HERBERT C	ED	C 00098	A-S-2		Shallow	4	4	2	04	23S	27E	576459	3577846*	403
C 00281	C	DOM		0 HERBERT C. BINDEL	ED	C 00281				4	4	2	04	23S	27E	576459	3577846*	403
C 00310		IRR		372 NEW MEXICO INTERSTATE STREAM COMMISSION	ED	C 00098	A-S-2		Shallow	4	4	2	04	23S	27E	576459	3577846*	403
C 00400	C	DOL		3 HERBERT C. BINDEL	ED	C 00400			Shallow	4	4	2	04	23S	27E	576459	3577846*	403
C 00546	C	DOM		3 JOSE SUBIA	ED	C 00546		TD: 123' WL: UNK	Shallow	1	3	1	03	23S	27E	576663	3578051*	436
C 01203	C	DOM		3 VICENTE CARRASCO	ED	C 01203			Shallow		4	1	03	23S	27E	577168	3577958*	484
C 00057		IRR		213 IRA STOCKWELL	ED	C 00057							03	23S	27E	577370	3577750*	576
C 00743	C	DOL		3 I.V. CROLEY	ED	C 00743			Shallow				03	23S	27E	577370	3577750*	576
C 02494	C	DOL		0 BEVERLY S WATSON	ED	C 02494		Expired		4	3	3	03	23S	27E	576866	3577046*	595
C 01971	C	DOM		3 O J MCCARTY	ED	C 01971		TD: 164' WL: 145'	Shallow	1	1		03	23S	27E	576762	3578354*	717
C 01989	C	DOL		3 WINSTON BALLARD	ED	C 01989			Shallow	1	1		03	23S	27E	576762	3578354*	717
C 02146	C	DOM		3 ROCKY JIMENEZ	ED	C 02146			Shallow	1	1		03	23S	27E	576762	3578354*	717
C 02148	C	DOM		3 LAFONDA CHESTER	ED	C 02148			Shallow	1	1		03	23S	27E	576762	3578354*	717

*UTM location was derived from PLSS - see Help

(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)

Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y	Distance	
C	DOM			3 CHARLES THOMPSON JR.	ED	C 02150			Shallow	1	1	03	23S	27E	576762 3578354*	717	
C	DOM			3 DENNIS HELLON	ED	C 02154			Shallow	1	1	03	23S	27E	576762 3578354*	717	
C	DOM			3 HENRY WALTERSCHEID JR.	ED	C 02166			Shallow	1	1	03	23S	27E	576762 3578354*	717	
C	DOM			3 DAVID MALEY	ED	C 01973		TD: 127' WL 90'	Shallow	1	1	1	03	23S	27E	576661 3578453*	827
C	DOM			1 JEROME GOLDEN	ED	C 03476 POD1				2	2	2	04	23S	27E	576487 3578407	831
C	DOM			3 DAVID D. CARRASCO	ED	C 00607				1	1	2	10	23S	27E	577476 3576858*	1029
	IRR		33.84	ALBERT & ELLEN WAGNER	ED	C 01172		16-in. turbine TD: 220' WL: JNK	Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		25.86	THOMAS W. & LEALA R. DAVIS	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		11.4	GARY & PAMALA FLETCHER	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		15.3	ELDON D & WHITNEY B. PRUETT	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		15.6	MARK & JEANNA S. ADAMO	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		345	RUSTLER HILLS II LIMITED PARTNERSHIP	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR		184.5	BRANTLEY BROTHERS	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
	IRR			3 I. V. CROLEY	ED	C 01172			Shallow	3	4	3	34	22S	27E	577064 3578661*	1055
C	DOM			3 BILLY R MESSER	ED	C 02324			Shallow	1	2	03	23S	27E	577571 3578367*	1057	
C	DOM			3 GARY FLETCHER	ED	C 02977			Shallow	1	1	2	03	23S	27E	577470 3578466*	1062
C	DOL			3 JOHN LANDOLT	ED	C 03072			Shallow	3	4	2	03	23S	27E	577873 3577869*	1093
C	DOL			3 BILL TAYLOR	ED	C 01700		TD: 205' WL: 118'	Shallow	3	3	34	22S	27E	576760 3578756*	1118	
C	DOL			3 LEE R GRAYSTON	ED	C 01801			Shallow	3	3	34	22S	27E	576760 3578756*	1118	
	IRR		12	BINDEL HERBERT C	ED	C 00098 A		Admin ponds		3	3	4	04	23S	27E	575859 3577036	1120
					ED	C 00098 A-S				3	3	4	04	23S	27E	575859 3577036*	1120
C	PRO		0	MACK ENERGY CORP	ED	C 00098 A				3	3	4	04	23S	27E	575859 3577036	1120

TD: 127' WL: 90'

16 in. turbine
TD: 220' WL: UNK

TD: 205' WL: 118'

} Admin permit

*UTM location was derived from PLSS - see Help

(acre ft per annum)

(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	q q q 6416 4 Sec TwS Rng	X	Y	Distance
<u>C 03647</u>	C	PRO	0	MACK ENERGY CORP	ED	<u>C 00098 A</u>			3 3 4 04 23S 27E	575859	3577036	1120
<u>C 03680</u>	C	PRO	0	MACK ENERGY CORP	ED	<u>C 00098 A</u>			3 3 4 04 23S 27E	575859	3577036	1120
<u>C 03290</u>	C	DOM	1	BART SMITH	ED	<u>C 03290</u>		Shallow	1 3 3 34 22S 27E	576714	3578778	1144
<u>C 00515</u>	C	IRR	72	MARCELINO B. LOPEZ	ED	<u>C 00515</u>		Shallow	3 4 4 33 22S 27E	576254	3578650*	1152
<u>C 00068</u>		IRR	305	NEW MEXICO INTERSTATE STREAM COMMISSION	ED	<u>C 00068</u>		Shallow	1 3 1 10 23S 27E	576673	3576441*	1204
<u>C 02932</u>	C	DOL	3	DALE L JOHNSON	ED	<u>C 02932</u>			1 3 1 10 23S 27E	576673	3576441*	1204
<u>C 03043</u>	C	DOL	3	WESTERN COMMERCE BANK	ED	<u>C 03043</u>		Shallow	2 3 3 34 22S 27E	576859	3578855*	1218
<u>C 01623</u>	C	DOL	0	RONNIE MARTIN	ED	<u>C 01623</u>			1 3 3 34 22S 27E	576659	3578855*	1225
<u>C 00759</u>		IRR	33.84	ALBERT & ELLEN WAGNER	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 A</u>		IRR	25.86	THOMAS W. & LEALA R. DAVIS	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 AA</u>		IRR	11.4	GARY & PAMALA FLETCHER	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 AB</u>		IRR	15.3	ELDON D & WHITNEY B. PRUETT	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 AC</u>		IRR	15.6	MARK & JEANNA S. ADAMO	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 C</u>		IRR	345	RUSTLER HILLS II LIMITED PARTNERSHIP	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 00759 CA</u>		IRR	184.5	BRANTLEY BROTHERS	ED	<u>C 00759</u>		Shallow	1 4 3 34 22S 27E	577064	3578861*	1250
<u>C 03115</u>	C	DOM	0	JERRY B HENLEY	ED	<u>C 03115</u>			1 2 2 03 23S 27E	577872	3578472*	1354
<u>C 00420</u>	C	CLS	0	CARPER DRILLING CO.	ED	<u>C 00420</u>	C		4 2 09 23S 27E	576370	3576337*	1371
<u>C 00283</u>	C	DOM	3	M.L. TIDWELL	ED	<u>C 00283</u>		Shallow	2 2 03 23S 27E	577973	3578373*	1380
<u>C 02226</u>	C	DOM	3	RANDY GARRETT	ED	<u>C 02226</u>		Shallow	2 2 03 23S 27E	577973	3578373*	1380
<u>C 00287</u>		IRR	101.4	JOHN & SALLY RHODES	ED	<u>C 00287</u>		Shallow	3 1 3 34 22S 27E	576657	3579061*	1430
<u>C 01168</u>	C	STK	3	DAVID D. CARRASCO	ED	<u>C 01168</u>			2 10 23S 27E	577783	3576560*	1455
<u>C 00230</u>	C	IRR	240	L.T. LEWIS	ED	<u>C 00230</u>			1 1 3 02 23S 27E	578275	3577672*	1470

*UTM location was derived from PLSS - see Help

(acre ft per annum)

(R=POD has been replaced
and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)
C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	Source	6416 4	Sec	Tws	Rng	X	Y	Distance
C 00567		IRR		213 MARTHA W. SKEEN	ED	C 00567		Shallow	1	1	3	02	23S	27E	1470
C 01547	C	DOM		0 WILLIAM H SEE	ED	C 01547			3	3	1	02	23S	27E	1489
C 03120	C	DOL		0 TERRI MICHAEL	ED	C 03120			3	3	1	02	23S	27E	1489
C 03133	C	DOL		3 WILLIAM H SEE	ED	C 03133			3	3	1	02	23S	27E	1489
C 03136	C	DOL		0 TRAVIS WALKER	ED	C 03136			3	3	1	02	23S	27E	1489
C 00549	C	DOM		3 FLOYD W. NEELY	ED	C 00549		Shallow	1	3	3	02	23S	27E	1516
C 00644		IRR		23.25 OTIS MDWC & SWA	ED	C 00644		Shallow	3	2	4	33	22S	27E	1522
C 03274	C	DOM		3 FRANISCO FRENANDEZ	ED	C 03274		Shallow	4	4	3	33	22S	27E	1534
C 00295	C	IRR		231 CORRALES LIVESTOCK CORP	ED	C 00295		Shallow	3	3	3	02	23S	27E	1577
C 00295 A		IRR		156.6 KELLY SKEEN	ED	C 00295		Shallow	3	3	3	02	23S	27E	1577
C 00508		IRR		660.75 CURTIS KELLY SKEEN ESTATE	ED	C 00508 S		Shallow	2	1	3	10	23S	27E	1600

Record Count: 73

POD Search:

POD Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 576804.49

Northing (Y): 3577637.98

Radius: 1609

Sorted by: Distance

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Goetze, Phillip, EMNRD

From: Deana Weaver <dweaver@mec.com>
Sent: Tuesday, July 22, 2014 8:20 AM
To: Goetze, Phillip, EMNRD
Cc: Jerry Sherrell
Subject: RE: Canal SWD No. 1 Application (30-015-21064)
Attachments: Water Analysis.pdf

From: Goetze, Phillip, EMNRD [<mailto:Phillip.Goetze@state.nm.us>]
Sent: Monday, July 21, 2014 3:29 PM
To: Deana Weaver
Subject: Canal SWD No. 1 Application (30-015-21064)

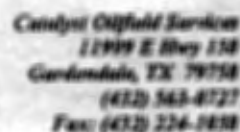
Deana:

I need two additional items to complete the application review:

1. The application states that "produced water" is to be injected. I will need to know what formations will be the source and if there are analysis of the produced water (either from samples obtained by MEC or published values such as those found on GO TECH). See Attached
2. The surface owner is to be notified (19.15.26.8.B. 2 NMAC). Which of the notifications sent out with the application satisfies the notification of the land owner? It would also be nice to see a lease holders map to support the notification. Waiting on our Land Department

Please contact me with any questions regarding these requests. PRG

Phillip R. Goetze, P.G.
Engineering and Geological Services Bureau, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
O: 505.476.3466 F: 505.476.3462
phillip.goetze@state.nm.us



Customer:	Mack Energy Corporation	Sample #:	17640
Area:	Arctia	Analysis ID #:	17978
Lease:	Wind		
Location:	#2		0
Sample Point:	Wellhead		

Forehand Ranch; Delaware

		Axione	mg/l	mg/l	Cations	mg/l	mg/l
Sampling Date:	2/19/2014						
Analyte Date:	2/26/2014	Chloride:	148852.1	4217.22	Sodium:	20090.0	2009.42
Analyt:	Catalyst	Bicarbonate:	131.8	2.18	Magnesium:	1367.0	278.98
		Carbonate:			Calcium:	20000.0	1294.91
TDS (mg/l or g/ml):	240218.7	Sulfate:	0.0	0.	Potassium:	000.0	21.96
Density (g/cm3):	1.110				Strontium:	000.4	10.04
					Barium:	0.0	0.
Hydrogen Sulfide:	2				Iron:	10.1	0.09
Carbon Dioxide:	220				Manganese:	3.522	0.13
Comments:		pH at time of sampling:		6.9			
		pH at time of analysis:					
		pH used in Calculations:		6.9			
		Temperature @ lab conditions (F):		78	Conductivity (micro-ohm/cm):		218000
					Resistivity (ohm meter):		3483

[illegible]



Catalyst Oilfield Services
 11999 E Hwy 158
 Gardendale, TX 79718
 (432) 563-8727
 Fax: (432) 224-1838

Water Analysis Report

Customer: Mack Energy Corporation Sample #: 17541
 Area: Artesia Analysis ID #: 17979
 Lease: Wind
 Location: #1 0
 Sample Point: Wellhead

Cess Draw; Bone Springs

		mg/l		mg/l			
Sampling Date:	2/18/2014	Artesia	mg/l	mg/l	Calcium	mg/l	mg/l
Analysis Date:	2/21/2014	Chloride:	182734.0	2887.78	Sodium:	67204.0	2496.23
Analyst:	Catalyst	Sulfonate:	283.5	4.32	Magnesium:	797.3	65.88
TDS (mg/l or g/l):	188812.3	Carbonate:			Calcium:	6101.0	208.83
Density (g/ml):	1.172	Sulfate:	20.0	0.42	Potassium:	1048.0	26.83
					Strontium:	801.0	11.48
					Barium:	0.0	0.
					Iron:	0.7	0.02
					Manganese:	0.000	0.
Hydrogen Sulfide:	3						
Carbon Dioxide:	30						
Comments:		pH at time of sampling:		7			
		pH at time of analysis:					
		pH used in Calculation:		7			
		Temperature @ lab conditions (F):		78	Conductivity (micro-mhos/cm):		188800
					Resistivity (ohm meter):		2400

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

Temp	Calcite CaCO_3		Gypsum $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$		Anhydrite CaSO_4		Celestite SrSO_4		Barite BaSO_4	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.82	22.61	-1.38	0.00	-1.38	0.00	-1.38	0.00	0.00	0.00
100	0.96	25.29	-2.03	0.00	-1.38	0.00	-1.38	0.00	0.00	0.00
120	0.99	27.87	-2.09	0.00	-1.83	0.00	-1.39	0.00	0.00	0.00
140	1.02	30.94	-2.14	0.00	-1.89	0.00	-1.40	0.00	0.00	0.00
160	1.05	33.92	-2.18	0.00	-1.83	0.00	-1.39	0.00	0.00	0.00
180	1.09	36.89	-2.21	0.00	-1.75	0.00	-1.38	0.00	0.00	0.00
200	1.13	40.17	-2.24	0.00	-1.68	0.00	-1.27	0.00	0.00	0.00
220	1.18	43.44	-2.26	0.00	-1.58	0.00	-1.35	0.00	0.00	0.00



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 748-7374

February 11, 2014

Delores Walterscheid
3226 Tidwell Road
Carlsbad, NM 88220

Re: Canal SWD #1
2175 FSL & 838 FWL
Section 3, T23S, R27E
Eddy County, New Mexico

Mrs. Walterscheid:

Enclosed are Mack Energy Corporation's Surface Use Agreement and Surface Lease and Salt Water Disposal Agreement for the Canal SWD #1 well for your review and signature.

If you find everything in order, please execute in the presence of a Notary Public and return one set of originals to Mack Energy Corporation in the self-addressed envelope.

If you have any questions or need additional information please do not hesitate to contact me by email at suanng@mec.com or by phone.

Sincerely,

Mack Energy Corporation

Su'Ann Greenwood
Land Department

/sg

7013 0600 0001 7892 0145

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 8.97



Sent To	Delores Walterscheid
Street, Apt. No., or PO Box No.	3226 Tidwell Road
City, State, ZIP+4	Carlsbad, NM 88220

PS Form 3800, August 2000 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Delores Walterscheid
3226 Tidwell Road
Carlsbad, NM 88220

2. Article Number
 (Transfer from service label)

7013 0600 0001 7892 0145

PS Form 3811, February 2004

Domestic Return Receipt

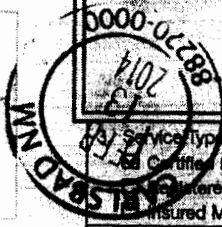
102596-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature *Delores Walterscheid* ☐ Agent Addressed

B. Received by (Printed Name) Delores Walterscheid C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes ☒ No
 If YES, enter delivery address below:



3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered Mail ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes