

DATE IN 3/07/2014	SUSPENSE	ENGINEER PPG	LOGGED IN 3/07/2014	TYPE SWD	APP NO. PMAM1406658029
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



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 Corp
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 _____

well
Pit SWD #1
30-015-20993

- [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

Pool
-SWD
Bel Canyon -
Cherry Canyon

- [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

3.4.14
Date

dweaver@mec.com
e-mail Address

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance X _____ Disposal _____ Storage
Application qualifies for administrative approval? X _____ Yes _____ No
- II. OPERATOR: Mack Energy Corporation
ADDRESS: P.O. Box 960 Artesia, NM 88211-0960
CONTACT PARTY: 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: 3.4.14

* 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: _____

INJECTION WELL DATA SHEET

OPERATOR: Mack Energy CorporationWELL NAME & NUMBER: Pit SWD #1WELL LOCATION: 831 FNL & 1900 FWL

FOOTAGE LOCATION

C

UNIT LETTER

4

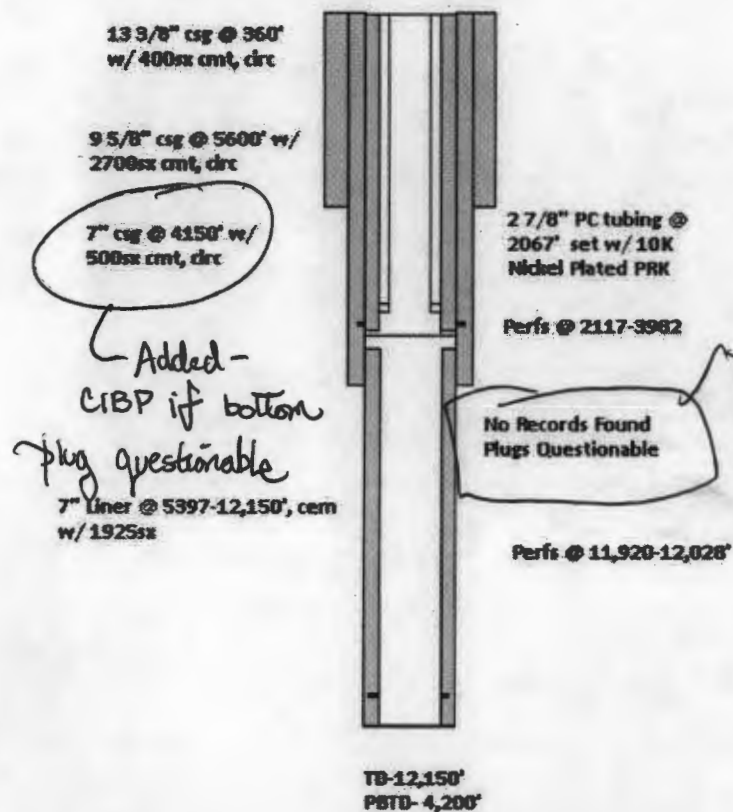
SECTION

23S

TOWNSHIP

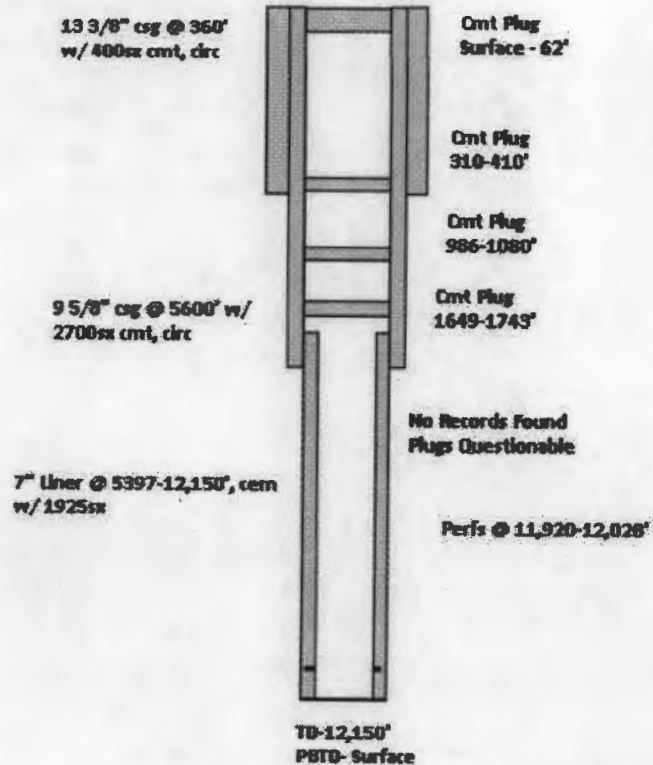
27E

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2 Casing Size: 13 3/8" (Existing)Cemented with: 400sx SX or _____ ftTop of Cement: Surface Method Determined: CirculatedIntermediate CasingHole Size: 12 1/4 Casing Size: 9 5/8" (Existing)Cemented with: 2700sx SX or _____ ftTop of Cement: Surface Method Determined: CirculatedProduction CasingHole Size: 9 5/8" Casing Size: 7", J-55 (New)Cemented with: 500sx (new) SX or _____ ftTop of Cement: Surface Method Determined: CirculatedTotal Depth: 4200'Injection Interval2117' feet to 3982'

(Perforated or Open Hole; indicate which)

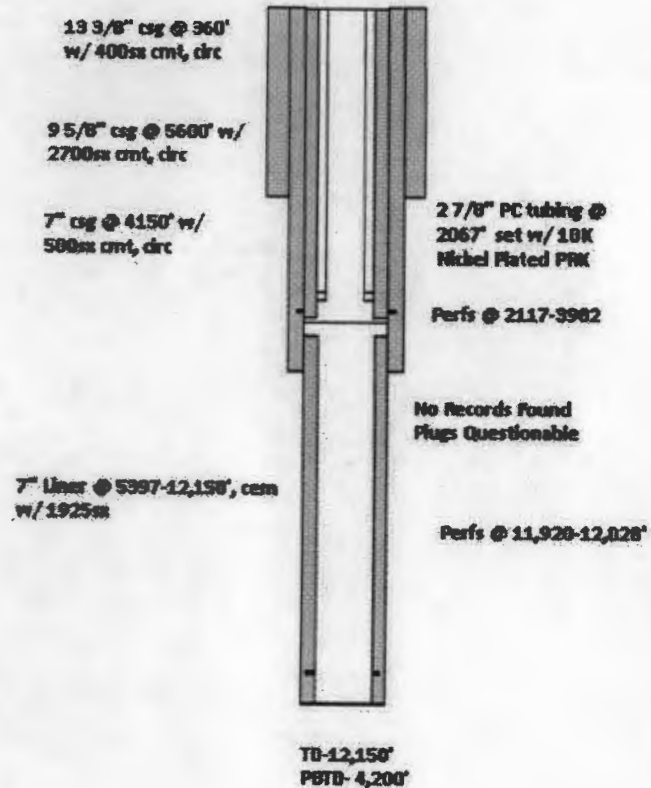
Before



Wt SWD #1
Sec. 4 T298 R27E
831 FNL 1980 FWL
30-015-20993

Formation Tops:
Top Salt: 1036'
Base Salt: 1725'
Bell Canyon: 2117'
Cherry Canyon: 2827'
Brushy Canyon: 3982'
Bone Spring: 5428'

After



INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Plastic CoatedType of Packer: Halliburton Trump PackerPacker Setting Depth: 2067'

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? Gas 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. 11,920-12,028' No well

records available, plugs will be determined during re-entry

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- Bone Sping

APD/ Spud probably - Oct to Dec 1973Mobil Prod (TX & NM) / Missouri NM Land CompWildcats in Township for Missouri

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;
0-423#
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; **1865'**
4. Depth; **2117-3982'**

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.] ^{Also} Available online DWB

Additional Information

Waters Injected: Delaware Sands and Bone Spring

Included

ApI No.	APD	SPUD
Well 30-015-20992	10/19/73	11/10/73
Well 30-015-20994	10/11/73	12/21/73

④ OTIS Freshwater Samples ✓

XII. AFFIRMATIVE STATEMENT

RE: Pit 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.

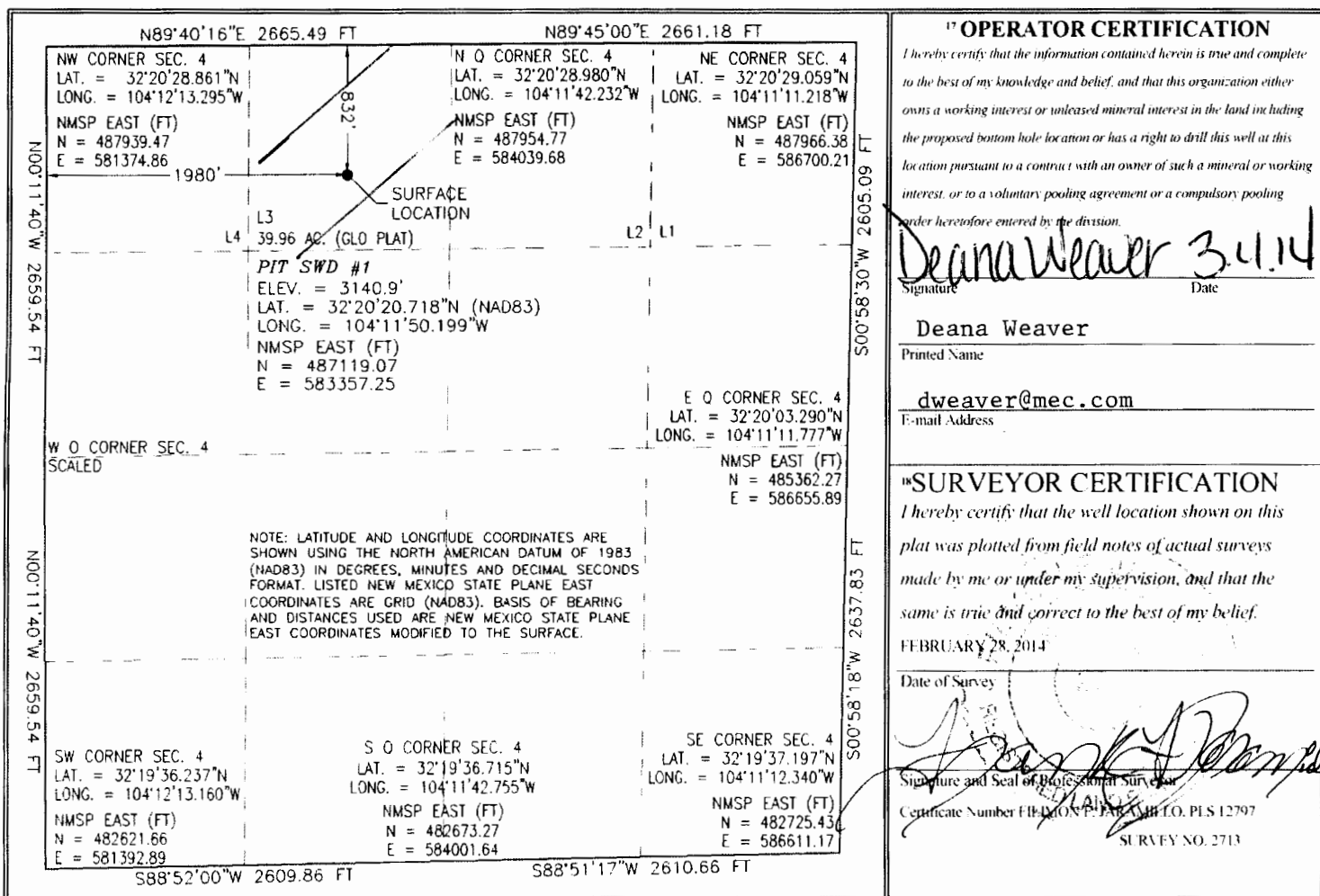
Mack Energy Corporation

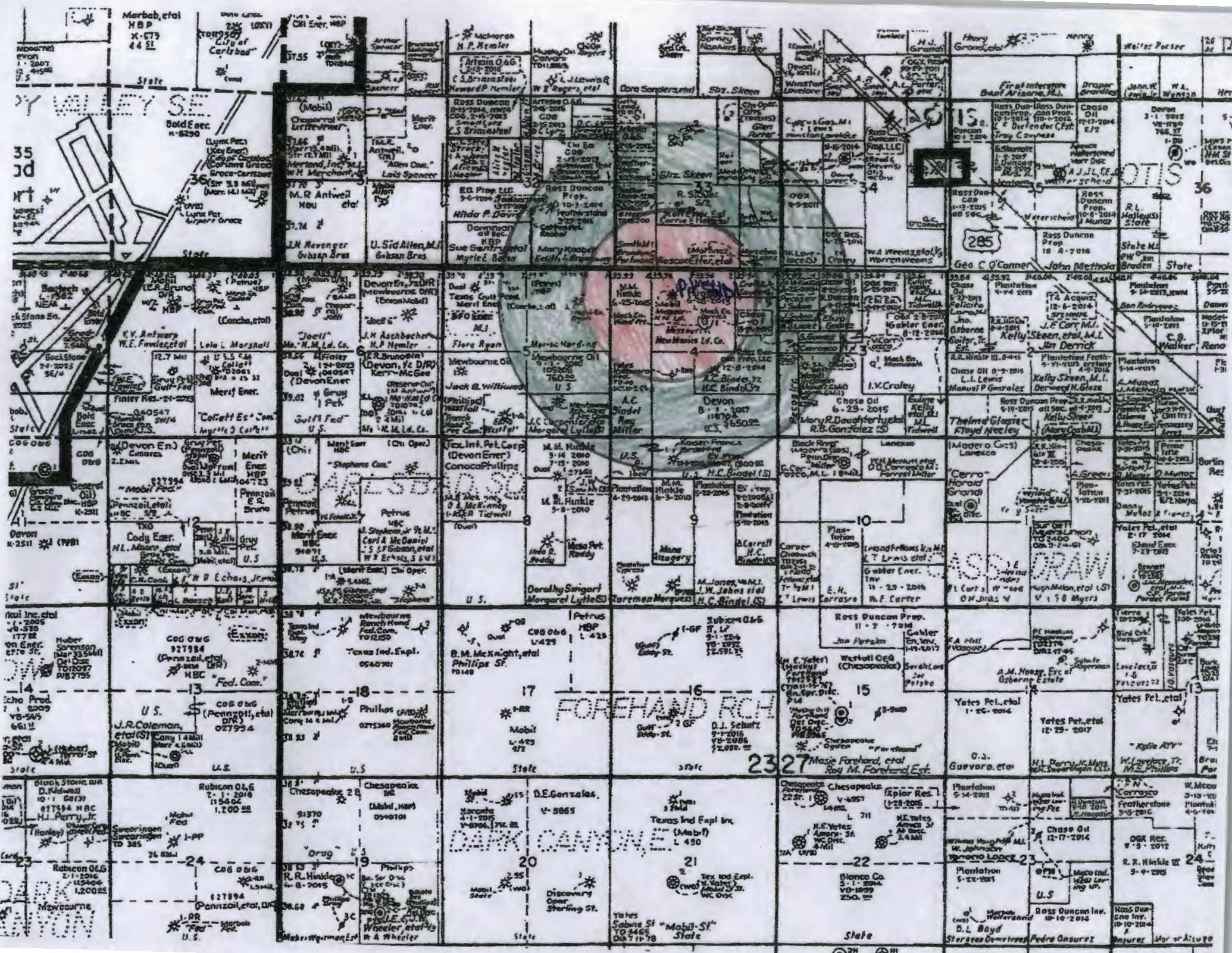
Date: _____

3/4/14

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

Charles Sadler, Geologist



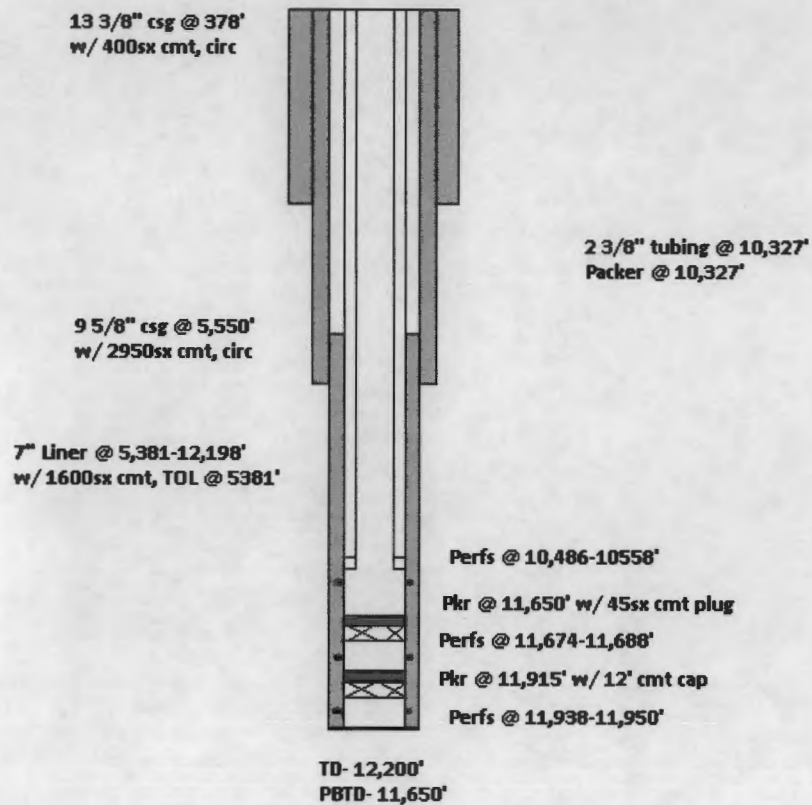


AREA OF REVIEW WELL DATA

LEASE/API	WELL#	LOCATION	TD (PBSD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
Pit SWD 30-015-20993	1	831' FNL 1980' FWL 4-23S-27E	12,150' PBSD- 4,100'	SWD 10/30/1973	17 1/2 12 1/4 8 3/4	13 3/8, 48 9 5/8, 40 7, 26	360 5600 5397-12150	400 2700 1925	Circ Circ Circ	2117-3982'
Canal SWD 30-015-21064	1	2175' FSL 838' FWL 3-23S-27E	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
Ranch Hand 5 Fee Com 30-015-34013	2	1167' FSL 1650' FEL 5-23S-27E	12,145' PBSD- 12,050'	Gas 3/30/2005	17 1/2 12 1/4 8 3/4	13 3/8, 48 9 5/8, 40 5 1/2, 17	335 5523 12145	550 2100 1800	Circ TOC @ 3470	BS at 5377' dk 11732-12042'
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
Ryan 30-015-32582	2	990' FNL 990' FEL 5-23S-27E	12,100' PBSD- 12,024'	Gas 1/28/2003	17 1/2 12 1/4 7 7/8	13 3/8, 54.4 9 5/8, 40 5 1/2, 17	352 5478 12100	400 1050 800	Circ Circ Circ	11,824-11,828' 11,852-11,855' 11,933-11,941'
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
Etter Com 30-015-21096	1	1980' FSL 1980' FWL 33-22S-27E	12,200' PBSD- 11,650'	Gas 2/14/1974	17 1/2 12 1/2	13/8, 48 9 5/8, 40	378 5550	400 2950	Circ Circ	10486-10502' 10538-10558'

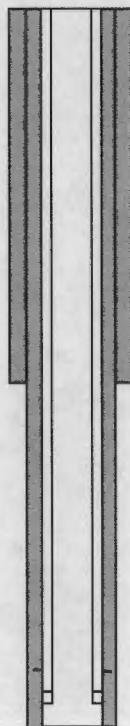
8 wells
1 P&A & 7 active

Etter Com #1
Sec. 33 T22S R27E
1980 FSL 1980 FWL
30-015-21096



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

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



2 7/8" tubing @ 5428'
Pump @ 5428'

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

Perfs @ 5264-5456'

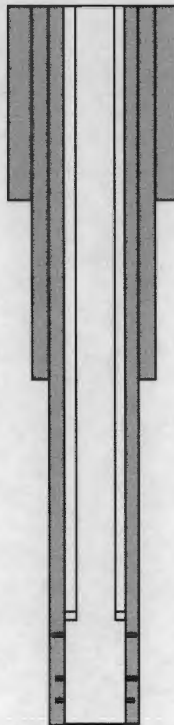
TD- 5558'
PBTD- 5518'

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



2 7/8" tubing @ 6470'
Packer @ 6470'

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

TD- 9165'
PBTD- 9119'

Ryan #2
Sec. 5 T23S R27E
990 FNL 990 FEL
30-015-32582

13 3/8" csg @ 352'
w/400sx cmt, circ

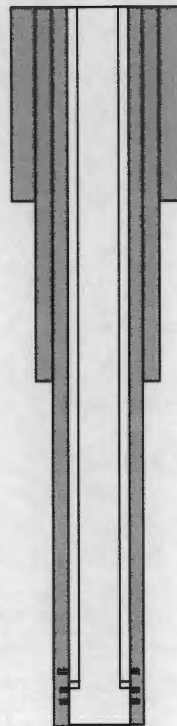
9 5/8" csg @ 5478'
w/1050sx cmt, circ

5 1/2" csg @ 12,100'
w/800sx cmt, circ

2 3/8" tubing @ 11,853'
Packer @ 11,853'

Perfs @ 11824-11828'
Perfs @ 11852-11855'
Perfs @ 11933-11941'

TD- 12,100'
PBTD- 12,024'



Ranch Hand 5 Fee Com #2
Sec. 5 T23S R27E
1167 FSL 1650 FEL
30-015-34013

13 3/8" csg @ 335'
w/ 550sx cmt, circ

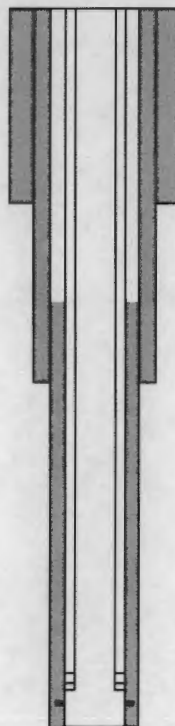
9 5/8" csg @ 5523'
w/ 2100sx cmt, circ

5 1/2" csg @ 12,145'
w/ 1800sx cmt, TOC @ 3470'

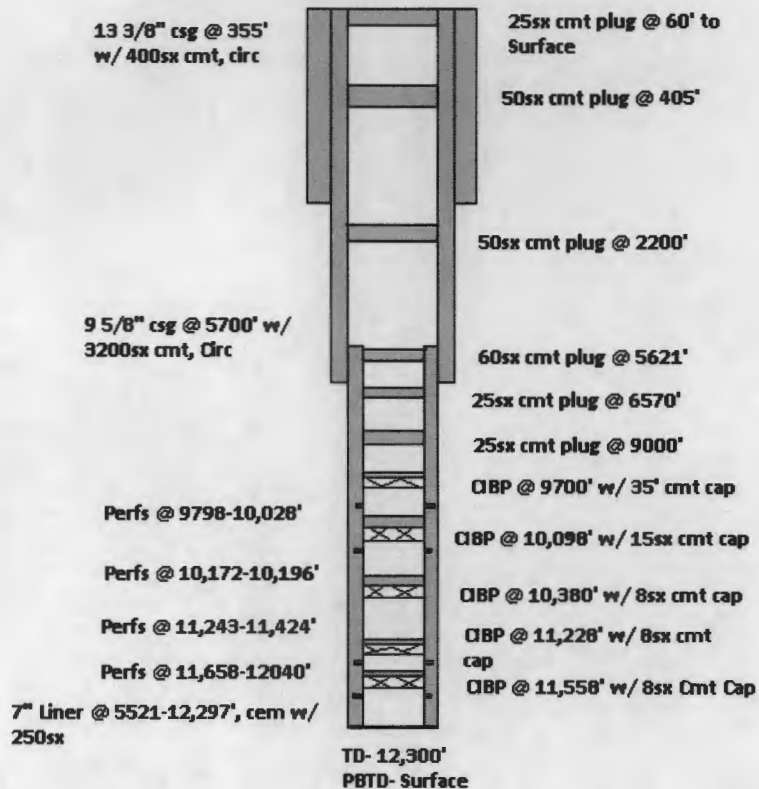
2 7/8" tubing @ 11,327'
Packer @ 11,294'

Perfs @ 11732-12042'

TD- 12,145'
PBD- 12,050'

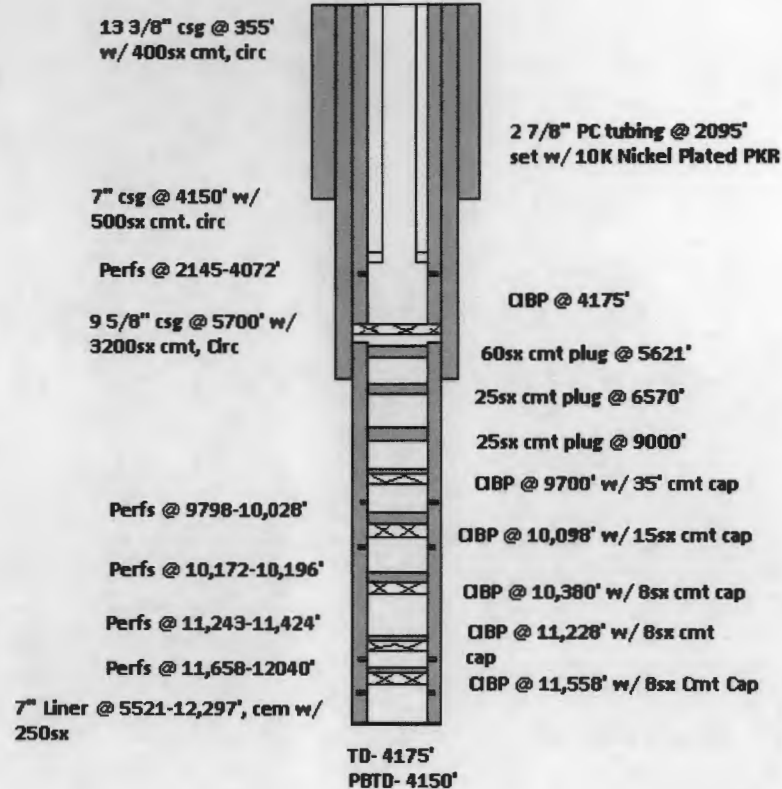


Before

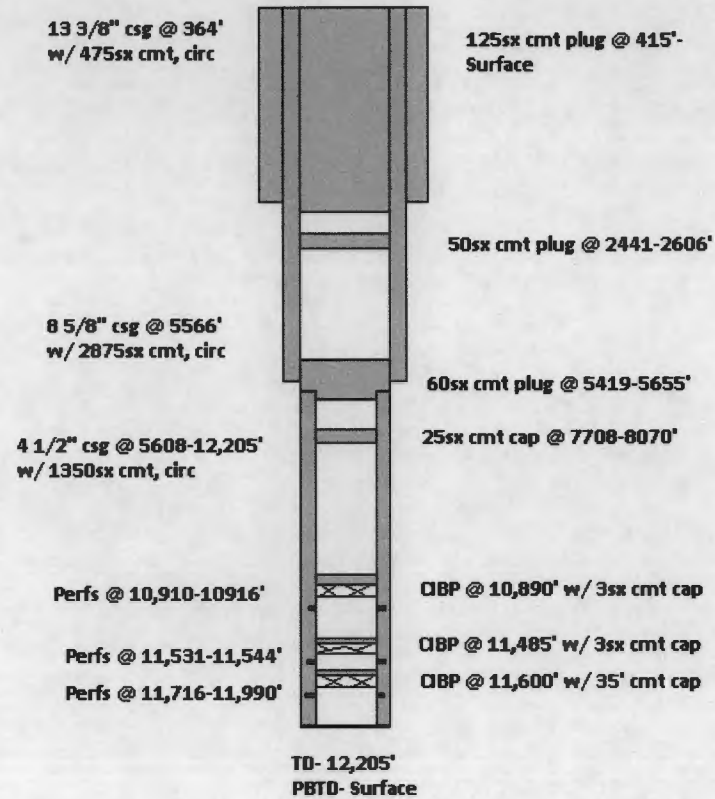


Canal SWD #1
Sec. 3 T23S R27E
2175 FSL 838 FWL
30-015-21064

After



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

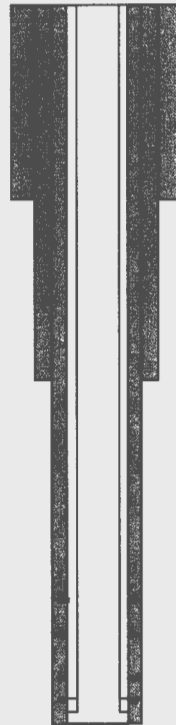


Derrick Fee #1
Sec. 4 T23S R27E
1675 FNL 700 FEL
30-015-40817

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



2 7/8" tubing @ 9080'
Pump @ 9080'

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

TD- 10,520'
PBTD- 10,477'



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 MDWK NM 3521-308 NM3
Location: FW #1 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:	592.8	16.72	Sodium:	80.3	3.49
Analyst:	Catalyst	Bicarbonate:	87.8	1.44	Magnesium:	75.5	6.21
TDS (mg/l or g/m3):	1704.3	Carbonate:			Calcium:	316.1	15.77
Density (g/cm3):	1.004	Sulfate:	460.0	9.58	Potassium:	59.7	1.53
Hydrogen Sulfide:	0				Strontium:	32.1	0.73
Carbon Dioxide:	0				Barium:	0.0	0.
Comments		pH at time of sampling:		7	Iron:	0.0	0.
		pH at time of analysis:			Manganese:	0.000	0.
		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	-0.67	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
Area: Artesia
Lease: Otis MDWC
Location: FW #2
Sample Point: Water line

Sample #: 16260
Analysis ID #: 17343

		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	
	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 MDWC *DWB # NM 3521300*
Location: FW #3 0
Sample Point: Water Line

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/10/2013	Chloride:	642.0	Sodium:	76.3
Analysis Date:	12/13/2013	Bicarbonate:	87.8	Magnesium:	74.9
Analyst:	Catalyst	Carbonate:		Calcium:	306.9
TDS (mg/l or g/m3):	1639.3	Sulfate:	360.0	Potassium:	59.5
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):	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 MDWC DWB # NM 3521308
Location: FW #4 0
Sample Point: Water Line

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	12/10/2013	Chloride:	605.2	Sodium:	75.8
Analysis Date:	12/13/2013	Bicarbonate:	87.8	Magnesium:	74.3
Analyst:	Catalyst	Carbonate:		Calcium:	312.5
TDS (mg/l or g/m3):	1667	Sulfate:	420.0	Potassium:	59.5
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):	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	
°F	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 NM 3521308 Analysis ID #: 17346
Lease: Otis MPWC
Location: FW #5 0
Sample Point: Water Line

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	12/10/2013	Anions			Cations		
Analysis Date:	12/10/2013	Chloride:		636.1	Sodium:		89.5
Analyst:	Catalyst	Bicarbonate:		66.8	Magnesium:		74.6
TDS (mg/l or g/m3):	1686.7	Carbonate:			Calcium:		309.7
Density (g/cm3):	1.004	Sulfate:		420.0	Potassium:		60.0
Hydrogen Sulfide:	0				Strontium:		32.1
Carbon Dioxide:	0				Barium:		0.0
Comments		pH at time of sampling:		7	Iron:		0.0
		pH at time of analysis:			Manganese:		0.000
		pH used in Calculation:		7	Conductivity (micro-ohms/cm):		1731
		Temperature @ lab conditions (F):		75	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 MDWC MM 3521308
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	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F										
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

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 Pit SWD #1 831 FNL & 1980 FWL of Section 4, T23S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon and Cherry Canyon formations at a disposal depth of 2117-3982'. Water will be injected at a maximum surface pressure of 423# 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., March, 5 2014 Legal No 22888.

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 Pit SWD #1 831 FNL & 1980 FWL of Section 4, T23S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon and Cherry Canyon formations at a disposal depth of 2117-3982'. Water will be injected at a maximum surface pressure of 423# 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 (505) 748-1288
Fax (505) 746-9549

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3541
RETURN RECEIPT REQUESTED

Myco Industries, Inc.
P.O. Box 840
Artesia, NM 88211

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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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

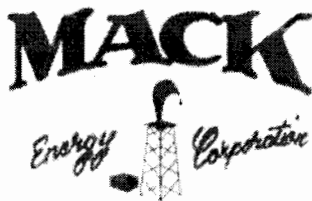
DW

Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ 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.		A. Signature ☐ Agent ☐ Address B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:	
1. Article Addressed to:			
Myco Industries, Inc. P.O. Box 840 Artesia, NM 88211			
2. Article Number (Transfer from service label)		3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
		4. Restricted Delivery? (Extra Fee) ☐ Yes	

7012 3460 0002 8734 3541

PS Form 3811, July 2013 Domestic Return Receipt



P.O. Box 900
Artesia, NM 88211-0900
Office (575) 748-1288
Fax (575) 746-9559

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3534
RETURN RECEIPT REQUESTED

Sharbaro Holdings, LLC
P.O. Box 840
Artesia, NM 88211

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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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

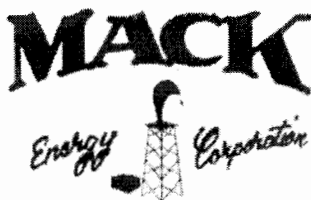
DW

Attachments

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- 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.		A. Signature ☐ Agent ☐ Addressee B. Received by (Printed Name) ☐ C. Date of Delivery D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
1. Article Addressed to: Sharbaro Holdings, LLC P.O. Box 840 Artesia, NM 88211		3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	

7012 3460 0002 8734 3534

PS Form 3811, July 2013 Domestic Return Receipt



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

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3527
RETURN RECEIPT REQUESTED

Legacy Royalty, LLC
P.O. Box 1091
Artesia, NM 88211

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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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 CORP.

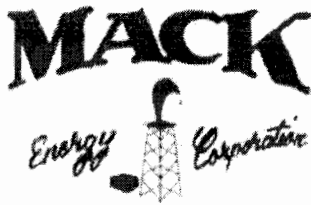
Deana Weaver
Deana Weaver
Production Clerk

DW

Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ 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.		A. Signature ☐ Agent ☐ Addressee <i>Frances Moreau</i> B. Received by (Printed Name) C. Date of Delivery <i>FRANCES MOREAU</i> D. Is delivery address different from item 1? ☐ Yes ☐ No Enter delivery address below:	
1. Article Addressed to:		3. Service Type	
Legacy Royalty, LLC P.O. Box 1091 Artesia, NM 88211		☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	
PS Form 3811, July 2013		Domestic Return Receipt	

7012 3460 0002 8734 3527



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

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3503
RETURN RECEIPT REQUESTED

MRC Permian Corporation
5400 LBJ Freeway, Suite 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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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 CORP

Deana Weaver
Deana Weaver
Production Clerk

DW

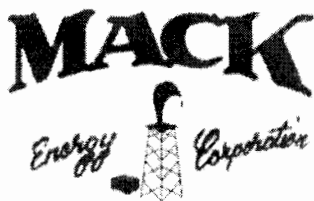
Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ 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.		A. Signature <i>x Ali Huskey</i> ☐ Agent ☐ Addressee	
1. Article Addressed to:		B. Received by (Printed Name) <i>Ali Huskey</i> C. Date of Delivery <i>3-7-14</i>	
MRC Permian Corporation 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
		3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) ☐ Yes	

7012 3460 0002 8734 3503

PS Form 3811, July 2013 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
1. Article Addressed to: Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202		A. Signature  B. Received by (Printed Name) J. GRIFFITH C. Date of Delivery 8/28/88	
2. Article Number (Transfer from service label)		3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
4. Restricted Delivery? (Extra Fee)		☐ Yes	



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 746-9559

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3497
RETURN RECEIPT REQUESTED

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

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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 T23S R27E, Eddy County.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCDD 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

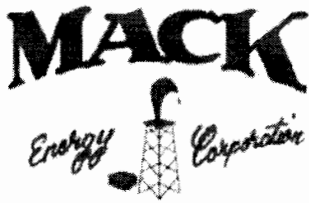
Deana Weaver
Deana Weaver
Production Clerk

DWM

Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ 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.		A. Signature <i>[Signature]</i> ☐ Agent ☐ Addressee B. Received by (Printed Name) <i>[Signature]</i> C. Date of Delivery <i>6/12/14</i> D. Is delivery address different from item 2? ☐ Yes ☒ No If YES, enter delivery address below:	
1. Article Addressed to: Devon Energy Production Company, LP 333 W. Sheridan Ave Oklahoma City, OK 73102		3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery	
2. Article Number (Transfer from service label) 7012 3460 0002 8734 3497		4. Restricted Delivery? (Extra Fee) ☐ Yes	

PS Form 3811, July 2013 Domestic Return Receipt



P.O. Box 960
Artesia, NM 88211-0960
Office (575) 748-1288
Fax (575) 740-9559

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3480
RETURN RECEIPT REQUESTED

Linn Energy Holdings, LLC
600 Travis Street, Ste 5100
Houston, TX 77002

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 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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

DWM

Attachments

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 Description

Linn Energy Holdings, LLC
600 Travis Street, Ste 5100
Houston, TX 77002

2. Article Number
(Transfer from service label)

7012 3460 0002 8734 3480

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x *[Signature]* ☐ Agent ☐ Address

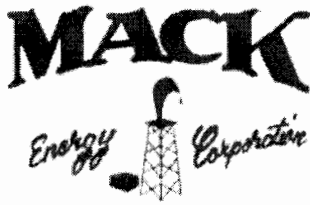
B. Received by (Printed Name) C. Date of Delivery
3/6/14

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

3. Service Type
☐ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchant
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

Domestic Return Receipt



P.O. Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

February 27, 2014

VIA CERTIFIED MAIL 7012 3460 0002 8734 3473
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 a Bell Canyon-Cherry Canyon SWD well. Produced water will be injected at a proposed depth of 2117-3982'. The Pit SWD #1 located 831 FNL & 1980 FWL, Sec. 4 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

DWM

Attachments

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ 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.		A. Signature X ☐ Agent ☐ Addressee	
1. Article Number Commissioner of Public Lands PO Box 1148 Santa Fe, NM 87504-1148		B. Received by (Printed Name) C. Date of Delivery MAR 10 2014	
2. Article Number (Transfer from service label)		D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No	
3. Service Type ☐ Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery		4. Restricted Delivery? (Extra Fee) ☐ Yes	

7012 3460 0002 8734 3473

PS Form 3811, July 2013 Domestic Return Receipt

Affidavit of Publication

No. 22888

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 March 5, 2014

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn before me this

5th day of March 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:

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 Pit SWD #1 831 FNL & 1980 FWL of Section 4, T23S R27E, NMPM, Eddy County, New Mexico. The water will be injected into the Bell Canyon and Cherry Canyon formations at a disposal depth of 2117-3982'. Water will be injected at a maximum surface pressure of 423# 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., March, 5 2014 Legal No 22888.

RECEIVED OOD
2014 MAR 12 P 3:05

Goetze, Phillip, EMNRD

From: Deana Weaver <dweaver@mec.com>
Sent: Friday, April 25, 2014 2:25 PM
To: Goetze, Phillip, EMNRD
Cc: Jerry Sherrell
Subject: PIt SWD #1
Attachments: pit swd 1.pdf

Phillip

Attached are revisions to Mack Energy's Pit SWD #1 application. We want to add 7" production casing and TD to 4200'.

Thank you

Deana Weaver
Mack Energy Corporation



C-108 Review Checklist:

Received 03/07/15 Add. Request: — Reply Date: — Suspended: — [Ver 13]PERMIT TYPE: WFX / PMX (SWD) Number: 1483 Permit Date: 05/15/14 Legacy Permits/Orders: NoneWell No. 1 Well Name(s): Pit SWD [changed from Missouri NM LND Com. No. 1]API: 30-0 15-20993 Spud Date: 11/03 to 12/03 New or Old: New (UIC Class II Primacy 03/07/1982)Footages 831 FNL/1980 FWL Loc 1003 Unit C Sec 4 Tsp 23S Rge 27E County EddyGeneral Location: South of Carlisbad; 4 mi E of Carlisbad AP Pool: P4A. Morrow/SWD: Delaware Pool No.: Bell & CherryBLM 100K Map: Carlisbad Operator: Mack Energy Corp. OGRID: 13037 Contact: Deanna WeaverCOMPLIANCE RULE 5.9: Total Wells: 370 Inactive: 2 Fincl Assur: OK Compl. Order? No IS 5.9 OK? OK Date: 05/15/14WELL FILE REVIEWED ☒ Current Status: P4A - Morrow; *current & proposed diagrams based on PI cardWELL DIAGRAMS: NEW: Proposed ☐ or RE-ENTER: Before Conv. ☒ After Conv. ☒ Logs in Imaging: Sonic & GR+NDPlanned Rehab Work to Well: Re-enter/drill out plugs/ log - perf. (no bottom plug on proposed)

Well Construction Details:	Sizes (in) Borehole / Pipe*	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned ☐ or Existing ☒ Surface	17 1/2 / 13 3/8	0 to 360	Stage Tool	400	Gr. to surface
Planned ☐ or Existing ☒ Intern/Prod	12 1/4 / 9 5/8	0 to 5600	None	2700	Gr. to surface
Planned ☐ or Existing ☒ Intern/Prod	? / 7	5397 to 12150	None	(+1925)unk	10L / 5397 / calc.
Planned ☐ or Existing ☒ Prod/Liner	— / 7	0 to 4200	—	1925	CBL / Gr to surf
Planned ☐ or Existing ☐ Liner	—	—	—	—	—
Planned ☒ or Existing ☐ OH (PERF)	12 1/4 / 9 5/8	2117 - 3982	Inj Length 1865	—	—

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.				Drilled TD <u>12150</u> PBTD <u>—</u> P4A* deepest
Confining Unit: Litho. Struc. Por.	ϕ	Lamar ls		NEW TD <u>—</u> NEW PBTD <u>4100</u> 1743'
Proposed Inj Interval TOP:	2117	Bell Canyon fm	2117	NEW Open Hole ☐ or NEW Perfs ☒
Proposed Inj Interval BOTTOM:	3982	Cherry Canyon fm	2827	Tubing Size <u>2 7/8</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.		Brushy Canyon	3982	Proposed Packer Depth <u>2067</u> ft
Adjacent Unit: Litho. Struc. Por.		Bone Springs	5428	Min. Packer Depth <u>2017</u> (100-ft limit)
				Proposed Max. Surface Press. <u>423</u> psi
				Admin. Inj. Press. <u>423</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ☒ Noticed? NA BLM Sec Ord 16 WIPP ☒ Noticed? NA SALT/SALADO T: 1036 B: 1725 CLIFF HOUSE NAFRESH WATER: Aquifer Shallow alluvial / good production Max Depth <200' HYDRO AFFIRM STATEMENT By/Qualified Person ☒NMOSE Basin: Carlisbad CAPITAN REEF: thru ☐ adj ☐ NA ☒ No. City wells within 3 miles 54 FW Analysis ☒ 4Disposal Fluid: Formation Source(s) Bone Spring / Delaware Analysis? Yes On Lease ☐ Operator Only ☒ or Commercial ☐Disposal Int: Inject Rate (Avg/Max BWPD): — Protectable Waters? No Source: Produced water to north System: Closed ☐ or Open ☐HC Potential: Producing Interval? No Formerly Producing? No Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map ☒AOR Wells: 1/2-M Radius Map? Yes Well List? 16 Total No. Wells Penetrating Interval: 8 Horizontals? 0Penetrating Wells: No. Active Wells 7 Num Repairs? 0 on which well(s)? — Diagrams? NAPenetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? — Diagrams? NANOTICE: Newspaper Date 03/05/14 Mineral Owner Fee Surface Owner Fee N. Date 02/27/2014RULE 26.7(A): Identified Tracts? Yes Affected Persons: MRC Permian / Dawn Energy / Reed & Stevens / Linn / SLO / Shabana / Betty / Kecher / Legon / Kuyper N. Date 02/27/2014Permit Conditions: Issues: *Verify construction; no bottom plug; logs to District & BureauAdd Permit Cond: CIBP at 200' below lowest perf; Shallow w/logs



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	6416 4	Sec	Tws	Rng	X	Y	Distance
C 03274	C	DOM		3 FRANCISCO FRENANDEZ	ED	C 03274			Shallow	4	4	3	33	22S	27E	350
C 02433	C	DOL		3 GARY L SEAL	ED	C 02433			Shallow	4	3	3	33	22S	27E	449
C 02412	C	DOM		3 GARY L SEAL	ED	C 02412			Shallow	2	3	3	33	22S	27E	611
C 02696	C	DOM		3 WALKER STEWART	ED	C 02696			Shallow	1	3	3	33	22S	27E	732
C 00515	C	IRR		72 MARCELINO B. LOPEZ	ED	C 00515			Shallow	3	4	4	33	22S	27E	790
C 03013	C	DOL		3 JUDY K NORMAN	ED	C 03013			Shallow	4	1	3	33	22S	27E	798
C 01670	C	DOM		3 CHARLES AUGUSTUS	ED	C 01670				4	4	2	05	23S	27E	848
C 02533	C	DOM		0 TOM MOOTS	ED	C 02533				1	4	3	33	22S	27E	939
C 03476	C	DOM		1 FLORENCE GOLDEN	ED	C 03476	POD1			2	2	2	04	23S	27E	951
C 02970	C	DOL		3 RICK CALDERON	ED	C 02970			Shallow	3	4	4	32	22S	27E	963
C 03190	C	DOL		3 RUDY LOPEZ	ED	C 03190				2	2	4	05	23S	27E	973
C 03098	C	DOL		0 PATRICIA M MCCOLLAUM	ED	C 03098				3	4	2	05	23S	27E	1019
C 00098 A		IRR		12 BINDEL HERBERT C	ED	C 00098 A-S-2			Shallow	4	4	2	04	23S	27E	1025
C 00281	C	DOM		0 HERBERT C. BINDEL	ED	C 00281				4	4	2	04	23S	27E	1025
C 00310		IRR		372 NEW MEXICO INTERSTATE STREAM COMMISSION	ED	C 00098 A-S-2			Shallow	4	4	2	04	23S	27E	1025
C 00400	C	DOL		3 HERBERT C. BINDEL	ED	C 00400			Shallow	4	4	2	04	23S	27E	1025
C 00644		IRR		23.25 OTIS MDWC & SWA	ED	C 00644			Shallow	3	2	4	33	22S	27E	1032
C 03653	C	DOL		3 FRANK H. LOPEZ	ED	C 03653	POD1			4	2	4	05	23S	27E	1037

*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 03718	C	PRO	0	MACK ENERGY CORP	ED	C 00098 AS			3	3	4	04	23S	27E	1042
C 03719	C	PRO	0	MACK ENERGY CORP	ED	C 00098 AS			3	3	4	04	23S	27E	1042
C 03070	C	DOM	0	JERRY BURKETT	ED	C 03070			1	4	4	32	22S	27E	1048
C 02230	C	DOM	3	FLOYD YOUNG	ED	C 02230	Shallow			33	22S	27E	575742	3579340*	1053
C 02233	C	DOM	0	OSCAR E. EMISON	ED	C 02233				33	22S	27E	575742	3579340*	1053
C 02449	C	DOM	3	RALPH MAXWELL	ED	C 02449	Shallow			33	22S	27E	575742	3579340*	1053
C 03066	C	DOM	3	CLIFTON E BARKER	ED	C 03066			1	1	3	33	22S	27E	1065
C 01973	C	DOM	3	DAVID MALEY	ED	C 01973	Shallow		1	1	1	03	23S	27E	1128
C 03504	C	DOM	1	MICHAEL W. PORTER	ED	C 03504 POD1	Shallow		2	3	4	32	22S	27E	1141
C 00546	C	DOM	3	JOSE SUBIA	ED	C 00546	Shallow		1	3	1	03	23S	27E	1149
C 00191		IRR	315	MARTHA W. SKEEN	ED	C 00191 S			4	4	1	33	22S	27E	1152
C 03074	C	DOL	3	GEORGE BARTA	ED	C 03074	Shallow		4	3	1	33	22S	27E	1184
C 00098		IRR	405.39	JAMES B KENNEY	ED	C 00098	Shallow		1	3	3	04	23S	27E	1185
					ED	C 00109	Shallow		1	3	3	04	23S	27E	1185
C 00109		IRR	405.39	MONTIE BUNCH	ED	C 00098	Shallow		1	3	3	04	23S	27E	1185
					ED	C 00109	Shallow		1	3	3	04	23S	27E	1185
C 00109 ENL		IRR		KENNEY THELMA SUE BARRETT	ED	C 00098	Shallow		1	3	3	04	23S	27E	1185
					ED	C 00109	Shallow		1	3	3	04	23S	27E	1185
C 00310		IRR	372	NEW MEXICO INTERSTATE STREAM COMMISSION	ED	C 00098	Shallow		1	3	3	04	23S	27E	1185
C 03056	C	DOL	3	BRANTLEY BROTHERS	ED	C 03056	Shallow		1	3	3	04	23S	27E	1185
C 00191		IRR	315	MARTHA W. SKEEN	ED	C 00191	Shallow		3	3	2	33	22S	27E	1191
C 01971	C	DOM	3	O J MCCARTY	ED	C 01971	Shallow		1	1	03	23S	27E	1220	3/4 mi.

*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
<u>C 01989</u>	C	DOL		3 WINSTON BALLARD	ED	<u>C 01989</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 02146</u>	C	DOM		3 ROCKY JIMENEZ	ED	<u>C 02146</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 02148</u>	C	DOM		3 DON CHESTER	ED	<u>C 02148</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 02150</u>	C	DOM		3 CHARLES THOMPSON JR.	ED	<u>C 02150</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 02154</u>	C	DOM		3 DENNIS HELLON	ED	<u>C 02154</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 02166</u>	C	DOM		3 HENRY WALTERSCHEID JR.	ED	<u>C 02166</u>			Shallow	1	1	03	23S 27E	576762	3578354*	1220
<u>C 01623</u>	C	DOL		0 RONNIE MARTIN	ED	<u>C 01623</u>				1	3	34	22S 27E	576659	3578855*	1244
<u>C 03012</u>	C	DOL		0 DON MCKIDDEN	ED	<u>C 03012</u>				3	3	1	33 22S 27E	575035	3579449*	1251
<u>C 00215</u>		IRR		95.1 RAFAEL MEDRANO	ED	<u>C 00215</u>			Shallow	4	3	2	33 22S 27E	576044	3579458*	1257
<u>C 03290</u>	C	DOM		1 BART SMITH	ED	<u>C 03290</u>			Shallow	1	3	34	22S 27E	576714	3578778	1264
<u>C 01700</u>	C	DOL		3 BILL TAYLOR	ED	<u>C 01700</u>			Shallow	3	3	34	22S 27E	576760	3578756*	1298
<u>C 01801</u>	C	DOL		3 LEE R GRAYSTON	ED	<u>C 01801</u>			Shallow	3	3	34	22S 27E	576760	3578756*	1298
<u>C 00098 A</u>		IRR		12 BINDEL HERBERT C	ED	<u>C 00098 A</u>				3	3	4	04 23S 27E	575859	3577036	1308
					ED	<u>C 00098 A-S</u>				3	3	4	04 23S 27E	575859	3577036*	1308
<u>C 03646</u>	C	PRO		0 MACK ENERGY CORP	ED	<u>C 00098 A</u>				3	3	4	04 23S 27E	575859	3577036	1308
<u>C 03647</u>	C	PRO		0 MACK ENERGY CORP	ED	<u>C 00098 A</u>				3	3	4	04 23S 27E	575859	3577036	1308
<u>C 03680</u>	C	PRO		0 MACK ENERGY CORP	ED	<u>C 00098 A</u>				3	3	4	04 23S 27E	575859	3577036	1308
<u>C 01976</u>	C	DOM		3 EFREN B COLLINS	ED	<u>C 01976</u>				3	1	2	05 23S 27E	574236	3578224*	1308
<u>C 03093</u>	C	DOM		0 MITCHELL D WILLIAMS	ED	<u>C 03093</u>				3	1	2	05 23S 27E	574236	3578224*	1308
<u>C 00287</u>		IRR		101.4 JOHN & SALLY RHODES	ED	<u>C 00287</u>			Shallow	3	1	3	34 22S 27E	576657	3579061*	1346
<u>C 02710</u>	C	DOL		3 TREY GREENWOOD	ED	<u>C 02710</u>			Shallow		4	05	23S 27E	574550	3577318*	1399
<u>C 03273</u>	C	DOL		0 BILLY KIRKES	ED	<u>C 03273</u>				1	4	4	05 23S 27E	574649	3577221*	1404

*UTM location was derived from PLSS - see Help

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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)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance
C 00323	C	DOL		0 U.L. WILLIS	ED	C 00323				4	4	05	23S	27E		574750	3577122*	1423
C 02711	C	DOL		3 ROSS KIRKES	ED	C 02711			Shallow	4	4	05	23S	27E		574750	3577122*	1423
C 03020	C	DOM		3 O R DAKAN	ED	C 03020			Shallow	4	4	05	23S	27E		574750	3577122*	1423
C 03043	C	DOL		3 AVELINA CHILDRESS	ED	C 03043			Shallow	2	3	3	34	22S	27E	576859	3578855*	1427
C 00296	C	DOM		0 ANGEL LOPEZ	ED	C 00296				1	4	05	23S	27E		574345	3577519*	1432
C 00193	IRR		3.048	COUNTRY ACRES, INC.	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
					ED	C 00193 S				1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 A	IRR			18 H.G. PEVELER	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 B	IRR			0 ROY THOMASON	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMB	IRR		39.258	COUNTRY ACRES INC.	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBB	IRR			15 OTIS WATER USERS COOPERATIVE	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBC	IRR			3 ORLANDO & OLIVIA G. FLOREZ	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBD	IRR			3 COUNTRY ACRES, INC.	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBE	IRR			3 PHILLIP L. & CELESTE K. STONE	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBF	IRR			3 CHARLES T. & CHARLENE M. MOOTS	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBG	IRR			3 ROY & RITA BROOKS	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBH	IRR		47.37	ROBERT & BETTY RUSSELL	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBI	IRR		46.92	CHARLES E. & NANCY ELLEN VAN ZANT REVOCABLE TRUST UTA	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBJ	IRR		40.5	PATRICK L. & FAYE WILSON	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMBK	IRR		7.356	MICHAEL LYNN ROGERS	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436
C 00193 COMDK	IRR		7.356	MICHAEL LYNN & ANNA COLLE ROGERS	ED	C 00193			Shallow	1	3	1	33	22S	27E	575035	3579649*	1436

TD
190' turbine - 1000 gpm

NM 3521308

*UTM location was derived from PLSS - see Help

(acre ft per annum)						
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number
C 00343 AA		MDW	36.21	OTIS WATER USER'S CO-OPERATIVE	ED	C 00193
C 03212	C	DOL	0	MIKE W SUGGS	ED	C 03212
C 00176		IRR	0	LOPEZ ANGELA	ED	C 00176
C 00071		IRR	422.34	HENRY R. OR DELORES WALTERSCHIED	ED	C 00071
C 02262	C	DOM	3	TOMMY ALFORD	ED	C 02262
C 02392	C	DOM	3	JEANNA R DOUBRAVA	ED	C 02392
C 03738	C	STK	3	AMBER HUGHES	ED	C 03738 POD1
C 00759		IRR	33.84	ALBERT & ELLEN WAGNER	ED	C 01172
C 00759 A		IRR	25.86	THOMAS W. & LEALA R. DAVIS	ED	C 01172
C 00759 AA		IRR	11.4	GARY & PAMALA FLETCHER	ED	C 01172
C 00759 AB		IRR	15.3	ELDON D & WHITNEY B. PRUETT	ED	C 01172
C 00759 AC		IRR	15.6	MARK & JEANNA S. ADAMO	ED	C 01172
C 00759 C		IRR	345	RUSTLER HILLS II LIMITED PARTNERSHIP	ED	C 01172
C 00759 CA		IRR	184.5	BRANTLEY BROTHERS	ED	C 01172
C 01172		IRR	3	I. V. CROLEY	ED	C 01172
C 00193		IRR	3.048	COUNTRY ACRES, INC.	ED	C 00343
C 00193 COMB		IRR	39.258	COUNTRY ACRES INC.	ED	C 00343
C 00193 COMBC		IRR	3	ORLANDO & OLIVIA G. FLOREZ	ED	C 00343
C 00193 COMBD		IRR	3	COUNTRY ACRES, INC.	ED	C 00343
C 00193 COMBE		IRR	3	PHILLIP L. & CELESTE K. STONE	ED	C 00343
C 00193 COMBF		IRR	3	CHARLES T. & CHARLENE M. MOOTS	ED	C 00343
C 00193 COMBG		IRR	3	ROY & RITA BROOKS	ED	C 00343

(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)

Code Grant	Source	6416 4	q q q	Sec	Tws	Rng	X	Y	Distance
	Shallow	1	3	1	33	22S 27E	575035	3579649*	1436
		1	1	3	34	22S 27E	576657	3579261*	1468
		1	1	4	05	23S 27E	574244	3577618*	1468
	Shallow	2	1	3	03	23S 27E	576865	3577649*	1476
	Shallow	4	2	32	22S 27E	574732	3579544*	1480	
	Shallow	4	2	33	22S 27E	576350	3579564*	1495	
		1	1	3	34	22S 27E	576746	3579283	1551
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	3	4	3	34	22S 27E	577064	3578661*	1562
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S 27E	574427	3579437*	1588

*UTM location was derived from PLSS - see Help

(acre ft per annum)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number
C 00193 COMBH		IRR	47.37	ROBERT & BETTY RUSSELL	ED	C 00343
C 00193 COMBI		IRR	46.92	CHARLES E. & NANCY ELLEN VAN ZANT REVOCABLE TRUST UTA	ED	C 00343
C 00193 COMBJ		IRR	40.5	PATRICK L. & FAYE WILSON	ED	C 00343
C 00193 COMBK		IRR	7.356	MICHAEL LYNN ROGERS	ED	C 00343
C 00193 COMDK		IRR	7.356	MICHAEL LYNN & ANNA COLLE ROGERS	ED	C 00343
C 00343		IRR	0	CLAUDE L. SMITH	ED	C 00343
C 02841	C	DOM	0	SUZANNE C BYRD	ED	C 02841

(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)

Code Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	Distance
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
	Shallow	4	3	2	32	22S	27E	574427	3579437*	1588
		1	1	4	32	22S	27E	574230	3579231*	1605

Record Count: 112

POD Search:

POD Basin: Carlsbad

UTMNAD83 Radius Search (in meters):

Easting (X): 575542.13

Northing (Y): 3578305.18

Radius: 1609

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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