

WVJ

PTG/PWJ 11244EP/1451

DATE: 8.8.11	SUSPENSE	ENGINEER: DB	LOGGED IN: 8.8.11	TYPE: SWD	APP NO: 422057516
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260737

ABOVE THIS LINE FOR DIVISION USE ONLY

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



BOPCO

AUG - 8 A 10:14
 ND "19" Federal SWD #1

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U S Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sandra J. Belt Sandra J. Belt Sr. Regulatory Clerk 8-4-11

Print or Type Name Signature Title Date

Sjbelt@basspet.com

e-mail Address

BEPCO, L.P.
P. O. Box 2760
Midland, Texas 79702

432-683-2277

FAX: 432-687-0329

August 5, 2011

**Re: Notice of Application for Authorization
to Complete this well as a SWD Well
ND "19" Federal SWD #1
Eddy County, New Mexico
File: 100-WF: ND19FedSWD1.C108**

Oil Conservation Division
Attention: William Jones
1220 S. St. Francis
Santa Fe, New Mexico 87505

Mr. Jones:

Enclosed please find BEPCO, L.P.'s **Application for Authorization to Drill and Complete** this well for disposal purposes only into the ND 19 Federal SWD, #1 Located in Section 19, T24S, R30E, Eddy County, New Mexico.

The subject well is on Federal land and a complete copy of the application has been sent to the BLM's Carsbad office via Certified Mail, Cert #7160-3901-9846-4321-5476. Please find a copy of the notice attached. I will provide a copy of the signed receipt card when it returns.

If additional information is required, please contact Sandra J. Belt at the letterhead address, phone number or via email at sjbelt@basspet.com.

Sincerely,



Sandra J. Belt
Sr. Regulatory Clerk

sjb
Attachments

CC: BLM

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE : _____ Secondary Recovery _____ Pressure Maintenance Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: BOPCO, L.P.

ADDRESS : P O Box 2760 Midland Tx 79702

CONTACT PARTY : Sandra J. Belt ext. 149 PHONE : (432)683-2277

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.
Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____ Yes 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 geological data on the injection zone including appropriate lithologic detail, geological 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 fresh water from two or more fresh water 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 source 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: Sandra J. Belt ext. 149 TITLE: Sr. Regulatory Clerk

SIGNATURE: Sandra J. Belt DATE: 08/05/2011

E-MAIL ADDRESS: sjbelt@basspet.com

* If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include: *Attached*

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

III. Well Data

A. 1) Lease name: ND "19" Federal SWD
 Well #: 1
 Section: 19
 Township: T24S
 Range: 30E
 Footage: 516' FNL & 705' FEL

2) Casing Info:

Casing size	Set depth	Sacks cmt	Hole size	TOC	Method
30", 157.68#, X52, PE	80		36"	Surface	Circulated
20, 94#, J-55, BTC	750	1575	26"	Surface	Circulated
13-3/8", 68#, HC55, BTC	3,485	2,725	17-1/2"	Surface	Circulated
9-5/8", 53.50#, L-80, LT&C **	11,000	1,475	17-1/4"	Surface	Circulated
7-5/8", 39#, HCL-80, FJ **DV Tool @ 5,500'	10,700-15,575	5,625	8-1/2"	TO T.O.L.	Circulated

- 3) Tubing to be used (size, lining material, setting depth):
 4-1/2" 12.75#, L-80, RTS-8 IPC tbg set @ 15,500'.
- 4) Name, model, and depth of packer to be used:
 4-1/2" Baker FA Lokset Nickel Plated EXT/INT PC Pkr set @ 15,500'.

- B. 1) Name of the injection formation and, if applicable, the field or pool name:
Devonian
- 2) The injection interval and whether it is perforated or open hole:
Open hole from 15,572 - 16,275 O.H.
- 3) State if the well was drilled for injection or, if not, the original purpose of the well:
Newly drilled well for injection.
- 4) Give the depths of any other perforated intervals and detail on the sacks of cement or BPs used to seal off such perforations:
NA
- 5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any:
Higher: Bone Spring - 7,282' Lower: None

C-108 DATA

- 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 wells type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

There are not wells that penetrate the proposed injection zone.

- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected: **20,000 average, 25,000 maximum BWPD**
 2. Whether the system is open or closed: **closed**
 3. Proposed average and maximum injection pressure: **3,114 psi average, 2,000 psi maximum**
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water: **Water will be produced from same reservoir (Devonian).**
 5. If injection is for disposal purposes into a zone not productive of oil & gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water: **N/A**

- 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 TDS 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:

Lithologic Detail Carbonate

Geological Name Devonian

Thickness: 703'

Depth: 15,572 - 16,275'

The Rustler Formation is a known source of fresh water throughout this geographic area. Average depth of Rustler is 148-540'. No sources of fresh water are known to exist below the proposed disposal zone.

- IX. Describe the proposed stimulation program, if any:
The open hole section from 15,572-16,275' will be acidized with approximately 50 gallons 15% NEFE HCl per foot for a total of 35,150 gallons.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
Logs will be submitted. This will be a newly drilled well.
- XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
No known fresh water wells within one mile of proposed well, however, there is a stock tank (livestock watering) in Section 19. This stock tank is getting water from a water well in Sec. 7 approximately 2 miles north at well #158.
- 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 hydrology connection between the disposal zone and any underground sources of drinking water.
Applicant hereby affirms that he has examined the available geologic and engineering data and finds no evidence of open faults, or other hydrologic connection between the disposal zone and any underground source of drinking water.

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Kathy McCarroll, being first duly sworn, on oath says:

That she is the Classified Supervisor of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

<u>July 8</u>	<u>2011</u>
<u>July 9</u>	<u>2011</u>
<u>July 10</u>	<u>2011</u>

That the cost of publication is **\$126.02** and that payment thereof has been made and will be assessed as court costs.

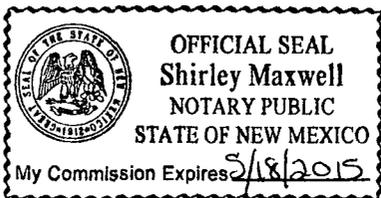
Kathy McCarroll

Subscribed and sworn to before me this

13th day of July, 2011

Shirley Maxwell

My commission expires May 18, 2015
Notary Public



July 8, 9, and 10, 2011

NOTICE OF APPLI- CATION FOR SALT WATER DISPOSAL WELL PERMIT

BOPCO, L.P. has applied to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water into a porous formation not productive of oil or gas.

The applicant proposes to dispose of produced water into the ND #19 Federal SWD #1 (Devonian Formation). The proposed disposal well is located 9 miles East of Malaga, New Mexico in Section 19, T24S, R30E, and Eddy County, New Mexico. The produced salt water will be disposed at a subsurface depth of 15,572' - 16,275'.

Any questions concerning this application should be directed to Sandra J. Belt, Senior Regulatory Clerk, BOPCO, L.P., P.O. Box 2760, Midland, Texas 79702-2760; (432) 683-2277.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St Francis Dr., Santa Fe, New Mexico 87505 within 15 days.

RECEIVED

JUL 15 2011

BOPCO WTD PRODUCTION

ROB COCHRAN CONSULTING, INC.**'COST EFFECTIVE OPERATIONS THROUGH CHEMICAL PROGRAM OPTIMIZATION'**P.O. BOX 2154
MIDLAND, TEXAS 79702ROB COCHRAN
OILFIELD & INDUSTRIAL CHEMICAL CONSULTANTOFFICE: (432) 520-5810
HOME: (432) 694-9870
MOBILE: (432) 557-7877

WATER ANALYSIS REPORT

Report for : Michael Lyon	Date sampled : 3-24-05
cc : Bass Enterprises	Date reported : 3-29-05
cc : Escudero	Field, lease or well : PLU 213
cc : Escudero	County : Eddy State : New Mexico
Company : Bass Enterprises	Formation :
Address : Midland Texas	Depth :
Service Engineer : Larry Rippee	Submitted by : Mike Rippee

CHEMICAL COMPOSITION :

mg/L

Chloride (Cl)	118000	
Iron (Fe)	45	
Total Hardness	8600	
Calcium (Ca)	1523	
Magnesium (Mg)	1166	
Bicarbonates (HCO3)	597	
Carbonates (CO3)	0	
Sulfates (SO4)	2120	
Hydrogen sulfide (H2S)	0	
Sodium (Na)	73896	
Total dissolved solids	197304	
Specific Gravity		1.121
Density (#/gal.)		9.342
pH		6.90

Poker Lake Unit #213
Delaware

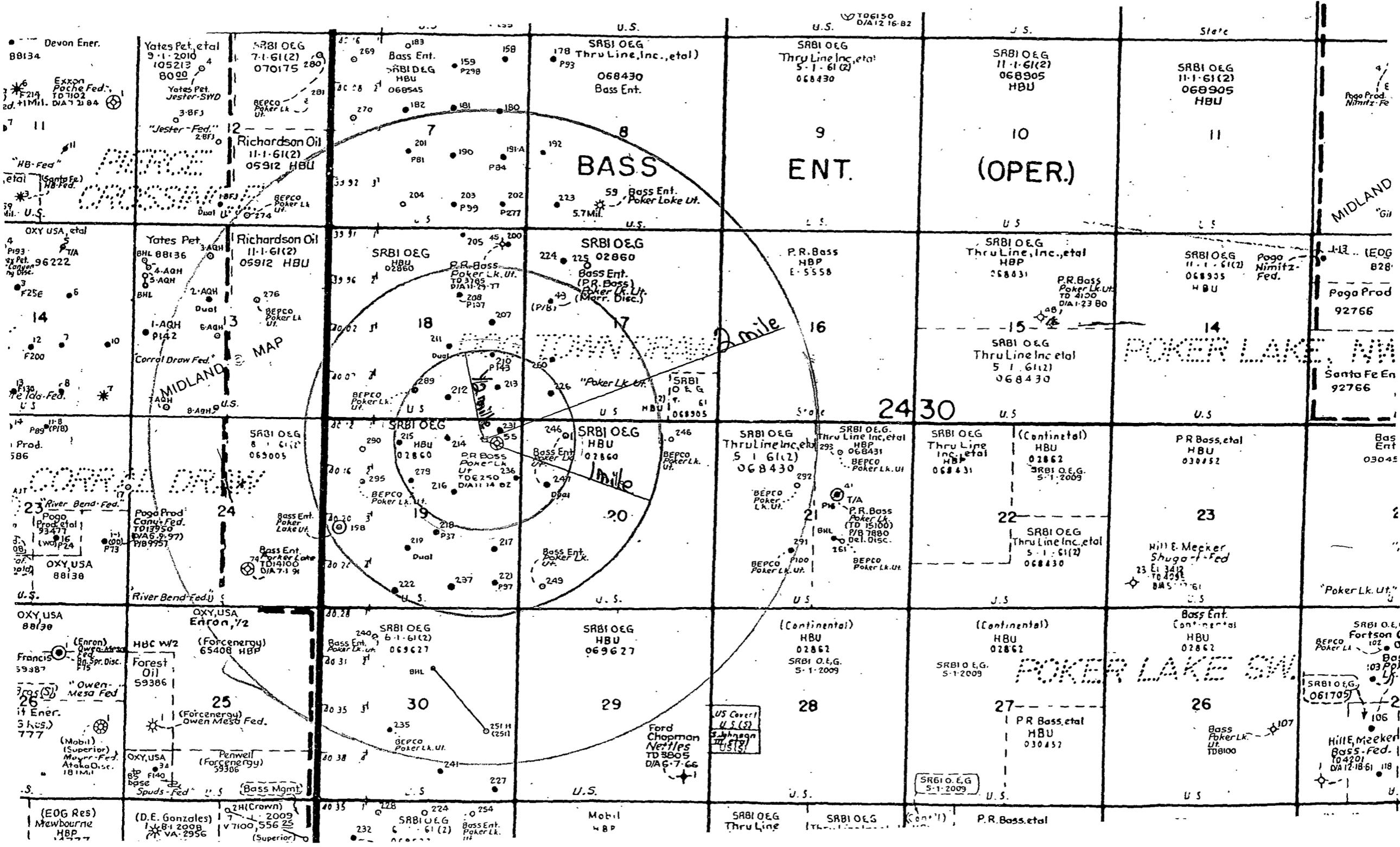
CaCO3 Stability Index :

86 F =	.67
104 F =	.9
122 F =	1.16
140 F =	1.45
176 F =	2.12

CaSO4 Sol. @ 82 F = 6066

CaSO4 Present = 3004

Comments: Carbon dioxide = 420
Resistivity: .0467 Ohm-meters @70°F



BASS

ENT.

(OPER.)

POKER LAKE, MI

MIDLAND

MIDLAND

MAP

1 mile

2430

POKER LAKE SW

Hill, Meeker Bass-Fed.

US Const. U.S. (S) Johnson U.S. (S)

Ford Chapman Nettles TD 3805 DIA 6-7-66

SRBI O.E.G. 5-1-2009

Bass Pogo Lk. Ut. TD 8100

Hill, Meeker Bass-Fed. TD 4201 DIA 12-18-61

SRBI O.E.G. 061705

SRBI O.E.G. Fortson (HBU) 102

"Poker Lk. Ut."

Bas Ent. 03045

PROPOSED WELLBORE DIAGRAM

Lease: ND "19" Federal SWD Well No.: 1
 Injection
 Reservoir: Devonian
 Location: 516' FNL & 705' FEL S19-T24S-R30E
 County: EDDY St: NM API: 30-015-

Surface Csg.

Size: 20"
 Wt 94#
 Grd J-55, BTC
 Set @: 750'
 Sxs cmt: 1575
 TOC: Surface
 Hole Size: 26"

Intermediate Csg.

Size: 13 3/8"
 Wt 68#
 Grd HC-55, BTC
 Set @: 3485'
 Sxs Cmt: 2725
 TOC: Surface
 Hole Size: 17 1/2"

Production Csg.

Size: 9 5/8"
 Wt 53.5#
 Grd L-80, LT&C
 Set @: 11,000'
 Sxs Cmt: 6575
 TOC: Surface
 Hole Size: 17 1/4"

Liner

Size: 7 5/8"
 Wt 39#
 Grd HCL-80, FJ
 Set @: 10,700' - 15,575'
 Sxs Cmt: 525
 TOC: 10,700'
 Hole Size: 8 1/2"

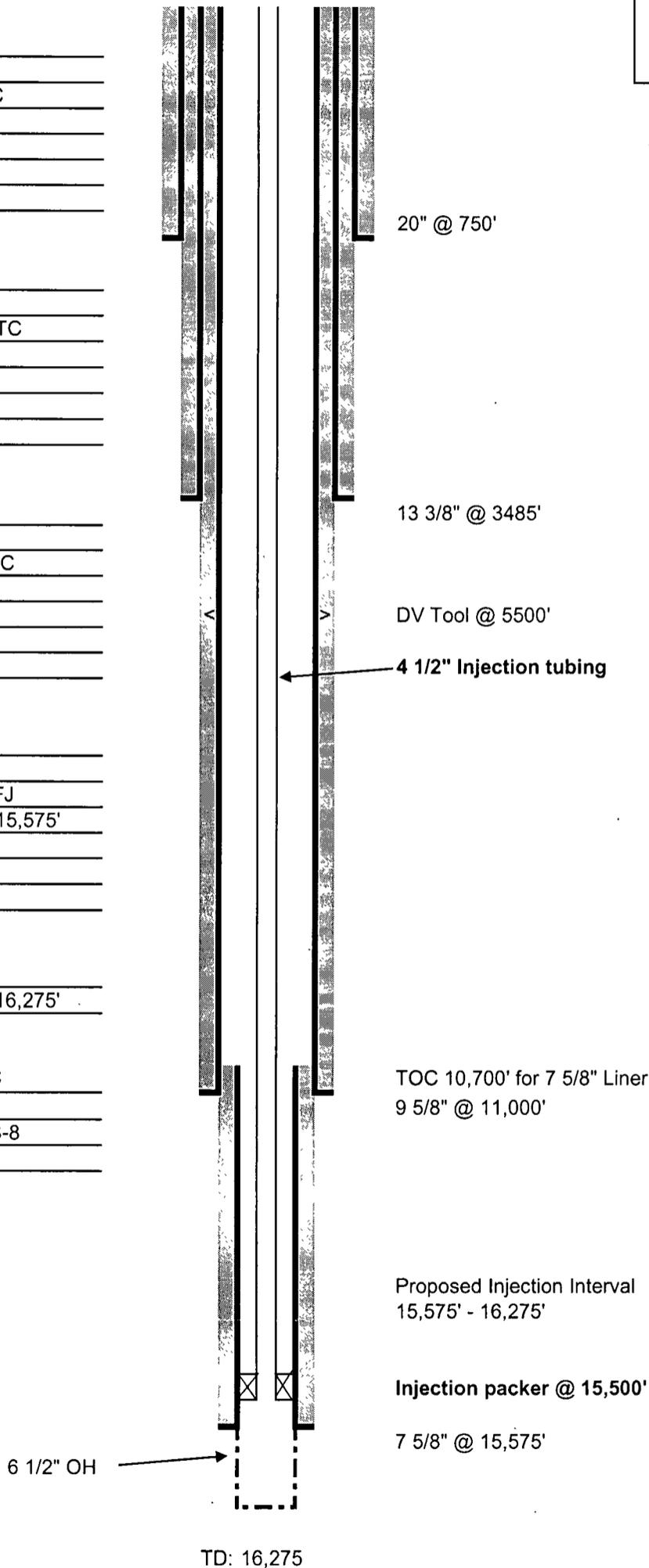
Open Hole

Size: 6 1/2"
 Depth: 15,575' - 16,275'

Tubing

Size: 4 1/2" IPC
 Wt 12.75#
 Grd L-80, RTS-8
 Set @: 15,500'

Elevation GL:
Elevation KB:
Spud:
Completed



Updated: 8/4/2011
 Author: crm
 Engr: CCC

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Wednesday, August 10, 2011 3:54 PM
To: 'Belt, Sandra J.'; Cruz, Carlos
Cc: Ezeanyim, Richard, EMNRD; Gray, Darold, EMNRD; Dade, Randy, EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from BOPCO, LP: proposed ND 19 Fed SWD #1 (30-015-NA) Devonian open hole

Hello Sandra,

Just received this and looked it over.

All generally seems fine, but as usual I have a couple requests...

- a. There were no notices sent out except to the BLM as surface owner of the well site. Is BOPCO the lessee (or controller of each lease) of all lands at Devonian depths within ½ mile of this location?
- b. Would you let me know what your geologists predict as
 - a. the top of the Devonian
 - b. the bottom of the Devonian (or the top of the Silurian?)
 - c. the top and bottom of the Salado in this area.
- c. You sent a Delaware water analysis. Is this the only formation that will contribute waste waters to be disposed into this well? If there are others, please send a water analysis from each.
- d. Would you please ask your geologists to send a quick writeup on the prospective for the Devonian in this area – how confident are they that it is not productive? Sometimes there are deeper faults that could thrust it up, etc.
- e. Will there be a mudlogging crew while drilling the Devonian? Or how else will it be evaluated?

Another note... I checked the inactive wells for BOPCO, L.P. and it stands as 5 inactive out of about 414 operated wells. 5 is the limit for operators of this size. Be sure you let your folks know that if any new well shows up on this list, it will preclude approval of any disposal applications.

Thank You,

Will Jones
New Mexico
Oil Conservation Division
Images Contacts

Jones, William V., EMNRD

From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Wednesday, August 10, 2011 4:02 PM
To: Jones, William V., EMNRD
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: proposed ND 19 Fed SWD #1 (30-015-NA) Devonian open hole

Thanks Will. We had 6 wells on it; one is plugged and was taken off; another has been plugged but hasn't been removed yet; I sent a completion in on one and 1 other is fixing to be converted to a disposal well. So hopefully all will be taken care of in a week or so. I will get your questions answered and back to you as soon as I can. Have a good one.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Wednesday, August 10, 2011 4:54 PM
To: Belt, Sandra J.; Cruz, Carlos
Cc: Ezeanyim, Richard, EMNRD; Gray, Darold, EMNRD; Dade, Randy, EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from BOPCO, LP: proposed ND 19 Fed SWD #1 (30-015-NA) Devonian open hole

Hello Sandra,
Just received this and looked it over.
All generally seems fine, but as usual I have a couple requests...

- a. There were no notices sent out except to the BLM as surface owner of the well site. Is BOPCO the lessee (or controller of each lease) of all lands at Devonian depths within ½ mile of this location?
- b. Would you let me know what your geologists predict as
 - a. the top of the Devonian
 - b. the bottom of the Devonian (or the top of the Silurian?)
 - c. the top and bottom of the Salado in this area.
- c. You sent a Delaware water analysis. Is this the only formation that will contribute waste waters to be disposed into this well? If there are others, please send a water analysis from each.
- d. Would you please ask your geologists to send a quick writeup on the prospective for the Devonian in this area – how confident are they that it is not productive? Sometimes there are deeper faults that could thrust it up, etc.
- e. Will there be a mudlogging crew while drilling the Devonian? Or how else will it be evaluated?

Another note... I checked the inactive wells for BOPCO, L.P. and it stands as 5 inactive out of about 414 operated wells. 5 is the limit for operators of this size. Be sure you let your folks know that if any new well shows up on this list, it will preclude approval of any disposal applications.

Thank You,

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

Jones, William V., EMNRD

From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Thursday, September 01, 2011 6:53 AM
To: Jones, William V., EMNRD
Cc: Cruz, Carlos
Subject: RE: Disposal application from BOPCO, LP: proposed ND 19 Fed SWD #1 (30-015-NA) Devonian open hole

Good morning Will. I believe we have all the data that you need for the disposal application. I will be forwarding you an e-mail from our Geologist, Brian Pregger with the rest of the information. Please let me know of anything further you might need and I will get it to you. Thanks and you have a nice day.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Wednesday, August 10, 2011 4:54 PM
To: Belt, Sandra J.; Cruz, Carlos
Cc: Ezeanyim, Richard, EMNRD; Gray, Darold, EMNRD; Dade, Randy, EMNRD; Kautz, Paul, EMNRD; Sanchez, Daniel J., EMNRD
Subject: Disposal application from BOPCO, LP: proposed ND 19 Fed SWD #1 (30-015-NA) Devonian open hole

Hello Sandra,
Just received this and looked it over.
All generally seems fine, but as usual I have a couple requests...

- a. There were no notices sent out except to the BLM as surface owner of the well site. Is BOPCO the lessee (or controller of each lease) of all lands at Devonian depths within ½ mile of this location?
Per Andy Morrison, land dept., BOPCO is the only one within the ½ mile radius. ✓
- b. Would you let me know what your geologists predict as
 - a. the top of the Devonian
 - b. the bottom of the Devonian (or the top of the Silurian?)
 - c. the top and bottom of the Salado in this area. Brian Pregger - E-mail sent separately. ✓
- c. You sent a Delaware water analysis. Is this the only formation that will contribute waste waters to be disposed into this well? If there are others, please send a water analysis from each. Per Carlos Cruz the Delaware and Avalon only. ✓
- d. Would you please ask your geologists to send a quick writeup on the prospective for the Devonian in this area – how confident are they that it is not productive? Sometimes there are deeper faults that could thrust it up, etc. Brian Pregger - E-mail sent separately. ✓
- e.
- f. Will there be a mudlogging crew while drilling the Devonian? Or how else will it be evaluated? Per Carlos Cruz - Yes – mud logger from surface to T.D. (every 10'). ✓

Another note... I checked the inactive wells for BOPCO, L.P. and it stands as 5 inactive out of about 414 operated wells. 5 is the limit for operators of this size. Be sure you let your folks know that if any new well shows up on this list, it will preclude approval of any disposal applications. Brian Pregger - E-mail sent separately.

Thank You,

Will Jones
New Mexico
Oil Conservation Division
[Images](#) [Contacts](#)

Jones, William V., EMNRD

From: Belt, Sandra J. [SJBelt@BassPet.Com]
Sent: Thursday, September 01, 2011 6:54 AM
To: Jones, William V., EMNRD
Cc: Cruz, Carlos
Subject: FW: BOPCO ND 19 Federal SWD #1 Info for BLM

Will, here is the rest of the information you requested. Have a nice day.

From: Pregger, Brian
Sent: Monday, August 29, 2011 1:40 PM
To: Belt, Sandra J.
Subject: BOPCO ND 19 Federal SWD #1 Info for BLM

Sandra:

The requested information pertaining to the geology of the proposed BOPCO ND 19 Federal SWD #1 well is summarized below.

Top of Devonian: 15,572' MD -12,365' SS
Top of Silurian Fusselman: 16,442' MD -13,235' SS

Top of Rustler: 297' MD +2,910' SS
Top of Salado Formation (BLM): 417' MD +2,790' SS
Top of salt: 753' MD +2,454' SS
Base of Salado (top of Castile): 1,965' MD +1,242' SS
Base of Castile (top of Lamar): 3,469' MD -262' SS

Seismic mapping indicates that the top of the Devonian in the area of the proposed ND 19 Federal SWD #1 well is characterized by monoclinial dip to the ESE, and no structural closure exists in which hydrocarbons would be trapped. Four wells within a six mile radius of the subject well have penetrated the Devonian; no hydrocarbons were found in the Devonian in these wells. These wells are:

Mobil Corral Draw Unit No. 1 1980' FSL & 1980' FWL, Sec 14, T25S-R 29E
Richardson and Bass Harrison Federal No. 1 660' FNL & 660' FWL, Sec 12, T25S-R 30E
Skelly Cedar Canyon No. 1 770' FSL & 770' FEL, Sec 9, T24S-R 29E
Texaco Remuda Basin 24 State No. 1 750' FSL & 1900' FWL, Sec 24, T23S-R 29E

Brian H. Pregger
BOPCO, L.P.
201 Main St., Suite 2900
Fort Worth, TX 76102

bpregger@basspet.com
817-390-8662

Injection Permit Checklist (11/15/2008)

WFX _____ PMX _____ SWD 1300 Permit Date 9/15/11 UIC Qtr (U) (A) (S)

Wells 1 Well Name(s): ND 19" Fed SWD #1

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

Footages: 516 FUL / 705 FEL Unit A Sec 19 Tsp 245 Rge 30E County EDDY

General Location: 9 mi E. of MALAGA (8 mi SW of WIPP)

Operator: BOPCO, L.P. Contact: Sandra J. Ball

OGRID: 260737 RULE 5.9 Compliance (Wells) 5414 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed Current Status: _____

@ LIMIT

Planned Work to Well: _____

Diagrams: Before Conversion _____ After Conversion Elogs in Imaging File: New well

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Surface	36	30	80			
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Inter	26	20	750		1575	CIRC
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> LongSt	17 1/2	13 1/8	3485		2725	CIRC
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Liner	8 1/2	7 5/8	11,000	5500'	1475	CIRC
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> OpenHole			10,700 - 15575		5625	CIRC

Depths/Formations: Depths, Ft. Formation Tops?

Formation(s) Above	<u>15572</u>	<u>DEV</u>	<input checked="" type="checkbox"/>
Injection TOP:	<u>15575</u>	<u>Dev</u>	Max. PSI <u>3114</u> OpenHole <input checked="" type="checkbox"/> Perfs _____
Injection BOTTOM:	<u>16275</u>	<u>Dev</u>	Tubing Size <u>4 1/2</u> Packer Depth <u>15500'</u>
Formation(s) Below	<u>16442</u>	<u>SILURIAN</u>	<input checked="" type="checkbox"/>

Caprock: _____ (Potash? _____ Noticed? _____) WIPP? _____ Noticed? _____ Salado Top/Bot 297-417 Off House? _____

Fresh Water: Depths: 148-540 Formation Rustler Wells? 0 Analysis? _____ Affirmative Statement

Disposal Fluid Analysis? Sources: DEL / AVALON

Disposal Interval: Analysis? _____ Production Potential/Testing: NO TRAP, OTHERS are wet

Notice: Newspaper Date 7/15/11 Surface Owner BLM Mineral Owner(s) _____

RULE 26.7(A) Affected Persons: Only BOPCO Here

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

.....Active Wells 0 Repairs? _____ Which Wells? _____

.....P&A Wells 0 Repairs? _____ Which Wells? _____

Issues: _____ Request Sent _____ Reply: _____