Say

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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

| TI | HIS CHECKLIST IS M | ANDATORY FOR ALL ADMINISTRATIVE APPLICA | | RULES AND REGULATIONS |
|---------|-------------------------|--|---|---|
| Appli | cation Acronym | WHICH REQUIRE PROCESSING AT T | HE DIVISION LEVEL IN SANTA FE | |
| | | indard Location] [NSP-Non-Standard I | Proration Unit] [SD-Simultaneo | us Dedication] |
| | _ | nhole Commingling] [CTB-Lease Co | | 0 01 |
| | [PC-Po | ool Commingling] [OLS - Off-Lease S | | _ |
| | | [WFX-Waterflood Expansion] [PMX- [SWD-Salt Water Disposal] [IPI | • | ionj |
| | [EOR-Qua | lified Enhanced Oil Recovery Certifica | | on Response] |
| F13 | TOURE OF A | DDI ICATIONI CI I TI MILITA | -5 ans | |
| [1] | [A] | PPLICATION - Check Those Which A Location - Spacing Unit - Simultaneo | apply for [A] Pench | ssie. De traise |
| | [A] | □ NSL □ NSP □ SD | openi | ssion Petroleum Hing, LLC 71753 |
| | Check | k One Only for [B] or [C] | 3. | 71753 |
| | [B] | Commingling - Storage - Measureme | ent | well |
| | | ☐ DHC ☐ CTB ☐ PLC [| □ PC □ OLS □ OLM | 13 \$ B #4 |
| | [C] | Injection - Disposal - Pressure Increa ☐ WFX ☐ PMX ☒ SWD | se - Enhanced Oil Recovery IPI | 13 \$ 5 # 4 30-015-2842 Pod -Subject School And |
| | [D] | Other: Specify | | -Sup Cisture An |
| [2] | NOTIFICAT | CONDECTION Charle There | Which Apple and Day Not A | 91190 |
| [2] | [A] | TION REQUIRED TO: - Check Those Working, Royalty or Overriding | | oply 1618Y |
| | [B] | Offset Operators, Leaseholders | or Surface Owner | |
| | [C] | Application is One Which Requi | ires Published Legal Notice | |
| | [D] | Notification and/or Concurrent A U.S. Bureau of Land Management - Commissione | Approval by BLM or SLO r of Public Lands, State Land Office | |
| | [E] | For all of the above, Proof of No | tification or Publication is Attac | hed, and/or, |
| | [F] | Waivers are Attached | | |
| [3] | SUBMIT AC OF APPLICA | CURATE AND COMPLETE INFOR ATION INDICATED ABOVE. | RMATION REQUIRED TO P | ROCESS THE TYPE |
| [4] | CERTIFICA | TION: I hereby certify that the information | ation submitted with this applica | tion for administrative |
| appro | val is accurate a | and complete to the best of my knowled equired information and notifications are | ge. I also understand that no ac | tion will be taken on this |
| | Note: | Statement must be completed by an individu | al with managerial and/or supervisory | capacity. |
| Ber | Stone | | Agent Percussion Petroleur | m Oper'tng, LLC 1/19/2018 |
| Print o | or Type Name | Signature | Title | Date |
| | | | ben@sosconsulting.u | s |



Cuality Service

January 19, 2018

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Attn: Acting Director

Re: Application of Percussion Petroleum, LLC to permit for salt water disposal its B&B Well No.4, located in Section 22, Township 19 South, Range 25 East, NMPM, Eddy County, New Mexico.

Dear Sir or Madam,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to permit for disposal, the B&B No.4. Percussion selected this well for private disposal of produced water coming from their operations in the area. We would point out that while the Cisco formation has in the past been productive in the area, all existing wells have been recompleted uphole into the Glorieta and Yeso formations. Percussion and EOG Resources are the primary operators in the area; the proposed interval was selected based on conversations with EOG geology and engineering staff.

Percussion Petroleum seeks to optimize efficiency, both economically and operationally, of its operations in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice will run on January 20, 2018 in the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit will be forwarded when received. This application also includes a wellbore schematic, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on private land and minerals. There are no state or BLM lands/ minerals within the ½ mile radius notice area.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner SOS Consulting, LLC

Agent for Percussion Petroleum, LLC

Cc: Application attachment and file

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. New Mexico 87505

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

| 1. | PURPOSE: | Salt Water Disposal and the application QUALIFIES for administrative application | roval. |
|----|----------|--|--------|
| | | | |

II. OPERATOR: Percussion Petroleum Operating, LLC
ADDRESS: 919 Milam, Ste.2475, Houston, TX 77002

CONTACT PARTY: Agent: SOS Consulting, LLC - Ben Stone (903) 488-9850

- III. WELL DATA: All well data and applicable wellbore diagrams are ATTACHED.
- IV. This is not an expansion of an existing project.
- V. A map is attached 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. A tabulation is attached of data on all wells of public record within the area of review which penetrate the proposed injection zone.

 There are 8 Wells (2 P&A) in the subject AOR which penetrate the target interval. The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail.
- VII. The following data is ATTACHED 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;
 - Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 - 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. Appropriate geologic data on the CISCO and CANYON formations is ATTACHED 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. Stimulation program a conventional acid job may be performed to clean and open the formation.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). Existing well logs are on file with OCD.
- *XI. There are 3 domestic water wells within one mile of the proposed salt water disposal well. Analyses will be forwarded.
- XII. An affirmative statement is ATTACHED that available geologic and engineering data has been examined and no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. "Proof of Notice" section on the next page of this form has been completed and ATTACHED. There are 2 offset lessees and/or operators within ½ mile; Well location and minerals are PRIVATE.
- 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: Ben Stone TITLE: SOS Consulting, LLC agent for Percussion Petroleum Operating, LLC
SIGNATURE: DATE: 1/19/2018

E-MAIL ADDRESS: ben@sosconsulting.us

^{*} 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:

FORM C-108 - APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

III. WELL DATA - The following information and data is included (See ATTACHED Wellbore Schematic):

- 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 the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE pursuant to the following criteria is ATTACHED.

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:

- (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, New Mexico 87505, within 15 days.

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

C-108 - Items III, IV, V

Item III - Subject Well Data

- 1. Wellbore Schematic CURRENT
- 2. Wellbore Schematic PROPOSED

Item IV - Tabulation of AOR Wells

Tabulation includes all construction data for all wells within a one-half mile Radius of the subject well and which penetrate the proposed interval.

Item V – Area of Review Maps

- 1. Two Mile AOR Map with One-Mile Fresh Water Well Radius
 - 2. One-Half Mile AOR Map

All Above Exhibits follow this page.

CURRENT WELLBORE DIAGRAM

| API# | | 30-015-2843 | | | | County, ST | Eddy County, NM |
|-----------------------------------|----------------------|--------------------|---|------------------|-------------------|---|--|
| erator | | Prove Upper P | | B&B 22 | #4 | Sec-Twn-Rng Footage | 22-19S-25E 660' FNL and 1980' FE |
| d Date | Dagger | 1/3/1997 | erm, regrui | | | Survey | 1 DOCT THIS TALL COO |
| Bone Sp Wolfcamp Fosco/Cany | p 5891' yon 7646' | | RKB 3486' GL 3471' Hole Size 14-3/4" TOC surf Method circreturns Csg Depth 1120' Size 9-5/8" Weight 36ppf Grade J55 Connections STC Cement 1100sx | | 11 | 7685'-7730', 7738'-4 3/11/1997 Break down perfs w, 4bbls 15%NEFE acid Acidize 7777'-90' w/ 1.3SG ball sealers, gr | e of thg w/ 7bbls xylene + 19bb Canyon from 7659'-7676', 8', 7777'-90'. (PPI tools at 8' intervals w/ per setting. Set pkr at 7769', 24bbls 15%NEFE acid w/ 100 bod ball action, ATP 2kpsi at ISIP Is higher than ATP??). 18- Obwpd, 450mcfpd. g. wpd+140mcfpd. |
| Jts : | Size Depth | Tubing n Length | Detail Detail | DV Tool at 6028' | H | | |
| | | | | | | | |
| | | | | | | | |
| Rods | Size Depth | Rod D | | | 769 769 773 | Perforations 59'-7676' (Cisco/Canyon): 3/10/ 55'-776' (Cisco/Canyon): 3/11/ 35'-7730' (Cisco/Canyon): 3/10/ 77'-7790' (Cisco/Canyon): 3/10/ | 1997 w/ 4" gun 2 jspf (CNL/LDT 1997 w/ 4" gun 2 jspf (CNL/LDT 1997 w/ 4" gun 2 jspf (CNL/LDT |
| | | | | | | | |
| | | | Hole Size 8-3/4" TOC surf Method drc returns Csg Depth 8200' Size 7" Weight 23/26ppf Grade N80/K55 | | | | |

PBTD TD MD TD TVD

2/9/2017 MM

Last Update

8115' 8206'

8206'



SA: 948

GLOR: 2351

3RD BS: 5561

CSCO: 7646

_1000

2000

WELL SCHEMATIC - PROPOSED B&B Well No.4 SWD

API 30-015-28430

660' FNL & 1980' FEL, SEC. 22-T19S-R25E EDDY COUNTY, NEW MEXICO

Annulus Monitored

or open to atomosphere

Annulus Loaded

w/ Inert Packer Fluid

GROSS

INJECTION INTERVAL

(7654'-8023')

8200

LOG STRIP

1120'

SWD; Cisco-Canyon (96186)

Spud Date: 1/03/1997 Config SWD Dt (Est): ~3/15/2

Injection Pressure Regulated and Volumes Reported 1530 psi Max. Surface (0.2 psi/ft)

Surface Casing

9.625", 36.0# J-55 STC Csg. (14.75" Hole) @ 1120' 1100 sx - Circulated to Surface

Percussion Petroleum

Convert to SWD: Pull all production equipment.

Perforate Specific Intervals; Acidize.

Run PC Tubing and PKR - Conduct MIT.

Commence Disposal Operations.

4.5° IC Tubing (or smaller)
PKR ~7554'+

Perfs need to be squeezed

Note: PRK Set 100' Above Final Uppermost Perf Interval.

Production Casing

7.0", 23.0/ 26.0# N-80/ K-55 Csg. (8.75" Hole) @ 8200' 1250 sx - Circulated

Specific Perf Intervals To Be Determined
Between Max Top 7654' and Max Bottom 8023'

Org. CSCO Perfs: 7659'-7790'

PBTD 8115'

DTD @ 8206'

Drewn by Ben Stone, 1/19/2018
SOS Consulting, LLC

Form C-108 Item VI - Tabulation of AOR Wells

| | Top of Proposed CISCO Interval 7654' | | | oc | Wells Pen | etrate Pri | 8 Wells Penetrate Proposed Interval | Jr. | |
|------------------|---|---|------------------|--------------|-------------|---------------|-------------------------------------|---------------------------------|---|
| 104 | Campanet December | And the same | Intell ate | | . Lauren | Contract | 111 C'70 | Danet. | of any O |
| Subject Well | | מא פון אמון | | 306 | | | | | |
| 30-015-28430 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | සන්ස | #004 | Jio | Private | Active | B-22-195-25E | 8200, | |
| | | | | | | | | | |
| Section 22 wells | Silver | | | | | | | | |
| 30-015-43810 | [25575] EOG Y RESOURCES, INC. | APOLLO APU FEDERAL COM | H900# | io | Federal | New | B-22-19S-25E | 2570' TVD | |
| 30-015-28375 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | ROSS RANCH 22 | #003 | Oil | Private | Active | C-22-19S-25E | *8070 | |
| | | GLOR/YESO Perfs: 2295'-2779'; *PBTD 3771'; 9.625" (14.75" hole) @ 1117' w/ 950 sx - Circ.; 7.0" (8.75" hole) @ 8070' w/ 850 sx - Circ. | ; 9.625" (14.7 | S" hole) @ | 1117' W/9 | 50 sx - Circ | .; 7.0" (8.75" ho | le) @ 8070' W. | / 850 sx - Circ. |
| 30-015-44382 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | GOODMAN 22 | #001H | Oil | Private | New | C-22-195-25E | 2850° TVD | |
| 30-015-44383 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | GOODMAN 22 | #002H | lio | Private | New | C-22-19S-25E | 2880° TVD | |
| 30-015-28380 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | ROSS RANCH 22 | #00# | Gas | Private | Active | F-22-19S-25E | *8190 | |
| | | GLOR/VESO Perfs: 2320'-3038'; *PBTD 3782'; 9.625" (14.75" hole) @ 1112' w/ 1100 sx - Circ. 111 sx; 7.0" (8.75" hole) @ 8190' w/ 1200 sx - Circ. | 14.75" hole) (| 9 1112' W/ | 1100 sx - C | irc. 111 sx; | 7.0" (8.75" hole |) @ 8190' w/ | 1200 sx - Circ. |
| 30-015-22466 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | 888 | #001 | lio | Private | Active | Private Active G-22-19S-25E | *9484 | |
| GLOR/YESO Pe | GLOR/YESO Perfs: 2519'-3780'; *PBTD 3876'; 13.375" (17.5" hole) @ 327' w/325 sx - Circ.; 8.625" (12.25" hole) @ 1200' w/750 sx - Circ.; 4.5" (7.875" hole) @ 9484' w/ 1025 sx - Circ.; RAN 5.5" @ | 327' w/ 325 sx - Circ.; 8.625" (12.25" hole) @ 1200' w/ | / 750 sx - Circ. | ; 4.5" (7.87 | 5" hole) @ | 9484' w/ 1 | .025 sx - Circ.; R. | | 3985' W/ 800 sx. |
| 30-015-44161 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | B&B 22 | #012 | lio | Private | Active | G-22-195-25E | 3993, | |
| | | GLOR/YESO Perfs: 2996'-3106'; 8.625" (11.0" hole) @ 825' w/ 751 sx - Circ; 5.5" (7.875" hole) @ 3993' w/ 620 sx - Circ. | 7; 8.625" (11. | O" hole) @ | 825' W/75. | 1 sx - Circ.; | 5.5" (7.875" ho | le) @ 3993' W. | / 620 sx - Circ. |
| 30-015-28431 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | 8 8 8 | #007 | IIO | Private | Active | H-22-195-25E | *8164 | |
| | | GLOR/YESO Perfs: 2347'-2787'; *PBTD 3926'; 9.625" (14.75" hole) @ 1300' w/ 775 sx - Circ.; 7.0" (8.75" hole) @ 8100' w/ 950 sx - Circ. | ; 9.625" (14.7 | S" hole) @ | 1300' W/7. | 75 sx - Circ | .; 7.0" (8.75" ho | le) @ 8100' w, | 1950 sx - Circ. |
| 30-015-28432 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | 8 % 8 | 600# | iio | Private | | Active J-22-195-25E | *8280 | |
| | | GLOR/YESO Perfs: 2308:2752; *PBTD 3972'; 9.625" (14.75" hole) @ 1138' w/ 1200 sx - Circ; 7.0" (8.75" hole) @ 8280' w/ 1350 sx - Circ. | .625" (14.75" | hole) @ 11 | 38' W/ 120 |) sx - Circ.; | 7.0" (8.75" hole |) @ 8280' W/ | 1350 sx - Circ. |
| 30-015-44366 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | GOODMAN 22 | #004H | iio | Private | New | K-22-19S-25E | ,0 | |
| | | | | | | | NEW - NOT D | RILLED - WILL N | NEW - NOT DRILLED - WILL NOT PENETRATE. |
| Section 15 wells | Si | | | | | | | | |
| 30-015-00150 | [214263] PRE-ONGARD WELL OPERATOR | PRE-ONGARD WELL | #001 | IIO | | P&A | J-15-195-25E | Ö | 1/1/1901 |
| | | | | | | | NO WE | NO WELL FILE ON RECORD; NO DATA | DRD; NO DATA |
| 30-015-28558 | [25575] EOG Y RESOURCES, INC. | BOYD BN | #005 | IIO | Private | P&A | J-1S-19S-25E | 8350 | 11/20/2006 |
| | | | | | | | | SEE P&A V | SEE P&A WELL DIAGRAM. |
| 30-015-28628 | [371755] PERCUSSION PETRO. OPER'TNG, LLC | OSAGE BOYD 15 | #004 | iio | Private | Active | Active N-15-19S-25E | *8150 | |
| | | GLOR/YESO Perfs: 2371:3074; *PBTD 3465'; 9.625" (14.75" hole) @ 1127' w/ 1150 sx - Circ; 7.0" (8.75" hole) @ 8150' w/ 1125 sx - Circ. | .625" (14.75" | hole) @ 11 | 27' W/115 |) sx - Circ.; | 7.0" (8.75" hole |) @ 8150' w/ | 1125 sx - Circ. |
| 30-015-29501 | [25575] EOG Y RESOURCES, INC. | BOYD BN | 900# | iio | Private | P&A | 0-15-19S-25E | 8218' | 11/13/2006 |
| | | | | | | | | SEE P&A V | SEE P&A WELL DIAGRAM. |

SUMMARY: 8 wells in 1/2 mile radius penetrate proposed disposal interval. 2 P&As.



C-108 ITEM VI – AOR WELL INFORMATION

Plugged Well Schematics

FIELD: WELL NAME: Boyd BN #2___ LOCATION: 1,980' FSL & 1,980' FEL of Section 15-19S-25E Eddy Co., NM GL: 3,456' ZERO:____ **KB**: 3,471' SPUD DATE: 9/1/95 COMPLETION DATE: 9/26/95 CASING PROGRAM **COMMENTS**: API No.: 30-015-28558 9-5/8" 36# J55 STC 1,165 7" 26# N80 366' Cement Plug 0-150' w/ 7" 26# J55 906' 25 sx cmt 7" 23# J55 3,722' 7" 26# J55 2,623' 7" 26# J55 733' 8,350' 14-3/4" Hole After Cement Plug 1,065-1,215 w/ 25 sx cmt 9-5/8" @ 1,165' w/1,150 sx cmt Cement Plug 2,222-2,372' w/25 sx TOPS: SA 767 8-3/4" Hole Glorieta 2,372' BS 3,931' Cement Plug 3,863-4,013' w/25 sx Wolfcamp 5,654 cmt U. Penn 7,610' Cement Plug 5,504-5,654' w/25 sx cmt MERCHANTA LA CIBP @ 7,686' capped w/35' cmt Canyon Perfs: 7,726-7,820' (35) Not to Scale 3/28/00 DC/Hill

7" @ 8,350' w/ 1,300 sx (Circ)

FC: 8,305'

TD: 8,350'

WELL NAME: Boyd BN #6

FIELD: Dagger Draw

14-3/4"

Hole

9-5/8" 1,165' w/1.200 sx (Circ)

LOCATION: 660' FSL & 1,780' FEL of Section 15-19S-25E

Eddy Co., NM

GL: 3,469' **ZERO**:

KB:___ 3,483'

SPUD DATE: 12/29/97 COMPLETION DATE: 1/27/98

CASING PROGRAM

COMMENTS: API No.: 30-015-29501

| | | 9-5/8" 36# J |
|------------|----------------------|------------------------------|
| | 50 sx Plug 0'-150' | 7" 26# J55 |
| | | 7" 23# J55 7" 26# J55 |
| TOC = 200' | Squeeze perfs @ 150' | 7" 26# J55 S 7" 26# N80 S |
| | | |

| 9-5/8" 36# J55 ST0 | | <u>1,165'</u> |
|--------------------|--------|---------------|
| | | |
| 7" 26# J55 | 576' | |
| 7" 23# J55 | 4,889' | |
| 7" 26# J55 | 1,998' | |
| 7" 26# J55 SB | 82' | |
| 7" 26# N80 SB | 686' | 8,218' |
| | | |

After

TOPS

SA 772' Glorieta 2,100' BS 3,897 Wolfcamp 6,622' Canyon 7,654

25 sx Plug 1,100'-1,250'

25 sx Plug 1,950-2,100'

25 sx Plug 3,747-3,897'

25 sx Plug 6,472-6,622'

8-3/4" Hole

CIBP @ 7,699' capped w/35' cmt

Canyon Perfs: 7,749-7,788' (12) Canyon Perfs; 7,820-7,841' (10)

TD 8,218'

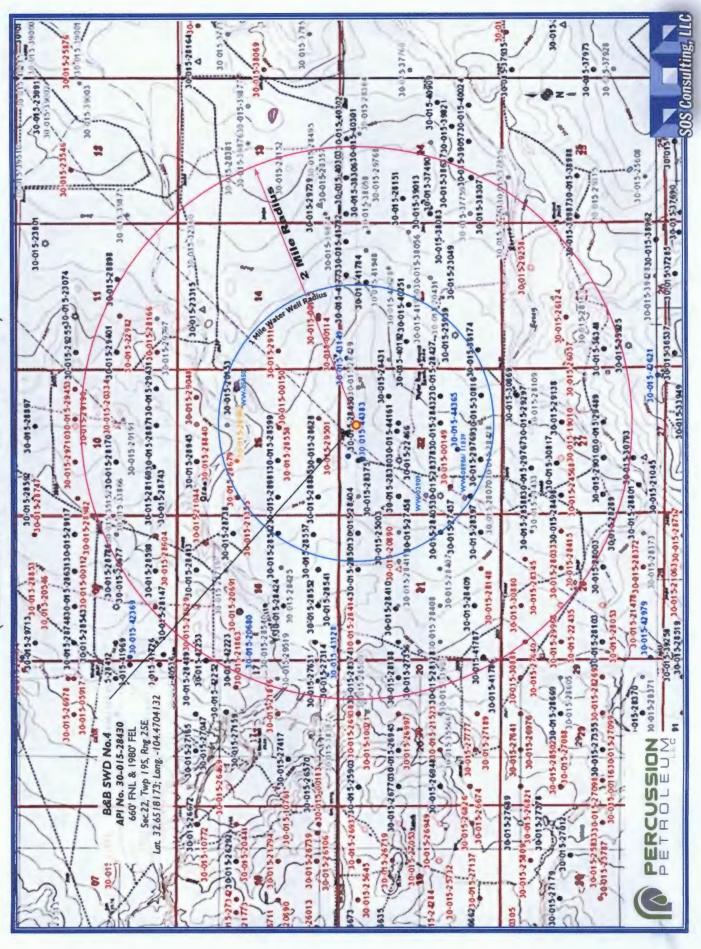
170,000

7" @ 8,218' w/1,050 sx cmt

Not to Scale 3/28/06 DC/Hill

B&B SWD No.4 - Area of Review / 2 Miles

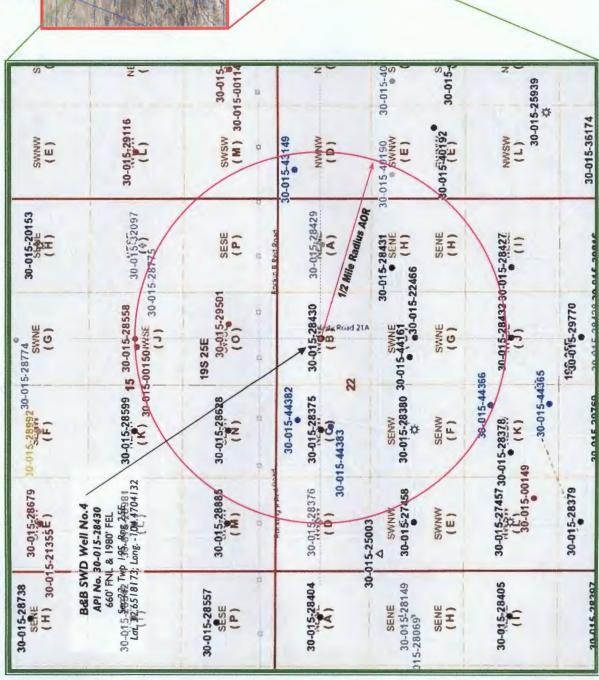
(Attachment to NMOCD Form C-108 - Item V)



B&B No.4 SWD Well No.1 - Area of Review / Overview Map

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)

14.3 miles S/SW of Artesia, NM









Eddy County, New Mexico

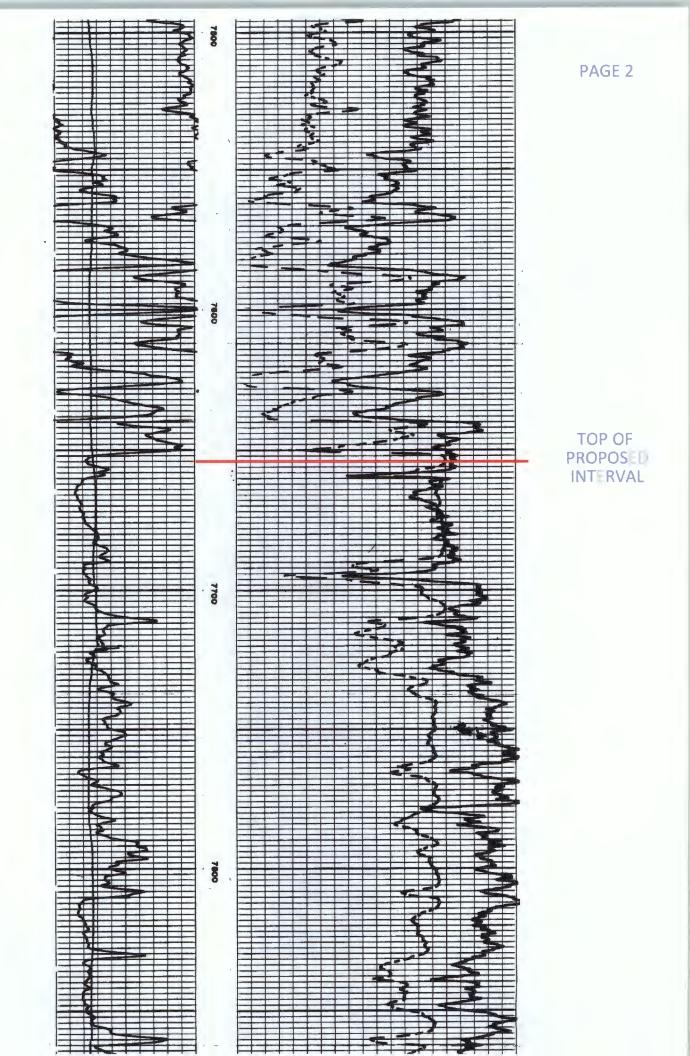
C-108 ITEM X - LOGS and AVAILABLE TEST DATA

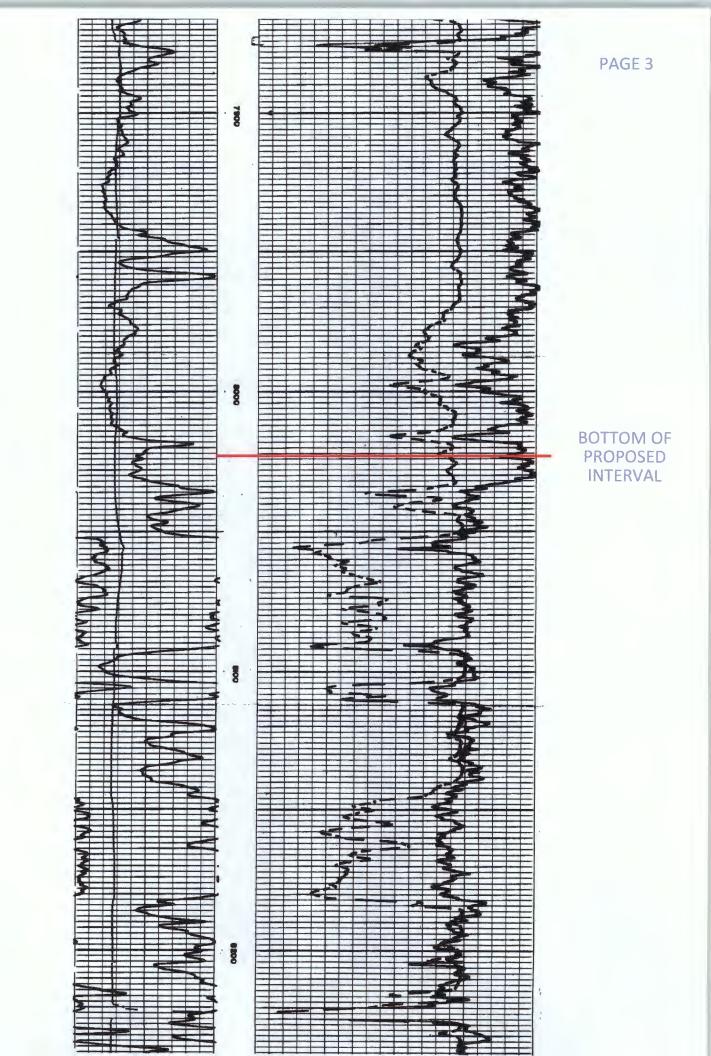
A log strip from subject well is attached.

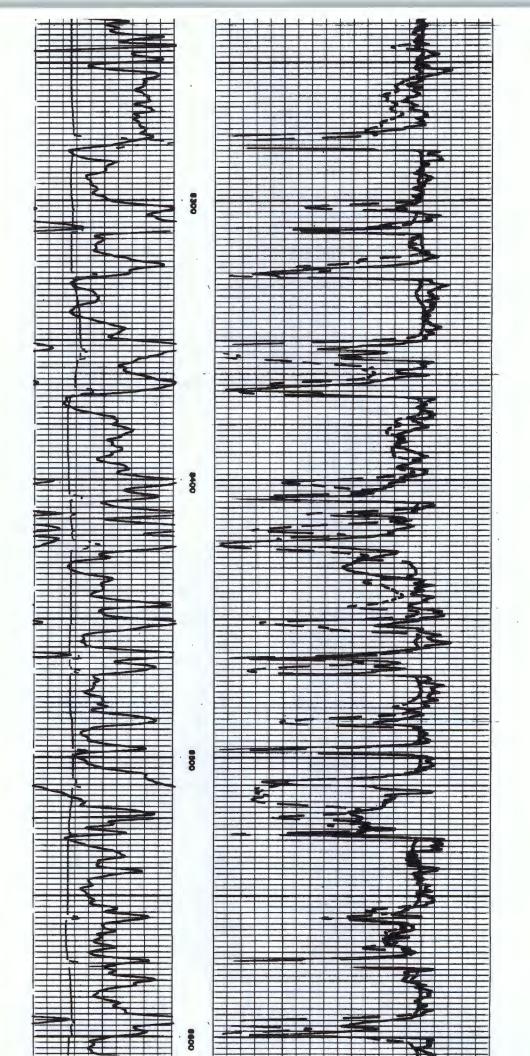
LOG STRIP FOLLOWS

HEADER PAGE 1

| Marie Meant Temps | ### 15 15 15 15 15 15 15 1 | The property Dataset GL 12 Pr. Above Perm. Datem GL 13-78 The property Dataset GL 12 Pr. Above Perm. Datem GL 12 Pr. Above Perm. Datem GL 13-78 | | chlumberger COMPENSATED NEUTRON |
|---|---|--|---|--|
| O HERE IN NO. Arvice Order No. Fluid Level Salinity, PPM CL. Speed - F.P.M. EQUIPMENT DATA Dens. Panel Dens. Cart. Dens. Source Dens. Source Dens. Source Dens. Calibrator Neut. Panel Neut. Cart. Neut. Source Neut. Collibrator GR Cart. Memorizer Panel Tape Recorder (TTR) Depth Encoder (DRE) Pressure Wheel (CPW) Centralizers: Enter Spring, Standoff, In-line, or None CALIBRATION DATA BKG. CPS Sens Cal T, C Cal Short Spacing - Before Log | ONE 34817 FULL 28000 30 1207 353 1110 307 3355 1006 285 1021 1629 521 1126 905 2753 1118 2732 80mSPRING 104 600 165 | Parisia refundica dana wala fa | | 5-22-78 03 48 170 |
| Long Spacing - Before Log O Shart Spacing - After Log Long Spacing - After Log Pr - Before Log Pr - Before Log Pr - After Log Pr - After Log Pr - After Log Pr - After Log DEPTH Top Bottom SURF 1202 30 1202 9486 30 | 16 Use CH | or Porosity Scale 30 -10 2,71 30 -10 2,71 or measurements and we cannot, an electe an eur part, be liable or resport officers, agents or amplayees. These contracts of this scale when correction we is presented in Track 2 + 25 | Density Fluid Logged Logged 165 1.1 LIQ 165 d de not guerantee the eccuracy or consulted for any toos, costs, demograe or as inferpretations are also subject to Charles ECTION GRAMS/CC DENSITY GRAMS/CC 2.5 | OR 7. C. Div. Fair Left 100 Div. 1 0 100 2 0 100 rectition of any inter- copy one incurred or one 4 of our Conserver |







C-108 ITEM VII – PROPOSED OPERATION

B&B No.4 SWD

Private Use SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take approximately 6-8 weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment.

Configure for Salt Water Disposal

Prior to commencing any work, an NOI sundry(ies) will be submitted to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

The B&B SWD well will be for Percussion's area production from Gloieta / Yeso wells.

The SWD facility will not be fenced. Primary water transportation will be via pipeline but offloading hookups will be available so that trucks may access for load disposal in needed.

The well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 4,500 bpd and an average of 3,000 bpd at a maximum surface injection pressure of 1530 psi (.2 psi/ft gradient – maximum pressure will be adjusted If the top of interval is modified after well logs are run).

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC, as necessary and appropriate.

C-108 ITEM VII – PRODUCED WATER ANAYLSES

Item VII.4 - Water Analysis of Source Zone Water

Glorieta/ Yeso Bone Spring

Item VII.5 - Water Analysis of Disposal Zone Water

Cisco/ Canyon (and/or Penn)

Water Analyses follow this page.

C-108 Item VII.5 - Produced Water Data Percussion Petroleum, LLC - BB No.4 SWD Project

SOURCE ZONE

| GLC | D/YESO | | | | | | | | | Lab ID | | | |
|-----|------------------------|-----------|-----------------|---------|---------|------------|----------|--------------------------|--------------|------------------|--------|-----|------|
| | API No Well Name | 300152 | | | | 009 | | | | Sample Sample | | | 1146 |
| | Location | | | 18 | S 26 | E | La | at / Long | 32.71216 | | .35742 | | |
| | | | 330 | S | 990 | W | | | | County | Eddy | | |
| | Operator | (when s | ample | d) | Yates P | etroleum C | Corp. | | | | | | |
| | | | Fiel | d | ATOKA | | | | | Unit M | | | |
| | Sample Date | | | | 8/4/198 | 4 | Analysis | Date | | | | | |
| | | nple S | Source Wellhead | | | | Depth (| if known) | | | | | |
| | | | Wa | ter Typ |) Pro | oduced Wa | ater | | | | | | |
| | ph | | | | | 7.5 | | alkalinit | y_as_caco3_ | _mgL | | | |
| | ph_ten | np_F | | | | | | hardness_as_caco3_mgL | | | | | |
| | specifi | cgravity | | | | | | hardnes | s_mgL | | 18 | 300 | |
| | specifi | cgravity_ | temp_l | F | | | | resistivi | ty_ohm_cm | | | | |
| | tds_m | gL | | | | 120382 | | resistivity_ohm_cm_temp_ | | | | | |
| | tds_m | gL_180C | | | | | | conductivity | | | | | |
| | chlorid | e_mgL | | | | 113000 | | conduct | ivity_temp_F | = | | | |
| | sodiun | n_mgL | | | | 71415 | | carbona | ite_mgL | | | 0 | |
| | calciur | n_mgL | | | | 2560 | | bicarbo | nate_mgL | | 4 | 176 | |
| | iron_m | ıgL | | | | 0 | | sulfate_ | mgL | | 20 | 001 | |
| | iron_mgL barium_mgL | | | | | | | hydroxide_mgL | | | | | |
| | magne | sium_m | gL | | | 0 | | h2s_mgL | | | | | |
| | potass | ium_mgl | - | | | | | co2_mg | L | | | | |
| | strontio | um_mgL | | | | | | o2_mgL | | | | | |
| | | | | | | | | | | | | | |

(Produced water data courtesy of NMT Octane NM WAIDS database.)

anionremarks

manganese_mgL



C-108 Item VII.5 - Produced Water Data Percussion Petroleum, LLC - BB No.4 SWD Project

SOURCE ZONE

| GLC | /YESO | | | | | | | | | | Lab ID | | |
|-----|-------------|------------|-------|---------|-------|--------|---------|------------|-------------------------|---------------|-----------|---------|------|
| | API No | 300152 | 4619 | | | | | | | | Sample | | 1207 |
| | Well Name | PLATT | PA | | | | 00 | 8 | | | Sample | ; INO | |
| | Location | ULSTR | 26 | 18 | S | 26 | E | L | at / Long | 32.71245 | -104 | 1.35329 | |
| | | | 430 | S | 22 | 260 | W | | | | County | Eddy | |
| | Operator | (when s | ample | d) | Yat | es Pe | troleur | Corporatio | n | | | | |
| | | | Fie | ld | ATO | OKA | | | | | Unit N | | |
| | Sample Date | | | | 1/19/ | /1985 | 1 | Analysis | Date | | | | |
| | | | Sar | mple S | ource | e well | head | | | Depth (i | if known) | | |
| | | | Wa | ter Typ | р | Pro | duced \ | Vater | | | , | | |
| | ph | | | | | | 6 | | alkalinit | y_as_caco3_ | _mgL | | |
| | ph_ter | mp_F | | | | | | | hardnes | ss_as_caco3 | _mgL | | |
| | specif | icgravity | | | | | | | hardnes | 11500 | | | |
| | specif | icgravity_ | temp_ | F | | | | | resistivi | ty_ohm_cm | | | |
| | tds_m | gL | | | | | 136324 | | resistivity_ohm_cm_temp | | | | |
| | tds_m | gL_180C | | | | | | | conductivity | | | | |
| | chlorio | le_mgL | | | | | 121000 | ı | conduct | tivity_temp_F | : | | |
| | sodiur | n_mgL | | | | | 6157 | | carbona | ate_mgL | | | |
| | calciu | m_mgL | | | | | 4160 | | bicarbo | nate_mgL | | 104 | |
| | iron_n | ngL | | | | | (| | sulfate_ | _mgL | | 3720 | |
| | bariun | n_mgL | | | | | | | hydroxid | de_mgL | | | |
| | magne | esium_mo | gL | | | | 7340 | | h2s_mg | | | | |
| | potass | sium_mgl | - | | | | | | co2_mg | jL | | | |
| | stronti | um_mgL | | | | | | | o2_mgL | - | | | |

(Produced water data courtesy of NMT Octane NM WAIDS database.)

anionremarks

manganese_mgL



C-108 Item VII.5 - Produced Water Data Percussion Petroleum, LLC - BB No.4 SWD Project

SOURCE ZONE

| BO | NE SPRING | 3 | | | | | | | Lab ID | | |
|----|-----------|----------|--------|---------|----------|----------|---------------|---------------|------------|---------|------|
| | | | | | | | | | | . ID | 5047 |
| | API No | 300152 | 20225 | | | | | | Sample | | 5847 |
| | Well Name | BIG E | DDY UN | NIT | | 012 | | | Sample | NO | |
| | Location | ULSTR | 21 | 20 | S 31 | E | Lat / Long | 32.56399 | -103 | 3.87994 | |
| | | | 660 | N | 660 | W | | | County | Eddy | |
| | Operator | (when | sample | d) | MALLO | N OIL CO | MPANY | | | | |
| | | | Fie | ld | BIG ED | DY | | | Unit D | | |
| | San | nple Dat | е | | 8/27/199 | 9 | Analysis Date | 8 | /31/1999 | | |
| | | | Sat | mnle (| Source | | | Donth / | (if known) | | |
| | | | | iter Ty | | | | Deptil | (II KHOWH) | | |
| | | | | , | r | | | | | | |
| | ph | | | | | 5.2 | | ty_as_caco3 | | | |
| | ph_ter | np_F | | | | | hardne | ss_as_caco3 | 3_mgL | | |
| | specifi | cgravity | | | | 1.125 | hardne | ss_mgL | | | |
| | specifi | cgravity | _temp_ | F | | | resistiv | ity_ohm_cm | | | |
| | tds_m | gL | | | | 181697 | resistiv | ity_ohm_cm_ | _temp_ | | |
| | tds_m | gL_1800 | | | | | conduc | tivity | | | |
| | chlorid | le_mgL | | | | 123750 | conduc | tivity_temp_l | F | | |
| | sodiur | n_mgL | | | | 73895.6 | carbon | ate_mgL | | | |
| | calciur | m_mgL | | | | 5625 | bicarbo | nate_mgL | | 13.725 | |
| | iron_m | ngL | | | | 337.5 | sulfate | _mgL | | 787.5 | |
| | barium | _mgL | | | | | hydroxi | de_mgL | | | |
| | magne | sium_m | ıgL | | | | h2s_m | gL | | 0 | |
| | potass | ium_mg | L | | | | co2_m | gL | | | |
| | stronti | um_mgL | | | | | o2_mg | L | | | |
| | | | | | | | | | | | |

(Produced water data courtesy of NMT Octane NM WAIDS database.)

anionremarks

manganese_mgL



C-108 Item VII.5 - Produced Water Data Percussion Petroleum, LLC - B&B Well No.4 SWD Project DISPOSAL ZONE

DIOI OGAL ZONE

| CIS | | | | | | | | Lab ID | | | | |
|-----|-----------------------------|-----------------|------------------|------------|--------|--------------------------|------------------------|---------|---------|------|--|--|
| | API No | 3001526468 | | | | | | Sample | e ID | 5945 | | |
| | Well Name | JOHN AGU | | | 002 | | | Sample | No | | | |
| | Location | ULSTR 14 | 20 | S 24 | Е | Lat / Long | 32.57883 | -104 | 4.55197 | | | |
| | | 660 | N | 660 | Е | • | | Eddy | | | | |
| | Operator | (when sampled | D) | | | | | | | | | |
| | - | Fie | | DAGGE | R DRAW | | | Unit A | | | | |
| | San | nple Date | | 5/13/2000 |) | Analysis Date | | | | | | |
| | | 0 | | · | | | D4L (| £ 1 | | | | |
| | | | npies ter Tyj | ource n | | | Depth (i | fknown) | | | | |
| | | **** | | P | | | | | | | | |
| | ph | | | | 6.1 | | alkainity_as_caco3_mgL | | | | | |
| | ph_ten | np_F | | | | hardness_as_caco3_mgL | | | | | | |
| | specifi | cgravity | | | 1.05 | hardness_mgL | | | | | | |
| | specifi | cgravity_temp_F | = | | | resistivity_ohm_cm | | | | | | |
| | tds_m | gL | | | 216236 | resistivity_ohm_cm_temp_ | | | | | | |
| | tds_m | gL_180C | | | | conductivity | | | | | | |
| | chlorid | e_mgL | | | 53321 | conduct | | | | | | |
| | sodiun | n_mgL | | | | carbona | ate_mgL | | | | | |
| | calcium | n_mgL | | | 4576 | bicarbo | nate_mgL | | 72619 | | | |
| | iron_m | ngL | | | 1000 | sulfate_ | mgL | | 952 | | | |
| | barium | _mgL | | | 0 | hydroxio | de_mgL | | | | | |
| | barium_mgL magnesium_mgL | | | | 463 | h2s_mg | h2s_mgL | | | | | |
| | potassium_mgL | | | | | co2_mg | co2_mgL | | | | | |
| | strontic | ım_mgL | | | | o2_mgL | - | | | | | |
| | manga | nese_mgL | | | | anionre | marks | | | | | |

(Produced water data courtesy of NMT Octane NM WAIDS database.)



C-108 - Item VIII Geological Data

The Cisco Formation (Upper Penn) is a gray micritic (fine grained) fossiliferous limestone with vugular porosity as well as dolomite. The reservoirs in this area are usually limited in size with up dip porosity loss due to shelf margin carbonate build up. The upper portion becomes very shaley and is not proposed for injection.

The [Pennsylvanian] Canyon formation consists of similarly mediumgrained carbonates, primarily dolomite and porous and permeable sandstone interbedded with shale and is generally 150 to 200 feet in thickness.

The combined zones offer some good porosity in the proposed injection interval located from 7654 feet to 8023 feet with some very good porosity interspersed throughout the overall interval.

The Cisco is overlain by the Wolfcamp and the Canyon is underlain by the Strawn and Atoka. (See Pool Map and Data exhibit included.)

Fresh water in the area is generally available from the karstic San Andres limestone formation which is a prime example of an artesian recharged aquifer. Based on State Engineer's records for water wells in Sections 21 & 22, Twp 19S, Rng 25E, groundwater is found from 130 feet to 220 feet, average depth 175 feet.

There are 3 water wells located within one mile of the proposed SWD. 1 or 2 will be sampled and analyses will be forwarded upon receipt.

Please note that while the Cisco/ Canyon intervals have been productive in the past, operators have permanently abandoned those zones and have recompleted wells into the Glorieta/ Yeso intervals. There is no remaining Cisco/ Canyon production in a one-mile area of review.

There is an existing (inactive) Cisco/ Canyon SWD located to the southwest of the proposed well, just outside the 1/2 mile area of review. The well was permitted and drilled as an SWD by Anadarko; subsequently sold to Chevron. The well operated from 1985 to 2013.

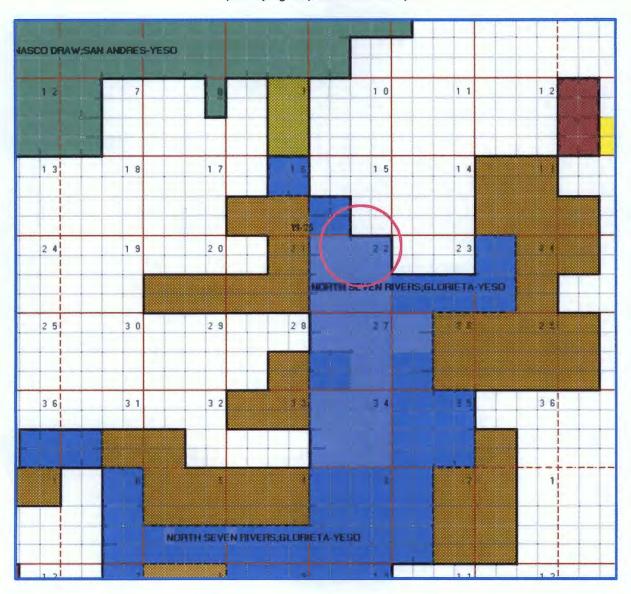
API 30-015-25003: SWD Interval 7800' to 8040'.

C-108 - Item VIII - Geologic Data

SUPPLEMENTAL INFORMATION - POOL DATA

GLORIETA/ YESO POOLS IN REGION

(Overlying Disposal Formation)



Pool Maps Courtesy of Paul Kautz

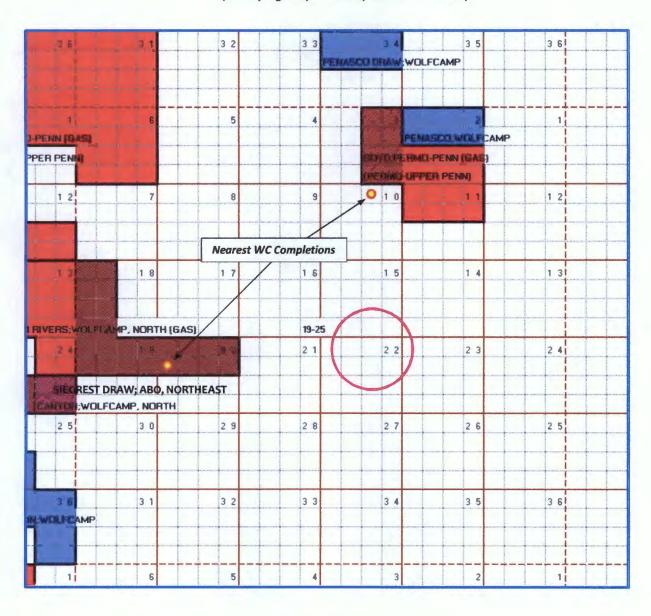


C-108 - Item VIII - Geologic Data

SUPPLEMENTAL INFORMATION - POOL DATA

ABO & WOLFCAMP POOLS IN REGION

(Overlying Proposed Disposal Formations)



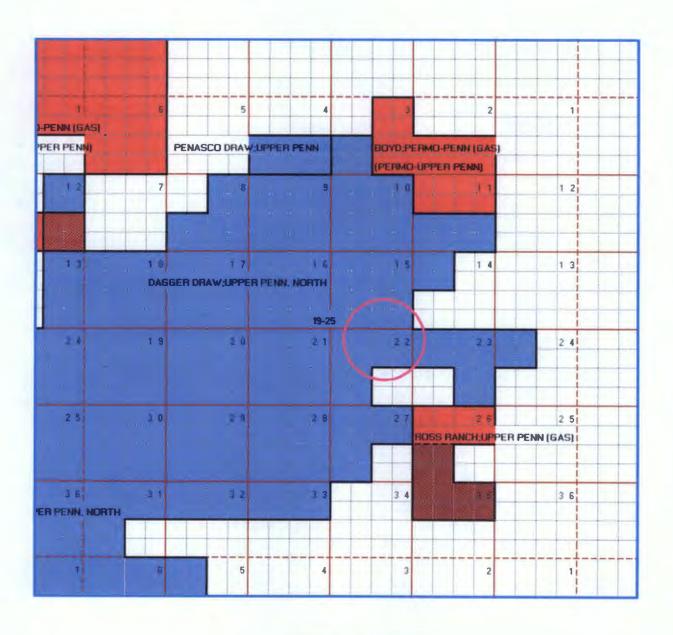
Pool Maps Courtesy of Paul Kautz



C-108 - Item VIII - Geologic Data

SUPPLEMENTAL INFORMATION - POOL DATA

PENNSYLVANIAN POOLS IN REGION



Pool Maps Courtesy of Paul Kautz



C-108 ITEM XI - WATER WELLS IN AOR

3 WATER WELLS WITHIN ONE MILE OF PROPOSED SWD WELL.



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

| (acre ft per | r annum) | | | | | | | | | f in meters) |
|-------------------|---|--|--|---|--|--|---|---|---|--|
| Sub | | | | | | 999 | | | | |
| basin Use Diversi | on Owner | County | POD Number | Code Grant | Source | 6416 4 | Sec | Tws Rng | X | Y |
| DOM | 3 TAYLOR ROSS | ED | RA 02909 | | Shallow | 1 3 | 22 | 19S 25E | 548864 | 3611989* |
| STK | 0 LEATHERWOOD DRILLING CO. | CH | RA 05450 | | Shallow | 4 2 | 15 | 19S 25E | 550057 | 3614015* |
| STX | 2 JAMES H AND BETTY R HOWELL | 50 | RA-06000 | | Shallow | 2 2 | 10 | 190 25E | 340442 | 3014424° (iii) |
| PRO | 0 YATES PETROLEUM CORP. | ED | RA 08986 | | Shallow | 1 3 3 | 22 | 19S 25E | 548824 | 3611507 |
| | O JOAN MULLARKEY | 60 | DA 10407 | | Challow | | 20 | 180 265 | 551676 | -0012400° (III |
| PRO | 0 YATES PETROLEUM CORPORATION | ED | RA 08986 | | Shallow | 1 3 3 | 22 | 195 25E | 548824 | 3611507 |
| | Sub basin Use Diversi DOM STK STK | basin Use Diversion Owner DOM 3 TAYLOR ROSS STK 0 LEATHERWOOD DRILLING CO. STX 2 JAMES H AND BETTY R HOWELL REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. DOL 0 JOAN MULLARKEY | Sub basin Use Diversion Owner County DOM 3 TAYLOR ROSS ED STK 0 LEATHERWOOD DRILLING CO. CH STK 2 JAMES M AND BETTY R HOWELL REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. ED DOL 0 JOAN MULLARKEY SB- | Sub Diversion Owner County POD Number | and no longer serves this file, Ceths file is closed) Sub basin Use Diversion Owner County POD Number DOM 3 TAYLOR ROSS ED RA 02909 STK 0 LEATHERWOOD DRILLING CO. CH RA 05450 STK 2 JAMES M AND BETTY R HOWELL ED RA 06000 REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. ED RA 08966 DOL 0 JOAN MULLARKEY SD RA 10407 PRO 0 YATES PETROLEUM CORPORATION ED RA 08986 | and no longer serves this file. (quarter content for any political file). (quarter content for any political file). (quarter content for any political file). (quarter content | (acre it per annum) Sub basin Use Diversion Owner County POD Number Code Grant Source 6416 4 DOM 3 TAYLOR ROSS ED RA 02909 Shellow 1 3 STK 0 LEATHERWOOD DRILLING CO. CH RA 05450 Shellow 1 3 STK 2 JAMES H AND SETTY R HOWELL ED RA 05999 Shellow 2 2 REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. ED RA 08986 Shellow 1 3 3 | (acre ft per annum) Sub basin Use Diversion Owner County POD Number DOM 3 TAYLOR ROSS ED RA 02909 Code Grant Source 6416 4 Sec. Shallow 1 3 22 STK 0 LEATHERWOOD DRILLING CO. CH RA 05450 Shallow 4 2 15 EXTX 2 JAMES M AND BETTY R MOWELL ED RA 06900 REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. ED RA 06966 Shallow 1 3 3 22 PRO 0 YATES PETROLEUM CORPORATION ED RA 06966 Shallow 1 3 3 22 | and no longer serves this file, (quarters are 1=NW 2=NE 3=SW-C=the file is closed) (quarters are smallest to largest) Sub basin Use Diversion Owner County POD Number DOM 3 TAYLOR ROSS ED RA 02909 Code Grant Source 6416.4 Sec. Tws. Rng STK 0 LEATHERWOOD DRILLING CO. CH RA 05450 Shallow 1 3 22 165 25E STK 2 JAMES M AND BETTY R MOWELL ED RA 06909 REVOCABLE TRUST PRO 0 YATES PETROLEUM CORP. ED RA 08966 Shallow 1 3 3 22 165 25E DOL 0 JOAN MULLARKEY ED RA 08966 Shallow 1 3 3 22 165 25E PRO 0 YATES PETROLEUM CORPORATION ED RA 08986 Shallow 1 3 3 22 165 25E Shallow 1 3 3 22 165 25E | Code Grant Cod |

Record Count: 6

Section(s): 14, 15, 16, 21, Township: 19S 22, 23

Sorted by: File Number

All PODs Shown on WW Locator Map - Next Page...

"UTM location was derived from PLSS - see Help

12/8/17 11:37 AM

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. ACTIVE & INACTIVE POINTS OF DIVERSION

Page 1 of 1

McMillan, Michael, EMNRD

From:

ben@sosconsulting.us

Sent:

Tuesday, February 27, 2018 4:04 PM

To:

McMillan, Michael, EMNRD

Subject:

RE: Percussion Operating Osage Boyd Fed Com #8 water sample

Actually it is, this SWD would also serve to provide disposal for their same production in the area. I can send but it would be the same ones.

Let me know if you need it for the file.

Thanks, Ben

From: McMillan, Michael, EMNRD [mailto:Michael.McMillan@state.nm.us]

Sent: Tuesday, February 27, 2018 4:50 PM **To:** Ben Stone <berowspace | Stone | To: Ben Stone | Stone | To: Ben Stone | Stone | To: Ben Stone

Subject: Percussion Operating Osage Boyd Fed Com #8 water sample

Ben:

I need a groundwater sample for the Percussion Operating Osage Boyd Fed Com #8, or is the water sample from the B&B applicable to this application

Mike

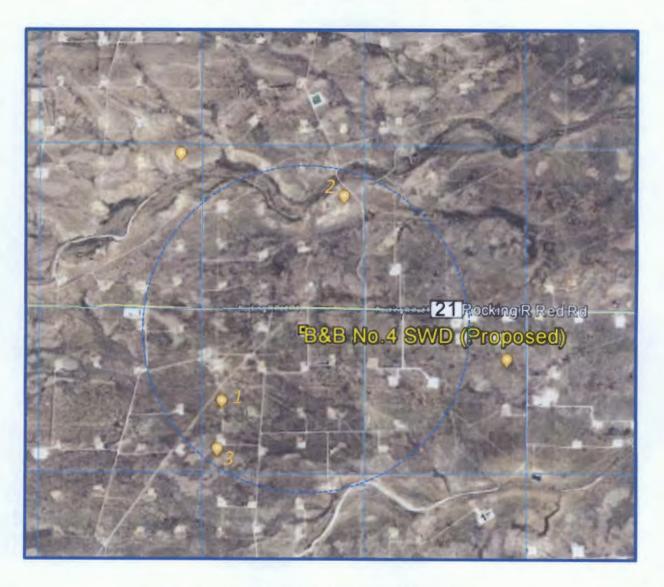
Michael McMillan 1220 South St. Francis Santa Fe, New Mexico 505-476-3448 Michael.mcmillan@state.nm.us

C-108 Item XI

Water Wells Within One Mile

B&B No.4 SWD - Water Well Locator Map

Sample at least 1 well (of 3 in circle) if possible in Area of Review.



Samples taken - Analyses will be forwarded upon receipt...



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

| | (575) 393-2326 FAX (575) 393-2476 | 2476 | | | | | | |
|--|--|---|---|--|--|------------------|------|--|
| Company Name: | Percussion of | Hickory | BILL TO | 0 | A | ANALYSIS REQUEST | JEST | |
| Project Manager: | le Ga | | P.O. #: | | | | | |
| Address: 519 | 3 | 175 | Company: | | , | | | |
| City: Houston | 3 | State: Tx Zip: 77002 | Attn: | | | | | |
| Phone #: 20 | 08-1752 | | Address: | | | | | |
| Project #: | Project Owner: | mer: | City: | | | | | |
| Project Name: | | SWD | State: Zip: | | | | | |
| Project Location: | | | Phone #: | | | | 14 | |
| Sampler Name: | | | Fax #: | | | | | |
| FOR LAB USE ONLY | | MATRIX | PRESERV. SAM | SAMPLING | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | OTHER: ACID/BASE: ICE / COOL OTHER: | TIME CL | TDS | | | |
| _ | 32° 29' 44" N | ` | | -21-18 8:00 V | 1 | | | |
| Q. | 32° 38' Sa"N | \$. | - | N 00.8 | 7 | | | |
| | | | | | | | | |
| | | | | | The second secon | | | The state of the s |
| | | | | | | | | |
| PLEASE NOTE: Liability and Da | mages. Cardinal's liability and client's exclusive rem | edy for any claim arising whether based in contract | ing whether based in contract or last, shall be limited to the armount | unt paid by the client for the | | | - | |
| entines. All claims including services. In the event shall Ca | se for regilgence and any other cause whatsoever at he liable for incidental or consequental damages. | d waived unless m | g and received by Cardinal within 30 days less, loss of use, or less of profits incurred | tin 30 days after completion of the applicable to incurred by client, its subsidiaries, | \$ | | | |
| iffiliates or successors arisin | Makes or successors arising out of or related to the performance of services neiguride | under by Cardinal, regardless of wheeler such claim | erer such claim is based upon any of the above stated reasons of otherwal | Ohone Danie. | A CALL TO MA | Litt Phomo di | | |

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) 7.1 6 Time: 33-18 Time: Received By: CHECKED BY:
(Initials)

720 #75 Fax Result: REMARKS: elan@ Deraussion Petroleum. com ☐ Yes ☐ No AddTFax#:

- IETEL 900 9390



January 24, 2018

LELAN
PERCUSSION PETROLEUM
919 MILAM , STE 2475
HOUSTON, TX 77002

RE: B & B 22 #4 SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/23/18 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

PERCUSSION PETROLEUM LELAN 919 MILAM , STE 2475 HOUSTON TX, 77002 Fax To:

Received: Reported: 01/23/2018

01/24/2018

Project Name:

B & B 22 #4 SWD

Project Number: Project Location: NONE GIVEN

Sampling Date:

01/21/2018

Sampling Type:

Water

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: 32.39' 44" N (H800252-01)

| Chloride, | SM4500CI-B |
|-----------|------------|
|-----------|------------|

ma/

Analyzed By: AC

| | | | | - | | | | | |
|-----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 36.0 | 4.00 | 01/24/2018 | ND | 104 | 104 | 100 | 0.00 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 2270 | 5.00 | 01/24/2018 | ND | 207 | 97.2 | 213 | 3.25 | |

Sample ID: 32.38' 52" N (H800252-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 20.0 | 4.00 | 01/24/2018 | ND | 104 | 104 | 100 | 0.00 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 1980 | 5.00 | 01/24/2018 | ND | 207 | 97.2 | 213 | 3.25 | |
| | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of or or or elabet or or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

C-108 ITEM XI - WATER WELLS IN AOR

Depth to Ground Water



RA 02909

RA 08986

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Sub-**POD Number**

Code basin County 64 16 4 Sec Tws Rng 1 3 22 19S 25E

1 3 3 22 19S 25E

QQQ

3611989* 548864

548825

Depth Depth Water **Well Water Column** 130

220

100

3611507

Average Depth to Water: 175 feet

> 130 feet Minimum Depth: Maximum Depth: 220 feet

320

Record Count: 2

PLSS Search:

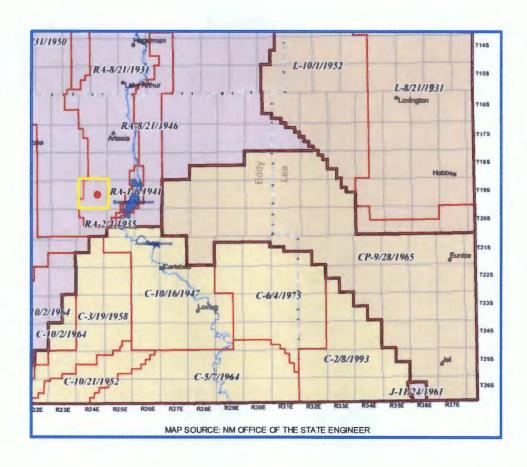
Section(s): 21, 22

Township: 19S

Range: 25E

C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Roswell Artesian Basin.

Fresh water in the area is generally available from the karstic San Andres limestone formation which is a prime example of an artesian recharged aguifer.

State Engineer's records show there is fresh water wells in the area with an depth of 200 feet and average depth to water at 175 feet.

There are 3 water wells located within one mile of the proposed SWD. Samples will be taken of at least one and analysis forwarded when available.



C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.

Ben Stone, Partner SOS Consulting, LLC

Project: Percussion Petroleum Operating, LLC

B&B No.4 SWD

Reviewed 12/13/2017

C-108 ITEM XIII - PROOF OF NOTIFICATION

IDENTIFICATION AND NOTIFICATION OF INTERESTED PARTIES

Exhibits for Section

Leasehold Plat

List of Interested Parties

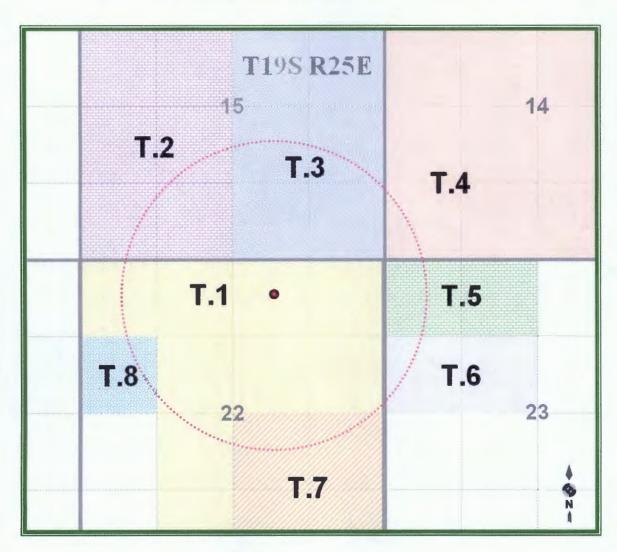
Notification Letter to Interested Parties

Proof of Certified Mailing

Published Legal Notice

B&B SWD Well No.4 - Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)





LEGEND

- T.1 Jerome Hugh Jones, et al Percussion; EOG 'Y'
- T.2 Private Percussion Petroleum, LLC
- T.3 Private Percussion Petroleum, LLC
- T.4 Private Percussion Petroleum, LLC
- T.5 Private Percussion Petroleum, LLC
- T.6 Private Percussion Petroleum, LLC
- T.7 Private Percussion Petroleum, LLC
- T.8 Private Percussion; Tactical Oil & Gas, LLC

C-108 ITEM XIII – PROOF OF NOTIFICATION INTERESTED PARTIES LIST

SURFACE OWNER

JEROME HUGH HONES, ET AL P.O. Box 216 Lakewood, NM 88254-0216 Certified: 7015 3010 0001 3789 7848

OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

Private Lease (T.1 on Leasehold Plat)

Lessses / Operators
PERCUSSION PETROLEUM, LLC (Applicant)
919 Milam, Ste.2475
Houston, TX 77002

EOG 'Y' RESOURCES, INC. 105 S. 4th Street Artesia, NM 88210 Certified: 7015 3010 0001 3789 7855

Private Leases (T.2 – T.7 on Leasehold Plat)

Lessee / Operator
PERCUSSION PETROLEUM, LLC
919 Milam, Ste.2475
Houston, TX 77002

Private Lease (T.8 on Leasehold Plat)

Lessee & Operator
PERCUSSION PETROLEUM, LLC
919 Milam, Ste.2475
Houston, TX 77002

Operator

TACTICAL OIL & GAS, LLC P.O. Box 12874 Odessa, TX 79768 Certified: 7015 3010 0001 3789 7435

REGULATORY

3

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy) 1220 S. St. Francis Dr. Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy) 811 S. First St. Artesia, NM 88210





January 19, 2018

NOTIFICATION TO INTERESTED PARTIES via U.S. Certified Mail – Return Receipt Requested

To Whom It May Concern:

Percussion Petroleum Operating, LLC, Houston, Texas, has made application to the New Mexico Oil Conservation Division to convert and complete for salt water disposal the B&B Well No.4. The proposed SWD will be for private produced water disposal from Percussion's area operations. As indicated in the notice below, the well is located in Section 22, Township 19 South, Range 25 East in Eddy County, New Mexico.

The published notice states that the interval will be from 7654 feet to 8023 feet.

Following is the notice published in the Artesia Daily Press, New Mexico on or about January 21, 2018.

LEGAL NOTICE

Percussion Petroleum Operating, LLC – 919 Milam, Ste.2475, Houston, Texas 77002, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to covert a well for salt water disposal. The proposed conversion will be on the B&B No.4 which is located 660' FNL and 1980' FEL, Section 22, Township 19 South, Range 25 East, Eddy County, New Mexico; approximately 14.3 miles south/ southeast of Artesia, NM.

Produced water from Percussion's area production will be privately disposed into the Cisco and Canyon formations at a maximum interval depth of 7654 feet to 8023 feet at a maximum surface pressure of 1530 psi and a rate limited only by such pressure.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format is posted on the SOS Consulting **ShareFile** site and is available for immediate download.

Use the URL link https://sosconsulting.sharefile.com/d-sec9509081a94adbb

(Please Note: The ShareFile service is powered by Citrix Systems and is completely secure.*)

The link to this file will be active for 30 days from the date of this letter. Your company can access and download the file a maximum of five (5) times. (Copies may be downloaded and shared as needed among your company.)

Alternatively, you may call SOS Consulting, LLC at 903-488-9850, or email info@sosconsulting.us, and the same PDF file copy will be expedited to you via email.

Please use the subject "B&B SWD Jan 2018 PDF Copy Request".

Thank you for your attention in this matter.

Best regards,

Ben Stone, SOS Consulting, LLC

Agent for Percussion Petroleum Operating, LLC

Cc: Appli

Application File

Sen Jone

SOS Consulting is committed to providing superior quality work using technology to assist clients and interested parties in obtaining the documentation required. SOS will continue to utilize methods for reducing papers copies and are less energy and resource intensive.

We hope you'll partner with us and appreciate these efforts.

* You will be asked for your email, name and company.

This will not be used by anyone except keeping track of the file downloads.

You will not be solicited by SOS or anyone else. Data is stored on Citrix Systems servers only.



C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)







C-108 - Item XIV

Proof of Notice – Legal Notice Newspaper of General Circulation

Legal Notice

Percussion Petroleum Operating, LLC – 919 Milam, Ste.2475, Houston, Texas 77002, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to covert a well for salt water disposal. The proposed conversion will be on the B&B No.4 which is located 660' FNL and 1980' FEL, Section 22, Township 19 South, Range 25 East, Eddy County, New Mexico; approximately 14.3 miles south/ southeast of Artesia, NM.

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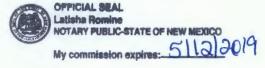
Published in the Artesia Daily Press, Artesia, N.M., Jan. 21, 2018 Legal No. 24539.

The above is the "Proof Copy" sent from the Artesia Daily Press.

The affidavit of publication will be forwarded as soon as it is received.

Affidavit of Publication

| | No. | 24539 | | | | |
|---|---|------------------|--|--|--|--|
| State of New Mexico | | , | | | | |
| County of Eddy: | | | | | | |
| Danny Scott | may Lo | est | | | | |
| being duly : worn sayes | that she is the | Publisher | | | | |
| of the Artesia Daily Pres | ss, a daily newsp | paper of General | | | | |
| circulation, published in | English at Artes | sia, said county | | | | |
| and state, and that the hereto attached | | | | | | |
| Lega | ıl Ad | | | | | |
| was published in a regu | ılar and entire iss | sue of the said | | | | |
| Artesia Daily Press, a daily newspaper duly qualified | | | | | | |
| for that purpose within | for that purpose within the meaning of Chapter 167 of | | | | | |
| the 1937 Session Laws | of the state of N | lew Mexico for | | | | |
| 1 Consecutive | e weeks/day on t | he same | | | | |
| day as follows: | | | | | | |
| First Publication | Januar | y 21, 2018 | | | | |
| Second Publication | | | | | | |
| Third Publication | | | | | | |
| Fourth Publication | | | | | | |
| Fifth Publication | | | | | | |
| Sixth Publication | | | | | | |
| Seventh Publication | | | | | | |
| Subscribed and sworn l | Subscribed and sworn before me this | | | | | |
| 22nd day of | January | 2018 | | | | |



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

Legal Notice

Percussion Petroleum Operating, LLC – 919 Milam, Ste.2475, Houston, Texas 77002, is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division seeking administrative approval to covert a well for salt water disposal. The proposed conversion will be on the B&B No.4 which is located 660' FNL and 1980' FEL, Section 22, Township 19 South, Range 25 East, Eddy County, New Mexico; approximately 14.3 miles south/ southeast of Artesia, NM.

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Published in the Artesia Daily Press, Artesia, N.M., Jan. 21, 2018 Legal No. 24539.

2018 JAN 29 P 3 00

SECEINED OCD

| Office | State of New Mex | | Form C-103 | | |
|--|--|-------------------------------|-------------------------------------|--|--|
| <u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240 | Energy, Minerals and Natur | al Resources WELL AP | Revised July 18, 2013 | | |
| District II - (575) 748-1283 | OIL CONCEDUATION I | | 30-015-28430 | | |
| 811 S. First St., Artesia, NM 88210 District III – (505) 334-6178 | OIL CONSERVATION DIVISION 1220 South St. Francis Dr. | | e Type of Lease | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | Santa Fe, NM 87505 | | ATE FEE | | |
| <u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM | Salita Fe, INIVI 67. | 6. State O | il & Gas Lease No. | | |
| SUNDRY NOTICES A | ND REPORTS ON WELLS | 7. Lease N | Vame or Unit Agreement Name | | |
| (DO NOT USE THIS FORM FOR PROPOSALS TO | | G BACK TO A | B&B 22 | | |
| DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS.) | | | | | |
| 1. Type of Well: Oil Well Gas W | 8. Well N | | | | |
| Name of Operator Percussion Pet | roleum Operating, LLC | 9. OGRID | Number 371755 | | |
| 3. Address of Operator | | | 10. Pool name or Wildcat | | |
| | e.2475, Houston, TX 770 | Dagger D | raw; Upper Penn, North | | |
| 4. Well Location | o o a Nouth | 1 1000 | o . o | | |
| Unit Letter B : 660 Section 22 | | | feet from the East line | | |
| | Township 19-S Ran Elevation (Show whether DR, I | 9 | County Eddy | | |
| | 3471' G.R | | | | |
| | | | | | |
| 12. Check Appropriate the second seco | oriate Box to Indicate Na | ture of Notice, Report or | Other Data | | |
| NOTICE OF INTEN | TION TO: | SUBSECUEN | T REPORT OF: | | |
| | | REMEDIAL WORK | ☐ ALTERING CASING ☐ | | |
| TEMPORARILY ABANDON CHA | NGE PLANS | COMMENCE DRILLING OPNS | S. P AND A | | |
| PULL OR ALTER CASING MUL | TIPLE COMPL | CASING/CEMENT JOB | | | |
| DOWNHOLE COMMINGLE | | | | | |
| CLOSED-LOOP SYSTEM OTHER: | NAME CHANGE | OTHER: | | | |
| 13. Describe proposed or completed or | | | ent dates, including estimated date | | |
| of starting any proposed work). Si | EE RULE 19.15.7.14 NMAC. | | | | |
| proposed completion or recomplet | ion. | | | | |
| Persussian Petroloum Operating pro | marar ta changa tha nama | and number of this wall wh | on annroyed as an CIMD | | |
| Percussion Petroleum Operating pro | poses to change the name | and number of this well wr | len approved as an SWD. | | |
| The complete well name shall be the | B&B 22 SWD No.1. | | | | |
| 4 | | | | | |
| Change will be implemented immed | iately upon approval of per | nding SWD permit and C-10 | 1. | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | <u></u> | | | |
| Spud Date: | Rig Release Date | e: | | | |
| | | | | | |
| | | | | | |
| I hereby certify that the information above | s true and complete to the bes | t of my knowledge and belief. | | | |
| 10 | | | | | |
| SIGNATURE Sen Jone | TITLE Agen | t/consultant | DATE 2/28/2018 | | |
| Toma as mint name | P !! - 4.1 | han@caccanculting | DIJONE 002 400 0050 | | |
| Type or print name For State Use Only | E-mail address: | ben@sosconsulting.us | PHONE: 903-488-9850 | | |
| Joi State Ost Only | | | | | |
| APPROVED BY: | TITLE | | DATE | | |
| Conditions of Approval (if any): | | | | | |

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

MAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 A | PI Number | г | | ² Pool Code | | ³ Pool Name | | | |
|--------------------|------------|---------------|------------------|----------------------------|-------------------------------------|------------------------|--------------------------|-------------------|--------|
| 30-0 | 15-284 | 30 | | 96186 | | SWD; Cisco - Canyon | | | |
| 4 Property C | ode | | | ⁵ Property Name | | | ⁶ Well Number | | |
| TBD | | | | B&B 22 SWD | | | 1 | | |
| 7 OGRID N | | | | ⁸ Operator Name | | | ⁹ Elevation | | |
| 37175 | 5 | | | Percussi | Percussion Petroleum Operating, LLC | | | ng, LLC 3471 feet | |
| | | | | | ¹⁰ Surface I | ocation | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| В | 22 | 19-S | 25-E | | 660 | North | 1980 | East | Eddy |
| | | | ¹¹ Bo | ttom Ho | le 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 | 13 Joint o | r Infill 14 C | onsolidation (| Code 15 Or | der No. | | | · | |
| n/a | n. | /a | n/a | | | | | | |

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.

| 16 | 660 feet | 1980 feet | 17 OPERATOR CERTIFICATION 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. |
|----|----------|-----------|--|
| | | | Benjamin E. Stone Printed Name SOS Consulting, LLC; agent for: |
| | | | Percussion Petro. Operating, LLC 18 SURVEYOR CERTIFICATION 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. April 1, 1995 Date of Survey |
| | | | Signature and Seal of Professional Surveyor: Dan Reddy |
| | | | NM Cert. No.5412 Certificate Number |

| FORM C-10 | 1/23/2 | 2018 | | | ed with application; V16.2] Add. Request/Reply: |
|--|------------------|------------------------|-------------------|-------------------|--|
| ORDER TYPE: WE | X/PMX/SWD Nu | mber: Orde | r Date: | Legacy Permit | s/Orders: |
| Well No. 4 Well Name(s): | BFB | | | | |
| | | 1-07-1667 | New or Old (| EDA) VIIIC CI | acc II Primacy 02/07/1082\ |
| API: 30-0 15-2843 D 660FNE Footages 1980FEL | Spud Date | | vew or Old (| COLUMN (OIC CI | |
| 1.4 | | | | | |
| General Location: 2 mil | es SIAnte | 51 ~ Pool:50 | اعرف | scu-cenyor | Pool No.: 96188 |
| BLM 100K Map: An +057 | Congrator Pett | 101 euro opentti | S CLL OGRID | 37/755 Contac | ot: |
| Daily 10010 Inter- | 140/4 | 3 | 216 | N/A | 2/12-2 |
| COMPLIANCE RULE 5.9: Total Well | s: Inactive | e: Fincl Assur: | Comp | I. Order?/7//IS | 5.9 OK? V Date: 3 /5-74 |
| WELL FILE REVIEWED Current | Status: Act | ve | | | |
| | | | any W | ego in Imagina | ` |
| WELL DIAGRAMS: NEW: Proposed | O OF RE-ENTER: | Before Conv. After C | onv. | ogs in imaging: | |
| Planned Rehab Work to Well: | | | | | |
| | Sizes (in) | Setting | | Cement | Cement Top and |
| Well Construction Details | Borehole / Pipe | Depths (ft) | | Sx or Cf | Determination Method |
| Planned _or Existing _Surface | 14 44,/8 0/60 | 1120 | Stage Tool | 1200 | SurFredVisce |
| Planned_or ExistingInterm/Prod | 43/4/7" | 8200 Gasos | | 1250 | Surper Wishel |
| Planned_or ExistingInterm/Prod | | | | | |
| Planned_or ExistingProd/Liner | | | | | |
| Planned_or Existing Liner | con- | 3 | | | |
| Planned_or Existing_OH / PERE | 1/1038 07 19 | 7 | Inj Length | Completion | /Operation Details: |
| Company of the Compan | | Injection or Confining | ofining Cult | | |
| Injection Lithostratigraphic Units: | Depths (ft) | Units | Tops | | NEW PBTD |
| Adjacent Unit: Litho. Struc. Por. Confining Unit: Litho. Struc. Por. | | 45 | 7646 | | or NEW Perfs |
| Proposed Inj Interval TOP: | 2015-2016-201 | 7654 | REPORT WAR | | in. Inter Coated? |
| Proposed Inj Interval BOTTOM: | | 8023 | | | epth 7557 ft/ |
| Confining Unit: Litho. Struc. Por. | | 1023 | | | 7 557 (100-ft limit) |
| Adjacent Unit: Litho. Struc. Por. | | | | | ace Press. /530 psi |
| AOR: Hydrologic a | and Geologic In | formation | | Admin. Inj. Press | 1 53 l (0.2 psi per ft) |
| POTASH: R-111-P MANoticed? | BLM Sec Ord | ○ WIPP ○ Noticed?_ | Salt/Sal | lado T:B: | NW: Cliff House fm |
| FRESH WATER: Aquifer 6 | yeternery | / Max Depth 27 | HYDRO | AFFIRM STATEME | NT By Qualified Person (2) |
| NMOSE Basin: Lis well Ant to | ITAN REFE: thru | adi NA No. | GW Wells | in 1-Mile Radius? | 2 FW Analysis? X |
| the second secon | (+10+ MY | -50 | The second second | | |
| Disposal Fluid: Formation Source(| 2.0.1 | , | () | A | |
| Disposal Interval: Inject Rate (Avg. | /Max BWPD): 45 | Protectable V | Vaters? M | Source: | System: Closed or Open |
| HC Potential: Producing Interval? | Formerly Proc | ducing?Method: L | ogs/DST/P& | A/Other | 2-Mi Radius Pool Map |
| AOR Wells: 1/2-M Radius Map a | and Well List? | No. Penetrating Wells: | 8 | AOR Horizontals: | AOR SWDs: |
| Penetrating Wells: No. Active Wel | 1 | | | | Diagrams? |
| · · · · · · · · · · · · · · · · · · · | 2 | | | | |
| Penetrating Wells: No. P&A Wells | Num Repairs? | on which well(s)? | | | Diagrams? |
| NOTICE: Newspaper Date | VI-201 V Mineral | Owner percussiv | Surface C | Owner Seran = 140 | 15 LS N. Date 1-12-208 |
| RULE 26.7(A): Identified Tracts? | Affected Per | rsons: EOG - | TA | etica, | N. Date 1-15-2016 |
| Order Conditions: Issues: | | test | | | |
| | | | | | |
| Additional COAs: | | | | | |