UFX PMAM1407051798

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

| • | | ADMINIOTRATIVE ATTEIO | AIION OIILONLIC | 7 - |
|---------|--------------------------|--|---|--|
| TH | HIS CHECKLIST IS M | ANDATORY FOR ALL ADMINISTRATIVE APPLICATION: WHICH REQUIRE PROCESSING AT THE D | | JLES AND REGULATIONS |
| Applic | ation Acronym | | | |
| | | ndard Location] [NSP-Non-Standard Prora | | - |
| | [PC-Po | nhole Commingling] [CTB-Lease Commingl [CTB-Lease Stora ol Commingling] [OLS - Off-Lease Stora [WFX-Waterflood Expansion] [PMX-Pres [SWD-Salt Water Disposal] [IPI-Inje lified Enhanced Oil Recovery Certification | ge] [OLM-Off-Lease Meas ssure Maintenance Expansion ection Pressure Increase] | urement] on] |
| C 4 3 | | | -w | Fx |
| [1] | TYPE OF AF | PPLICATION - Check Those Which Apply Location - Spacing Unit - Simultaneous E NSL NSP SD | r for [A] - A ₁ Dedication - A ₁ | n Response] Fx Dach e Cur pora 873 v ell es+ Blinebny |
| | Check | One Only for [B] or [C] | W | est Blinehn |
| | [B] | Commingling - Storage - Measurement | PC OLS OLM | est Blinebny DniwkArd unit 15 30-025-41549 |
| | [C] | Injection - Disposal - Pressure Increase - X WFX PMX SWD | | West Blinebry Drinkard Unit 154 |
| | [D] | Other: Specify | | 30-025-41549 |
| [2] | NOTIFICAT [A] | ION REQUIRED TO: - Check Those Wh Working, Royalty or Overriding Roy | | ply E C C C C C C C C C C |
| | [B] | X Offset Operators, Leaseholders or Si | ırface Owner | 2 6 |
| | [C] | X Application is One Which Requires | Published Legal Notice | 9 S |
| | [D] | X Notification and/or Concurrent Appr U.S. Bureau of Land Management - Commissioner of Pu | roval by BLM or SLO ublic Lands, State Land Office | POUL EUNICE, BLI-TH and, and/or, 32,500 |
| | [E] | X For all of the above, Proof of Notific | eation or Publication is Attach | ied, and/or, 22500 |
| | [F] | ☐ Waivers are Attached | | |
| [3] | | CURATE AND COMPLETE INFORMATION INDICATED ABOVE. | ATION REQUIRED TO PE | ROCESS THE TYPE |
| | val is accurate a | TION: I hereby certify that the information and complete to the best of my knowledge. quired information and notifications are sub- | I also understand that no acti | |
| | | : Statement must be completed by an individual wi | ith managerial and/or supervisory | capacity. |
| Bria | n Wood | | Consultant | 3-11-14 |
| Print o | or Type Name | Signature / | Title | Date |
| | | | brian@permitswe | st.com |
| | | | e-mail Address | |

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

| I. | PURPOSE: XXX Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No |
|--------|---|
| II. | OPERATOR: APACHE CORPORATION |
| | ADDRESS: 303 VETERANS AIRPARK LANE, SUITE 3000, MIDLAND, TX 79705 |
| | CONTACT PARTY: BRIAN WOOD (PERMITS WEST, INC.) PHONE: 505 466-8120 |
| III. | WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary. |
| IV. | Is this an expansion of an existing project? Yes XXX No If yes, give the Division order number authorizing the project: R-12981 |
| 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. WEST BLINEBRY DRINKARD UNIT 154 |
| VII. | Attach data on the proposed operation, including: 30-025-41549 |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; 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. | Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. |
| IX. | Describe the proposed stimulation program, if any. |
| *X. | Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). |
| *XI. | Attach a chemical analysis of 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 sources of drinking water. |
| XIII. | Applicants must complete the "Proof of Notice" section on the reverse side of this form. |
| XIV. | Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief. |
| | NAME: BRIAN WOOD TITLE: CONSULTANT |
| | SIGNATURE: DATE: MARCH 8, 2014 |
| * | E-MAIL ADDRESS: brian@permitswest.com 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: |

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 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

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.

INJECTION WELL DATA SHEET

| OPERATOR: APACHE CORPORATION | | | | |
|--|----------------|------------------------|---------------------|-----------------|
| WELL NAME & NUMBER: WEST BLINEBRY DRINKARD U | NIT 152 | | | |
| WELL LOCATION: SHL: 895' FSL & 1810' FWL | N | 16 | 21 S | 37 E |
| FOOTAGE LOCATION U | JNIT LETTER | | TOWNSHIP | |
| BHL: 970' FSL & 1990' FWL <u>WELLBORE SCHEMATIC</u> | | WELL CO Surface C | NSTRUCTION D | <u>4TA</u> |
| "Proposed" | | | | |
| 8-5/8" 24# in | Hole Size: 11' | | Casing Size: | 8-5/8" |
| TOC (420 sx) = GL | Cemented with: | 420 sx. | or | ft ³ |
| © \$3.55 | Top of Cement: | SURFACE | Method Determin | ned:VISUAL |
| b Set | | Intermediate | Casing | |
| 5-1/2" 17# in 7-7/8" hole @ 6,950' TOC (1,490 sx) = GL | Hole Size: | | Casing Size: | |
| 500 | Cemented with: | sx. | or | ft ³ |
| | Top of Cement: | | Method Determin | ned: |
| | | Production | Casing | |
| | Hole Size: | 7-7/8" | Casing Size: | 5-1/2" |
| set packer @ ≈5,563' | Cemented with: | 1,490 sx. | or | ft ³ |
| | | SURFACE | | |
| | Total Depth: | 6,950' | | |
| perforate Blinebry, Tubb, & Drinkard 5,613' - 6,670' | | Injection I | nterval | |
| TD 6,950' | 5,613 | 'feet | to | 6,670' |
| (not to scale) | | (Perforated or Open Ho | ole; indicate which |) |

INJECTION WELL DATA SHEET

| Tul | bing Size: 2-3/8" J-55 4.7# Lining Material: INTERNAL PLASTIC COAT |
|-----|--|
| Ty | pe of Packer: LOCK SET INJECTION |
| Pac | cker Setting Depth: ≈5,563' |
| Otł | ner Type of Tubing/Casing Seal (if applicable): |
| | Additional Data |
| 1. | Is this a new well drilled for injection? XXX YesNo |
| | If no, for what purpose was the well originally drilled? |
| 2. | Name of the Injection Formation: BLINEBRY, TUBB, & DRINKARD |
| 3. | Name of Field or Pool (if applicable): EUNICE; BLI-TU-DR, NORTH (POOL CODE 22900) |
| 4. | Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. |
| | NO |
| 5. | Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: |
| | OVER: GRAYBURG (3,705'), SAN ANDRES (3,980') |
| | UNDER: FUSSELMAN (7,250') |
| | |

APACHE CORPORATION

PAGE 1

WEST BLINEBRY DRINKARD UNIT 154

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

30-025-41549

I. Purpose is to drill a 6,950' deep water injection well to increase oil recovery. The well will inject (5,613' - 6,670') into the Blinebry, Tubb, and Drinkard, which are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool (aka, Eunice; BLI-TU-DR, North and pool code = 22900).

The well and zones are part of the West Blinebry Drinkard Unit (Unit Number 300341, Case Numbers 14125 and 14126, both Order Number R-12981) that was established in 2008 by Apache. There have been two subsequent WFX approvals, WFX-854 and WFX-857. This is an active water flood. There are currently 25 active water injectors in the unit.

Well will be directionally drilled because the preferred SHL would be atop two buried third party oil pipelines.

II. Operator: Apache Corporation (OGRID #873)

Operator phone number: (432) 818-1167

Operator address: 303 Veterans Airpark Lane, Suite 3000

Midland, TX 79705

Contact for Application: Brian Wood (Permits West, Inc.)

Phone: (505) 466-8120

III. A. (1) Lease: NMSLO B081050004

Lease Size: 160 acres (see Exhibit A for maps and C-102) Closest Lease Line: from SHL = 500' & from BHL = 350'

Lease Area: S2S2 of Section 16, T. 21 S., R. 37 E.

Unit Size: 2,480 acres

Closest Unit Line: from SHL = 895' & from BHL = 970'

Unit Area:

T. 21 S., R. 37 E.

Section 4: Lot 15, S2SW4, & SE4 Section 8: E2, NENW, & E2SW

Sections 9 & 16: all

Section 17: E2 & E2SW4

Section 21: E2NE4



WEST BLINEBRY DRINKARD UNIT 154

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A. (2) Surface casing (8-5/8", 24#) will be set at 1,260' in an 11" hole. Cement will be circulated to the surface with 420 sacks.

Production casing (5-1/2", 17#) will be set at 6,955' (MD) in a 7-7/8" hole. Cement will be circulated to the surface with 1,490 sacks.

Mechanical integrity of the casing will be assured by hydraulically pressure testing to 500 psi for 30 minutes.

- A. (3) Tubing specifications are 2-3/8", J-55, 4.7#, and internally plastic coated. Setting depth will be $\approx 5,588$ '. (Disposal interval will be 5,613' to 6,670'.)
- A. (4) A lock set injection packer will be set at $\approx 5,563$ ' (≈ 50 ' above the highest proposed perforation of 5,613').
- B. (1) Injection zone will be the Blinebry, Tubb, and Drinkard carbonates. The zones are part of the Eunice; Blinebry-Tubb-Drinkard, North Pool. Estimated fracture gradient is ≈0.56 psi per foot.
- B. (2) Injection interval will be 5,613' to 6,670'. The well will be a cased hole. See attached well profile for more perforation information.
- B. (3) The well has not yet been drilled. It will be completed as a water injection well after approval.
- B. (4) The well will be perforated from 5,613' to 6,670' with 2 shots per foot. Shot diameter = 0.40".
- B. (5) Next higher oil or gas zone in the area of review is the San Andres. Its bottom is at $\approx 5,150$ ' (deepest closest San Andres perforation is 4,159' in 30-025-37365). Injection will occur in the Blinebry Drinkard interval. Blinebry top is at $\approx 5,610$ '. Injection interval will be 5,613' to 6,670'. The injection interval is part of the Eunice; Blinebry-



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WEST BLINEBRY DRINKARD UNIT 154

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

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Tubb-Drinkard, North Pool (NMOCD pool code number = 22900). The San Andres is part of the Hare; San Andres (Gas) Pool (NMOCD pool code number = 78080).

The next lower oil or gas zone in the area of review is the Wantz; Fusselman (Pool Code = 62710). Its top is at 7,142. Deepest perforation in the injection interval will be 6,670.

- IV. This is not a horizontal or vertical expansion of an existing injection project. The case file for the unit approval (R-12981) includes a discussion of the water flood. There have been 2 water flood expansions (WFX-854 & WFX-857) since then. Closest unit boundary is 895' south. One existing injection well (WBDU 76) and one proposed injection well (WBDU 152) are within a half-mile radius, both of which are in the unit (see Exhibit B).
- V. Exhibit B shows all 45 existing wells (42 oil wells + 2 gas wells + 1 water injection well) within a half-mile radius, regardless of depth. Exhibit C shows all 742 existing wells (585 oil or gas producing wells + 76 injection or disposal wells + 55 P & A wells + 25 water wells + 1 brine supply well) within a two-mile radius.

Exhibit D shows all leases (only BLM, State, and fee) within a half-mile radius. Details on the leases within a half-mile are:

| T. 21 S., R. 37 E. | Lessor | Lease | <u>Operator</u> |
|----------------------|--------|----------------|--------------------|
| S2NE4 Sec. 16 | NMSLO | B017320001 | Apache |
| S2NW4 Sec. 16 | NMSLO | B015570002 | Apache |
| N2SW4 & NWSE Sec. 16 | NMSLO | B000850016 | Apache |
| S2SW4 & SWSE Sec. 16 | NMSLO | B081050004 | Apache |
| SENE & NESE Sec. 17 | BLM | NMLC-032096A | Apache |
| SESE Sec. 17 | fee | Hardy Blinebry | Apache |
| NENE Sec. 20 | fee | A. M. York | Chevron |
| NW4 & W2NE4 Sec. 21 | fee | Weatherly | Stephens & Johnson |
| NENE Sec. 21 | BLM | NMLC-032591A | Apache |



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SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

30-025-41549

Exhibit E shows all lessors (BLM, fee, and state) within a two-mile radius.

VI. There are 45 existing wells within a half-mile radius. Twenty-six of the wells penetrated the Blinebry, Tubb, or Drinkard. The penetrators include 25 oil wells and 1 water injection well. A table abstracting the well construction details and histories of the penetrators are in Exhibit F. None of the penetrators have been plugged and abandoned. The 45 wells and their distances from the 154 are:

| API | Operator | Operator Well Type Section TVD | | TVD | Zone(s) | Distance (ft) | |
|------------|------------------------------------|--------------------------------|--------------------------------|------|--------------------------------|--------------------------------|------|
| 3002506631 | Apache | State Land 15 002 | 1 15 002 0 16 6700 | | Penrose Skelly; Grayburg | 322 | |
| 3002537365 | Apache | State Land 15 008 | 0 | 16 | 4435 | Penrose Skelly; Grayburg | 594 |
| 3002537537 | Apache | WBDU 094 | 0 | 16 | 7290 | Eunice; Bli- Tu-Dr, N | 733 |
| 3002536787 | Apache | State DA 011 | 0 | 16 | 4350 | Penrose Skelly; Grayburg | 752 |
| 3002538414 | Apache | WBDU 083 | 0 | 16 | 6850 | Eunice; Bli- Tu-Dr, N | 783 |
| 3002538415 | Apache | WBDU 084 | 0 | 16 | 6835 | Eunice; Bli- Tu-Dr, N | 953 |
| 3002541543 | Apache | WBDU 152 | 1 | 16 | no spud yet | Eunice; Bli- Tu-Dr, N | 967 |
| 3002537536 | Apache | WBDU 093 | 0 | 16 | 7102 | Eunice; Bli- Tu-Dr, N | 1046 |
| 3002506616 | Apache | WBDU 076 | ı | 16 | 6654 | Eunice; Bli- Tu-Dr, N | 1089 |
| 3002535516 | Apache | State DA 007 | 0 | 16 | 4200 | Penrose Skelly; Grayburg | 1135 |
| 3002506630 | Apache State Land 15 001 O 16 6700 | | Penrose Skelly; Grayburg | 1150 | | | |



SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM 30-025-41549

| | | 1 | Γ | | | T . | | |
|------------|--------------------------|--------------------|---|-----|------|--------------|------|------|
| 2002520606 | | 6 | | 4.5 | | Penrose | 1211 | |
| 3002539606 | Apache | State Land 15 019 | 0 | 16 | 4414 | Skelly; | 1244 | |
| | | | | | | Grayburg | | |
| | | | | | | Penrose | | |
| 3002536646 | Apache | Weatherly 21 005 | 0 | 21 | 4250 | Skelly; | 1277 | |
| | | | | | | Grayburg | | |
| | | | | | | Penrose | | |
| 3002537482 | Apache | State Land 15 013 | G | 16 | 4392 | Skelly; | 1399 | |
| | | | | | | Grayburg | | |
| | | | | | | Penrose | | |
| 3002534245 | Apache | State DA 006 | 0 | 16 | 4000 | Skelly; | 1448 | |
| | | | | | | Grayburg | | |
| 3002506632 | Anacha | WIDDLLOOG | 0 | 1.0 | 6660 | Eunice; Bli- | 1522 | |
| 3002300032 | Apache | WBDU 088 | 0 | 16 | 6660 | Tu-Dr, N | 1523 | |
| 3003506645 | | 14/2011 075 | | 4.0 | 6650 | Eunice; Bli- | 4554 | |
| 3002506615 | Apache | WBDU 075 | 0 | 16 | 6650 | Tu-Dr, N | 1554 | |
| | Apache | State Land 15 007 | | | | Penrose | 1565 | |
| 3002537364 | | | О | 16 | 4402 | Skelly; | | |
| | | | | | | Grayburg | | |
| | Stephens & Johnson | Stephens | | | | | | 1583 |
| 3002506721 | | & Weatherly 003 | О | 21 | 6624 | Blinebry Oil | | |
| | | | | | | & Gas (O) | | |
| | Apache | | 0 | | | Penrose | | |
| 3002535765 | | State DA 008 | | 16 | 4200 | Skelly; | 1667 | |
| | | | | | | Grayburg | | |
| | | | | | | Penrose | | |
| 3002537864 | Apache | State DA 014 | О | 16 | 4375 | Skelly; | 1695 | |
| | | | | | | Grayburg | | |
| | _ | | | | | Eunice; Bli- | | |
| 3002538220 | Apache | WBDU 080 | 0 | 16 | 6875 | Tu-Dr, N | 1710 | |
| | | | | | | Penrose | | |
| 3002538378 | Apache | State Land 15 016 | 0 | 16 | 4135 | Skelly; | 1835 | |
| 33323373 | Apacile | State Lana 15 010 | | 10 | 4133 | Grayburg | 1033 | |
| | | | | | | Eunice; Bli- | | |
| 3002506618 | Apache | WBDU 077 | 0 | 16 | 6250 | Tu-Dr, N | 1842 | |
| | | | | | | | | |
| 2002520605 | Annaha | Ctate and 15 010 | | 1.0 | 4404 | Penrose | 1851 | |
| 3002539605 | Apache | State Land 15 018 | 0 | 16 | 4404 | Skelly; | | |
| | | | | | | Grayburg | | |



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| 3002536614 | Apache | State C Tract 12 018 | О | 16 | 4350 | Penrose Skelly; Grayburg | 1855 |
|------------|--------------------------|-------------------------|--------------------|-----------|--------------------------|--------------------------------|------|
| 3002538230 | Apache | WBDU 081 | WBDU 081 O 16 6793 | | Eunice; Bli- Tu-Dr, N | 1911 | |
| 3002520311 | Apache | WBDU 091 | 0 | 16 | 7300 | Eunice; Bli- Tu-Dr, N | 1925 |
| 3002506720 | Stephens & Johnson | Weatherly 002 | 0 | 21 | 6629 | Blinebry Oil & Gas (O) | 1928 |
| 3002539958 | Apache | WBDU 126 | 0 | 17 | 6920 | Eunice; Bli- Tu-Dr, N | 1950 |
| 3002537201 | Apache | WBDU 079 | o | 16 | 7310 | Eunice; Bli- Tu-Dr, N | 1976 |
| 3002539280 | Apache | WBDU 129 | 0 | 17 | 7120 | Eunice; Bli- Tu-Dr, N | 1983 |
| 3002535523 | Apache | Weatherly 21 002 | 0 | 21 | 7152 | Penrose Skelly; Grayburg | 1998 |
| 3002538799 | Stephens & Johnson | Weatherly 012 | 0 | 21 | 4244 | Penrose Skelly; Grayburg | 2079 |
| 3002536725 | Apache | State C Tract 12 019 | 0 | 16 | 4350 | Penrose Skelly; Grayburg | 2106 |
| 3002537535 | Apache | WBDU 092 | 0 | 16 | 7284 | Eunice; Bli- Tu-Dr, N | 2155 |
| 3002506722 | Stephens & Johnson | Weatherly 004 | 0 | 21 | 6612 | Blinebry Oil & Gas (O) | 2176 |
| 3002536056 | Apache | Percy Hardy 010 | 0 | 17 | 4350 | Penrose Skelly; Grayburg | 2195 |
| 3002536617 | Apache | State DA 009 | 0 | 16 | 4350 | Penrose Skelly; Grayburg | 2261 |
| 3002538800 | Stephens & Johnson | Weatherly 011 | О | O 21 6750 | | Eunice; Bli- Tu-Dr, N | 2356 |



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| 3002536786 | Apache | State DA 010 | 0 | 16 | 4345 | Penrose Skelly; Grayburg | 2385 |
|------------|----------------------------|-------------------|---------------------------|----|--------------------------|--------------------------------|------|
| 3002538801 | Stephens & Johnson | Weatherly 010 | /eatherly 010 O 21 6730 | | 6730 | Eunice; Bli- Tu-Dr, N | 2396 |
| 3002506626 | Apache | WBDU 059 | DU 059 O 16 7502 | | Eunice; Bli- Tu-Dr, N | 2398 | |
| 3002506652 | Apache | WBDU 085 | | 17 | 6657 | Eunice; Bli- Tu-Dr, N | 2462 |
| 3002537496 | Apache | State Land 15 012 | ate Land 15 012 G 16 4415 | | 4415 | Penrose Skelly; Grayburg | 2560 |
| 3002538204 | Apache | WBDU 069 | O 17 6829 | | Eunice; Bli- Tu-Dr, N | 2572 | |
| 3002506625 | 3002506625 Apache WBDU 058 | | 1 | 16 | 6660 | Eunice; Bli-Tu- Dr, N | 2646 |

- VII. 1. Average injection rate will be ≈2,500 bwpd. Maximum injection rate will be ≈3,000 bwpd.
 - 2. System will be closed. The well will be tied into the existing unit pipeline system. The system consists of a branched injection system with centrifugal injection pumps.
 - 3. Average injection pressure will be $\approx 1,000$ psi. Maximum injection pressure will be 1,122 psi (= 0.2 psi/foot x 5,613' (highest perforation)).
 - 4. Water source will be water pumped from two existing ≈4,000' deep San Andres water supply wells, plus produced water from Blinebry, Tubb, and Drinkard zones. The source water and produced water are collected in separate skim tanks. The two water streams (source and produced) are commingled in a tank before being piped to the injection wells. A comparison of nearby analyses and San Andres follows. No compatibility



APACHE CORPORATION

WEST BLINEBRY DRINKARD UNIT 154

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM 30-025-41549

problems have reported from the 22,883,768 barrels that have been injected to date in the unit.

| | NEDU Injection Pump Discharge | San Andres 919-S |
|-------------------------------|-------------------------------|------------------|
| A - : (C - 1: D - 1: - | , | |
| Anion/Cation Ratio | 1.0 | N/A |
| Barium | 0.1 mg/l | 0.38 mg/l |
| Bicarbonate | 671.0 mg/l | 562.0 mg/l |
| Calcium | 1,099.0 mg/l | 608.0 mg/l |
| Carbon Dioxide | 80.0 ppm | 80.0 ppm |
| Chloride | 10,086.0 mg/l | 6,200.0 mg/l |
| Hydrogen Sulfide | 90.0 ppm | 408.0 ppm |
| Iron | 0.3 mg/l | 0.0 mg/l |
| Magnesium | 439.0 mg/l | 244.0 mg/l |
| Manganese | N/A | 0.01 mg/l |
| рН | 7.5 | 6.49 |
| Potassium | 115.0 mg/l | N/A |
| Sodium | 5,799.5 mg/l | 3,909.0 mg/l |
| Strontium | 28.0 mg/ | 19.0 mg/l |
| Sulfate | 2,465.0 mg/l | 1,750.0 mg/l |
| Total Dissolved Solids | 20,702.9 mg/l | 13,273.0 mg/l |
| | | |

5. The Blinebry, Tubb, and Drinkard currently produce from 108 oil wells in the unit. It is the goal of the project to increase production.

VIII. The Unit is on the north end of a north-northwest to south-southeast trending anticline. It is part of the Penrose Skelly trend and parallels the west edge of the Central Basin Platform. Dips are 1° to 2°. The injection interval is Leonardian in age, 1072' thick, and consists of tan to dark gray shallow marine carbonates, many of which have been dolomitized. Core filling and replacement anhydrite are common in the limestone. Nodular anhydrite is common in the dolomite. Five per cent porosity cut off is used to determine pay zones. Impermeable shale and carbonates vertically confine the interval.



WEST BLINEBRY DRINKARD UNIT 154

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

30-025-41549

There are currently 109 Blinebry injection wells, 129 Tubb injection wells, and 159 Drinkard injection wells in the state. Some of these wells inject into 2 or more zones. The West Blinebry Drinkard Unit shares its east border with Apache's Northeast Drinkard Unit. Three other similar water floods (East Blinebry Drinkard Units, Central Drinkard Unit, and Warren Blinebry Unit) are within a mile of the West Blinebry Drinkard Unit. The Central Drinkard Unit has been under water flood since the 1960s.

Estimated formation depths are:

```
Quaternary = 0'
 Santa Rosa = 950'
  Anhydrite = 1,230'
  Top salt = 1,330'
  Base salt = 2,470'
    Yates = 2,580'
Seven Rivers = 2,850'
   Queen = 3,415'.
  Grayburg = 3,705'
 San Andres = 3.980'
   Glorieta = 5,200'
  Paddock = 5,300'
  Blinebry = 5.610?
    Tubb = 6.090'
  Drinkard = 6.411
    Abo = 6,700'
Total Depth = 6,950'
```

One fresh water well (CP 00554) is within a mile radius. The 80' deep well with an electric pump was dry during a January 7, 2014 field inspection. A neighbor, Gary Deck, confirmed the well's lack of water. Mr. Deck owns and lives in Section 9. A Google Earth air photo shows a stock pond 500' northeast of the now dry well held water on May 27, 2004. The air photos do not show water on July 15, 2004; July 30, 2005; August 14, 2009, August 21, 2011; and November 14, 2011. No other water well was found within a mile during the inspection.



WEST BLINEBRY DRINKARD UNIT 154

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

30-025-41549

A sample was collected from Mr. Deck's water well in Section 9. His well is 8,668' northeast in Section 9. His well is not in the State Engineer's database. Depth is likely in the Quaternary. The Ogallala is 2 miles northeast. The analysis is in Exhibit G

No existing underground drinking water sources are below the injection interval within a mile radius.

There will be >5,000' of vertical separation and 1,240' of salt and anhydrite between the bottom of the only likely underground fresh water source and the top of the injection interval.

Produced water is currently being injected (178 wells) or disposed (9 wells) into the Blinebry-Tubb-Drinkard, San Andres, Grayburg, Queen, Seven Rivers, and Yates within T. 21 S., R. 37 E.

- IX. The well will be stimulated with acid to clean out scale or fill.
- X. Spectral gamma ray, spectral density/compensated neutron, dual laterolog/MSFL, and sonic logs are planned.
- XI. No fresh water well is within a mile. An analysis from a well that is 8,668' northeast is attached (Exhibit G).
- XII. Apache is not aware of any geologic or engineering data that may indicate the injection interval is in hydrologic connection with any underground sources of water. Closest Quaternary faults are >100 miles west and southwest (Exhibit H). At least 161 injection or saltwater disposal wells are active in the Blinebry, Tubb, or Drinkard in the New Mexico. Previously approved water flood expansions in the unit include:

WFX-854 (August 28, 2009) WFX-857 (December 22, 2009)



PAGE 11

SHL: 895 FSL & 1810 FWL BHL: 970 FSL & 1990 FWL

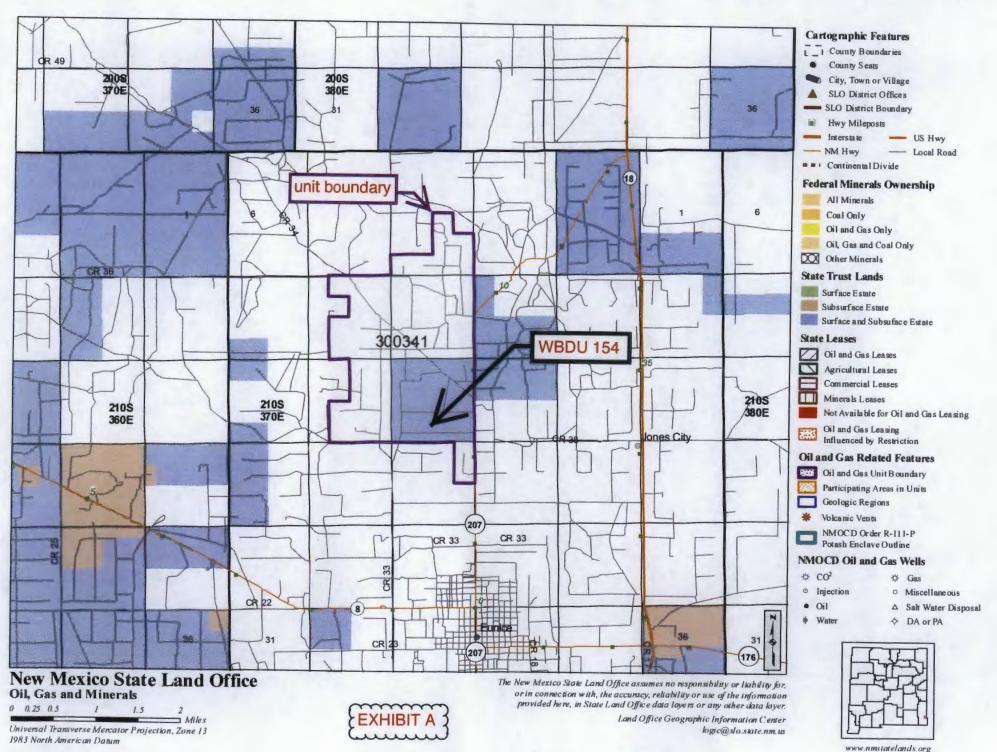
SEC. 16, T. 21 S., R. 37 E., LEA COUNTY, NM

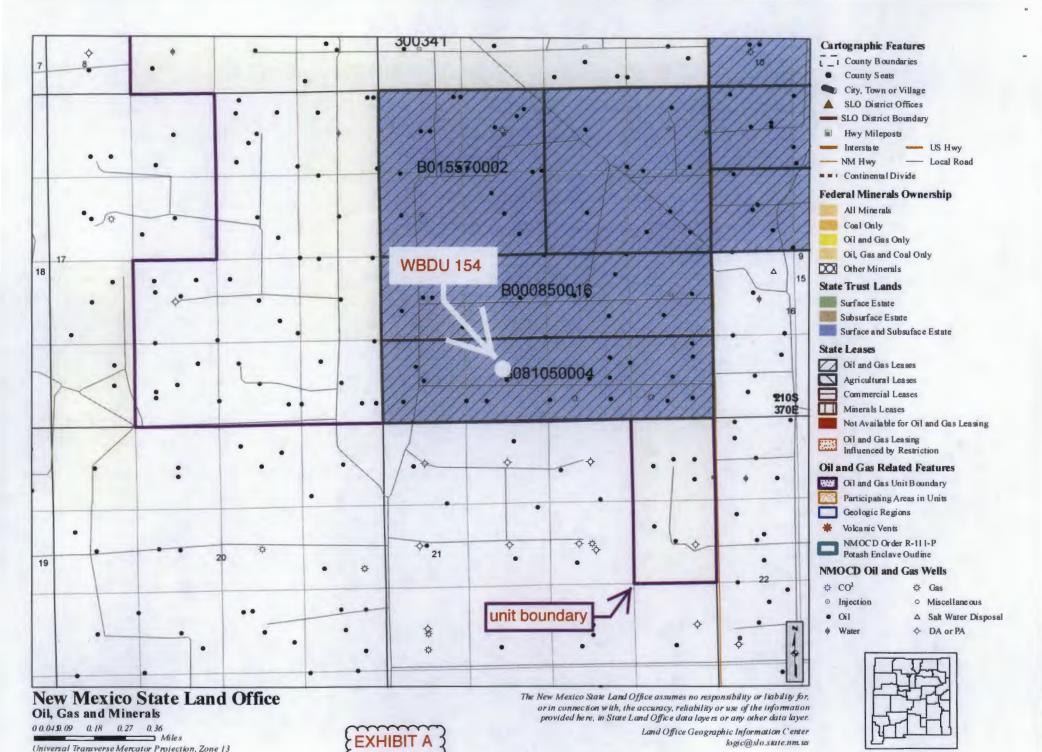
30-025-41549

XIII. Notice (this application) has been sent (Exhibit I) to the surface owner (NM State Land Office), BLM, the offset Blinebry, Tubb, and Drinkard operators (Chevron, and Stephens & Johnson), and other leasehold operating rights holders (ConocoPhillips, Elliott Hall Co. Utah LP, Elliott Industries Ltd. Partnership, Six Aeches).

A legal ad (see Exhibit J) was published on February 21, 2014.



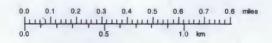




1983 North American Datum

www.nmstatelands.org









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

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

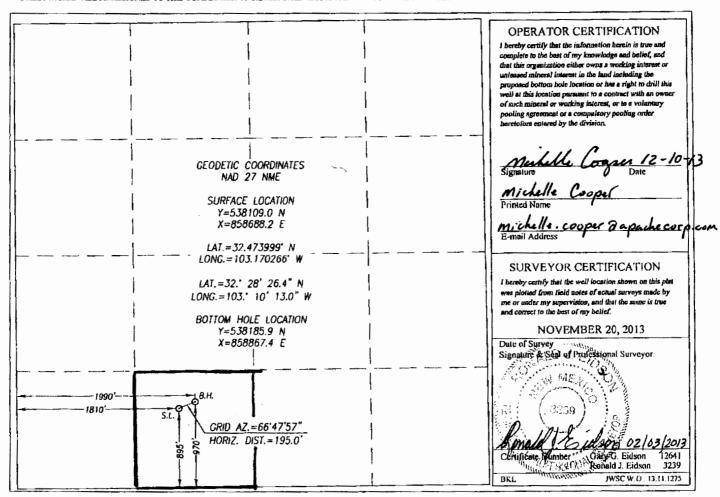
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

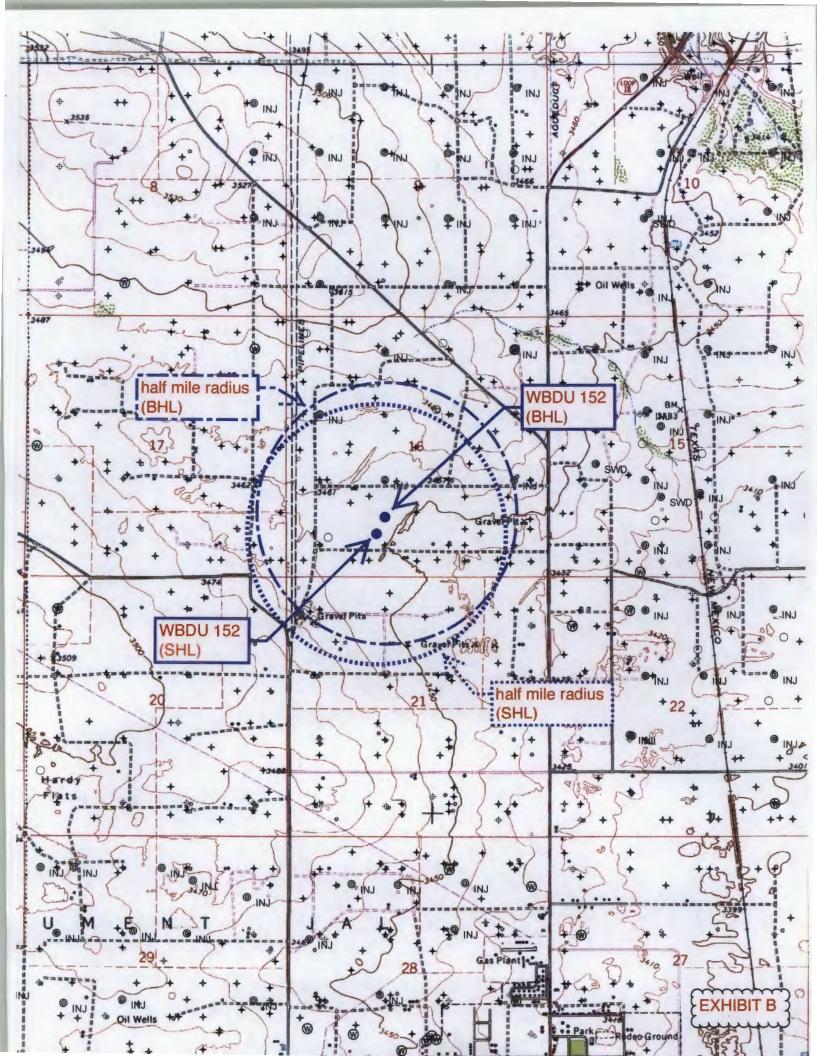
DAMENDED REPORT

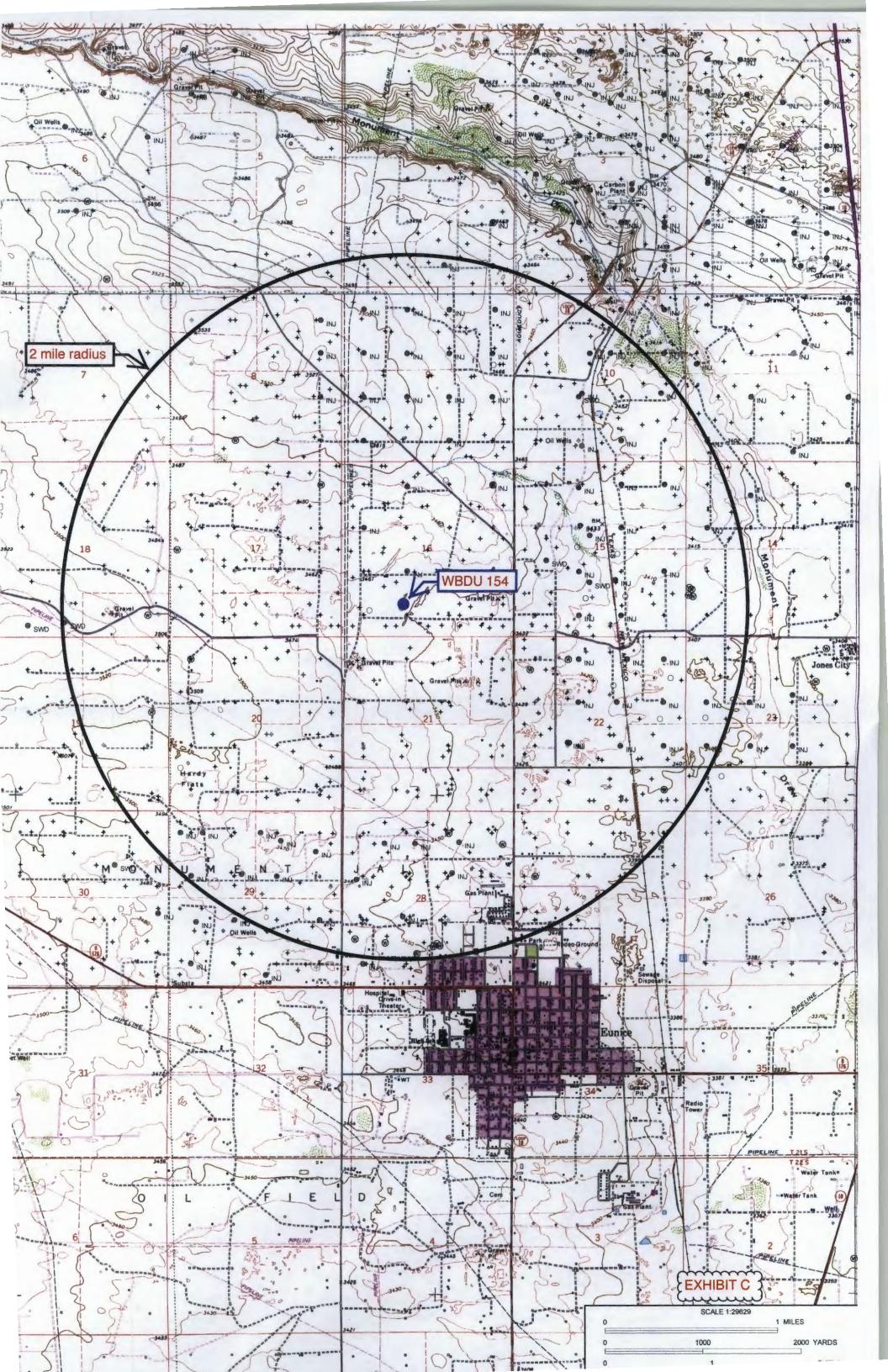
WELL LOCATION AND ACREAGE DEDICATION PLAT

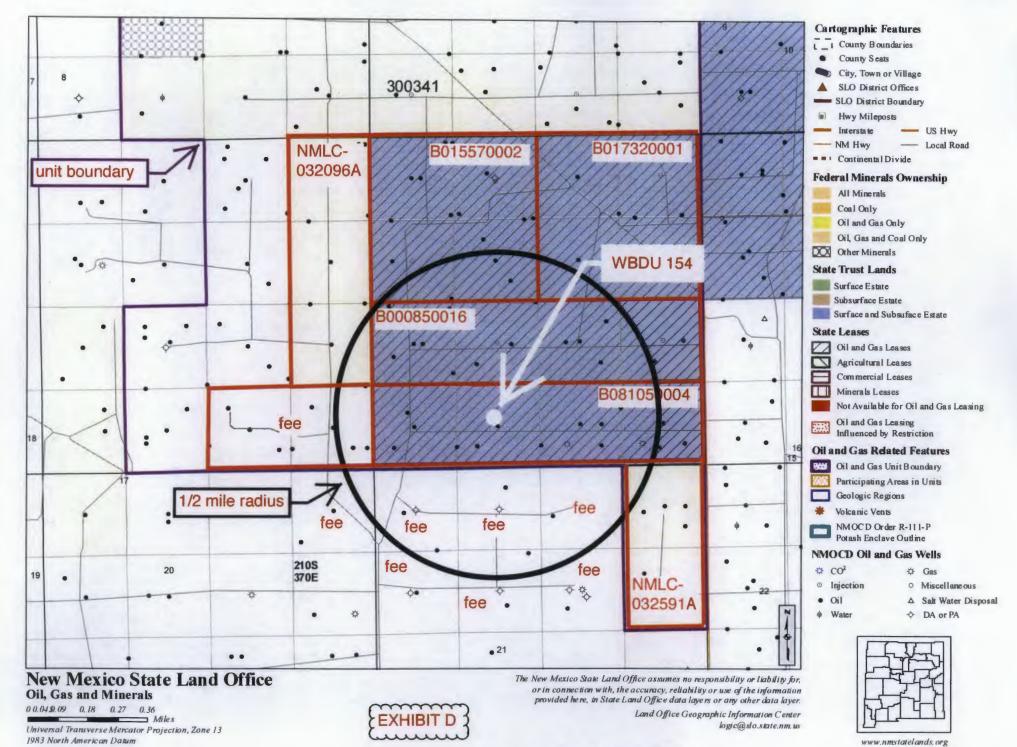
| 30-02 | 1 Number | | | Pool Code | o Fu | inice, BLI | Pool Name | | | | |
|------------------|----------|----------|----------------|-------------|---------------------------|-------------------------------------|---------------|--|--------------------|--|--|
| Property Code Pr | | | | | | Property Name Well Number WBDU 154W | | | | | |
| 873 | lo. | | | APAC | Operator Nam CHE CORPO | | | | Elevation 3449' | | |
| | | | | | Surface Locati | оп | | | | | |
| UL or lot No. | Section | Township | Range | Lot idn | Feer from the | North/South line | Feet from the | East/West line | County | | |
| N | 16 | 21-S | 37-E | | 895 | SOUTH | WEST | WEST LEA | | | |
| | | | • | Bottom Hole | Location If Diffe | rent From Surface | | ······································ | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County | | |
| N | 16 | 21-S | 37-E | | | | | | | | |
| Dedicated Acres | Joint or | Intill C | onsolidation C | ode Orde | er No. | | | | • | | |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

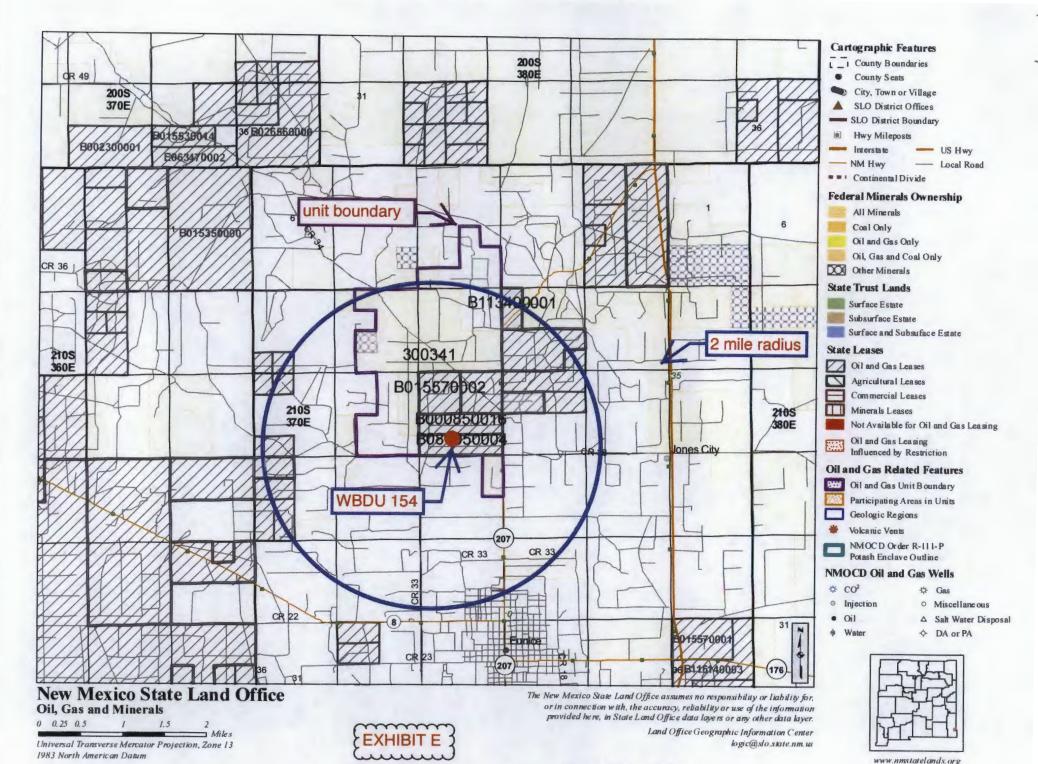








Created On: 2/15/20142:42:41 PM



Created On: 2/16/2014 1:56:08 PM

Sorted by distance from WBDU 154 well bore

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | тос | HOW DETERMINED |
|----------------------|----------|------|---|--------------|--------------|----------------|-------|---------|----------------------|-----------------------|
| State Land 15 002 | 3/17/47 | 6700 | Penrose Skelly; Grayburg | Oil | 17 | 13.375 | 320 | 300 sx | no report | no report |
| 30-025-06631 | | | | | 11 | 8.625 | 2864 | 1600 sx | no report | no report |
| N-16-21s-37e | | | | | 7.75 | 5.5 | 6699 | 500 sx | 3635 | temperature survey |
| | | | | | | | | | | |
| WBDU 094 | 5/25/06 | 7290 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1207 | 500 sx | GL | circulated to surface |
| 30-025-37537 | | | | | 7.875 | 5.5 | 7290 | 1050 sx | 280 | CBL |
| N-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 083 | 6/23/07 | 6850 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1273 | 575 sx | GL | circulated to surface |
| 30-025-38414 | | | | | 7.875 | 5.5 | 6850 | 1300 sx | 186 | CBL |
| L-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 084 | 7/3/07 | 6835 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1265 | 650 sx | GL | circulated to surface |
| 30-025-38415 | | | | | 7.875 | 5.5 | 6835 | 1400 sx | 890 | CBL |
| K-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 093 | 12/14/05 | 7102 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1225 | 550 sx | GL | circulated 129 sx |
| 30-025-37536 | | | | | 7.875 | 5.5 | 7102 | 1250 sx | 1940 | CBL |
| O-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 076 | 5/14/47 | 6654 | Eunice; Blinebry-Tubb- Drinkard, North | WIW | 17.5 | 13.375 | 214 | 200 sx | did not circulate | visual |
| 30-025-06616 | | | | | 11 | 8.625 | 2815 | 1250 sx | 1325 | calculated |
| K-16-21s-37e | | | | | 7.375 | 5.5 | 6654 | 500 sx | 2850 | temperature survey |
| | | | | | | | | | | |
| State Land 15 001 | 1/17/47 | 6700 | Penrose Skelly; Grayburg | Oil | 17 | 13.375 | 334 | 300 sx | no report | no report |
| 30-025-06630 | | | | | 12 | 9.625 | 2849 | 2100 sx | no report | no report |
| M-16-21s-37e | | | | | 8.75 | 7 | 6699 | 500 sx | 4850 | temperature survey |
| | | | | | | | | | | |
| WBDU 088 | 5/13/47 | 6660 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17 | 13.375 | 215 | 250 sx | no report | no report |
| 30-025-06632 | | | | | 11 | 8.625 | 2866 | 1600 sx | no report | no report |
| O-16-21s-37e | | | | | 7.75 | 5.5 | 6659 | 500 sx | no report | no report |

| | | | | WELL | HOLE | CASING | | | | |
|---------------|---------|------|---|-------|-------|--------|-------|---------|-----------|----------------------------|
| WELL | SPUD | TĐ | POOL | TYPE | O.D. | O.D. | SET @ | CEMENT | TOC | HOW DETERMINED |
| WBDU 075 | 3/24/47 | 6650 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17.25 | 13.375 | 216 | 200 sx | no report | no report |
| 30-025-06615 | | | | | 11 | 8.625 | 2812 | 1200 sx | 1300 | temperature survey |
| L-16-21s-37e | | | | | 7.375 | 5.5 | 6686 | 400 sx | no report | no report |
| Weatherly 003 | 9/3/47 | 6624 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17 | 12.75 | 225 | 175 sx | no report | no report |
| 30-025-06721 | | | | . = = | 11 | 8.625 | 2900 | 1200 sx | no report | no report |
| C-21-21s-37e | | | | | 7.75 | 5.5 | 6623 | 500 sx | no report | no report |
| WBDU 080 | 1/19/07 | 6875 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1227 | 575 sx | GL | circulated to surface |
| 30-025-38220 | | | | | 7.875 | 5.5 | 6875 | 1425 sx | 225 | CBL |
| L-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 077 | 7/4/47 | 6250 | Eunice; Blinebry-Tubb- Drinkard, North | Gas | 17.25 | 13.375 | 213 | 200 sx | GL | circulated |
| 30-025-06618 | | | | | 11 | 8.625 | 2807 | 1550 sx | 580 | temperature survey |
| J-16-21s-37e | | | | | 7.375 | 5.5 | 630 | 500 sx | 2845 | temperature survey |
| WBDU 081 | 2/28/07 | 6793 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1255 | 600 sx | GL | circulated to surface |
| 30-025-38230 | | | | | 7.875 | 5.5 | 6793 | 1200 sx | GL | CBL_ |
| K-16-21s-37e | | | | | | | | | <u> </u> | |
| WBDU 091 | 9/19/63 | 7300 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17.5 | 13.375 | 252 | 300 sx | GL | circulated 25 sx to pit |
| 30-025-20311 | | | | | 11 | 8.625 | 2990 | 665 sx | GL | circ. ~100 sx to surf. |
| O-16-21s-37e | | | | | 7.875 | 5.5 | 7298 | 1005 sx | 1120 | temperature survey |
| | | | | | | | | | | |
| Weatherly 002 | 5/9/47 | 6629 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17.5 | 12.5 | 280 | 250 sx | no report | no report |
| 30-025-06720 | | | | | 11 | 8.625 | 2890 | 1200 sx | no report | no report |
| D-21-21s-37e | | | | | 7.375 | 5.5 | 6629 | 500 sx | no report | no report |
| | | | | | | | | | | |
| WBDU 126 | 1/11/11 | 6920 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1283 | 665 sx | GL | circulated 222 sx to surf. |
| 30-025-39958 | | | | | 7.875 | 5.5 | 6920 | 1340 sx | GL | circulated 130 sx to surf. |
| P-17-21s-37e | | | | | | | | | | |

Sorted by distance from WBDU 154 well bore

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | тос | HOW DETERMINED |
|---------------------|---------|------|---|--------------|--------------|----------------|-------|---------|-----------|----------------------------|
| WBDU 079 | 6/24/05 | 7310 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1289 | 600 sx | GL | circulated 92 sx |
| 30-025-37201 | | | | | 7.875 | 5.5 | 7310 | 1600 sx | 270 | CBL |
| J-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 129 | 4/28/10 | 7120 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1286 | 650 sx | GL | circulated to surface |
| 30-025-39280 | | | | | 7.875 | 5.5 | 7120 | 1150 sx | GL | circulated to surface |
| P-17-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| Weatherly 21 002 | 4/27/02 | 7152 | Penrose Skelly; Grayburg | Oil | 14.75 | 11.75 | 395 | 305 sx | GL | circulated 25 sx to pit |
| 30-025-35523 | | | | | 11 | 8.625 | 3003 | 850 sx | GL | circulated 50 sx to pit |
| B-21-21s-37e | | | | | 7.875 | 5.5 | 7152 | 750 sx | 2690 | temperature survey |
| | | | | | | | | | | |
| WBDU 092 | 12/1/05 | 7284 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1197 | 575 sx | GL | circulated 171 sx to surf. |
| 30-025-37535 | | | | | 7.875 | 5.5 | 7284 | 1150 sx | 650 | CBL |
| O-16-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| Weatherly 004 | 8/7/81 | 6612 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | unknown | 12.75 | 265 | 218 sx | GL | circulated |
| 30-025-06722 | | | | | 11 | 8.625 | 2885 | 1200 sx | GL | circulated |
| B-21-21s-37e | | | | | 7.75 | 5.5 | 6610 | 700 sxx | 2300 | calculated |
| | | | | | | | | | | |
| Weatherly 011 | 9/5/08 | 6750 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1237 | 550 sx | no report | no report |
| 30-025-38800 | | | | | 7.875 | 5.5 | 6748 | 1400 sx | no report | no report |
| D-21-21s-37e | | - | | | | | | | | |
| | | | | | | | | | | |
| Weatherly 010 | 8/18/08 | 6730 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1235 | 550 sx | GL | circulated |
| 30-025-38801 | | | | | 7.875 | 5.5 | 6729 | 1200 sx | 1848 | no report |
| F-21-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 059 | 9/17/47 | 7502 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 17 | 13.375 | 316 | 324 sx | GL | circulated |
| 30-025-06626 | | | | | 12 | 9.625 | 2900 | 500 sx | 1325 | temperature survey |
| F-16-21s-37e | | | | | 8.75 | 7 | 6656 | 700 sx | 2800 | temperature survey |

Sorted by distance from WBDU 154 well bore

| WELL | SPUD | TD | POOL | WELL TYPE | HOLE O.D. | CASING O.D. | SET @ | CEMENT | тос | HOW DETERMINED |
|--------------|---------|------|---|--------------|--------------|----------------|-------|---------|-----------|-----------------------|
| WBDU 085 | 4/24/47 | 6657 | Eunice; Blinebry-Tubb- Drinkard, North | Gas | 17.25 | 13.375 | 297 | 300 sx | no report | no report |
| 30-025-06652 | | | | | 11 | 8.625 | 2814 | 1200 sx | no report | no report |
| P-17-21s-37e | | | | | 7.875 | 5.5 | 6641 | 500 sx | no report | no report |
| | | | | | | | | | | |
| WBDU 069 | 2/22/07 | 6829 | Eunice; Blinebry-Tubb- Drinkard, North | Oil | 12.25 | 8.625 | 1303 | 600 sx | GL | circulated to surface |
| 30-025-38204 | | | | | 7.875 | 5.5 | 6875 | 1075 sx | 440 | CBL |
| 1-7-21s-37e | | | | | | | | | | |
| | | | | | | | | | | |
| WBDU 058 | 7/19/47 | 6660 | Penrose Skelly; Grayburg | WIW | 17.5 | 13.375 | 322 | 300 sx | GL | circulated |
| 30-025-06625 | | | | | 12 | 9.625 | 2900 | 1500 sx | 1560 | calculated |
| E-16-21s-37e | | | | | 8.75 | 7 | 6660 | 775 sx | 1900 | temperature survey |
| | | | | | | | | | | |



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

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

Sub

basin Use Diversion Owner

(acre ft per annum)

3 MILLARD DECK

County POD Number LE CP 00554

Code Grant

q q q

Source 6416 4 Sec Tws Rng 2 2 16 21S 37E

672744 3595610*

Distance 1423

Record Count: 1

WR File Nbr

CP 00554

UTMNAD83 Radius Search (in meters):

STK

Easting (X): 671901

Sorted by: Distance

Northing (Y): 3594463

Radius: 1610

1610 meters = 5,280'

1423 meters = 4.667 feet

*UTM location was derived from PLSS - see Help

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

3/2/14 5:34 PM

Page 1 of 1

ACTIVE & INACTIVE POINTS OF DIVERSION



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)

1423 meters

4,667 feet

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

POD Number

Sub- QQQ

Code basin County 64 16 4 Sec Tws Rng

LE 2 2 16 21S 37E

X Y 2744 3595610* Distance

Well Water Column 80 70 10

1425 00

Average Depth to Water: 70 feet

Minimum Depth:

70 feet

Maximum Depth:

70 feet

Record Count: 1

CP 00554

UTMNAD83 Radius Search (in meters):

Easting (X): 671901

Northing (Y): 3594463

Radius: 1610

 $1610 \text{ meters} = 5.280^{\circ}$









TN MN 7° 03/02/1

Analytical Report

Lab Order 1401404

Date Reported: 1/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Permits West

Client Sample ID: AP-WBD-NE Sec 9

Project: Apache SWD Water Samples Collection Date: 1/7/2014 12:32:00 PM

Lab ID: 1401404-001

Matrix: AQUEOUS

Received Date: 1/10/2014 11:45:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|-------|----------|----|----------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | st: JRR |
| Chloride | 86 | 5.0 | mg/L | 10 | 1/10/2014 8:49:28 PM | R16037 |
| EPA METHOD 1664A | | | | | Analys | st: JDC |
| N-Hexane Extractable Material | ND | 5.1 | mg/L | 1 | 1/15/2014 | 11189 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | Analys | st: KS |
| Total Dissolved Solids | 405 | 20.0 | mg/L | 1 | 1/14/2014 7:27:00 PM | 11204 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

- Not Detected at the Reporting Limit Page 1 of 5 Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory, Inc.

WO#:

1401404

20-Jan-14

Client:

Permits West

Project:

Apache SWD Water Samples

Sample ID MB-11189

SampType: MBLK

PQL

5.0

TestCode: EPA Method 1664A

Client ID:

Analyte

PBW

Batch ID: 11189

RunNo: 16085

Prep Date: 1/13/2014

Analysis Date: 1/15/2014

ND

SeqNo: 463280

Units: mg/L

HighLimit

%RPD

RPDLimit Qual

N-Hexane Extractable Material

Sample ID LCS-11189

SampType: LCS

Batch ID: 11189

TestCode: EPA Method 1664A

RunNo: 16085

Units: mg/L

Analyte

Prep Date: 1/13/2014

Analysis Date: 1/15/2014

SeqNo: 463281

HighLimit %RPD **RPDLimit**

Qual

5.0

40.00

SPK value SPK Ref Val

n

SPK value SPK Ref Val %REC LowLimit

89.5

78

N-Hexane Extractable Material

Client ID: LCSW

36

%REC

114

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

Page 2 of 5



Hall Environmental Analysis Laboratory, Inc.

WO#:

1401404

20-Jan-14

Client:

Permits West

Project:

Apache SWD Water Samples

Sample ID A6

SampType: CCV_6

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: BatchQC

Batch ID: R16037

0.50

RunNo: 16037

Prep Date:

Analysis Date: 1/10/2014

SeqNo: 461898

Units: mg/L

Analyte

Result PQL SPK value SPK Ref Val

5.000

5.000

8.000

12.00

RPDLimit

Qual

Chloride

%REC 12.00

HighLimit 110 %RPD

Sample ID MB

Client ID: PBW SampType: MBLK Batch ID: R16037

RunNo: 16037

TestCode: EPA Method 300.0: Anions

Units: mg/L

Analyte Chloride

Prep Date:

Result ND

Analysis Date: 1/10/2014 SPK value SPK Ref Val %REC LowLimit

SeqNo: 461902

TestCode: EPA Method 300.0: Anions

LowLimit

RPDLimit

Qual

0.50

HighLimit

%RPD

Sample ID LCS-b

SampType: LCS Client ID: LCSW

Batch ID: R16037

PQL

0.50

PQL

RunNo: 16037

Prep Date:

Analysis Date: 1/10/2014

Result

Result

4.7

SeqNo: 461904 %REC

Units: mg/L HighLimit

RPDLimit %RPD Qual

Analyte Chloride

Sample ID A4

SampType: CCV_4

TestCode: EPA Method 300.0: Anions

95.3

Client ID: BatchQC

Batch ID: R16037 Analysis Date: 1/10/2014 RunNo: 16037

%REC

93.3

SeqNo: 461910 LowLimit

Units: mg/L

110

110

HighLimit %RPD **RPDLimit** Qual

Analyte Chloride

Prep Date:

SampType: CCV_5

PQL

0.50

TestCode: EPA Method 300.0: Anions

Sample ID A5 Client ID: **BatchQC**

Batch ID: R16037

RunNo: 16037

90

LowLimit

90

Units: mg/L

HighLimit

110

110

Prep Date:

Analysis Date: 1/10/2014

Result

7.9

SeqNo: 461922 %REC

%RPD

RPDLimit Qual

Analyte Chloride

SampType: CCV_6

PQL

POI

0.50

0.50

98.2 TestCode: EPA Method 300.0: Anions

Sample ID A6 Client ID: **BatchQC**

Batch ID: R16037 Analysis Date: 1/10/2014

n

RunNo: 16037

Units: ma/L

Analyte Chloride

Prep Date:

Result 12

SPK value SPK Ref Val

SeqNo: 461934 %REC LowLimit

102

HighLimit

%RPD **RPDLimit**

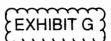
Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

Sample pH greater than 2 for VOA and TOC only.

- ND Not Detected at the Reporting Limit
- RLReporting Detection Limit

Page 3 of 5



Qual

Hall Environmental Analysis Laboratory, Inc.

WO#:

1401404

20-Jan-14

Client:

Permits West

Project:

Apache SWD Water Samples

Sample ID A4

SampType: CCV 4

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

Batch ID: R16037

0.50

RunNo: 16037

90

Prep Date:

Analysis Date: 1/10/2014

SeqNo: 461946

Units: mg/L

Analyte

PQL

%REC

%RPD

RPDLimit Qual

Chloride

Result 4.7

5.000

8.000

SPK value SPK Ref Val

94.4

HighLimit 110

Sample ID A5

BatchQC

SampType: CCV_5

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC

Batch ID: R16037

RunNo: 16037

Prep Date:

SeqNo: 461958

Units: mg/L

Analyte

Analysis Date: 1/10/2014

0.50

%RPD

Result 7.9 PQL SPK value SPK Ref Val

%REC LowLimit 98.6

HighLimit

RPDLimit Qual

Chloride

Sample ID A6

SampType: CCV_6

TestCode: EPA Method 300.0: Anions

110

Client ID:

BatchQC

Batch ID: R16037

RunNo: 16037

Units: mg/L

Prep Date:

Analysis Date: 1/11/2014

12

Result

SeqNo: 461966

Analyte Chloride

PQL 0.50

SPK value SPK Ref Vai

12.00

%REC 102

0

90

HighLimit %RPD 110

RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RLReporting Detection Limit Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1401404

20-Jan-14

Client:

Permits West

Project:

Apache SWD Water Samples

Sample ID MB-11204

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW**

Batch ID: 11204

RunNo: 16069

Analysis Date: 1/14/2014

Prep Date: 1/13/2014

SeqNo: 462742

Units: mg/L

%RPD

RPDLimit Qual

Analyte Total Dissolved Solids Result **PQL** ND 20.0

Sample ID LCS-11204

Client ID: LCSW

SampType: LCS

Batch ID: 11204

TestCode: SM2540C MOD: Total Dissolved Solids

RunNo: 16069

Prep Date: 1/13/2014

Analysis Date: 1/14/2014

SeqNo: 462743

Units: mg/L

HighLimit

Qual

Analyte Total Dissolved Solids Result **PQL**

SPK value SPK Ref Val %REC LowLimit

0

104

120

%RPD

20.0

1000

1040

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

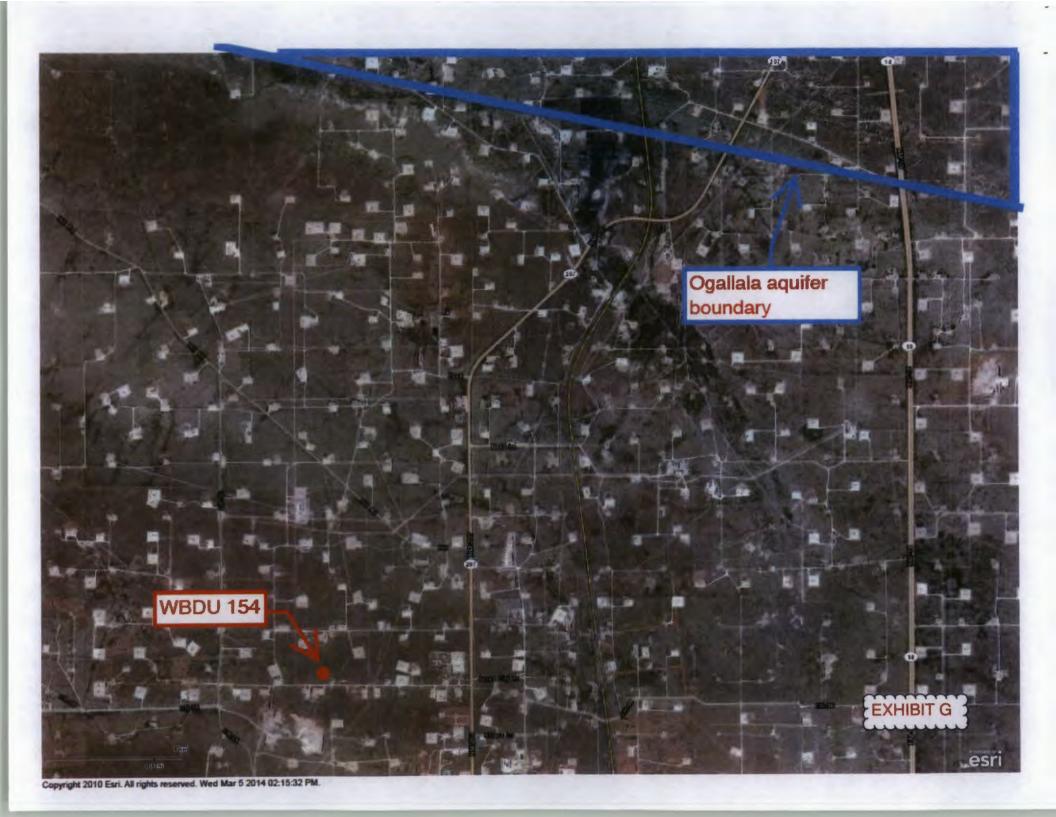
ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit RL

Page 5 of 5







Geologic Hazards Science Center

EHP Quaternary Faults







Sincerely,

Brian Wood

NM State Land Office P. O. Box 1148 Santa Fe. NM 87504-1148

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only, No action is needed unless you have questions or objections.

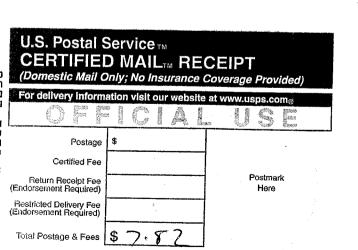
Well Name: West Blinebry Drinkard Unit 154 (state lease) TD = 6.950'Proposed Injection Zone: Blinebry, Tubb, & Drinkard from 5,613' - 6,670' Surface Hole Location: 895 FSL & 1810 FWL Sec. 16, T. 21 S., R. 37 E. Bottom Hole Location: 970 FSL & 1990 FWL Sec. 16, T. 21 S., R. 37 E. Approximate Location: 2 air miles north of Eunice, NM Applicant Name: Apache Corporation (432) 818-1167

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

Submittal Information: Application for a water injection well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM

87505. Their phone number is (505) 476-3440.

Please call me if you have any questions.

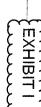


Sent To

Street, Apt. No.:

Cliv. State. ZIP+4

or PO Box No.





March 8, 2014

Sincerely.

BLM 620 E. Greene St. Carlsbad NM 88220

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM, This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

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Campbell & Hedrick P. O. Box 401 Midland TX 79701

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 154 (state lease)

TD = 6,950'
Proposed Injection Zone: Blinebry, Tubb, & Drinkard from 5,613' - 6,670'
Surface Hole Location: 895 FSL & 1810 FWL Sec. 16, T. 21 S., R. 37 E.
Bottom Hole Location: 970 FSL & 1990 FWL Sec. 16, T. 21 S., R. 37 E.
Approximate Location: 2 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1167

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

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PERMITS WEST, IN
PROVIDING PERMITS for LAND USERS
37 Verputo Loop, Santa Fe, New Mexico 87508 (505) 466-8120

March 8, 2014

Chevron USA Inc. P. O. Box 2100 Houston TX 77252

PS Form 3800, August 2006

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: 2 air miles north of Eunice, NM
Applicant Name: Apache Corporation (432) 818-1167
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

<u>Submittal Information:</u> Application for a water injection well will be filed with the NMOCD. If you have an objection, or wish to request a hearing, then it must be filed with the NMOCD within 15 days of receipt of this letter. The New Mexico Oil Conservation Division address is 1220 South St. Francis Dr. Santa Fe, NM 87505. Their phone number is (505) 476-3440.

Please call me if you have any questions. Sincerely, U.S. Postal Service TM CERTIFIED MAILTO RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.come 55 96 Postage 0007 Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 090 Postmark Here Total Postage & Fees m 701; OF PO BOX NO. City, State, ZIP+4

EXHIBIT I



Chevron USA Inc. P. O. Box 1635 Houston TX 77251

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

Well Name: West Blinebry Drinkard Unit 154 (state lease)

Proposed Injection Zone: Blinebry, Tubb, & Drinkard from 5,613' - 6,670'

Surface Hole Location: 895 FSL & 1810 FWL Sec. 16, T. 21 S., R. 37 E.

Bottom Hole Location: 970 FSL & 1990 FWL Sec. 16, T. 21 S., R. 37 E.

Approximate Location: 2 air miles north of Eunice. NM

Applicant Name: Apache Corporation (432) 818-1167

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.







March 8, 2014

ConocoPhillips P. O. Box 7500 Bartlesville OK 74005

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Applicant Name: Apache Corporation (432) 818-1167
Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.



EXHIBIT



Sincerely.

Elliott Hall Co. Utah LP P. O. Box 1321 Oaden UT 84402-1231

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

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Street, Apt. No.:

or PO Box No. City, State, ZIP+4

87505. Their phone number is (505) 476-3440.

Brian Wood U.S. Postal Service™ CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.com Postage Certified Fee Postmark Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees Sent To



37 Verang Loop, Santa Fe, Novy Mexico 87508.

March 8, 2014

Elliott Industries Ltd. Partnership P. O. Box 1328 Santa Fe NM 87504-1328

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Please call me if you have any questions.

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Six Aeches Co.
P. O. Box 481
Midland TX 79702-0481

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Proposed Injection Zone: Blinebry, Tubb, & Drinkard from 5,613' - 6,670'

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Approximate Location: 2 air miles north of Eunice, NM

Applicant Name: Apache Corporation (432) 818-1167

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

Sincerely,

Brian Wood

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March 8, 2014

Sincerely,

Stephens & Johnson Operating Co. P. O. Box 2249
Wichita Falls TX 76307

Apache Corporation is applying (see attached application) to drill its West Blinebry Drinkard Unit 154 well as a water injection well. As required by NM Oil Conservation Division (NMOCD) Rules, I am notifying you of the following proposed water injection well in Lea County, NM. This letter is a notice only. No action is needed unless you have questions or objections.

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Approximate Location: 2 air miles north of Eunice, NM

Applicant Name: Apache Corporation (432) 818-1167

Applicant's Address: 303 Veterans Airpark Lane, #3000, Midland, TX 79705

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Please call me if you have any questions.

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EXHIBITI

Affidavit of Publication

State of New Mexico, County of Lea.

> I, DANIEL RUSSELL PUBLISHER

of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
February 21, 2014

and ending with the issue dated
February 21, 2014

PUBLISHER

Sworn and subscribed to before me this 21st day of February, 2014

rebluary, 2014

Notary Public

My commission expires January 29, 2015

(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

State of New Mexico
My Commission Expires 2975

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL NOTICE February 21, 2014

Apache Cornoration is applying to drill the West Blinebry Drinkard Unit 154 well as a water injection well. The well is staked at (SHL) 895 FSL a 1810 FWL SEC 18, T 21 S R. 37 E. Las County NM. BHL will be 370 FSL a 1800 FWL 18-21s-37s. This is a miles north of Eurice NM. It will inject water into the Blinebry. Tubus, and Drinkard (maximum falection pressure = 1,122 psi) from 5,613 to 8-675, injection will be at a maximum rate of 9,000 Awpd. Interested parties must file objections or reduced to the properties or reduced for hearting with the NM Olf Conservation Division. 1220 South Seint Francis Dr. Senta Fe. NM 87505 within 15 days. Additional Information can be obtained by contacting: Brian Wood. Peimits West, Inc., 37 Varant Loop, Santa Fe. NM 87508. Phone number is (505) 486-8120.

02108485 BRIAN WOOD

PERMITS WEST 37 VERANO LOOP SANTA FE, NM 87508

00131285



| C-108 Review Checklist PERMIT TYPE: WFX/ PMX / SWD | | | | | | | | |
|---|--|----------------|---------------------------------------|--|--|--|--|--|
| Well No. 15 Well Name(s): west Blinebry DrinkAnd unit | | | | | | | | |
| API: 30-0 25-41459 Spud 855F56 7, 1810FWL | | | | Primacy 03/07/1982) | | | | |
| Footages 970 FSL \$ 1940 Fulls | ot or Unit <u>\vert</u> Sec <u> 6</u> | _Tsp <u>21</u> | S Rge 3 7 | County Lec- | | | | |
| General Location: WBD4 - EUNIC | e Pool: T | 4-15 | 7877 | Pool No.: 2 2500 | | | | |
| BLM 100K Map: JOJ Operator: Ap | ache corp | OGRID: | 873 Contac | t: BriAn woods | | | | |
| Operator: April 2403 COMPLIANCE RULE 5.9: Total Wells: 2887 Ina | active: 5 Fincl Assur: Ye | 2S Compl. | Order?IS 5. | 9 OK? Date: 5 12 9 | | | | |
| WELL FILE REVIEWED Current Status: | + Spud | | | | | | | |
| WELL DIAGRAMS: NEW: Proposed or RE-ENT | ER: Before Conv. After Co | onv. C | ogs in Imaging: WA | | | | | |
| Planned Rehab Work to Well: NA new well | | | | | | | | |
| Well Construction Details: Sizes (in) Borehole / Pip | Setting Depths (ft) | | Cement Sx or Cf | Cement Top and Determination Method | | | | |
| Planned For Existing Surface N & - 5/8 | , , | Stage Tool | 420 | Surface | | | | |
| Planned_or ExistingInterm/Prod | | | | | | | | |
| Planned_or Existing _Interm/Prod | | | | | | | | |
| Planned for Existing Prod/Line 78 5 - 2 | 1 6950 | None | 1490 | Sunface | | | | |
| Planned_or ExistingLiner 3/8 | " 5518) | TUDING | Chil ' | 307702 | | | | |
| Planned Yor Existing OH / PERF 5 1/2 | 5613 to 6670 | Inj Length | Completion | /Operation Details: | | | | |
| Injection Stratigraphic Units: Depths (ft) | Injection or Confining | Tops | Drilled TD 6 95 | <u> </u> | | | | |
| Adjacent Unit: Litho. Struc. (Por) | Units | 1 | | NEW PBTD | | | | |
| Confining Unit: Litho. Struc. (Por.) | Glorida | | NEW Open Hole (2) | or NEW Perfs | | | | |
| Proposed Inj Interval TOP: | 5613 Bluebra | | Tubing Size 2 3/8 | in. Inter Coated? | | | | |
| Proposed Inj Interval BOTTOM: | - 6670 DM/60 | | | epth <u>5563</u> ft ' | | | | |
| Confining Unit: Litho. Struc. Por. | Abe | | <u>-</u> | 5513 (100-ft limit) | | | | |
| Adjacent Unit: Litho. Struc. (Por | <u>.</u> | | * | ace Press. // 2 2 psi | | | | |
| AOR: Hydrologic and Geologic | | h | | 112 (0.2 psi per ft) | | | | |
| POTASH: R-111-P Notice P. A. BLM Sec (| Ord DHWIPP DHIVoticed? A | /// SALT/ | SALADO T:B: | CLIFF HOUSE NAME | | | | |
| FRESH WATER: Aquiter Coallet + alle | Max Depth 80 | HYDRO | AFFIRM STATEMEN | IT By Qualified Person | | | | |
| NMOSE Basin: CP9/28/1965 CAPITAN RE | EF: thru adi NA@ | No. Wells w | ithin 1-Mile Radius? | FW Analysis | | | | |
| NMOSE Basin: <u>CP9 24/1965</u> CAPITAN RE SAN AND Disposal Fluid: Formation Source(s) GUEEN | | | | | | | | |
| Disposal Int: Inject Rate (Avg/Max BWPD): 2504 | | | · · · · · · · · · · · · · · · · · · · | ystem: Closed@er Open | | | | |
| HC Potential: Producing Interval? Formerly Producing Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map (2) | | | | | | | | |
| AOR Wells: 1/2-M Radius Map? 46 Well List? Total No. Wells Penetrating Interval: 26 Horizontals? Penetrating Wells: No. Active Wells Num Repairs? on which well(s)? Diagrams? | | | | | | | | |
| | 1, | | | Diagrams? | | | | |
| Penetrating Wells: No. P&A Wells | | | | Diagrams?_/V0 | | | | |
| NOTICE: Newspaper Date 2-21-14 Mine | | | | N. Date 3-8 | | | | |
| RULE 26.7(A): Identified Tracts? Affected | | | | N. Date 3 - 8 | | | | |
| Permit Conditions: Issues: Now C re | uvened or | denti | Fied | | | | | |
| Add Permit Cond: No additional legi | Uvenets all | | | | | | | |