

DATE IN 4/17/2014	SUSPENSE	ENGINEER PRG	LOGGED IN 4/17/2014	TYPE WFX	APP NO. PMAM1410738932
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☒ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☒ Offset Operators, Leaseholders or Surface Owner
 [C] ☒ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

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

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

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

David Catanach
 Print or Type Name

David Catanach
 Signature

4/17/14
 Date

Agent-Apache Corporation
 Title

drcatanach@netscape.com
 E-Mail Address

- WFX
 - Apache Corporation
 873

Wey
 - West Blinberry
 Drink And Unit #30W
 30-025 - Pending
 - West Blinberry
 Drink And Unit #85W
 30-025 - Pending
 - West Blinberry
 Drink And Unit #18W
 30-025 - Pending
 - West Blinberry
 Drink And Unit #192W
 30-025 - Pending
Pool

April 17, 2014

Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attention: Ms. Jami Bailey, CPG
Division Director

HAND DELIVERED

Re: Form C-108
Apache Corporation
West Blinebry Drinkard Unit
Wells No. 130, 185, 188 and 192
Sections 8, 9, & 17, Township 21 South, Range 37 East, NMPM,
North Eunice Blinebry-Tubb-Drinkard Pool (22900)
Lea County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) to expand the West Blinebry Drinkard Unit Waterflood Project. Division Order No. R-12981, as amended, dated August 11, 2008 approved the statutory unitization of the West Blinebry Drinkard Unit Area ("Unit Area") and approved secondary recovery operations within the Unit Area. Apache Corporation proposes to drill the West Blinebry Drinkard Unit Wells No. 130, 185, 188 and 192 and complete the wells as injection wells in order to complete an efficient production/injection pattern within the Unit Area. These wells are located in Sections 8, 9 and 17, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

All the required information is enclosed. If additional information is needed, please contact me at (505) 690-9453.

Sincerely,



David Catanach
Agent for Apache Corporation
303 Veterans Airpark Lane, Suite 3000
Midland, Texas 79705

Xc: OCD-Hobbs

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Apache Corporation (OGRID-873)
ADDRESS: 303 Veterans Airpark Lane, Suite 3000 Midland, Texas 79705
CONTACT PARTY: David Catanach-Agent PHONE: (505) 690-9453
- 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 ☐ No
If yes, give the Division order number authorizing the project: Order No. R-12981 entered in Cases No. 14125/14126 on 8/11/08
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of 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: David Catanach TITLE: Agent-Apache Corporation
SIGNATURE: David Catanach DATE: 4/17/14
E-MAIL ADDRESS: drcatanach@netscape.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: Cases No. 14125/14126; WFX-913;

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

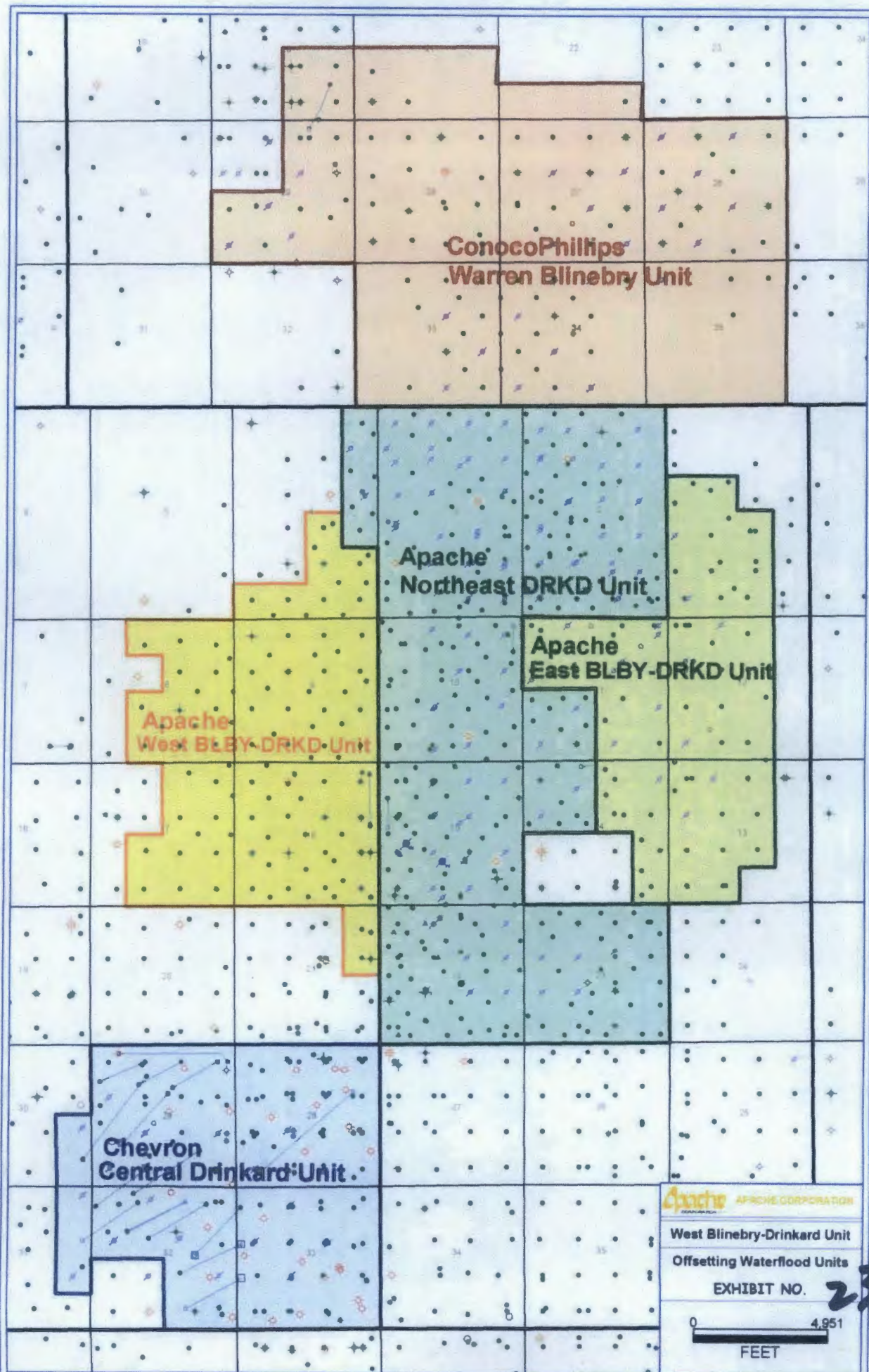
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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.

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




C-108 Application
Apache Corporation
West Blinebry Drinkard Unit Wells No. 130, 185, 188 and 192
Sections 8, 9 & 17, T-21S, R-37E, NMPM
Lea County, New Mexico

- I. The purpose of the application is to request approval to utilize (4) new wells as water injection wells within the West Blinebry Drinkard Unit Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Lea County, New Mexico, in order to normalize the pattern configuration in the south end of the Unit Area to 40-acre five spot patterns. This well reduce the number of isolated and unbalanced patterns in this area of the field, thereby improving sweep efficiencies and injection rates and consequently, oil recoveries should improve within this area.
- II. Apache Corporation ("Apache")
303 Veterans Airpark Lane, Suite 3000
Midland, Texas 79705
Contact Party: Mr. David Catanach (505) 690-9453
- III. Well schematic diagrams showing the proposed wellbore configurations for each of the four injection wells are attached. These four injection wells are new drills. **Please note that Apache proposes to initially complete the injection wells only within the Drinkard formation from a depth of approximately 6,500 feet to 6,700 feet . The remainder of the "Unitized Formation" may be perforated in each well at a later date, and consequently, Apache requests that the approved injection interval in each well comprise the "Unitized Formation" as defined by Order No. R-12981 as "that interval underlying the Unit Area occurring from a depth of 75 feet above the stratigraphic Blinebry marker down to the top of the Abo formation, as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, N.M.P.M., which is that interval correlative to the interval from 5,584 feet to 6,690 feet below the surface measured from derrick floor as shown on the Type Log (attached to the Unit Agreement as Exhibit "C")".**
- IV. This is an expansion of the West Blinebry Drinkard Unit Waterflood Project. Division Order No. R-12981, as amended, dated August 11, 2008 approved the statutory unitization of the West Blinebry Drinkard Unit Area ("Unit Area") and approved secondary recovery operations within the Unit Area.
- V. Enclosed are maps that identify all wells/leases within a 2-mile radius of the proposed injection wells and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. Attached is an updated listing of wells within the AOR. AOR well data that was previously submitted to the Division in Cases No. 14125/14126 on May 15, 2008 and in the WFX application that resulted in Order No WFX-913 dated June 28, 2013 has not been re-submitted with this application. However, these wells were reviewed to make sure that their status has not changed since the earlier submittal. The AOR well data presented in this application only shows those wells whose well data was not presented in Cases No. 14125/14126 and WFX-913. The updated AOR well list

shows twelve (12) wells that do not penetrate the injection interval, and consequently well construction details are not required, and nine (9) active producing wells that do penetrate the injection interval. An examination of the updated AOR well data indicates that all wells are constructed in such a manner so as to confine the injected fluid to the proposed injection interval.

- VII. 1. The average water injection rate is 650 BWPD per well, and the maximum injection rate is 1,500 BWPD per well. If the average or maximum rates increase in the future, the Division will be notified.
2. This will be a closed system.
3. The proposed average surface injection pressure will be in compliance with the Division's assigned gradient of 0.2 psi/ft of depth to the top injection perforation in each well (Initial Injection Interval 6,500'-6,700' x 0.2 psi = 1,300 psi). If an injection pressure higher than 1,300 psi is necessary, Apache will conduct step rate injection tests to determine the fracture pressure of the injection interval. ✓
4. Produced water from the North Eunice Blinebry-Tubb-Drinkard Pool originating from wells within the Unit Area will be re-injected into the subject injection wells. If additional make-up water is necessary, Apache will utilize San Andres produced water (as described in Case No. 14126).
5. Injection is to occur into a formation that is oil productive.
- VIII. The formations being targeted for water injection are the Blinebry and Drinkard at depths ranging from approximately 5,500 feet to 6,800 feet. These formations are Leonardian in age and are a sequence of shallow marine carbonates, which have for the most part been dolomatized. A five percent porosity cut off is used to determine "pay" as porosity less than this is considered non-productive at the existing and proposed reservoir pressures and reservoir fluid regimes. The vertical extent of the reservoir is limited top and bottom by impermeable shales and carbonates. Data obtained from the New Mexico State Engineer indicates that there are several Ogallala fresh water wells in this area whose depths range from 80 feet to 167 feet.
- IX. A stimulation treatment will be performed on the injection wells with a 15% HCL-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/- 10 BPM.
- X. Logs will be filed subsequent to the completion of drilling operations.
- XI. Attached is a water analysis from two fresh water wells within the Unit Area. These water analysis were previously presented in Case No. 14126. ✓
- XII. Affirmative statement is enclosed. XIII. Proof of Notice is enclosed

<div style="text-align: center;"> <p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=541691.6 N X=856306.1 E</p> <p>LAT.=32.483916° N LONG.=103.177863° W</p> <p>LAT.=32° 29' 02" N LONG.=103° 10' 40" W</p> </div>	<div style="text-align: center;">  </div> <div style="text-align: center; margin-top: 20px;"> <p>DETAIL</p> <p>3489.2' 3488.5'</p> <p>600'</p> <p>3482.3' 3480.2'</p> </div>						
<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <hr/> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>							
<p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: center;">DECEMBER 24, 2013</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <div style="text-align: right; margin-top: 20px;"> <p><i>Gary G. Edson 1/9/14</i></p> <table border="0" style="width: 100%;"> <tr> <td>Certificate Number</td> <td>Gary G. Edson</td> <td>12641</td> </tr> <tr> <td></td> <td>Ronald E. Edson</td> <td>3239</td> </tr> </table> </div>		Certificate Number	Gary G. Edson	12641		Ronald E. Edson	3239
Certificate Number	Gary G. Edson	12641					
	Ronald E. Edson	3239					
<p>BK1 WSC W O 13 11 1273</p>							

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name WEST BLINEBRY DRINKARD UNIT	
Well Number	185W	
CGRID No	Operator Name APACHE CORPORATION	Elevation 3503'

Surface Location									
UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	8	21-S	37-E		695	SOUTH	1760	EAST	LEA

Bottom Hole Location If Different From Surface									
UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres		Joint or Infill		Consolidation Code		Order No.			

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

<div style="text-align: center;"> <p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=543154.8 N X=855071.8 E</p> <p>LAT.=32.487975° N LONG.=103.181814° W</p> <p>LAT.=32° 29' 17" N LONG.=103° 10' 55" W</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>DETAIL</p> </div>	<p style="text-align: center;">OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <hr/> <p style="text-align: center;">SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p style="text-align: center;">DECEMBER 23, 2013</p> <p>Date of Survey _____ Signature & Seal of Professional Surveyor _____</p> <div style="text-align: right; margin-top: 20px;"> <p><i>Gary G. Eidson 1/9/14</i></p> <p>Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239</p> <p>BKL JWSC W.O. 15111278</p> </div>
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DISTRICT I
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Phone (575) 393-6161 Fax (575) 393-0720

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DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6120

DISTRICT IV
1220 S. St. Francis Dr. Santa Fe, NM 87505
Phone (505) 476-3400 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

CLAMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name WEST BLINEBRY DRINKARD UNIT	Well Number 188W
UGRID No	Operator Name APACHE CORPORATION	Elevation 3500'

Surface Location

UT or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East West line	County
N	9	21-S	37-E		640	SOUTH	2170	WEST	LEA

Bottom Hole Location If Different From Surface

UT or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No						

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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y= 543137.8 N X= 859001.8 E</p> <p>LAT.= 32.487811° N LONG.= 103.169071° W</p> <p>LAT.= 32° 29' 16" N LONG.= 103° 10' 09" W</p> <p>DETAIL</p> <p>3504.3' 3496.7'</p> <p>3502.3' 3495.0'</p> <p>2170'</p> <p>SEE DETAIL</p> <p>640'</p> <p>600'</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</p> <p>DECEMBER 30, 2013</p> <p>Date of Survey _____</p> <p>Signature & Seal of Professional Surveyor _____</p> <p><i>Gary G. Erdson</i> 1/30/14</p> <p>Certificate Number Gary G. Erdson 12641 Ronald J. Erdson 3239</p> <p>ACK JWSO W.O. 15311279</p>
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1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name WEST BLINEBRY DRINKARD UNIT	Well Number 192W
GRID No.	Operator Name APACHE CORPORATION	Elevation 3521'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	8	21-S	37-E		1865	SOUTH	1985	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No

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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>SURFACE LOCATION Y=544322.5 N X=854834.0 E</p> <p>LAT.=32.491191° N LONG.=103.182544° W</p> <p>LAT.=32° 29' 28" N LONG.=103° 10' 57" W</p>	<p><u>DETAIL</u></p> <p>3528.0' 3523.9'</p> <p>600'</p> <p>600'</p> <p>3515.1' 3515.6'</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>1985'</p> <p>1865'</p>		

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation

WELL NAME & NUMBER: West Blinebry Drinkard Unit No. 130 (API No. Not Yet Assigned)

WELL LOCATION:	780' FNL & 540' FEL	A	17	21 South	37 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 11" Casing Size: 8 5/8" @ 1,286'

Cemented with: 440 Sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 6,950'

Cement with: 905 sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Total Depth: 6,950'

Injection Interval

Initial: Drinkard: 6,500'-6,700'

Ultimate: Blinebry-Tubb-Drinkard: 5,584'-6,690'*

* “Unitized Formation” as defined by Order No. R-12981 which is that interval correlative to the interval from 5,584’-6,690’ as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, NMPM.

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.6# J-55

Lining Material: Internally Plastic Coated

Type of Packer: Arrowset 1-X Packer

Packer Setting Depth: 6,400' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes No

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): North Eunice Blinbry-Tubb-Drinkard Pool (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.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Eumont Yates-Seven Rivers-Queen Pool (5,000'); Penrose Skelly-Grayburg Pool (5,000'); North Eunice-San Andres (Gas) Pool (5,000'); Wantz-Abo Pool (8,000');

Apache Corporation

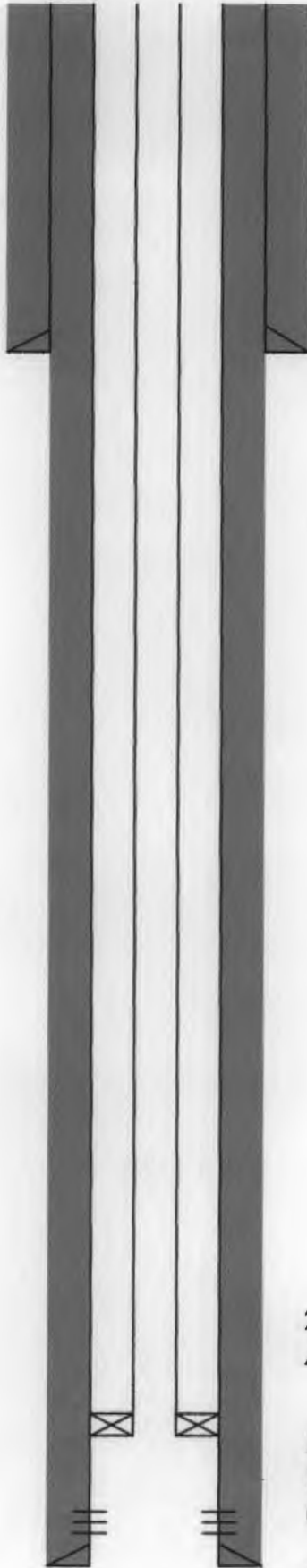
West Blinebry Drinkard Unit No. 130

API No. (Not Yet Assigned)

780' FNL & 540' FEL (Unit A)

Section 17, T-21 South, R-37 East, NMPM

Lea County, New Mexico



11" Hole; Set 8 5/8" 24# J-55 Csg. @ 1,286'

Cement w/440 sx. Class C

Circulate cement to surface

**2 3/8" 4.6# J-55 IPC Tubing set in an
Arrowset 1-X Packer @ 6,400'**

Initial Injection Interval: Drinkard: 6,500'-6,700' (Estimated)

**Ultimate Injection Interval: Blinebry-Tubb-Drinkard 5,584'-6,690'
("Unitized Formation")**

7 7/8" Hole; Set 5 1/2" 17# L-80 Csg. @ 6,950'

Cement w/905 sx. Class C

Circulate cement to surface

T.D.: 6,950'

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation

WELL NAME & NUMBER: West Blinebry Drinkard Unit No. 185 (API No. Not Yet Assigned)

WELL LOCATION:	695' FSL & 1760' FEL	0	8	21 South	37 East
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 11" Casing Size: 8 5/8" @ 1,275'

Cemented with: 440 Sx. or _____ ft³

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ or _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 6,950'

Cement with: 905 sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Total Depth: 6,950'

Injection Interval

Initial: **Drinkard:** 6,500'-6,700'

Ultimate: Blinebry-Tubb-Drinkard: 5,584'-6,690'*

* “Unitized Formation” as defined by Order No. R-12981 which is that interval correlative to the interval from 5,584’-6,690’ as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, NMPM.

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.6# J-55

Lining Material: Internally Plastic Coated

Type of Packer: Arrowset 1-X Packer

Packer Setting Depth: 6,400' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes No

If no, for what purpose was the well originally drilled: _____

2. Name of the Injection Formation: Blinebry-Tubb-Drinkard

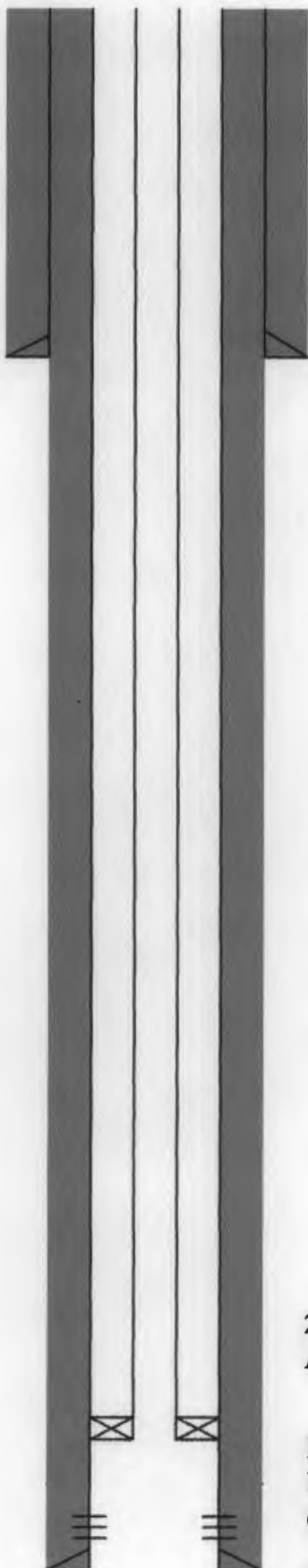
3. Name of Field or Pool (if applicable): North Eunice Blinebry-Tubb-Drinkard Pool (22900)

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.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Eumont Yates-Seven Rivers-Queen Pool (5,000'); Penrose Skelly-Grayburg Pool (5,000'); North Eunice-San Andres (Gas) Pool (5,000'); Wantz-Abo Pool (8,000');

Apache Corporation
West Blinebry Drinkard Unit No. 185
API No. (Not Yet Assigned)
695' FSL & 1760' FEL (Unit O)
Section 8, T-21 South, R-37 East, NMPM
Lea County, New Mexico



11" Hole; Set 8 5/8" 24# J-55 Csg. @ 1,275'
Cement w/440 sx. Class C
Circulate cement to surface

2 3/8" 4.6# J-55 IPC Tubing set in an
Arrowset 1-X Packer @ 6,400'

Initial Initial Injection Interval: Drinkard: 6,500'-6,700' (Estimated)
Ultimate Injection Interval: Blinebry-Tubb-Drinkard 5,584'-6,690'
("Unitized Formation")

7 7/8" Hole; Set 5 1/2" 17# L-80 Csg. @ 6,950'
Cement w/905 sx. Class C
Circulate cement to surface

T.D.: 6,950'

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation

WELL NAME & NUMBER: West Blinebry Drinkard Unit No. 188 (API No. Not Yet Assigned)

WELL LOCATION: 640' FSL & 2170' FWL N 9 21 South 37 East
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 11" Casing Size: 8 5/8" @ 1,275'

Cemented with: 440 Sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: Casing Size:

Cemented with: or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 6,950'

Cement with: 905 sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Total Depth: 6,950'

Injection Interval

Initial: Drinkard: 6,500'-6,700'

Ultimate: Blinebry-Tubb-Drinkard: 5,584'-6,690'*

* "Unitized Formation" as defined by Order No. R-12981 which is that interval correlative to the interval from 5,584'-6,690' as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, NMPM.

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.6# J-55

Lining Material: Internally Plastic Coated

Type of Packer: Arrowset 1-X Packer

Packer Setting Depth: 6,400' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes No

If no, for what purpose was the well originally drilled: _____

2. Name of the Injection Formation: Blinbry-Tubb-Drinkard

3. Name of Field or Pool (if applicable): North Eunice Blinbry-Tubb-Drinkard Pool (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.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Eumont Yates-Seven Rivers-Queen Pool (5,000'); Penrose Skelly-Grayburg Pool (5,000'); North Eunice-San Andres (Gas) Pool (5,000'); Wantz-Abo Pool (8,000');

Apache Corporation

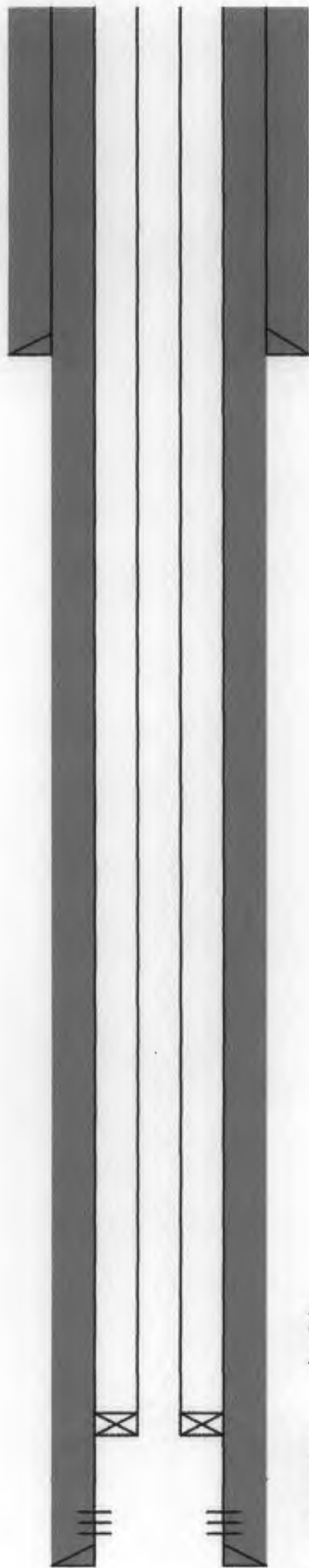
West Blinebry Drinkard Unit No. 188

API No. (Not Yet Assigned)

640' FSL & 2170' FWL (Unit N)

Section 9, T-21 South, R-37 East, NMPM

Lea County, New Mexico



11" Hole; Set 8 5/8" 24# J-55 Csg. @ 1,275'

Cement w/440 sx. Class C

Circulate cement to surface

**2 3/8" 4.6# J-55 IPC Tubing set in an
Arrowset 1-X Packer @ 6,400'**

Initial Injection Interval: Drinkard: 6,500'-6,700' (Estimated)

**Ultimate Injection Interval: Blinebry-Tubb-Drinkard: 5,584'-6,690'
("Unitized Formation")**

7 7/8" Hole; Set 5 1/2" 17# L-80 Csg. @ 6,950'

Cement w/905 sx. Class C

Circulate cement to surface

T.D.: 6,950'

INJECTION WELL DATA SHEET

OPERATOR: Apache Corporation

WELL NAME & NUMBER: West Blinebry Drinkard Unit No. 192 (API No. Not Yet Assigned)

WELL LOCATION: 1865' FSL & 1985' FEL J 8 21 South 37 East
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See Attached Wellbore Schematic

WELL CONSTRUCTION DATA (PROPOSED)

Surface Casing

Hole Size: 11" Casing Size: 8 5/8" @ 1,333'

Cemented with: 450 Sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Hole Size: Casing Size:

Cemented with: or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7 7/8" Casing Size: 5 1/2" @ 6,950'

Cement with: 905 sx. or ft³

Top of Cement: Surface Method Determined: Circulate

Total Depth: 6,950'

Injection Interval

Initial: Drinkard: 6,500'-6,700'

Ultimate: Blinebry-Tubb-Drinkard: 5,584'-6,690'*

* "Unitized Formation" as defined by Order No. R-12981 which is that interval correlative to the interval from 5,584'-6,690' as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, NMPM.

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" 4.6# J-55 Lining Material: Internally Plastic Coated

Type of Packer: Arrowset 1-X Packer

Packer Setting Depth: 6,400' or within 100' of the uppermost injection perforations

Other Type of Tubing/Casing Seal (if applicable): None

Additional Data

1. Is this a new well drilled for injection: X Yes No

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): North Eunice Blinebry-Tubb-Drinkard Pool (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.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Eumont Yates-Seven Rivers-Queen Pool (5,000'); Penrose Skelly-Grayburg Pool (5,000'); North Eunice-San Andres (Gas) Pool (5,000'); Wantz-Abo Pool (8,000');

Apache Corporation

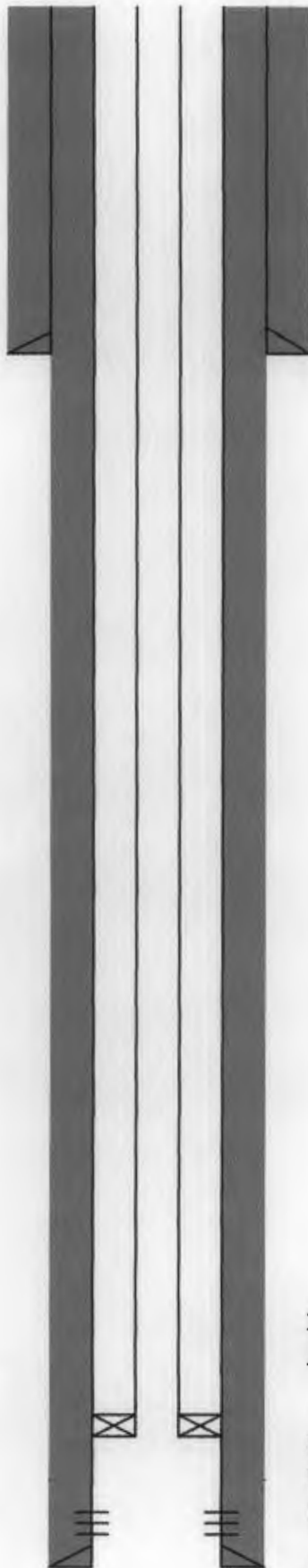
West Blinebry Drinkard Unit No. 192

API No. (Not Yet Assigned)

1865' FSL & 1985' FEL (Unit J)

Section 8, T-21 South, R-37 East, NMPM

Lea County, New Mexico



11" Hole; Set 8 5/8" 24# J-55 Csg. @ 1,333'

Cement w/450 sx. Class C

Circulate cement to surface

**2 3/8" 4.6# J-55 IPC Tubing set in an
Arrowset 1-X Packer @ 6,400'**

Initial Injection Interval: Drinkard: 6,500'-6,700' (Estimated)

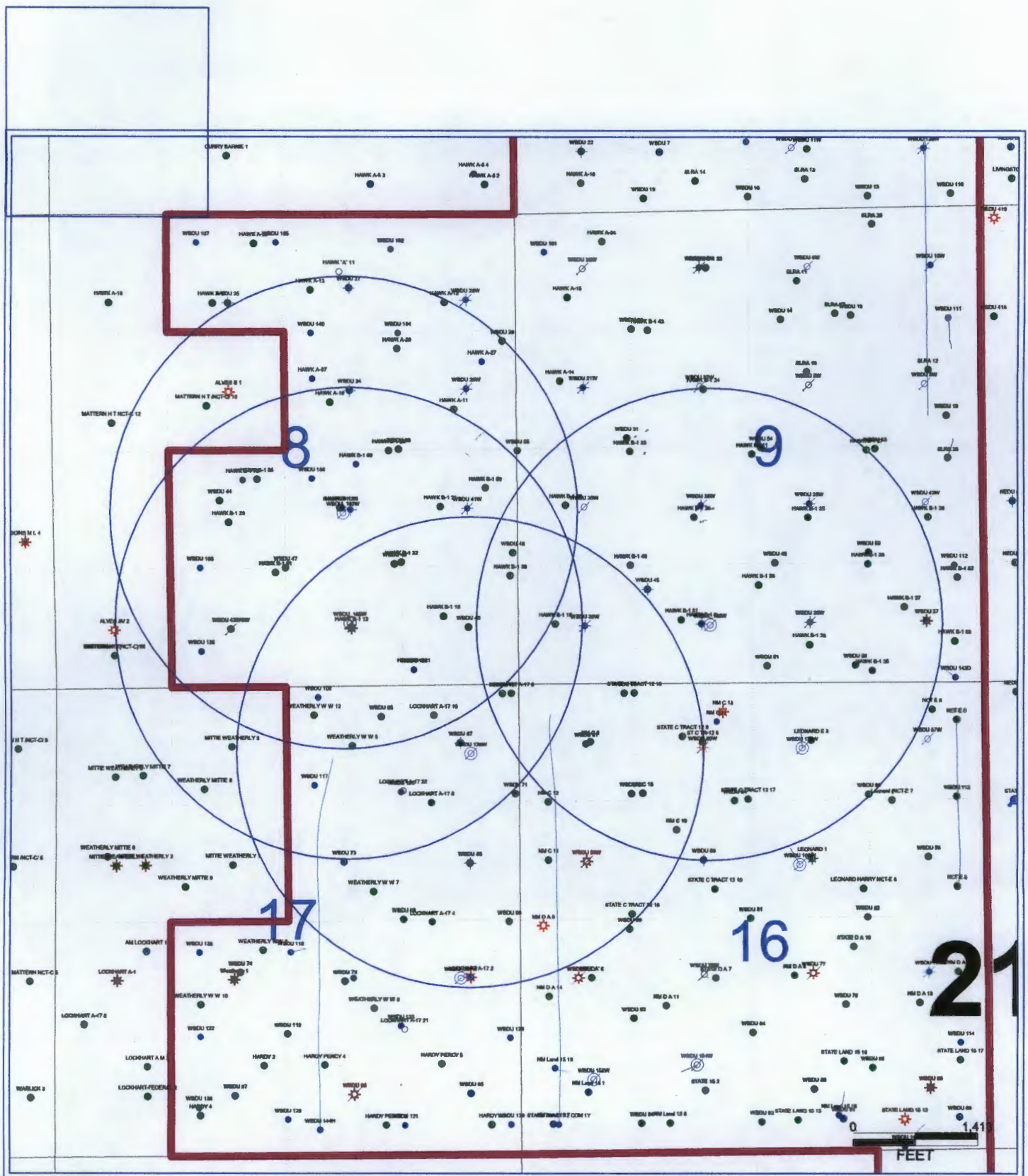
**Ultimate Injection Interval: Blinebry-Tubb-Drinard 5,584'-6,690'
("Unitized Formation")**

7 7/8" Hole; Set 5 1/2" 17# L-80 Csg. @ 6,950'

Cement w/905 sx. Class C

Circulate cement to surface

T.D.: 6,950'



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Apache Corporation
Form C-108: WBDU-4 Wells
1/2-Mile Radius Map

APACHE CORPORATION
UPDATED AREA OF REVIEW WELL LIST
WBDU WELLS NO. 130, 185, 188 & 192

API NUMBER	OPERATOR	LEASE NAME	WELL NO.	WELL TYPE	STATUS	FTG. NO.	NIS	FTG. DIM.	E/W	UNIT	SEC.	TSHP.	RNG.	DATE DRILLED	TOTAL DEPTH	HOLE SIZE	CSG. SIZE	SET AT	SK. CMT.	CMT. TOP	MTD.	HOLE SIZE	CSG. SIZE	SET AT	SK. CMT.	CMT. TOP	MTD.	COMPLETION	REMARKS
30-025-06436	Lanexco, Inc.	Alves B	1	P	PA	1980'	N	1980'	W	F	8	21S	37E	Aug-57	3,679'													Yates-Seven Rivers	
30-025-25548	Gulf Oil Corp.	H. T. Mattem NCT-C	13	P	ND	1980'	S	660'	W	L	8	21S	37E																
30-025-27527	Gulf Oil Corp.	H. T. Mattem NCT-C	13	P	ND	1980'	S	660'	W	L	8	21S	37E																
30-025-35803	Apache Corp.	Hawk "A"	10	P	Active	2100'	N	2100'	E	G	8	21S	37E	Apr-02	4,200'													Grayburg	
30-025-35807	Apache Corp.	Hawk Federal B 1	29	P	Active	1830'	S	1980'	W	K	8	21S	37E	Feb-02	4,200'													Grayburg	
30-025-35873	Apache Corp.	Hawk "A"	13	P	Active	850'	N	2310'	E	B	8	21S	37E	Jun-02	4,200'													Grayburg	
30-025-38021	Apache Corp.	Hawk "A"	20	P	Active	1510'	N	1370'	E	G	8	21S	37E	Sep-06	4,403'													Grayburg	
30-025-39511	Apache Corp.	Hawk Federal B 1	55	P	Active	2310'	S	2310'	W	K	8	21S	37E	Oct-09	4,507'													Grayburg	
30-025-39852	Apache Corp.	Hawk "A"	27	P	Active	1650'	N	380'	E	H	8	21S	37E	Nov-10	4,402'													Grayburg	
30-025-35797	Apache Corp.	Hawk Federal B 1	24	P	Active	2000'	N	2120'	W	F	9	21S	37E	Mar-02	4,200'													Grayburg	
30-025-35799	Apache Corp.	Hawk Federal B 1	26	P	Active	1840'	S	2000'	W	K	9	21S	37E	Mar-02	4,200'													Grayburg	
30-025-36664	Apache Corp.	Hawk Federal B 1	41	P	Active	2590'	S	2630'	W	K	9	21S	37E	May-04	4,350'													Grayburg	
30-025-36663	Apache Corp.	Hawk Federal B 1	33	P	Active	2630'	S	1250'	W	L	9	21S	37E	May-04	4,345'													Grayburg	
30-025-37188	Chevron USA, Inc.	Mittie Weatherly	8	P	Active	1140'	N	1690'	W	C	17	21S	37E	Sep-05	4,326'													Grayburg	
30-025-21621	Apache Corp.	WBDU	24	P	Active	1980'	N	1980'	W	G	8	21S	37E	Feb-66	6,819'	11"	8 5/8"	1330'	600	Surface	Circ.	7 7/8"	5 1/2"	6819'	640	3,125'	T.S.	5,687'-6,724' Perf.	Blinbry-Drinkard DHC Completion
30-025-25411	Chevron USA, Inc.	H. T. Mattem NCT-C	10	P	Active	2130'	N	1730'	W	F	8	21S	37E	Mar-77	7,201'	12 1/2"	8 5/8"	1,355'	550	Surface	Circ.	7 7/8"	5 1/2"	6,800'	2000	Surface	Circ.	6,800'-7,201' O.H.	Abo Completion: 5 1/2" csg. stage cmt. 1st stage-750 sx. 2nd stage-1250 sx. DV Tool @ 3,018'
30-025-40272	Apache Corp.	WBDU	104	P	Active	1331'	N	1330'	E	G	8	21S	37E	Oct-11	7,293'	12 1/4"	8 5/8"	1,398'	750	Surface	Circ.	7 7/8"	5 1/2"	7,293'	1190	538'	Well File	5,664'-6,840' Perf.	Blinbry-Tubb-Drinkard Completion
30-025-40273	Apache Corp.	WBDU	108	P	Active	1330'	S	1650'	W	K	8	21S	37E	Oct-11	7,265'	12 1/4"	8 5/8"	1,330'	730	Surface	Circ.	7 7/8"	5 1/2"	7,265'	1200	210'	Well File	6,203'-6,823' Perf.	Tubb-Drinkard Completion
30-025-40276	Apache Corp.	WBDU	135	P	Active	400'	S	1650'	W	N	8	21S	37E	Nov-11	7,125'	12 1/4"	8 5/8"	1,317'	710	Surface	Circ.	7 7/8"	5 1/2"	7,125'	960	Surface	Circ.	6,662'-6,823' Perf.	Drinkard Completion
30-025-40677	Apache Corp.	Hawk A	37	P	Active	1850'	N	2290'	E	G	8	21S	37E	Dec-12	7,500'	11"	8 5/8"	1,418'	505	Surface	Circ.	7 7/8"	5 1/2"	7,500'	1250	Surface	Circ.	6,972'-7,407' Perf.	Abo Completion
30-025-40678	Apache Corp.	Hawk Federal B 1	70	P	Active	2310'	S	2150'	W	K	8	21S	37E	Sep-12	7,300'	11"	8 5/8"	1,380'	500	Surface	Circ.	7 7/8"	5 1/2"	7,300'	1450	Surface	Circ.	6,928'-7,174' Perf.	Abo Completion
30-025-40695	Apache Corp.	WBDU	140	P	Active	1330'	N	2310'	E	G	8	21S	37E	Sep-12	7,150'	11"	8 5/8"	1,375'	500	Surface	Circ.	7 7/8"	5 1/2"	7,150'	1350	Surface	Circ.	5,843'-6,871' Perf.	Blinbry-Tubb-Drinkard Completion
30-025-38200	Apache Corp.	WBDU	54	P	Active	2620'	S	2510'	E	J	9	21S	37E	Apr-07	6,900'	12 1/4"	8 5/8"	1,320'	575	Surface	Circ.	7 7/8"	5 1/2"	6,900'	1000	207'	CBL	5,672'-6,681' Perf.	Blinbry-Tubb-Drinkard Completion

9 new wells in Abo
all production - all active



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 Number	POD Sub-Code	basin	County	Q 84	Q 16	Q 4	Sec	Twp	Range	X	Y	Depth Well	Depth Water	Water Column
CP 00552	LE			2	4	04	21S	37E		672700	3598022*	90	75	15
CP 00553	LE			2	4	04	21S	37E		672700	3598022*	90	75	15
CP 00554	LE			2	2	16	21S	37E		672744	3595610*	80	70	10
CP 00676	LE			4	4	18	21S	37E		669548	3594352*	140	106	34
CP 00877	LE					06	21S	37E		668920	3598153*	150	73	77
CP 00895	LE			1	1	20	21S	37E		669957	3593956*	163		
CP 00985 POD1	LE			4	4	2	19	21S	37E	669595	3593453	160		
CP 00986 POD1	LE			4	3	4	06	21S	37E	669110	3597437	154		
CP 01026 POD1	LE			1	1	3	17	21S	37E	669809	3594958	167	95	72

Average Depth to Water: 82 feet

Minimum Depth: 70 feet

Maximum Depth: 106 feet

Record Count: 9

PLSS Search:

Section(s): 4, 5, 6, 7, 8, 9,
16, 17, 18, 19,
20, 21

Township: 21S

Range: 37E

Apache Corporation
Form C-108: WBDU-4 Wells
State Engineer-Fresh Water Wells

*UTM location was derived from PLSS - see map

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.



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
APACHE CORPORATION
ATTN: NATALIE GLADDEN
P.O. BOX 1849
EUNICE, NM 88231
FAX TO: (575) 394-2425

Receiving Date: 05/22/08
Reporting Date: 05/23/08
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: WATER TEST FOR WEBB WTR. FLOOD

Sampling Date: 05/20/08
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	TDS (mg/L)	Cl (mg/L)
ANALYSIS DATE:		05/22/08	05/22/08
H14853-1	SP2 WTR WELL - WW WEATHERLY	1,320	416
H14853-2	SP3 WTR WELL WEST OF HOUSE	918	244
Quality Control		NR	500
True Value QC		NR	500
% Recovery		NR	100
Relative Percent Difference		NR	< 0.1
METHODS: EPA 600/4-79-020		160.1	SM4500-Cl-B


Chemist

05-23-08
Date


Apache Corporation
Form C-108: WBDU-4 Wells
Fresh Water Well Analysis

Oil Conservation Division
Case No.
Exhibit No. 32A

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 waived 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 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.

Form C-108
Affirmative Statement
Apache Corporation
WBDU Wells No. 130, 185, 188 & 192
Section 8, 9 & 17, T-21 South, R-37 East, NMPM,
Lea County, New Mexico

Available geologic and engineering data has been examined and no evidence of open faults or hydrological connection between the injection zone and any underground sources of drinking water has been found.



David Catanach
Agent for Apache Corporation

4/17/14

Date

April 17, 2014

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: OFFSET OPERATORS/LEASEHOLD OWNERS/SURFACE OWNERS
(See Attached List)

Re: Apache Corporation
Form C-108 (Application for Authorization to Inject)
West Blinebry Drinkard Unit
Wells No. 130, 185, 188 & 192
Sections 8, 9 & 17, T-21S, R-37E, NMPM,
Lea County, New Mexico

Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Apache Corporation West Blinebry Drinkard Unit Wells No. 130, 185, 188 & 192. You are being provided a copy of the application as an offset operator, leasehold owner or the surface owner of the land on which one or more of the injection wells are located. Apache Corporation proposes to drill and equip these wells as injection wells within the existing West Blinebry Drinkard Unit Waterflood Project in order to complete an efficient production/injection pattern within the West Blinebry Drinkard Unit Area ("Unit Area"). The Unit Area and the waterflood project were previously approved by Division Order No. R-12981 dated August 11, 2008. Injection within each of these wells will occur into the "Unitized Formation" which comprises the Blinebry-Tubb-Drinkard formation from a depth of 75 feet above the stratigraphic Blinebry marker down to the top of the Abo formation (approximately 5,584 feet to 6,690 feet within the Hawk B-1 Well No. 34 located in Unit N of Section 9, T-21S, R-37E).

Objections must be filed with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, within 15 days.

If you should have any questions, please contact me at (505) 690-9453.

Sincerely,



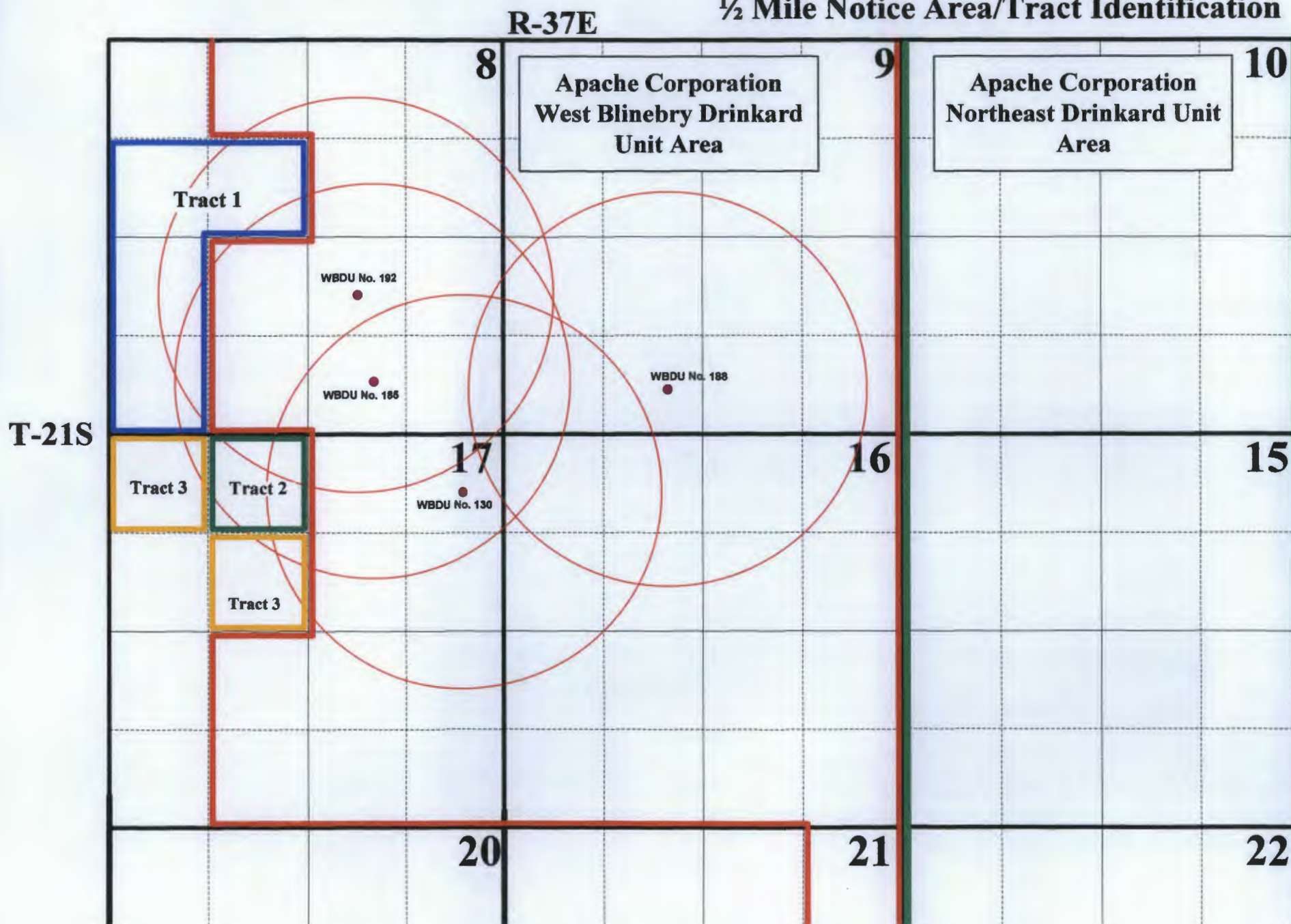
David Catanach-Agent
Apache Corporation
303 Veterans Airpark Lane, Suite 3000
Midland, Texas 79705

Enclosure

— WBDU Boundary
— NEDU Boundary

**Apache Corporation
Form C-108:**

**WBDU Wells No. 130, 185, 188 & 192
½ Mile Notice Area/Tract Identification**



Apache Corporation
Form C-108: WBDU Wells No. 130, 185, 188 & 192
Sections 8, 9 & 17, T-21 South, R-37 East, NMPM
Lea County, New Mexico

Offset Operator Notification List

All acreage within the ½ mile notice area for the WBDU Wells No. 130, 185, 188 & 192, **with the exception of the following-described acreage**, is located within the West Blinebry Drinkard Unit Waterflood Project, which is operated by Apache Corporation in the North Eunice Blinebry-Tubb-Drinkard Pool (See Attached Notice Map). In accordance with Division rules, notice of this application is being provided as follows:

Tract 1: S/2 NW/4 & W/2 SW/4 of Section 8, T-21S, R-37E

Leasehold Owner:

Chevron U.S.A., Inc.
15 Smith Road
Midland, Texas 79705

Tract 2: NE/4 NW/4 of Section 17, T-21S, R-37E

Leasehold Owners:

Chevron U.S.A., Inc.

Mary Duke Pearlbrook Estate
Joan Miller Ganz Trust
Carl David Ganz
Cathy Ganz Johnson
P.O. Box 65
Farmingdale, New York 11735

Greg & Nancy Vance Family Ltd. Partnership
Production Company Gathering Co., L.P.
8080 North Central Expressway, Suite 1090
Dallas, Texas 75206

Tract 3: NW/4 NW/4 & SE/4 NW/4 of Section 17, T-21S, R-37E

Leasehold Owners:

Chevron U.S.A., Inc.

Mary Duke Pearlbrook Estate
Joan Miller Ganz Trust
Carl David Ganz
Cathy Ganz Johnson
P.O. Box 65
Farmingdale, New York 11735

**Apache Corporation: Form C-108
WBDU Wells No. 130, 185, 188 & 192
Offset Operator Notification List (Page 2)**

Tract 3: NW/4 NW/4 & SE/4 NW/4 of Section 17, T-21S, R-37E (Cont.)

Greg & Nancy Vance Family Ltd. Partnership
Production Company Gathering Co., L.P.
8080 North Central Expressway, Suite 1090
Dallas, Texas 75206

Buttram Energies, Inc.
2601 NW Expressway
501 Oil Center West
Oklahoma City, OK 73112

Surface Owner at the Wellsite of the WBDU Wells No. 185, 188 & 192

Millard Deck Estate
Bank of America, N.A., Trustee
Millard Deck TUW
P.O. Box 1479
Fort Worth, Texas 76101

Surface Owner at the Wellsite of the WBDU No. 130

Chevron U.S.A., Inc.

Additional Notice

Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

7012 3050 0000 6819 6578

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Return Receipt Fee (Endorsement Required)		\$2.70	APR 17 2014
Restricted Delivery Fee (Endorsement Required)		\$0.00	04/17/2014
Total Postage & Fees	\$	\$8.24	

Sent To **Buttram Energies, Inc.**
2601 NW Expressway
501 Oil Center West
Oklahoma City, OK 73112

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6819 6561

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FORT WORTH TX 76101

Postage	\$	\$2.24	0501
Certified Fee		\$3.30	06
Return Receipt Fee (Endorsement Required)		\$2.70	APR 17 2014
Restricted Delivery Fee (Endorsement Required)		\$0.00	04/17/2014
Total Postage & Fees	\$	\$8.24	

Sent To **Bank of America, N.A., Trustee**
Millard Deck TUV
P.O. Box 1479
Fort Worth, Texas 76101

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6819 6592

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

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

FARMINGDALE NY 11735

Postage	\$	\$2.24	0501
Certified Fee		\$3.30	06
Return Receipt Fee (Endorsement Required)		\$2.70	APR 17 2014
Restricted Delivery Fee (Endorsement Required)		\$0.00	04/17/2014
Total Postage & Fees	\$	\$8.24	

Sent To **Mary Duke Pearlbrock Estate**
Joan Miller Ganz Trust
Carl David Ganz
Cathy Ganz Johnson
P.O. Box 65
Farmingdale, New York 11735

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6819 6585

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

DALLAS TX 75206

Postage	\$	\$2.24	0501
Certified Fee		\$3.30	06
Return Receipt Fee (Endorsement Required)		\$2.70	APR 17 2014
Restricted Delivery Fee (Endorsement Required)		\$0.00	04/17/2014
Total Postage & Fees	\$	\$8.24	

Sent To **Greg & Nancy Vance Family Ltd Partnership**
Production Company Gathering
Co., L.P.
8080 North Central Expressway,
Suite 1090
Dallas, Texas 75206

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6819 6608

U.S. Postal Service™
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(Domestic Mail Only; No Insurance Coverage Provided)

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

MIDLAND TX 79705

Postage	\$	\$2.24	0501
Certified Fee		\$3.30	06
Return Receipt Fee (Endorsement Required)		\$2.70	APR 17 2014
Restricted Delivery Fee (Endorsement Required)		\$0.00	04/17/2014
Total Postage & Fees	\$	\$8.24	

Sent To **Chevron U.S.A., Inc.**
15 Smith Road
Midland, Texas 79705

PS Form 3800, August 2006 See Reverse for Instructions

**Form C-108
Apache Corporation
West Blinebry Drinkard Unit
Wells No. 130, 185, 188 & 192
Sections 8, 9 & 17, T-21 South, R-37 East, NMPM
Lea County, New Mexico**

The following-described legal notice will be published in the:

**Hobbs Daily News Sun
P.O. Box 936
Hobbs, New Mexico 88241**

The Affidavit of Publication will be forwarded to the Division upon receipt by Apache Corporation

Apache Corporation, 303 Veterans Airpark Lane, Suite 3000, Midland Texas 79705 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to drill and equip the following-described wells as water injection wells within the West Blinebry Drinkard Unit Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Lea County, New Mexico:

WBDU Well No. 130	API No. (Not Yet Assigned) 780' FNL & 540' FEL (Unit A) Section 17, T-21S, R-37E, Injection Interval: Approximately 5,584'-6,690' (Perforated)
WBDU Well No. 185	API No. (Not Yet Assigned) 695' FSL & 1760' FEL (Unit O) Section 8, T-21S, R-37E Injection Interval: Approximately 5,584'-6,690' (Perforated)
WBDU Well No. 188	API No. (Not Yet Assigned) 640' FSL & 2170' FWL (Unit N) Section 9, T-21S, R-37E Injection Interval: Approximately 5,584'-6,690' (Perforated)
WBDU Well No. 192	API No. (Not Yet Assigned) 1865' FSL & 1985' FEL (Unit J) Section 8, T-21S, R-37E, Injection Interval: Approximately 5,584'-6,690' (Perforated)

Produced water from the North Eunice Blinebry-Tubb-Drinkard Pool and San Andres make-up water will be injected into the wells at average and maximum rates of 650 BWPD and 1,500 BWPD, respectively. The initial surface injection pressure is anticipated to be in compliance with the Division's limit of 0.2 psi/ft to the top perforation in each well, and the maximum surface injection pressure will be determined by step rate injection tests.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication. Additional information can be obtained by contacting Mr. David Catanach, Agent for Apache Corporation at (505) 690-9453.

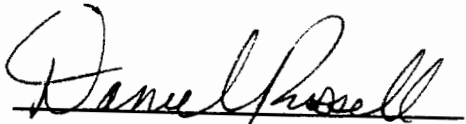
Affidavit of Publication

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
April 24, 2014
and ending with the issue dated
April 24, 2014



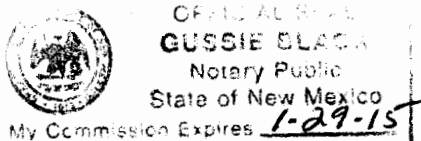
PUBLISHER

Sworn and subscribed to before me
this 24th day of
April, 2014



Notary Public

My commission expires
January 29, 2015
(Seal)



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

LEGAL	LEGAL	LEGAL
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LEGAL NOTICE April 24, 2014

Apache Corporation, 303 Veterans Airpark Lane, Suite 3000, Midland Texas 79705 has filed a Form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to drill and equip the following-described wells as water injection wells within the West Blinberry Drinkard Unit Waterflood Project, North Eunice Blinberry-Tubb-Drinkard Pool, Lea County, New Mexico:

- WBDU Well No. 130 API No. (Not Yet Assigned) 780' FNL & 540' FEL (Unit A)
Section 17, T-21S, R-37E,
Injection Interval: Approximately 5,584'-6,690' (Perforated)
- WBDU Well No. 185 API No. (Not Yet Assigned) 695' FSL & 1760' FEL (Unit O)
Section 8, T-21S, R-37E
Injection Interval: Approximately 5,584'-6,690' (Perforated)
- WBDU Well No. 188 API No. (Not Yet Assigned) 640' FSL & 2170' FWL (Unit N)
Section 9, T-21S, R-37E
Injection Interval: Approximately 5,584'-6,690' (Perforated)
- WBDU Well No. 192 API No. (Not Yet Assigned) 1865' FSL & 1985' FEL (Unit J)
Section 8, T-21S, R-37E,
Injection Interval: Approximately 5,584'-6,690' (Perforated)

Produced water from the North Eunice Blinberry-Tubb-Drinkard Pool and San Andres make-up water will be injected into the wells at average and maximum rates of 650 BWPD and 1,500 DWPDP, respectively. The initial surface injection pressure is anticipated to be in compliance with the Division's limit of 0.2 psi/ft to the top perforation in each well, and the maximum surface injection pressure will be determined by step rate injection tests.

Interested parties must file objections with the New Mexico Oil Conservation Division, 1220 S. St Francis Drive, Santa Fe, New Mexico 87505, within 15 days of the date of this publication. Additional information can be obtained by contacting Mr. David Catanach, Agent for Apache Corporation at (505) 690-9453.
#28962

67109591

0013-4814

DAVID CATANACH
REGULATORY CONSULTANT
1142 VUELTA DE LAS ACEQUIAS
SANTA FE, NM 87507



C-108 Review Checklist: Received 04/17/14 Add. Request: — Reply Date: — Suspended: — [Ver 13]

PERMIT TYPE: WFX PMX / SWD Number: 925 Permit Date: 07/14/14 Legacy Permits/Orders: R-12981

Well No. 130W Well Name(s): West Blueberry Drinkard Unit (WBDU)

API: 30-0 25-Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 780 FNL / 540 FEL Lot — or Unit A Sec 17 Tsp 21S Rge 37E County Lea

General Location: N of Eunice (± 5 miles) Pool: NE Blueberry-Tubb-Drinkard Pool No.: 22900

BLM 100K Map: Sul Operator: Apache Corp. OGRID: 873 Contact: David Catarach

COMPLIANCE RULE 5.9: Total Wells: 2907 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 07/14/14

WELL FILE REVIEWED ☒ Current Status: No API No. - no well file as of review

WELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: < Logs required for correlation

Planned Rehab Work to Well: NA - new well

Well Construction Details:		Sizes (in)	Setting	Cement	Cement Top and
		Borehole / Pipe	Depths (ft)	(S) or Cf	Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>		<u>11 / 8 5/8</u>	<u>0 to 1296</u>	<u>440</u>	<u>Cir to surf</u>
Planned <input checked="" type="checkbox"/> or Existing <u>Interm/Prod</u>		<u>7 7/8 / 5 1/2</u>	<u>0 to 6950</u>	<u>950</u>	<u>Cir to surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Liner</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>OH / PERF</u>		<u>5 1/2 - two se to 5 perfs</u>	<u>6500' to 6700'</u>	<u>Inj Length 200'</u>	
Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units	Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.				Drilled TD <u>—</u> PBTD <u>—</u>	
Confining Unit: Litho. Struc. Por.				NEW TD <u>6950</u> NEW PBTD <u>NA</u>	
Proposed Inj Interval TOP:				NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Proposed Inj Interval BOTTOM:				Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Yes</u>	
Confining Unit: Litho. Struc. Por.				Proposed Packer Depth <u>—</u> ft	
Adjacent Unit: Litho. Struc. Por.				Min. Packer Depth <u>20400</u> (100-ft limit)	
AOR: Hydrologic and Geologic Information					
POTASH: R-111-P <u>NA</u> Noticed? <u>NA</u> BLM Sec Ord <u>NA</u> WIRP <u>NA</u> Noticed? <u>NA</u> SALT/SALADO T: <u>—</u> B: <u>—</u> CLIFF HOUSE <u>—</u>					
FRESH WATER: Aquifer <u>Lea / Shallow alluvial</u> Max Depth <u><200'</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>					
NMOSE Basin: <u>Lea / Capitan</u> CAPITAN REEF: thru <input type="checkbox"/> adj <input type="checkbox"/> <u>NA</u> No. Wells within 1-Mile Radius? <u>9</u> FW Analysis <input checked="" type="checkbox"/>					
Disposal Fluid: <u>Formation Source(s) Production water</u> Analysis? <u>NA</u> On Lease <input checked="" type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input type="checkbox"/>					
Disposal Int: Inject Rate (Avg/Max BWPD): <u>1500</u> + <u>San Andres Makeup</u> Protectable Water? <u>—</u> Source: <u>—</u> System: Closed <input checked="" type="checkbox"/> or Open <input type="checkbox"/>					
HC Potential: Producing Interval? <u>—</u> Formerly Producing? <u>—</u> Method: Logs/DST/P&A/Other <u>—</u> 2-Mile Radius Pool Map <u>NA</u>					
AOR Wells: 1/2-M Radius Map? <u>Yes</u> Well List? <u>Yes</u> Total No. Wells Penetrating Interval <u>9 new wells</u> Horizontals? <u>0</u>					
Penetrating Wells: No. Active Wells <u>9</u> Num Repairs? <u>0</u> on which well(s)? <u>WBDU wells</u> Diagrams? <u>No</u>					
Penetrating Wells: No. P&A Wells <u>0</u> Num Repairs? <u>0</u> on which well(s)? <u>—</u> Diagrams? <u>No</u>					
NOTICE: Newspaper Date <u>04/24/14</u> Mineral Owner <u>BLM</u> Surface Owner <u>Private</u> N. Date <u>04/17/14</u>					
RULE 26.7(A): Identified Tracts? <u>Yes</u> Affected Persons: <u>Chevron USA / Paulbrook Estate / Vance Family</u> N. Date <u>04/17/14</u>					

Permit Conditions: Issues: None

Add Permit Cond: None - note definition of Vitrized Formation & protocols to add ports - notice satisfied



C-108 Review Checklist: Received 04/14/14 Add. Request: — Reply Date: — Suspended: — [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: 425 Permit Date: 07/14/14 Legacy Permits/Orders: R-12481

Well No. 185W Well Name(s): West Blinberry Drinkard Unit (WBDU)

API: 30-0 25 - Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 695 FSL / 1760 FEL Lot — or Unit 0 Sec 8 Tsp 21 S Rge 37E County Lca

General Location: North of Eunice Pool: NE Blinberry-Tubb Drinkard Pool No.: 22900

BLM 100K Map: Jal Operator: Apache Corp OGRID: 873 Contact: David Catarach

COMPLIANCE RULE 5.9: Total Wells: 2907 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 7/14/14

WELL FILE REVIEWED ☒ Current Status: No API No - no case file

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

Planned Rehab Work to Well: NA new well!

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>	<u>11/8 5/8</u>	<u>0 to 1,275</u>	<u>440</u>	<u>Circulated to surf</u>
Planned <input checked="" type="checkbox"/> or Existing <u>Interm/Prod</u>	<u>7/8 5 1/2</u>	<u>0 to 6,950</u>	<u>905</u>	<u>Circulated to surf</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Liner</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>OH/ PERF</u>	<u>5 1/2 - two perf sets</u>	<u>6500 to 6700</u>	<u>200</u>	

Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:		<u>See Unitized Formation</u>	
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:	
Drilled TD <u>—</u>	PBTD <u>—</u>
NEW TD <u>6950</u>	NEW PBTD <u>—</u>
NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Tubing Size <u>2 3/8</u> in.	Inter Coated? <u>Yes</u>
Proposed Packer Depth <u>—</u> ft	
Min. Packer Depth <u>6400</u> (100 ft limit)	
Proposed Max. Surface Press. <u>—</u> psi	
Admin. Inj. Press. <u>—</u> psi	

AOR: Hydrologic and Geologic Information

POTASH: R-111-P Noticed? NA BLM Sec Ord NA WIPP Noticed? NA SALT/SALADO T: — B: — CLIFF HOUSE —

FRESH WATER: Aquifer Shallow alluvial / aquifer Max Depth <200' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Capitan CAPITAN REEF: thru ☐ adj ☐ NAO ☒ No. Wells within 1-Mile Radius? 9 FW Analysis ☒

Disposal Fluid: Formation Source(s) Produced water + Analysis? — On Lease ☒ Operator Only ☐ or Commercial ☐

Disposal Int: Inject Rate (Avg/Max BWPD): — SA makeup Protectable Waters? Under flood System: Closed ☒ or Open ☐

HC Potential: Producing Interval? Water flood Formerly Producing? — Method: Logs/DST/P&A/Other — 2-Mile Radius Pool Map ☒

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 9 Horizontals? 0

Penetrating Wells: No. Active Wells — Num Repairs? — on which well(s)? See WBDU # 130W Diagrams? —

Penetrating Wells: No. P&A Wells — Num Repairs? — on which well(s)? — Diagrams? —

NOTICE: Newspaper Date — Mineral Owner — Surface Owner — N. Date —

RULE 26.7(A): Identified Tracts? — Affected Persons: See WBDU # 130W N. Date —

Permit Conditions: Issues: > see WBDU # 130W Review Checklist

Add Permit Cond: —



C-108 Review Checklist: Received 04/17/14 Add. Request: — Reply Date: — Suspended: 3 of 4 [Ver 13]

PERMIT TYPE: WFX / PMX / SWD Number: 925 Permit Date: 07/14/14 Legacy Permits/Orders: R-12981

Well No. 188W Well Name(s): West Blinberry Drinkard Unit

API: 30-0 25-Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 640 F&L 2170 F&L Lot — or Unit N Sec 9 Tsp 21S Rge 37E County Lea

General Location: North of Eunice Pool: NE Blinberry-Tubb-Drinkard Pool No.: 22900

BLM 100K Map: Jal Operator: Apache OGRID: 073 Contact: David Catanade

COMPLIANCE RULE 5.9: Total Wells: 2907 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 07/14/14

WELL FILE REVIEWED ☒ Current Status: No API - no well file

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

Planned Rehab Work to Well: NA - new well

Well Construction Details:		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement Sx or Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>		<u>11/8 5/8</u>	<u>0 to 1275</u>	<u>440</u>	<u>Cir. to Surface</u>
Planned <input checked="" type="checkbox"/> or Existing <u>Interm</u> <u>Prod</u>		<u>7 7/8 / 5 1/2</u>	<u>0 to 6950</u>	<u>905</u>	<u>Cir. to Surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input type="checkbox"/> or Existing <u>Liner</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Planned <input checked="" type="checkbox"/> or Existing <u>OH/PERF</u>		<u>5 1/2 - two</u>	<u>6500-6700</u>	<u>200</u>	

Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units	Tops	Completion/Operation Details:
Adjacent Unit: Litho. Struc. Por.					Drilled TD <u>—</u> PBTD <u>—</u>
Confining Unit: Litho. Struc. Por.					NEW TD <u>6950</u> NEW PBTD <u>NA</u>
Proposed Inj Interval TOP:					NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Proposed Inj Interval BOTTOM:					Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Yes</u>
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>6400</u> ft
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>6400</u> (100 ft limit)
					Proposed Max. Surface Press. <u>—</u> psi
					Admin. Inj. Press. <u>see R-12981</u> (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-PK 16 Noticed? NA BLM Sec Ord 16 WIPP 16 Noticed? NA SALT/SALADO T: — B: — CLIFF HOUSE —

FRESH WATER: Aquifer Shallow alluvial / Ogallala Max Depth < 200' HYDRO AFFIRM STATEMENT By Qualified Person ☒

NMOSE Basin: Capitan CAPITAN REEF Thru ☐ adj ☐ NA ☒ No. Wells within 1-Mile Radius? 9 FW Analysis ☒

Disposal Fluid: Formation Source(s) Produced water + SA makeup Analysis? — On Lease ☒ Operator Only ☐ or Commercial ☐

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

HC Potential: Producing Interval? Yes Formerly Producing? Yes Method: Logs/DSP/P&A/Other Project 2-Mile Radius Pool Map ☐

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 9 Horizontals? 0

Penetrating Wells: No. Active Wells — Num Repairs? — on which well(s)? See WBDU #130W Diagrams? —

Penetrating Wells: No. P&A Wells — Num Repairs? — on which well(s)? — Diagrams? —

NOTICE: Newspaper Date — Mineral Owner — Surface Owner — N. Date —

RULE 26.7(A): Identified Tracts? — Affected Persons: — N. Date —

Permit Conditions: Issues: > See WBDU #130W Review

Add Permit Cond: —

C-108 Review Checklist: Received 04/17/14 Add. Request: — Reply Date: — Suspended: — [Ver 13]PERMIT TYPE: WFX PMX / SWD Number: 925 Permit Date: 07/14/14 Legacy Permits/Orders: R-12981Well No. 192W Well Name(s): West Blinberry Drinkard UnitAPI: 30-0 25-Pending Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982)Footages 1865 FSL / 1985 FEL Lot — or Unit 5 Sec 8 Tsp 21S Rge 37E County LeaGeneral Location: North of Eunice Pool: NE Blinberry Tubb Drinkard Pool No.: 22900BLM 100K Map: Jal Operator: Apache Corp. OGRID: 873 Contact: David Catarach ConsultantCOMPLIANCE RULE 5.9: Total Wells: 2907 Inactive: 5 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 07/14/14WELL FILE REVIEWED ☒ Current Status: No API - no well fileWELL DIAGRAMS: NEW: Proposed ☒ or RE-ENTER: Before Conv. ☐ After Conv. ☐ Logs in Imaging: —Planned Rehab Work to Well: NA New well

Well Construction Details:		Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx & Cf	Cement Top and Determination Method
Planned <input checked="" type="checkbox"/> or Existing <u>Surface</u>		<u>11 / 8 5/8</u>	<u>0 to 1333</u>		<u>450</u>	<u>Cir. to surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>		<u>7 7/8 / 5 1/2</u>	<u>0 to 6950</u>	<u>None</u>	<u>905</u>	<u>Cir. to surface</u>
Planned <input type="checkbox"/> or Existing <u>Interm/Prod</u>						
Planned <input type="checkbox"/> or Existing <u>Prod/Liner</u>						
Planned <input type="checkbox"/> or Existing <u>Liner</u>						
Planned <input checked="" type="checkbox"/> or Existing <u>OH (PERF)</u>		<u>5 1/2</u>	<u>6500-6700</u>	<u>Inj Length</u> <u>200</u>		
Injection Stratigraphic Units:		Depths (ft)	Injection or Confining Units		Completion/Operation Details:	
Adjacent Unit: Litho. Struc. Por.			Tops		Drilled TD <u>—</u> PBTD <u>—</u>	
Confining Unit: Litho. Struc. Por.					NEW TD <u>6950</u> NEW PBTD <u>NA</u>	
Proposed Inj Interval TOP:					NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>	
Proposed Inj Interval BOTTOM:					Tubing Size <u>2 3/8</u> in. Inter Coated? <u>Yes</u>	
Confining Unit: Litho. Struc. Por.					Proposed Packer Depth <u>6400</u> ft	
Adjacent Unit: Litho. Struc. Por.					Min. Packer Depth <u>6400</u> (100-ft limit)	
					Proposed Max. Surface Press. <u>—</u> psi	
					Admin. Inj. Press. <u>See R-12981</u> (2 psi per ft)	
AOR: Hydrologic and Geologic Information						
POTASH: R-111-P <u>NA</u> Noticed? <u>NA</u> BLM Sec Ord <u>NA</u> WIPP <u>NA</u> Noticed? <u>NA</u> SALT/SALADO T: <u>—</u> B: <u>—</u> CLIFF HOUSE						
FRESH WATER: Aquifer <u>Alluvial / Ogallala</u> Max Depth <u><200'</u> HYDRO AFFIRM STATEMENT By Qualified Person <input checked="" type="checkbox"/>						
NMOSE Basin: <u>Capitan</u> CAPITAN REEF: thru <input type="checkbox"/> adj <input type="checkbox"/> <u>NA</u> No. Wells within 1-Mile Radius? <u>9</u> FW Analysis <input type="checkbox"/>						
Disposal Fluid: Formation Source(s) <u>Produced water / SA make up</u> Analysis? <u>—</u> On Lease <input checked="" type="checkbox"/> Operator Only <input type="checkbox"/> or Commercial <input type="checkbox"/>						
Disposal Int: Inject Rate (Avg/Max BWPD): <u>—</u> Protectable Waters? <u>NA</u> Source: <u>NA</u> System: Closed <input checked="" type="checkbox"/> or Open <input type="checkbox"/>						
HC Potential: Producing Interval? <u>Water flood Project</u> Formerly Producing? <u>—</u> Method: Logs/DST/P&A/Other <u>—</u> 2-Mile Radius Pool Map <input type="checkbox"/>						
AOR Wells: 1/2-M Radius Map? <u>Yes</u> Well List? <u>Yes</u> Total No. Wells Penetrating Interval: <u>9</u> Horizontals? <u>0</u>						
Penetrating Wells: No. Active Wells <u>—</u> Num Repairs? <u>—</u> on which well(s)? <u>See WBDU #130</u> Diagrams? <u>—</u>						
Penetrating Wells: No. P&A Wells <u>—</u> Num Repairs? <u>—</u> on which well(s)? <u>—</u> Diagrams? <u>—</u>						
NOTICE: Newspaper Date <u>—</u> Mineral Owner <u>—</u> Surface Owner <u>—</u> N. Date <u>—</u>						
RULE 26.7(A): Identified Tracts? <u>—</u> Affected Persons: <u>See WBDU #130W</u> N. Date <u>—</u>						

Permit Conditions: Issues: > See WBDU #130W Review ChecklistAdd Permit Cond: —