

DATE IN 8/20/08	SUSPENSE	ENGINEER W Jones	LOGGED IN 8/21/08	TYPE WEX	APP NO. PKVRO823443135
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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



30-025-06544

### 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 \_\_\_\_\_

*APACHE*  
*Case Blumby Drilled UNIT #34*

- [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

2008 AUG 21 AM 10 48  
 RECEIVED

[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.

Natalie Allert      Natalie Allert      Production Engineer      08/21/08  
 Print or Type Name      Signature      Title      Date

natalie.allert@apachecorp.com  
 e-mail Address

918-491-4886

RECEIVED

2008 AUG 20 AM 11 59

6120 S. YALE / SUITE 1500 / TULSA, OKLAHOMA 74136-4224



WWW.APACHECORP.COM  
Telephone: (918) 491-4900

August 19, 2008

Mr. William V. Jones  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RE: WFX Application  
Eunice Area (EBDU) Waterflood Unit  
One well to convert from Production to Injection  
EBDU #34

Mr. Jones,

You should find attached a complete copy of Apache Corporation's NMOCD form C-108 "Application to Inject" for one (1) well in the reference waterflood unit. It is necessary to convert this well from production to injection in order to better balance injection patterns and pattern voidage.

Notifications are being mailed today. Copies of return receipts and affidavit of publication will be forwarded as they are returned to Apache.

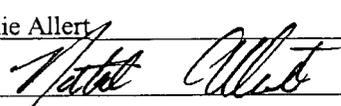
Thank you in advance for your attention to this matter. If you have any questions or comments please contact me at (918) 491-4886 or e-mail at [natalie.allert@apachecorp.com](mailto:natalie.allert@apachecorp.com)

Respectfully Submitted,

A handwritten signature in cursive script that reads "Natalie Allert".

Natalie Allert  
Production Engineer I

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: Apache Corporation  
ADDRESS: 6120 South Yale Ave., Suite 1500 Tulsa, OK 74136  
CONTACT PARTY: Natalie Allert PHONE: (918)491-4886
- 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: R-12394, Case 13503 and R-12395, Case 13504
- 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:
- 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: Natalie Allert TITLE: Production Engineer  
SIGNATURE:  DATE: 08/19/08  
E-MAIL ADDRESS: natalie.allert@apachecorp.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.

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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.

**INJECTION WELL DATA SHEET**

OPERATOR: Apache Corporation

WELL NAME & NUMBER: EBDU 34

WELL LOCATION: 1980' FNL 2310' FEL  
Footage Location

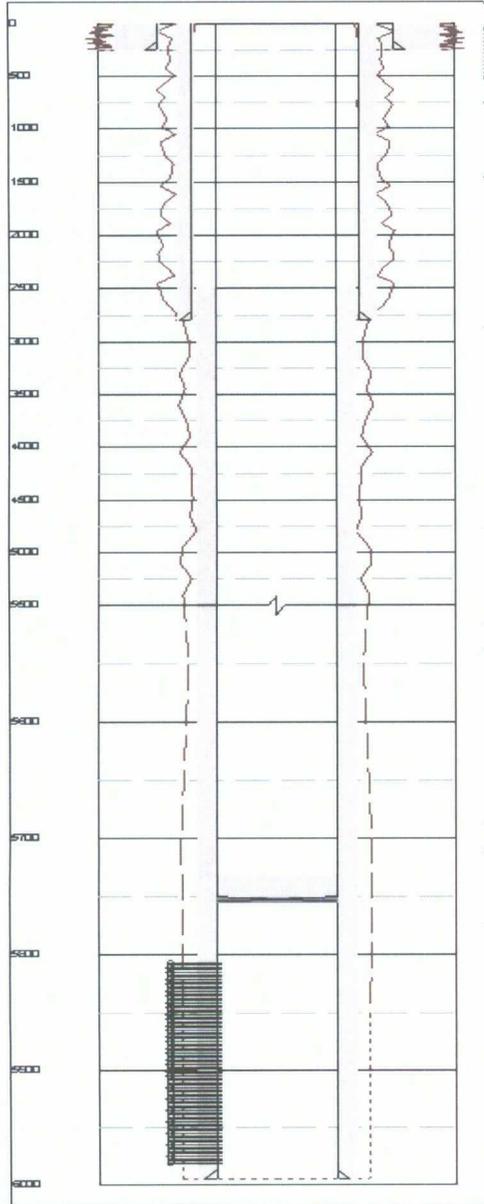
G  
Unit Letter

12  
Section

21S  
Township

37E  
Range

WELLBORE SCHEMATIC



TD: 6000'  
PBTD: 5750'

WELL CONSTRUCTION DATA

Surface Casing  
Hole Size: 14.75" Casing Size: 10.75"  
Cemented with: 251 sx  
Top of Cement: 0 Method Det: Circulated

Intermediate Casing  
Hole Size: 9" Casing Size: 7.625"  
Cemented with: 1090 sx  
Top of Cement: 0 Method Det: Circulated

Production Casing  
Hole Size: 7.25" Casing Size: 5.5"  
Cemented with: 200 sx  
Top of Cement: 2494 Method Det: Calculated

INJECTION WELL DATA SHEET  
Tubing Size: 2.875 Lining: Plastic  
Type of Packer: Tubing Anchor  
Packer Depth: 3778'  
Other type of Tubing/Casing Seal (if applicable):

Injection Interval  
5807' TO 5982'  
(Perforated or Open Hole; indicated which)

Additional Data

1 Is this a new drill for injection? Yes  No   
If no, for what purpose was the well originally drilled? Drilled as a Producing Well

2 Name of Injecting Formation: Blinebry

3 Name of Field of Pool (if applicable): Eunice Area (EBDU)

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, ie sacks of cement or plugs. Only perforated in Blinebry from 5807'-5982' but TA'd in 2008 at 5750' w/20' of cmt on top of plug

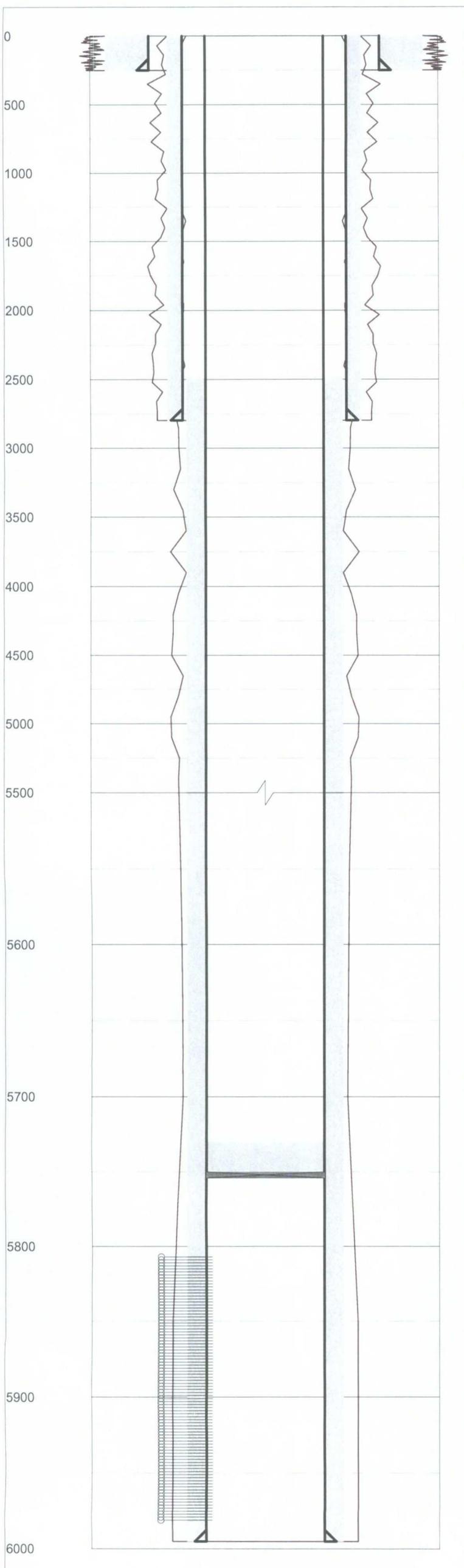
5 Give the name and depths of any oil or gas zones underlying the proposed injection zone in this area:

*Must be w/ TAN 100' of 5807'*

# CURRENT COMPLETION

Last Updated:

8/15/2008 8:17:21 AM



Field Name		Lease Name		Well No.
Eunice Area		EBDU		34
County	State	API	GL (ft)	KB (ft)
Lea	New Mexico	30-025-06544	3496	0
Sec.	Twp/Blk	Rng/Svy	Footage	
12	21S	37E	1980' FNL & 2310' FEL from	
Spud Date		Comp. Date	Prepared By	Last Updated
12/2/1955		1/8/1956	NA	8/15/2008

**Current Status**  
 This well was originally produced in the Blinebry in 1955 and TA'd in 1998. The well was then re-acidized in 2008 and shortly TA'd due to low production rates.

**Hole Summary**

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	14.7500	0	250	
	9.0000	0	2,798	
	7.2500	0	5,995	

**Tubular Summary**

Date	Description	OD (in)	Wt (lb/ft)	Grade	Top (KB ft)	Bottom (KB ft)
	Surface Casing	10.7500	32.75		0	250
	Intermediate Casing	7.6250	24.00		0	2,798
	Production Casing	5.5000			0	5,995

**Casing Cement Summary**

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	251	14.7500	10.7500	0	250
	1090	9.0000	7.6250	0	2,798
	606	7.2500	5.5000	2,494	5,995

**Tools/Problems Summary**

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
7/1/2008	CIBP	5.5000	0.0000	5,750	

**Cement Plug Summary**

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)
7/1/2008	20	5.5000	5,730	5,750

**Perf Summary**

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing
1/8/1956	Open	Blinebry	5,807	5,982			0

**Completion History Summary**

Date	Comments
1/8/1956	frac w/ 12,000# sand. Cumulative: 59MBO/232MMCF
7/1/1998	TA'd w/CIBP set @ 5750'
7/1/2008	Acidized Blinebry w/ 4000 gal HCL acid and 2000 lbs rock salt -
7/2/2008	TA'd again w/CIBP at 5750' w/20' of cmt on top

Field Name		Lease Name		Well No.	County	State	API	GL (ft)	KB (ft)
Eunice Area		EBDU		34	Lea	New Mexico	30-025-06544	3496	0
Sec.	Twp/Blk	Rng/Svy	Footage		Spud Date	Comp. Date	Prepared By	Last Updated	
12	21S	37E	1980' FNL & 2310' FEL from		12/2/1955	1/8/1956	NA	8/15/2008	

**Current Status**

This well was originally produced in the Blinebry in 1955 and TA'd in 1998. The well was then re-acidized in 2008 and shortly TA'd due to low production rates.

**Detailed Summaries**

**Hole Summary**

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	14.7500	0	250	
	9.0000	0	2,798	
	7.2500	0	5,995	

**Tubular Summary**

Date	Description	OD (in)	Wt (lb/ft)	Grade	Coupling	Top (KB ft)	Bottom (KB ft)	Comments
	Surface Casing	10.7500	32.75			0	250	
	Intermediate Casing	7.6250	24.00			0	2,798	
	Production Casing	5.5000				0	5,995	15.5/14#

**Casing Cement Summary**

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Cement Description	Comments
	251	14.7500	10.7500	0	250		
	1090	9.0000	7.6250	0	2,798		
	606	7.2500	5.5000	2,494	5,995	calculated	

**Tools/Problems Summary**

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Description	Comments
7/1/2008	CIBP	5.5000	0.0000	5,750			

**Cement Plug Summary**

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
7/1/2008	20	5.5000	5,730	5,750	

**Perf Summary**

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing	Perf Comments	Interval Comments
1/8/1956	Open	Blinebry	5,807	5,982			0		

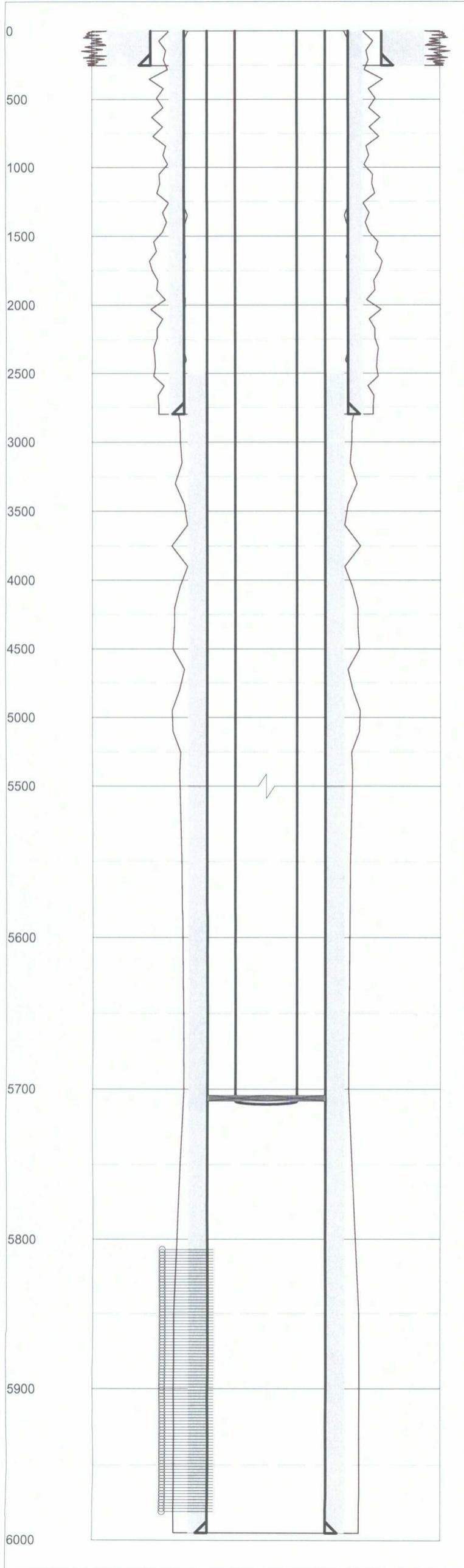
**Completion History Summary**

Date	Comments
1/8/1956	frac w/ 12,000# sand. Cumulative: 59MBO/232MMCF
7/1/1998	TA'd w/CIBP set @ 5750'
7/1/2008	Acidized Blinebry w/ 4000 gal HCL acid and 2000 lbs rock salt -
7/2/2008	TA'd again w/CIBP at 5750' w/20' of cmt on top

# PROPOSED COMPLETION

Last Updated:

8/19/2008 9:11:44 AM



<b>Field Name</b>		<b>Lease Name</b>		<b>Well No.</b>	
Eunice Area		EBDU		34	
<b>County</b>	<b>State</b>	<b>API</b>	<b>GL (ft)</b>	<b>KB (ft)</b>	
Lea	New Mexico	30-025-06544	3496	0	
<b>Sec.</b>	<b>Twp/Blk</b>	<b>Rng/Svy</b>	<b>Footage</b>		
12	21S	37E	1980' FNL & 2310' FEL from		
<b>Spud Date</b>		<b>Comp. Date</b>	<b>Prepared By</b>	<b>Last Updated</b>	
12/2/1955		1/8/1956	NA	8/19/2008	

**Current Status**  
 This well was originally produced in the Blinebry in 1955 and TA'd in 1998. The well was then re-acidized in 2008 and shortly TA'd due to low production rates.

**Hole Summary**

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	14.7500	0	250	
	9.0000	0	2,798	
	7.2500	0	5,995	

**Tubular Summary**

Date	Description	OD (in)	Wt (lb/ft)	Grade	Top (KB ft)	Bottom (KB ft)
	Surface Casing	10.7500	32.75		0	250
	Intermediate Casing	7.6250	24.00		0	2,798
	Production Casing	5.5000			0	5,995
	Tubing	2.8750			0	5,708

**Casing Cement Summary**

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
	251	14.7500	10.7500	0	250
	1090	9.0000	7.6250	0	2,798
	606	7.2500	5.5000	2,494	5,995

**Tools/Problems Summary**

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)
7/1/2008	CIBP	5.5000	0.0000	5,750	
9/1/2008	Pkr	5.5000	0.0000	5,708	

**Cement Plug Summary**

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)
7/1/2008	20	5.5000	5,730	5,750

**Perf Summary**

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing
1/8/1956	Open	Blinebry	5,807	5,982			0

**Completion History Summary**

Date	Comments
1/8/1956	frac w/ 12,000# sand. Cumulative: 59MBO/232MMCF
7/1/1998	TA'd w/CIBP set @ 5750'
7/1/2008	Acidized Blinebry w/ 4000 gal HCL acid and 2000 lbs rock salt -
7/2/2008	TA'd again w/CIBP at 5750' w/20' of cmt on top
8/27/2008	convert to injection

Field Name		Lease Name		Well No.	County	State	API	GL (ft)	KB (ft)
Eunice Area		EBDU		34	Lea	New Mexico	30-025-06544	3496	0
Sec.	Twp/Blk	Rng/Svy	Footage		Spud Date	Comp. Date	Prepared By	Last Updated	
12	21S	37E	1980' FNL & 2310' FEL from		12/2/1955	1/8/1956	NA	8/19/2008	

**Current Status**

This well was originally produced in the Blinebry in 1955 and TA'd in 1998. The well was then re-acidized in 2008 and shortly TA'd due to low production rates.

**Detailed Summaries**

**Hole Summary**

Date	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
	14.7500	0	250	
	9.0000	0	2,798	
	7.2500	0	5,995	

**Tubular Summary**

Date	Description	OD (in)	Wt (lb/ft)	Grade	Coupling	Top (KB ft)	Bottom (KB ft)	Comments
	Surface Casing	10.7500	32.75			0	250	
	Intermediate Casing	7.6250	24.00			0	2,798	
	Production Casing	5.5000				0	5,995	15.5/14#
	Tubing	2.8750				0	5,708	

**Casing Cement Summary**

Date	No. Sx	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Cement Description	Comments
	251	14.7500	10.7500		0	250	
	1090	9.0000	7.6250		0	2,798	
	606	7.2500	5.5000		2,494	5,995	calculated

**Tools/Problems Summary**

Date	Tool Type	OD (in)	ID (in)	Top (KB ft)	Bottom (KB ft)	Description	Comments
7/1/2008	CIBP	5.5000	0.0000	5,750			
9/1/2008	Pkr	5.5000	0.0000	5,708			

**Cement Plug Summary**

Date	No. Sx	OD (in)	Top (KB ft)	Bottom (KB ft)	Comments
7/1/2008	20	5.5000	5,730	5,750	

**Perf Summary**

Date	Perf Status	Formation	Top (KB ft)	Bottom (KB ft)	SPF	Shots	Phasing	Perf Comments	Interval Comments
1/8/1956	Open	Blinebry	5,807	5,982			0		

**Completion History Summary**

Date	Comments
1/8/1956	frac w/ 12,000# sand. Cumulative: 59MBO/232MMCF
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7/1/2008	Acidized Blinebry w/ 4000 gal HCL acid and 2000 lbs rock salt -
7/2/2008	TA'd again w/CIBP at 5750' w/20' of cmt on top
8/27/2008	convert to injection



Operator	Lease Name	Well #	Location	Footage	Type	API	Spud Date TD	Construction	Top of Cmt.	Completion and Comments
Apache Corporation	Lockhart B12	2	12 21S 37E	330 FNL, 810 FWL	Oil	30-025-06547-0000	Mar-52	Surface Csg: 13 3/8" @ 260' cmt w/260 sx; Intermediate Csg: 9 5/8" @ 3139' cmt w/1200 sx; Prod. Csg: 7" @ 8149' cmt w/1200 sx 8149' sx	1764	7770-8096'
Apache Corporation	East Blinebry Drinkard Unit	35	12 21S 37E	660 FNL, 2310 FEL	Oil	30-025-06545-0000	Jan-56	Surface Csg: 10 3/4" @ 275' cmt w/300 sx; Intermediate Csg: 7 5/8" @ 5115' cmt w/1150 sx; Prod Csg: 5 1/2" @ 6048' cmt w/478 sx	3842	1/56 - 5804'-5984'
Apache Corporation	East Blinebry Drinkard Unit	29	12 21S 37E	990 FNL, 1650 FWL	Oil	30-025-06548-0001	Jan-54	Surface Csg: 10-3/4" @ 242' cmt w/250 sx; Intermediate Csg: 7-5/8" @ 3149' cmt w/1570 sx; Prod Csg: 5-1/2" @ 6030' cmt w/485sx	3791	3/54- 5796'-5840'; 1/83 - 5785'-5996'
Apache Corporation	East Blinebry Drinkard Unit	4	1 21S 37E	660 FSL, 2310 FEL	Oil	30-025-06327-0000	Oct-54	Surface Csg: 8-5/8" @ 3016' cmt w/1300 sx; Prod. Csg: 5-1/2" @ 5900' cmt w/450 sx	3823	11/54 - 5900'-5997' O.H. 7/53 - 6050'-8150'
Apache Corporation	East Blinebry Drinkard Unit	30	12 21S 37E	1650 FNL, 660 FWL	WI	30-025-06539-0001	Apr-53	Surface Csg: 10 3/4" @ 255' cmt w/ 250sx; Intermediate Csg: 7 5/8" @ 3160' cmt w/ 1100sx; Production Csg: 5 1/2" @ 8201' cmt w/ 450sx	3891	9/84 - 6601-6747' 2/90 - pb 5960', perf 5740'-5952' 07/06-conv to water inj. (6601'-6757' and 5742'-5952')
Apache Corporation	East Blinebry Drinkard Unit	36	12 21S 37E	1980 FNL, 660 FWL	WI	30-025-06555-0000	Feb-56	Surface Csg: 10 3/4" @ 260' cmt w/ 300sx; Intermediate Csg: 7 5/8" @ 3152' cmt w/ 900sx; Prod. Csg: 5 1/2" @ 5964' cmt w/ 400sx	4118	3/56 - 5712'-5908' 06/06 - conv to water inj (Blinebry) 3/54 - 5796'-5840'
Apache Corporation	East Blinebry Drinkard Unit	31	12 21S 37E	330 FNL, 1980 FWL	WI	30-025-06541-0000	Jan-54	Surface Csg: 10 3/4" @ 242' cmt w/ 250sx; Intermediate Csg: 7 5/8" @ 3149' cmt w/ 1570sx; Production Csg: 5 1/2" @ 6030' cmt w/ 485sx	3791	1/83 - 5796'-5996' 08/06 - convert to water inj (Blinebry)
Apache Corporation	East Blinebry Drinkard Unit	33	12 21S 37E	330 FNL, 1980 FWL	OIL	30-025-06542-0000	Jan-54	Surface Csg: 10 3/4" @ 247' cmt w/ 250sx; Intermediate Csg: 7 5/8" @ 3148' cmt w/ 914sx; Production Csg: 5 1/2" @ 5922' cmt w/ 520sx	3522	9/54 - 5783'-5884'
Apache Corporation	East Blinebry Drinkard Unit	34	12 21S 37E	1980 FNL, 2310 FEL	OIL	30-025-06544-0000	Dec-55	Surface Csg: 10 3/4" @ 250' cmt w/ 250sx; Intermediate Csg: 7 5/8" @ 2798' cmt w/ 1045sx; Production Csg: 5 1/2" @ 5995' cmt w/ 583sx	3304	1/56 - 5807'-5982' 07/08 - TA'd Blinebry CIBP @ 5750'
Apache Corporation	East Blinebry Drinkard Unit	68	12 21S 37E	1120 FSL, 1550 FWL	Oil	30-025-38500-0000	Feb-08	Surface Csg: 8-5/8" @ 1450' cmt w/ 650sx; Production Csg: 5 1/2" @ 7000' cmt w/1150 sx	203	02/08 - 6652'-6755' (Drinkard) 8200-6480' (Tubb) 5732'-5944' (Blinebry)
Apache Corporation	East Blinebry Drinkard Unit	46	12 21S 37E	1980 FSL, 660 FWL	OIL	30-025-06552-0000	Oct-55	Surface Csg: 13 3/8" @ 313' cmt w/ 300sx; Intermediate Csg: 8 5/8" @ 3249' cmt w/ 1500sx; Production Csg: 5 1/2" @ 5948' cmt w/ 100sx	5486	11/55 - 5870'-5900' 6/70 - 5724'-5918' 2/82 - 5631' - 5918' 04/02 - TA'd 05/56 - 5968'-6039'
Elliott Incorporated	Humble Federal	1	1 21S 37E	330 FSL 990 FEL	Oil-PA	30-025-06331-0000	May-56	Surface Csg: 8-5/8" @ 3030' cmt w/1400 sx; Prod. Csg: 5-1/2" @ 5958' cmt w/500 sx	3774	11/74 P&A 1/75 - fail to fill up across perf replug
Apache Corporation	East Blinebry Drinkard Unit	47	12 21S 37E	2310 FSL, 1650 FEL	Oil	30-025-06551-0000	Apr-55	Surface Csg: 13-3/8" @ 298' cmt w/300sx; Intermediate Csg: 8-5/8" @ 3239' cmt w/1500 sx; Prod. Csg @ 6063' cmt w/220 sx.	4770	07/55 - 5850'-5910'-5950'-6000' 02/80 - reifrac 5650'-5910' 11/01 TA'd
Apache Corporation	Chesher	1	12 21S 37E	1980 FSL, 1980 FWL	Oil-PA	30-025-06549-0000	Dec-51	Surface Csg: 13-3/8" @ 220' cmt w/250 sx; Intermediate Csg: 8-5/8" @ 3256' cmt w/2100 sx; Production Csg: 5-1/2" @ 6919' cmt w/750 sx	3457	2/52 - 6919'-7516 O.H. 11/54 - 5750'-5864'; 5900'-5940' SQ 12/71 5320'-5340' SQ 04/02 P&A CIBP @ 2351'

Handwritten initials "K" and "D" with a checkmark.



August 19, 2008

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

RE: Offset Operators  
Eunice Area (EBDU) Waterflood Unit  
One well to convert from Production to Injection  
EBDU #34

To: Whom It May Concern:

There are no offset operators other than Apache within one half a mile radius of the EBDU #34.

Thank you in advance for your attention to this matter. If you have any questions or comments please contact me at (918) 491-4886 or e-mail at [natalie.allert@apachecorp.com](mailto:natalie.allert@apachecorp.com).

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Natalie Allert".

Natalie Allert  
Production Engineer I

Submit 3 Copies to Appropriate District

Office

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

811 South First, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

State of New Mexico  
Energy, Minerals and Natural Resources

FORM C-103  
Revised March 25, 1999

OIL CONSERVATION DIVISION  
1220 South St. Francis Drive  
Santa Fe, NM 87505

WELL API NO. 30-025-06549
5. Indicate Type of Lease <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Chesher
8. Well No. I
9. Pool name or Wildcat Wantz Abo

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well  
 OIL WELL  GAS WELL  OTHER

2. Name of Operator  
Apache Corporation

3. Address of Operator  
2000 Post Oak Blvd., Ste. 100, Houston, Texas 77056-4400

4. Well Location  
Unit Letter K : 1980 Feet From The South Line and 1980 Feet From The West Line  
Section 12 Township 21S Range 37E NMPM Lca County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
3465' GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

<p>NOTICE OF INTENTION TO:</p> <input type="checkbox"/> Perform Remedial Work <input type="checkbox"/> Temporarily Abandon <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Other	<p>SUBSEQUENT REPORT OF:</p> <input type="checkbox"/> Remedial Work <input type="checkbox"/> Commence Drilling Operations <input type="checkbox"/> Casing Test and Cement Job <input type="checkbox"/> Other	<p>Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data</p> <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Change Plans <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Plug and Abandonment
--	---	---

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

4/10/2002 Move in and rig up. Nipple up BOP.

4/11/2002 Run in hole and tag top of cement @ 5244' on CIBP set @ 5280'. Circulate hole w/ mud. Pull up hole to 3300' and spot cement plug w/ 250 sx. Wait on cement.

4/12/2002 Run in hole and tag top of cement @ 2351'. Spot cement plug @ 1450' w/ 75 sx. Spot cement plug @ 270' w/ 75 sx. Wait on cement. Tag top of cement plug @ 85'. Spot cement plug @ 60' to surface w/ 50 sx. Install P&A marker and clean location.

Approved as to Plugging of the Well Bore.  
Liability under bond is retained until  
Surface restoration is completed.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Debra J. Anderson TITLE Sr. Engineering Technician DATE 4/29/2002  
 TYPE OR PRINT NAME Debra J. Anderson TELEPHONE NO. 713-296-6338

APPROVED BY \_\_\_\_\_ ORIGINAL SIGNED BY GARY W. WINK DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ OC FIELD REPRESENTATIVE II/STAFF MANAGER

J  
C  
S  
GWW

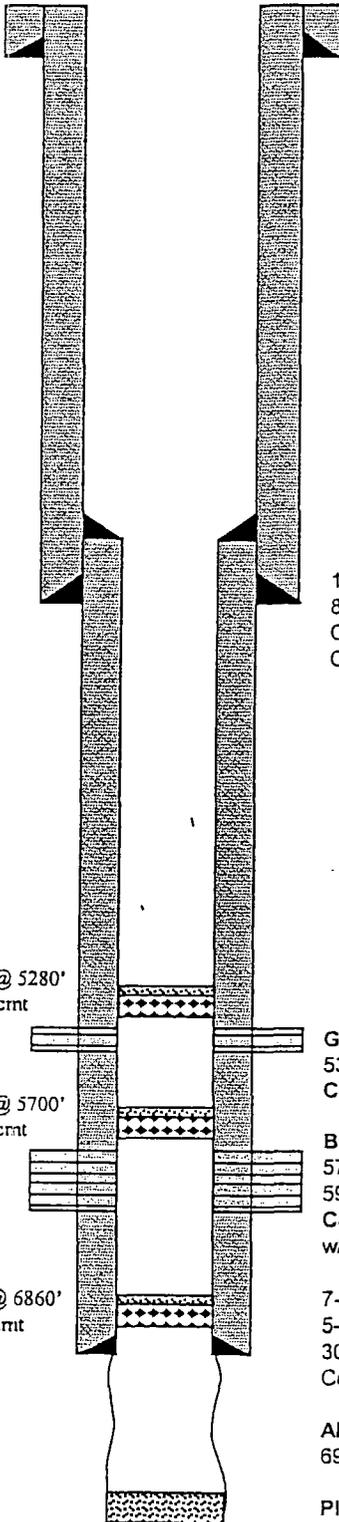
713-296-6338

WELL:  
 POOL:  
 LOCATION:  
 COUNTY/STATE:

Chesher No. 1  
 Wantz Abo  
 1980' FSL & 1980' FWL  
 Unit K, Sec 12, T-21S, R-37E  
 Lea County, New Mexico

API No. 30-025-06549

Before P+A



17-1/2" Hole  
 13-3/8" 48# H-40 CSA 220'  
 Cement w / 250 sx  
 Circulated to Surface

11" Hole  
 8-5/8" 32# H-40 CSA 3256'  
 Cement w / 2100 sx  
 Circulated to Surface

CIBP @ 5280'  
 w/ 35' cmt

CIBP @ 5700'  
 w/ 35' cmt

CIBP @ 6860'  
 w/ 35' cmt

Glorieta Perfs:  
 5320 - 5340 (21 Holes)  
 Cement squeezed w/ 200 sx

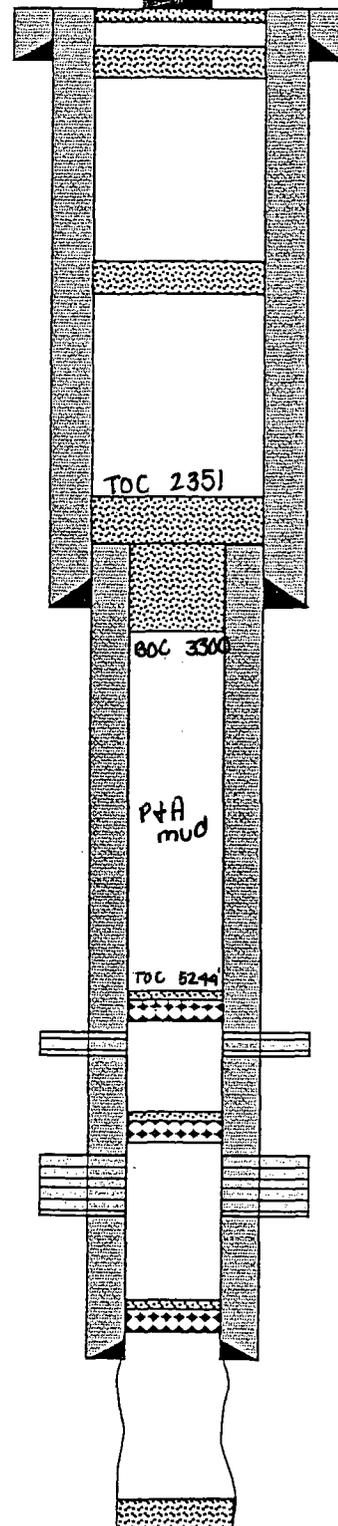
Blinbry Perfs:  
 5750 - 5864 (564 Holes)  
 5900 - 5950 (200 Holes)  
 Cement squeezed 5750' - 5950'  
 w/ 400 sx

7-7/8" Hole  
 5-1/2" 15.5# J-55 Liner  
 3032' - 6919'  
 Cement w/ 750 sx (TOC @ 3032')

Abo Open Hole:  
 6919 - 7517

Plugback w/80 sx cement and  
 Hydromite (7517' - 7695')

P&A Completion



P&A Marker  
 Surface Plug 0' - 60'  
 w/ 50 sx  
 Cement Plug 1350' - 1450'  
 w/ 75 sx - Tag top of plug

Cement Plug 1350' - 1450'  
 w/ 75 sx

Cement Plug 3000' - 3300'  
 w/ 250 sx -

TOC 2351

BOC 3300

TOC 5244

P+A  
 mud



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**LC 065455**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR <b>Elliott Oil Company</b></p> <p>3. ADDRESS OF OPERATOR <b>P.O. Box 1355, Roswell, N.M. 88201</b></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>330' from south line &amp; 990' from east line, SE/4 SE/4 Section 1</b></p> <p>14. PERMIT NO. _____</p> <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) _____</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____</p> <p>7. UNIT AGREEMENT NAME _____</p> <p>8. FARM OR LEASE NAME <b>Humble Federal</b></p> <p>9. WELL NO. <b>#1</b></p> <p>10. FIELD AND POOL, OR WILDCAT <b>Terry Blinebry</b></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 1 T-21S, R-37E</b></p> <p>12. COUNTY OR PARISH <b>Lea</b> 13. STATE <b>N.M.</b></p>
---	---

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____

\*NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The above well was plugged and abandoned on November 23, 1974. After failure to obtain fill up across the productive perforations at 5950', with a 25 sk. plug and a 40 sk. plug. We set a bridge plug at 5800', capped with 4 sks. of cement, placing the plug 5765' to 5800'. A 95 sk. plug was set at 3191' to 2865' across a stub of the 5 1/2" casing at 3177'.

A 35 sk. plug was set from 1650' to 1550', and a 10 sk. plug at the top of the surface.

The location is cleaned up and ready for inspection.

18. I hereby certify that the foregoing is true and correct.

SIGNED *[Signature]* TITLE Owner DATE 1/22/75

(This space for Federal or State office use)

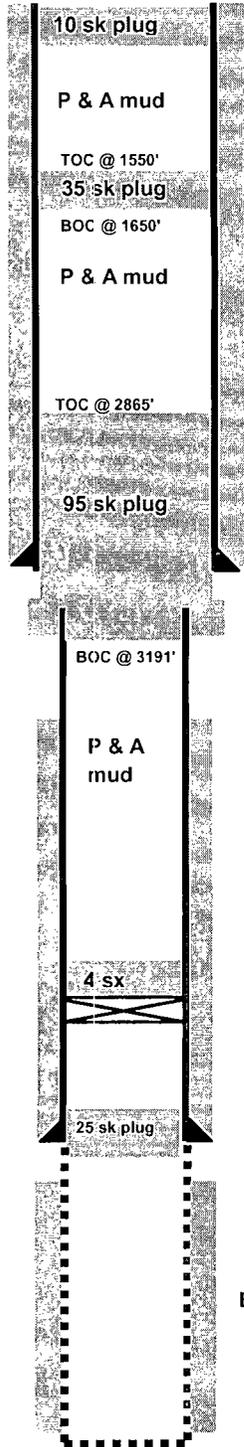
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

*[Signature]*  
S  
ENGINEER

**Humble Federal #1**  
 API - 30-025-06331  
 330' FSL & 990' FEL  
 Sec. 1 T-21S R-37E  
 Lea County, New Mexico  
 Spud Date - 05/01/1956



**Surface Casing**  
 8-5/8" @ 3030' cmt w/1400 sx

**Completions**

Date	Zone	Perfs
1956	Blinebry	Open Hole (5958'-6039')

**Well History**

Date	Info
Nov-74	P&A and cut prod csg @ 3177'; however, failure to obtain fill up across prod. perf at 5950' w/ 25 sk plug across csg shoe and 45 sk plug;
Jan-75	Set CIBP @ 5800'. Cap w/ 4 sxs cmt. 95 sk plug set at 3195' - 2865'; Set 35 sk plug from 1650' - 1550' and 10 sk plug at top of surf

CIBP @ 5800 w / 4 sx cmt

**Production Casing**  
 5-1/2" 3177'-5958' cmt w/500 sxs TOC-3774' Calc

Blinebry Perfs @ 5958'-6039'

Open Hole @ 5958'-6039'

TD 6039'

ITEM VII OF NEW MEXICO OCD FORM C-108  
DATA ON PROPOSED OPERATIONS  
EAST BLINEBRY DRINKARD UNIT (EBDU #34)  
\*(Formerly Lockhart B 12 #9)

- 1) Proposed average initial injection rate is 500 bwpd.  
Maximum injection rate should not exceed 500 bwpd.
- 2) The injection system will be operated as a closed system.
- 3) Proposed average initial injection pressure is 1120 psi (0.2 psi/ft).  
Proposed maximum pressure will not exceed the pressure limitations ordered by the Division. Apache Corp will perform step rate tests and anticipates securing a maximum injection pressure of 1375 psi (same as the Northeast Drinkard Unit).
- 4) Source water will come from the San Andres Formation.
- 5) Not Applicable.

ITEM VIII OF NEW MEXICO OCD FORM C-108  
GEOLOGIC DATA ON THE INJECTION ZONE & UNDERGROUND DRINKING  
WATER  
EAST BLINEBRY DRINKARD UNIT (EBDU #34)  
\*(Formerly Lockhart B 12 #9)

The Formation being targeted for water injection are the Blinebry at approximate depths from 5807' to 5982'. This formation is Leonardian in age and has a sequence of shallow marine carbonates, which has 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. Net pay isopach maps show the areal extent of the targeted reservoir. The vertical extent of the reservoir is limited top and bottom by impermeable shales and carbonates. All injected fluids should remain in the reservoir with the exception of cycling to the surface through wellbores.

Based on communications with the New Mexico States Engineer's Roswell office and a review of online files, there is 1 fresh water well (see attached) in the area of review for the new injection well. When the entire East Blinebry Drinkard Unit is considered, there are a total of 16 fresh water wells (see attached) in the area of review. The deepest of these wells is 136', which is the assumed base of fresh water. All wellbores involved with the proposed injection program are constructed to not allow injection water into this fresh water source.

ITEMS IX THROUGH XII OF NEW MEXICO OCD FORM C-108  
EAST BLINEBRY DRINKARD UNIT (EBDU #34)  
\*(Formerly Lockhart B 12 #9)

IX All of the current wellbores proposed for unitization have an existing fracture stimulation. Any new wells drilled subsequent to unitization will also be treated with a fracture stimulation, and it is assumed that all of the wellbores will be treated with acid at least once during the life of the waterflood.

X All logging and test data for the existing wellbores already exists on file with the State of New Mexico Oil Conservation Division and will not be resubmitted with this application.

XI It appears the only strata within one mile of our proposed unit which contains water of possible drinking quality is confined to 136' and shallower. No contamination of this drinking water should occur as all existing wellbores which penetrate the Blinebry, Tubb and Drinkard are constructed as to not allow injection water to escape the system.

XII After reviewing the geology in a one and one-half mile radius around the proposed waterflood area there appears no evidence of fractures or any hydrologic connection between the zone of injection and any overlying or underlying strata.

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township: 21S Range: 37E Sections: 12.1

NAD27 X: [ ] Y: [ ] Zone: [ ] Search Radius: [ ]

County: [ ] Basin: [ ] Number: [ ] Suffix: [ ]

Owner Name: (First) [ ] (Last) [ ]  Non-Domestic  Domestic  All

POD / Surface Data Report Avg Depth to Water Report Water Column Report

Clear Form WATERS Menu Help

POD / SURFACE DATA REPORT 08/14/2008

(acre ft per annum)

DB File Nbr Use Diversion Owner  
CP 00197 0 GEORGE W. SIMS

POD Number  
CP 00197 DCL

(quarters are 1-NW 2-NE 3-SW 4-SE)  
(quarters are biggest to smallest)

Source Tws Rng Sec q q q  
21S 37E 01 1 4 1

Record Count: 1

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)   Non-Domestic  Domestic  All

AVERAGE DEPTH OF WATER REPORT 08/14/2008

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	Min	Max	Avg
(Depth Water in Feet)										

No Records found, try again

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township: 21S Range: 37E Sections: 12,1

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic All

POD / Surface Data Report Avg Depth to Water Report Water Column Report

Clear Form iWATERS Menu Help

WATER COLUMN REPORT 08/14/2008

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

POD Number	Tws	Rng	Sec	q	q	Zone	Y	Well	Depth	Water	Column
							X				

No Records found, try again

**New Mexico Office of the State Engineer  
POD Reports and Downloads**

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)   Non-Domestic  Domestic  All

POD / Surface Data Report  Avg Depth to Water Report  Water Column Report

**POD / SURFACE DATA REPORT 08/15/2008**

DB File Nbr	Use	Diversion	Owner	POD Number	Source	Tws	Rng	Sec	q	q
CP 00014	IND	75	VERSADO GAS PROCESSORS, LLC	CP 00014		21S	37E	23	2	3
CP 00134	STK	0	MARION STEPHENS	CP 00134 DCL		21S	37E	24	1	1
CP 00137	STK	0	WM. O. STEPHENS	CP 00137 DCL		21S	37E	13	1	2
CP 00197	DOM	0	GEORGE W. SIMS	CP 00197 DCL		21S	37E	01	1	4
CP 00212	DOM	0	J. M. OWENS	CP 00212 DCL		21S	37E	14	1	2
CP 00224	IND	31	VERSADO GAS PROCESSORS, LLC	CP 00224		21S	37E	23	3	4
CP 00235	IND	61	VERSADO GAS PROCESSORS LLC	CP 00235		21S	37E	23	1	2
CP 00236	IND	40	VERSADO GAS PROCESSORS LLC	CP 00236		21S	37E	23	2	1
CP 00238	IND	40	VERSADO GAS PROCESSORS LLC	CP 00238		21S	37E	23	2	3
CP 00239	IND	25	VERSADO GAS PROCESSORS LLC	CP 00239	Shallow	21S	37E	23	2	1
CP 00240	IND	34	VERSADO GAS PROCESSORS LLC	CP 00240	Shallow	21S	37E	23	1	2
CP 00241	IND	11	VERSADO GAS PROCESSORS LLC	CP 00241	Shallow	21S	37E	23	1	2
CP 00562	STK	3	JIMMIE D. WEIR	CP 00562	Shallow	21S	37E	23	2	1
CP 00686	DOM	0	ALBERT HERNANDZ	CP 00686 EXP		21S	37E	23	2	4
CP 00700	MUL	3	WAYNE R. WALKER	CP 00700	Shallow	21S	37E	23	2	4

(quarters are 1-NW 2-NE 3-SW 4-SE)  
(quarters are biggest to smallest)

Record Count: 15

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)   Non-Domestic  Domestic  All

POD / SURFACE DATA REPORT 08/15/2008

(acre ft per annum)

DB File Nbr Use Diversion Owner POD Number  
 CP 00070 3 MCVAY DRILLING CO. CP 00070

Record Count: 1

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are biggest to smallest)  
 Source Tws Rng Sec q q q  
 Shallow 21S 38E 07 3 2 2

*New Mexico Office of the State Engineer*  
**POD Reports and Downloads**

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)   Non-Domestic  Domestic  All

**WATER COLUMN REPORT 08/15/2008**

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

POD Number	Tws	Rng	Sec	q	q	Zone	X	Y	Depth Well	Depth Water	Water Column
CP 00235	21S	37E	23	1	2	2			81		
CP 00241	21S	37E	23	1	2	4			76		
CP 00240	21S	37E	23	1	2	4			72		
CP 00700	21S	37E	23	2					75	65	10
CP 00239	21S	37E	23	2	1	1			89		
CP 00236	21S	37E	23	2	1	3			83		
CP 00562	21S	37E	23	2	2	1			136	65	71
CP 00014	21S	37E	23	2	3	1			84		
CP 00238	21S	37E	23	2	3	3			81		
CP 00224	21S	37E	23	3	3	4			96		

Record Count: 10

New Mexico Office of the State Engineer  
POD Reports and Downloads

Township: 21S Range: 38E Sections: 6,7,18

NAD27 X: [ ] Y: [ ] Zone: [ ] Search Radius: [ ]

County: [ ] Basin: [ ] Number: [ ] Suffix: [ ]

Owner Name: (First) [ ] (Last) [ ]  Non-Domestic  Domestic  All

POD/Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

WATER COLUMN REPORT 08/15/2008

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

POD Number	Tws	Rng	Sec	q	q	Zone	X	Y	Well	Depth	Water	Column
CP 00070	21S	38E	07	3	2	2			72	25	47	

Record Count: 1

RECEIVED

2008 AUG 28 PM 3 25

August 25, 2008

Mr. William V. Jones  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RE: WFX Application  
Eunice Area (EBDU) Waterflood Unit  
One well to convert from Production to Injection  
EBDU #34

Mr. Jones,

I have attached a copy of the legal advertisement which we published in the Hobbs New Sun with proof of the publication. Please add this to the proof of notice section of our C-108 application.

If you have any questions or comments please contact me at (918) 491-4886 or e-mail at [natalie.allert@apachecorp.com](mailto:natalie.allert@apachecorp.com).

Respectfully Submitted,



Natalie Allert  
Production Engineer I

## **LEGAL NOTICE**

### **NOTICE OF APPLICATION FOR FLUID INJECTION WELL PERMIT**

**APACHE CORPORATION**  
**6120 S. Yale Ave., Suite 1500**  
**Tulsa, OK 74136**  
**ATTN: Natalie Allert**  
**(918) 491-4886**

has applied to the State of New Mexico, Oil Conservation Division, Sante Fe, New Mexico, for a permit to inject fluid into a formation that is productive of oil or gas. The application proposes to inject fluid into the Blinebry formation in the Eunice Area (EBDU) Waterflood Unit. The proposed injection well is the EBDU #34 located 1980' FNL and 2310' FEL of Section 12, Township 21S, Range 37E respectively. Fluid will be injected into the EBDU 34 strata correlative to subsurface depth interval from 5,807 feet to 5,982 feet. Fluid will be injected at a maximum injection rate of 500 barrels of water per day and at a maximum surface injection pressure of 1120 psi.

Interested parties must file objections or requests for hearing with the State of New Mexico, Oil Conservation Division, 1220 South St. Francis Drive, Sante Fe, New Mexico 87505, Telephone (505) 476-3466, within 15 days of publication.

AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, KATHI BEARDEN

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 paper, and not a supplement thereof for a period

of 1 issue(s).  
Beginning with the issue dated  
AUGUST 20, 2008

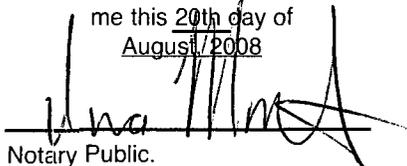
and ending with the issue dated  
August 20, 2008



PUBLISHER

Sworn and subscribed to before

me this 20th day of  
August, 2008

  
Notary Public.

My Commission expires  
February 07, 2009  
(Seal)



OFFICIAL SEAL  
DORA MONTZ  
NOTARY PUBLIC  
STATE OF NEW MEXICO  
My Commission Expires: 2/7/09

**LEGAL**  
**AUGUST 20, 2008**

Notice is hereby given of the application of Apache Corporation, 6120 South Yale, Suite 1500, Tulsa, Oklahoma 74136-4224 (918) 491-4864, to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the following injection wells for the purpose of secondary recovery.

Pool Name: Eunice: Blinebry-Tubb-Drinkard, North  
All wells are located in Lea County, New Mexico

Lease/Unit Name: East Blinebry Drinkard Unit

Well No. 34 (30-025-06544)  
Location: 1980' FNL & 2310' FEL, Section 12, T21S, R37E, Unit G

The injection formation is the Blinebry located between the interval of 5807' MD to 5982' MD below the surface of the ground. Expected maximum injection rate is 500 barrels per day and the expected maximum injection pressure is 1200 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, NM 87505 within fifteen days.  
**#24336**

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.

67103439 00015488  
APACHE CORPORATION  
SOPHIE MACKAY  
6120 SOUTH YALE, SUITE 1500  
TULSA, OK 74136

RECEIVED

2008 AUG 25 PM 1 51



6120 S. YALE / SUITE 1500 / TULSA, OKLAHOMA 74136-4224

WWW.APACHECORP.COM  
Telephone: (918) 491-4900

August 20, 2008

Mr. William V. Jones  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RE: WFX Application  
Eunice Area (EBDU) Waterflood Unit  
One well to convert from Production to Injection  
EBDU #34

Mr. Jones,

Based on our conversation via e-mail I have attached the list of lease owners w/in a half mile radius of the proposed water injector well, EBDU #34. Please attach this to the C-108 application for the EBDU #34.

Thank you for your help. If you have any questions or comments please contact me at (918) 491-4886 or e-mail at [natalie.allert@apachecorp.com](mailto:natalie.allert@apachecorp.com).

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Natalie Allert". The signature is written in a cursive style with some loops and flourishes.

Natalie Allert  
Production Engineer I

Lease Owners w/in half mile radius

Chevron U.S.A., Inc.  
11111 S. Wilcrest  
Houston, TX 77099  
Attn: Todd Kratz

Oxy USA WTP, LP  
P.O. Box 4294  
Houston, TX 77210-4994  
Attn: Land Department

Exxon Mobil Corporation  
P.O. Box 4610  
Houston, TX 77210-4610  
Attn: Land Department

Elliott-Hall Company, Ltd. Partnership  
P.O. Box 1231  
Ogden, UT 84402

Elliott Industries Ltd. Partnership  
P.O. Box 1355  
Roswell, NM 88202

George H. O'Brien Jr. Trust  
P.O. Box 1743  
Midland, TX 79702

**Jones, William V., EMNRD**

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**From:** Jones, William V., EMNRD  
**Sent:** Tuesday, October 21, 2008 2:13 PM  
**To:** 'Alert, Natalie'  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** Injection permit from Apache: East Blinebry Drinkard Unit #34 30-025-06544

Hello Ms. Allert

After reviewing this application, have the following requests:

- 1) Please send proof of notice (copy of the application) to the BLM (surface owner) and to the affected parties in the E/2 E/2 of Section 12 (all entities on the list you sent earlier). You can send either copies of the certified receipts or just the names of the parties notified and the certified receipt number next to the name. This is per Rule 701B(2).
- 2) Rule 40 requirements appear fine - thank you.
- 3) This proposed injection is within the vertical limits of the Unit and the Waterflood Project - thank you.

The order will be ready to release pending this info - but not prior than 15 days after the last notice is provided.

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

---

**From:** Jones, William V., EMNRD  
**Sent:** Monday, October 20, 2008 2:14 PM  
**To:** 'Alert, Natalie'  
**Subject:** RE: WFX Newspaper Notice

Natalie:  
Working on these injection applications (including yours) and may have some questions on yours in a couple days.

Will

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

---

**From:** Allert, Natalie [mailto:natalie.allert@usa.apachecorp.com]  
**Sent:** Monday, October 20, 2008 12:19 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: WFX Newspaper Notice

10/21/2008

**Jones, William V., EMNRD**

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**From:** Allert, Natalie [natalie.allert@usa.apachecorp.com]  
**Sent:** Wednesday, October 22, 2008 12:50 PM  
**To:** Jones, William V., EMNRD  
**Cc:** Ezeanyim, Richard, EMNRD; Mackay, Sophie  
**Subject:** RE: Injection permit from Apache: East Blinebry Drinkard Unit #34 30-025-06544  
**Attachments:** Lease Owners win a half mile radius.doc

I just sent you a fax with the proof of notice to the surface owners for the EBDU #34. I have also attached the list to the e-mail with the receipt numbers.

Thanks!

Natalie Allert

-----Original Message-----

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]  
**Sent:** Tuesday, October 21, 2008 3:13 PM  
**To:** Allert, Natalie  
**Cc:** Ezeanyim, Richard, EMNRD  
**Subject:** Injection permit from Apache: East Blinebry Drinkard Unit #34 30-025-06544

Hello Ms. Allert

After reviewing this application, have the following requests:

- 1) Please send proof of notice (copy of the application) to the BLM (surface owner) and to the affected parties in the E/2 E/2 of Section 12 (all entities on the list you sent earlier). You can send either copies of the certified receipts or just the names of the parties notified and the certified receipt number next to the name. This is per Rule 701B(2).
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William V. Jones PE  
 New Mexico Oil Conservation Division  
 1220 South St. Francis  
 Santa Fe, NM 87505  
 505-476-3448

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**From:** Jones, William V., EMNRD  
**Sent:** Monday, October 20, 2008 2:14 PM  
**To:** 'Allert, Natalie'  
**Subject:** RE: WFX Newspaper Notice

Natalie:  
 Working on these injection applications (including yours) and may have some questions on yours in a couple days.

10/22/2008

Surface Owners w/in half mile radius

Chevron U.S.A., Inc.  
11111 S. Wilcrest  
Houston, TX 77099  
Attn: Todd Kratz

**Receipt #: 7007 2680 0001 1843 9705**

Oxy USA WTP, LP  
P.O. Box 4294  
Houston, TX 77210-4994  
Attn: Land Department

**Receipt #: 70007 2680 0001 1843 9699**

Exxon Mobil Corporation  
P.O. Box 4610  
Houston, TX 77210-4610  
Attn: Land Department

**Receipt #: 7007 2680 0001 1843 9682**

Elliott-Hall Company, Ltd. Partnership  
P.O. Box 1231  
Ogden, UT 84402

**Receipt #: 7007 2680 0001 1843 9675**

Elliott Industries Ltd. Partnership  
P.O. Box 1355  
Roswell, NM 88202

**Receipt #: 7007 2680 0001 1843 9668**

George H. O'Brien Jr. Trust  
P.O. Box 1743  
Midland, TX 79702

**Receipt #: 7007 2680 0001 1843 9651**

**Injection Permit Checklist (7/8/08)**

Case \_\_\_\_\_ R- \_\_\_\_\_ SWD \_\_\_\_\_ WFX 842 PMX \_\_\_\_\_ IPI \_\_\_\_\_ Permit Date 10/20/08 UIC Qtr \_\_\_\_\_

# Wells 1 Well Name: East Blinby DRINKING UNIT #34

API Num: (30-) 025-06544 Spud Date 1956 New/Old: 0 (UIC primacy March 7, 1982)

Footages 1980 FNL/2310FEL Unit G Sec 12 Tsp 215 Rge 37E County LEA

Operator: APACHE Corporation Contact Natalie Abbott

OGRID: 873 RULE 40 Compliance (Wells) 7/1497 (Finan Assur) OK

Operator Address: 6120 SOUTH Yale Ave. SUITE 1500 TULSA OK 74136-4224

Current Status of Well: TAED OIL well

Planned Work to Well: \_\_\_\_\_ Planned Tubing Size/Depth: 2 7/8 @ 5708'

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing Surface	<u>14 3/4 13 1/4</u>	<u>250'</u>	<u>251</u>	<u>CIRC</u>
Existing Intermediate	<u>9 7 5/8</u>	<u>2798'</u>	<u>1090</u>	<u>CIRC</u>
Existing Long String	<u>7 1/4 5 1/2</u>	<u>5995</u>	<u>250 583</u>	<u>2494 Calc</u>

DV Tool \_\_\_\_\_ Liner \_\_\_\_\_ Open Hole \_\_\_\_\_ Total Depth 6000 PBD (5750 CDP)

Well File Reviewed

Diagrams: Before Conversion  After Conversion  Elogs in Imaging File: one "OLD" LOG

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)			
Injection..... Interval TOP:	<u>5807</u>	<u>Blinby</u>	<u>TAED</u>
Injection..... Interval BOTTOM:	<u>5989</u>	<u>Blinby</u>	
Below (Name and Top)			

R-12394 / (Core 13503  
12395 / 13504  
North Eunice, BL-TE-DR,  
1161 PSI Max. WHIP  
22900

Sensitive Areas: Capitan Reef Cliff House Salt Depths \_\_\_\_\_

..... Potash Area (R-T-T-P) \_\_\_\_\_ Potash Lessee \_\_\_\_\_ Noticed? \_\_\_\_\_

Fresh Water: Depths: 0-136' Wells (Y/N) Yes Analysis Included (Y/N): Yes Affirmative Statement

Salt Water: Injection Water Types: \_\_\_\_\_ Analysis? \_\_\_\_\_

Injection Interval..... Water Analysis: u Hydrocarbon Potential Water

Notice: Newspaper (Y/N)  Surface Owner BLM Mineral Owner(s) BLM George

RULE 701B(2) Affected Parties: Chem/Oxy/EXXON/Elle Hall/Elle Hall Prop/O'Brien

Area of Review: Adequate Map (Y/N) \_\_\_\_\_ and Well List (Y/N) \_\_\_\_\_

Active Wells 11 Num Repairs 0 Producing in Injection Interval in AOR Yes - waterflood

P&A Wells 2 Num Repairs 0 All Wellbore Diagrams Included? Yes

Questions to be Answered: Proof of NOTICE

Required Work on This Well: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

AOR Repairs Needed: \_\_\_\_\_ Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

Request Sent \_\_\_\_\_ Reply: \_\_\_\_\_

3507  
11614

84