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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



Will GLU !!

		ADMINISTRATIVE APPLIC	ATION CHECKI	-19 I
TH	HIS CHECKLIST IS MA	ANDATORY FOR ALL ADMINISTRATIVE APPLICATION WHICH REQUIRE PROCESSING AT THE I		IN RULES AND REGULATIONS
Applic	[DHC-Down [PC-Po	dard Location] [NSP-Non-Standard Pror thole Commingling] [CTB-Lease Comm ol Commingling] [OLS - Off-Lease Stor	ningling] [PLC-Pool/Lea age] [OLM-Off-Lease M essure Maintenance Expa ection Pressure Increase	se Commingling) easurement] nsion]]
[1]	TYPE OF AP	PLICATION - Check Those Which Appl	v for [A]	Fx 938
. ,	[A]	Location - Spacing Unit - Simultaneous NSL NSP SD	Dedication - Ap	x 438 ach e Curponttion 873
	Check	One Only for [B] or [C]	_4	vell
	[B]	Commingling - Storage - Measurement DHC CTB PLC I	PC OLS OLM	vell ortheast Dninken #301
	[C]	Injection - Disposal - Pressure Increase - WFX PMX SWD		30-025-06388 Pool
	[D]	Other: Specify		- Eunich; Bli-
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Those Wh Working, Royalty or Overriding Roy		
	[B]	Offset Operators, Leaseholders or Se	urface Owner	
	[C]	Application is One Which Requires	Published Legal Notice	
	[D]	Notification and/or Concurrent Appr U.S. Bureau of Land Management - Commissioner of F		
	(E)	For all of the above, Proof of Notific	cation or Publication is Att	ached, and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INFORM TION INDICATED ABOVE.	ATION REQUIRED TO	PROCESS THE TYPE
	/al is <mark>accurate</mark> ai	FION: I hereby certify that the information of complete to the best of my knowledge. quired information and notifications are su	I also understand that no	
	Note:	Statement must be completed by an individual w	rith managerial and/or supervis	ory capacity.
	Catanach r Type Name	Signature 9/1/14	Agent-Apache C	<u>orporation</u>
		9/11/14 Date	drcatanach@netso E-Mail Address	cape.com

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

Northeast Drinkard Unit Well No. 301 (API No. 30-025-06388)

Section 3, 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 Northeast Drinkard Unit Waterflood Project. Division Order No. R-8540, dated November 9, 1987 approved the statutory unitization of the Northeast Drinkard Unit Area ("Unit Area") and Division Order No. R-8541, as amended, dated November 9, 1987 approved secondary recovery operations within the Unit Area. Apache Corporation proposes to convert the Northeast Drinkard Unit No. 301 located 1980 feet from the South line and 660 feet from the West line (Unit T) of Section 3, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, to injection in order to complete an efficient production/injection pattern within the Unit Area.

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

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X Yes No
H.	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? X Yes No If yes, give the Division order number authorizing the project: Order No. R-8541, as amended, entered in Case No. 9232 on November 9, 1987.
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:
	SIGNATURE: David Catant DATE: 9/11/14
* DISTI	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: RIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office
~1711	abortorn original and one copy to dente to mail one copy to the appropriate bibliot office

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.

C-108 Application Apache Corporation Northeast Drinkard Unit No. 301 Section 3, T-21S, R-37E, NMPM Lea County, New Mexico

- I. The purpose of the application is to request approval to convert the Northeast Drinkard Unit Well No. 301 to water injection within the Northeast Drinkard Unit Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Lea County, New Mexico, in order to complete an efficient production/injection pattern within this secondary recovery project.
- 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 current and proposed wellbore configurations are attached. Also included are work-over procedures detailing how the Northeast Drinkard Unit No. 301 is going to be converted from a producing well to an injection well. Please note that Apache proposes to initially complete the subject well only within the Blinebry-Tubb formation through perforations from 5,741 feet to 6,151 feet. The Drinkard interval may be perforated at a later date, and consequently, Apache requests that the approved injection interval comprise the "Unitized Formation" as defined by Order No. R-8541 as "the Blinebry, Tubb and Drinkard formations which extend from an upper limit of 5,530 feet (2,101feet sub-sea) to a lower limit of 6,680 feet (3,251 feet sub-sea) on the log run June 21, 1951 on the Shell Argo Well No. 8 located 660 feet from the South line and 2310 feet from the West line of Section 15, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico".
- IV. This is an expansion of the Northeast Drinkard Unit Waterflood Project. Division Order No. R-8540 dated November 9, 1987 approved the statutory unitization of the Northeast Drinkard Unit Area ("Unit Area") and Division Order No. R-8541 dated November 9, 1987 approved secondary recovery operations within the Unit Area.
- V. Enclosed is a map that identify all wells/leases within a 2-mile radius of the proposed injection well and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. Attached is the complete listing of wells within the AOR of the Northeast Drinkard Unit No. 301. An examination of AOR well data indicates that all wells are constructed and/or plugged in such a manner so as to confine the injected fluid to the proposed injection interval.
- VII. 1. The average water injection rate is 250 BWPD, and the maximum injection rate is 500 BWPD. 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 surface injection pressure will be in compliance with Division Order No. IPI-185 dated August 13, 2002 (copy attached), which order authorized a surface injection pressure of 1,375 psi on a unit-wide basis within the Northeast Drinkard Unit. If a higher injection pressure is necessary, Apache will conduct a step rate injection test 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 well. If additional make-up water is necessary Apache will utilize San Andres produced water from a water source well.
 - 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 two Ogallala fresh water wells in this area that are approximately 90 feet deep.
- IX. A stimulation treatment may be performed on the injection well with a 15% HCL-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/- 10 BPM.
- X. Logs were filed at the time of drilling.
- XI. This data was previously submitted in Case No. 9232. If necessary, Apache can obtain an additional fresh water sample and provide a water analysis to the Division.
- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.

STATE OF NEW MEXICO ENERGY AND MINISPALS DEPARTMENT

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1	DISTRIBUTION		
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	U.S.C.S.		
	LAND OFFICE		

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17. Describe Proposed or Completed Operation	ons (Clearly state all pertinent dei	ails, and give pertinent dates, i	including estimated date of	starting any proposed
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	ment plug in Drinkard			
\ Blinebry tbg @	5450'. WOC 24 hrs.		_	•
3-23-83: Spotted 5 sx ce	ment plugs in Blinebr	y tbg 3987', 3430',	2600' and 1050'	. Spotted 5
sx cement plug	in Drinkard the @ 105	00'. Pumped 115 sx	Class "C" cement	down Drinkard
3-25 to 3-29-83: Found 1	Class "C" cement down	i bilhebry tbg. Wul na hatwaan 700' and	24 Nrs. Qln: Dumpad En	ev Clace ICI
neat cement fol	lowed by 10 sx Class	"C" w/_4% HR-5. WO	C 24 hrs. Tagge	d TOC @ 661'.
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4-03-83: Began flowing w	ell to test tank. Tu	ibb zone returned to	production.	
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18. I hereby certify that the information show	e is true and complete to the best	of my knowledge and belief.		***************************************
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OEIGINA"	THE STATES		40	# 1. 1983

CONDITIONS OF APPROVAL, IF ANYI

Submit 3 Copies to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico E. y, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

District Office	· · · · · · · · · · · · · · · · · · ·			
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. Box 200		WELL API NO.	· · · · · · · · · · · · · · · · · · ·
DISTRICT II P.O. Drawer DD, Arlesia, NM 88210	Santa Fe, New Mexico	87504-2088	5. Indicate Type of	1 1 2 101
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410			6. Suite Oil & Gas	
(DO NOT USE THIS FORM FOR PRODIFFERENT RESERVICES (FORM C	ICES AND REPORTS ON WEL OPOSALS TO DRILL OR TO DEEPEN RVOIR. USE "APPLICATION FOR PEI -101) FOR SUCH PROPOSALS.)	OR PLUG BACK TO A	į.	Juli Agreement Name DRINKARD UNIT
I. Type of Well: OIL OAS WELL	OTHER IN	ECTOR		-
2. Name of Operator SHELL WESTERN E. & P.	INC. (4435 WCK)		& Well No	205
3. Address of Operator	uston, TX 77001-0576	. ,	NORTH TUNIT	BLINEBRY-TUBB-
4. Well Location	100 Feet From The South	Line and	Feet From	West Line
Section 3 11. Check A NOTICE OF INT	10. Elevation (Show whether 3434' G Appropriate Box to Indicate I	DF, RKB, RT, GR, ac.) R Nature of Notice, Re		
\Box	PLUG AND ABANDON	REMEDIAL WORK		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING		ALTERING CASING
PULL OR ALTER CASING	· •	CASING TEST AND CE		
OTHER:		1	•	TI (Order #R-854))[X
500#, held OK. Cont to 500#, held OK. Per 6145' w/4200 gals 1596 CO to 6688'. Ferf'd 6687' w/3150 gals 1596	6" ttg). Could not estable to 6370', could not mobile perfs 6133' - 6363' & CaClz. POH W/pkr. It drlg cmt to 6363'. It f'd Blinebry/Tubb 5714' & HCI. DO CIBP @ 64. Drinkard 6508' - 668 & HCI.	inj rt. Dmpd 21 ake further hole W/25 SX CIS "6 DO cmt 5596' Orld on fill 6363 - 6145' (1 JSPF 30' & pushed re 57' (1 JSPF & 1 J to obtain frame	Ogals 15% / Tagged fill. "cmt + .3% -6302', Pr '-6430', * 1 ISP2F). A mains to btm SP2F). Acd	VEFE HCI dwn +bg. Q 6365'. Set CF-1 followed by res tstd sqz to Pres tstd hole Acd perfs 5783'- Drid up BP &
I hereby certify that the information above is true		J REVERSE SIDE	<u>) </u>	
SIGNATURE AS AM		REGULATORY S	UPV.	DATE 5-18-89
TYPE OR PRINT HAME	J. H. SMITHERMAN	(713)	870-3797	TELEPHONE NO.
(This space for State Use) ORIGINAL SIGNED APPROVED BY	BY JERRY SEXTON SUPERVISOR	· · .		MAY 2 3 198

Submit 3 Copies	State of Nev				Form C-103
to Appropriate District Office	Energy, Minerals and Natura	al Resources Department			Revised 1-1-89
DISTRICT P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. BOX		WELL API NO. 30-025		
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Me	xico 87504-2088	5. Indicate Type of	STATE	☑ FEE
DISTRICT III 1000 Rio Brazos Rd., Azlac, NM 87410	3		6. State Oil & Ges t	.ease No.	
SUNDF	RY NOTICES AND REPORTS O	N WELLS			
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Type of Well:	i stand to it.	-0.7	1		
☑ OIL WELL	GAS WELL OTHER	,			
2. Name of Operator			8. Well No.		
APACHE CORPORATION	ON		205		
3. Address of Operator			9. Pool name or W		
4. Well Location	., SUITE 100, HOUSTON, TX 7	77056-4400	Eunice	N, BTD	· · · · · · · · · · · · · · · · · · ·
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Pull or Alter Casing		Casing Test an	d Cement Job		
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12. Describe Proposed or Completed C SEE RULE 1103.	Operations (Clearly state all pertinent details, and give	e pertinent dates, including estimated date	of starting any propos	ed workj	
	ed 2-7/8" csg. to surface with centaned location. Well permanently		ad and install	led dry h	ole marker.
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HWW ICS

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LEASE NAME	NORTHEAST DRINKARD UNIT
WELL#	203
API#	30-025-06398
COUNTY	LEA

WELL BORE INFO.

Set 40 sx. cmt. plug 333'-Surface 13 3/8" csg @ 283' w/250 sx cmt to surf Set 25 sx. cmt. plug @ 1,572' 8 5/8" csg @ 3151' w/2300 sx cmt CIRC to surf Set 40 sx. cmt. plug @ 3,201' Tagged @ 2,851' CICR @ 3670 Sqzd w/650 sx CIRC CICR @ 3830 w/50 sx cmt wouldn't sqz CICR @ 4123' Sqzd w/115 sx cmt TOC 4255' by TS CIBP @ 5500' w/35' cmt Blinebry perfs @ 5552'-6001' Tubb perfs @ 6106'-6463' CIBP @ 6525' w/35' cmt Drinkard perfs @ 6572'-6784' CIBP @ 6900' w/35' cmt CIBP @ 7320' W/ 1 sx cmt ABO perfs @ 7024'-7284' Perfs @ 7350'-7388'

5-1/2" csg @ 7435' w/550 sx cmt TOC 4255' by TS

TD @ 7436'

Apache Corporation Form C-108: NEDU No. 301 **PA Schematic** NEDU Well No. 203

Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I	nergy, Minerals and Natural Resources	May 27, 2004
1625 N French Dr , Hobbs, NM 88240	50 0	WELL API NO.
1201 W. Count Ave. Advant NR (00210	DIL CONSERVATION DIVISION	30-025-06398
District III	201220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE S
1000 Kio Biazos Ku., Azice, Mil 87410 UC	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV 1220 S St Francis Dr., Santa Fe, NM		U. State Off & Gas Lease NO.
87505 62C	ave)	
SUNDRY NOTICES A (DO NOT USE THIS FORM FOR PROPOSALS TO	ND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR, USE "APPLICATION		Northeast Drinkard Unit (NEDU)
PROPOSALS)		8. Well Number
	ell Duker	203
2. Name of Operator		9. OGRID Number
Apache Corporatio 3. Address of Operator	<u>n '</u>	873
303 Veterans Airpark Lane, Ste. 300	0. Midland TX 79705	Eunice; Bil Ju-Dr, North (22900)
4. Well Location	o, Midiand, 1A 17105	Edifice, Dif-qu-D1, North (2200)
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Unit Letter P : 3200'	feet from the S line and	660' feet from the E line
Section 4 Township	21S Range 37E NMPM	County Lea
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Pit or Below-grade Tank Application or Closur		
Pit type Depth to Groundwater		ce from nearest surface water N/A
	•	ruction Material
12. Check Approp	oriate Box to Indicate Nature of Notice	, Report or Other Data
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		PANDA .
-	TIPLE COMPL CASING/CEME	_ //
OTHER: drill out & add Plugs	OTHER:	
		nd give pertinent dates, including estimated date
		attach wellbore diagram of proposed completion
or recompletion.		
•		_
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9/23/11 Tagged existing CICR @ 3670'		
i by @ 3201' combine plugs (3	3201' 2945'). Spot 40 sxs & tag @ 2851'. ((ve advised)
9/26/11 TBG @ 1572'. Spot 25 sxs disp	toc to 1325'.	, or a second
TBG @ 333'. Circ 40 sxs cmt (o surface. Ramo. Cut of	& WH. anchors.
• • • • • • • • • • • • • • • • • • • •	The state of the s	,
	le marker, and Clea	
I never certify that the information above is	s true and complete to the best of my knowled	ge and belief. I further certify that any pit or below- or an (attached) atternative OCD-approved plan
5. and man occur with the countries defect of chosed at	Constant to thirtoen guidentes (2), a general permit	Jos an (auscheu) auer nauve Oct-Approveu pian [].
SIGNATURE Kentley	TITLE P & A Supervisor	(Basic Energy Services) DATE 9-30-11
Type or print name: Randall Minear	E-mail address:	Telephone No. 432-563-3355
For State Use Only	0	
APPROVED BY:	TITLE SAME.	MGR DATE 10-6-2011
Conditions of Approval (if any):	THE Year	DATE
(/ (2)		•
	•	<u> </u>
	Approved for plugging of and t	en enla
•	Approved for plugging of well bo Liability under bond is retained p	pending receipt
	Approved for plugging of well bo Liability under bond is retained p of C-103 (Subsequent Report of which may be found as OCIA wear	cending receipt Well Plugging)

he found at OCD Web Page under Forms, www.cmnrd.state.nm.us/oed.



from WFX-784

South Permian Basin Region 10520 West I-20 East Odessa, TX 79765 (815) 498-9191 Lab Team Leader - Shalla Hemandsz (915) 495-7240

Water Analysis Report by Baker Petrolite

Company:

APACHE CORPORATION

Sales RDT:

Region:

PERMIAN BASIN

Account Manager: MIKE EDWARDS (505) 910-9517

Area:

Sample #:

223099

EUNICE, NM

Analysis ID #:

28971

Lease/Platform:

NORTHEAST DRINKARD UNIT WATER INJECTION STATION

Analysis Cost

\$40.00

Entity (or well #):

UNKNOWN

Formation: Sample Point:

INJECTION PUMP DISCHARGE

Summary		Analysis of San	npie 223099 @ 75 °F	•	
Sempling Date: 10/3/02	Anions in	Npem N	Callons	fém	meq/l
Analysis Date: 10/4/02 Analysi: SHEILA HERNANDE: TDS (mg/l or gim3): 20702.9 Density (gicm3, tonnelm3): 1.015 Anion/Cetion Ratio: 1.000000	Chloride: 10085 Bicarbonato: 871 Carbonate: 0 Buifate 2465 Phosphate: Burate: 5 Silicate: 5	.a 11.	Sodium: Magnesium: Calcium: Strontium: Barium: Iron: Potassium: Auminum:	5799.5 439.0 1699.9 28.0 0.1 0.3 115.0	252.26 36.11 54.84 0.64 0. 0.01 2.94
Carbon Dioxide: 80 PPM Oxygen: Comments:	Hydrogen Sulfide: pH at time of sampling: pH at time of snalysis; pH used in Calculation:	90 PPM 7.5 7.5	Chromium: Copper: Leed: Manganese:		

Candl	tions		Values (Calculated	at the Giv	en Condit	omA - anoi	unts of S	sale in lb/10	00 bbl			
1000	Gauge Press.			Calcite Gypsum CaCO ₃ CaSO ₄ '2H ₂ 0			Anhydrite CaSO 4		Celestite SrSO ₄		Barite BaSO 4		CO ₂ Press
٩F	psi	Index	Amount	index	Amount	Index	Amount	index	Amount	Index	Amount	pei	
80	0	1.18	75.54	-0.08	0.00	-0.14	0.00	C.07	2.75	0.75	0.00	0,21	
100	0	1.25	85.15	-0.08	0.00	-0.09	0.00	0.07	3.09	0.60	90,0	0,3	
120	0	1.53	95.11	-0.10	0.00	-0.02	0.00	0.09	3.78	0.47	00.0	0.42	
140	0	1.41	105.41	-0.10	0.00	0.08	128.07	0.11	4.46	0.38	0.00	0.56	

Note 1: When assessing the severity of the scale problem, both the seturation index (SI) and amount of scale must be considered.

Note 2: Pracipitation of each agets is considered separately. Total scale will be less than the sum of the smounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

Apache Corporation Form C-108: NEDU No. 301 **Produced Water Analysis**



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 targest) (NAD83 UTM in meters)

(In feet)

	4	POD'	,							4,			r
		Sub-	4 -	QC	Q			•		,			Water
POD Number **		Code basin	County	64 1	<u> 4</u>	Sec	Tws	Rng	, X_	<u> </u>	Well	_Water_	Column
CP 00552			LE							3598022* 🚫	90	75	15
CP 00553			LE	2	4	04	21\$	37E	672700	3598022*	90	75	15

Average Depth to Water:

75 feet

Minimum Depth: 75 feet

Maximum Depth:

75 feet

Record Count: 2

PLSS Search:

Section(s): 3, 4, 9, 10

Township: 21S

Range: 37E

Apache Corporation Form C-108: NEDU No. 301

Fresh Water Well Data

*UTM location was derived from PLSS - see Help

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

Form C-108 Affirmative Statement Apache Corporation Northeast Drinkard Unit No. 301 Section 3, 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

Date

Apache Corporation Form C-108: Northeast Drinkard Unit No. 301 Section 3, T-21 South, R-37 East, NMPM Lea County, New Mexico

Offset Operator/Leasehold Owner/Surface Owner Notification List

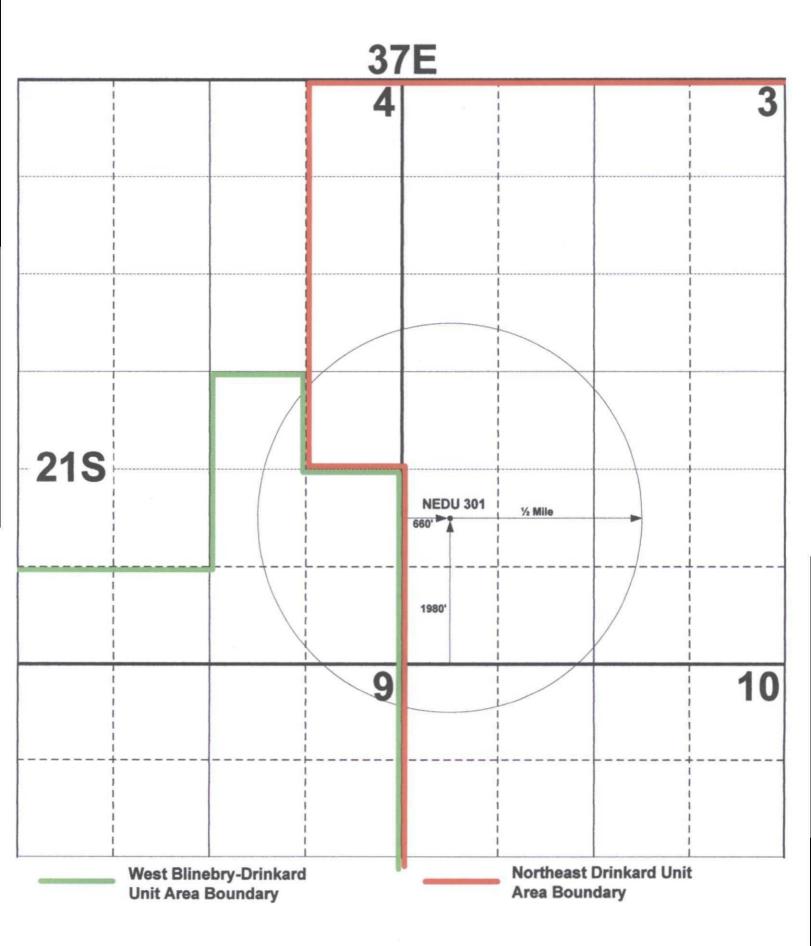
All acreage within the ½ mile notice area for the Northeast Drinkard Unit No. 301 is located within the Northeast Drinkard Unit Waterflood Project or the West Blinebry Drinkard Unit Waterflood Project. Both of these Units/Secondary Recovery Projects are operated by Apache Corporation in the North Eunice Blinebry-Tubb-Drinkard Pool (See Attached Lease Map). The surface owner at the well location of the Northeast Drinkard Unit No. 301 is Vanguard Permian, LLC. In accordance with Division rules, notice of this application is being provided as follows:

Surface Owner: Northeast Drinkard Unit No. 301

Vanguard Permian, LLC 4001 Penbrook, Suite 201 Odessa, Texas 79762 Attn: Vickie Tompkins

Additional Notice

OCD-Hobbs District Office



Apache Corporation
Form C-108: NEDU Well No. 301
½ Mile Notice Area Map

CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO: Vanguard Permian, LLC

4001 Penbrook, Suite 201 Odessa, Texas 79762 Attn: Vickie Tompkins

Re: Apache Corporation

Form C-108 (Application for Authorization to Inject)

Northeast Drinkard Unit No. 301 Section 3, 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 Northeast Drinkard Unit No. 301. As the owner of the surface where the injection well is located, you are being provided a copy of the application as per Division rules. Apache Corporation proposes to convert the Northeast Drinkard Unit No. 301 to injection within the existing Northeast Drinkard Unit Waterflood Project in order to complete an efficient production/injection pattern within the Northeast Drinkard Unit ("Unit Area"). The Unit Area and the waterflood project were previously approved by Division Orders No. R-8540 and R-8541, respectively, dated November 9, 1987. Injection into this well will occur into the Unitized Formation which comprises the Blinbry-Tubb-Drinkard formation from a depth of approximately 5,530 feet to 6,680 feet as found within the Shell Argo Well No. 8 located in Unit N of Section 15, 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

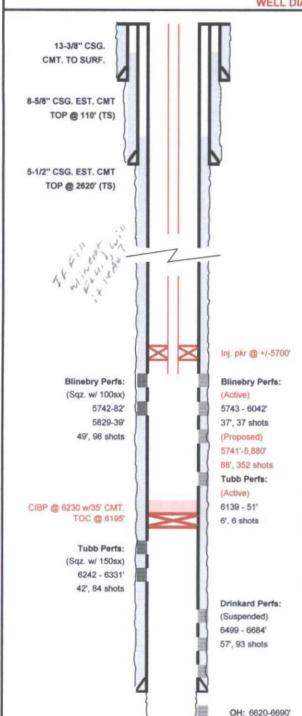
Midland, Texas 79705

Enclosure

Apache Corporation

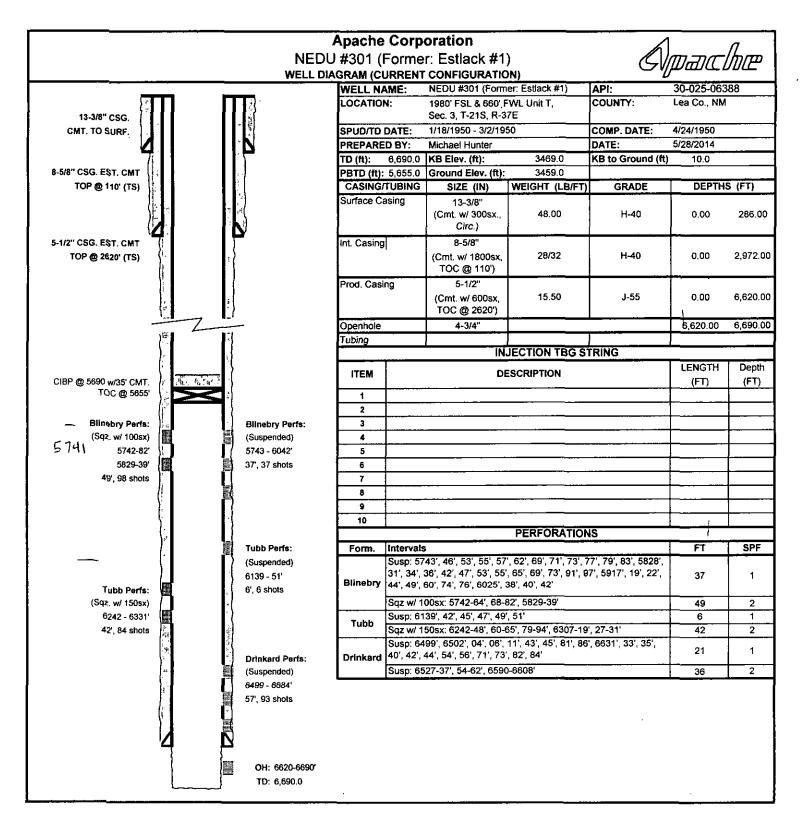
NEDU #301 (Former: Estlack #1)
WELL DIAGRAM (PROPOSED CONFIGURATION)





TD: 6,690.0

Levelar II. 14	UPUSEL	CONFIGURATION	ON)			
WELL NA	ME:	NEDU #301 (Form	er: Estlack #1)	API:	30-025-063	88
LOCATION	N:	1980' FSL & 660' F Sec. 3, T-21S, R-3		COUNTY:	Lea Co., NM	
SPUD/TD	DATE:	1/18/1950 - 3/2/195	50	COMP. DATE:	4/24/1950	
PREPARE	D BY:	Michael Hunter		DATE:	5/28/2014	
TD (ft):	6,690.0	KB Elev. (ft):	3469.0	KB to Ground (ft)	10.0	
PBTD (ft):	5,655.0	Ground Elev. (ft):	3459.0			
CASING	TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS	(FT)
Surface Ca	asing	13-3/8" (Cmt. w/ 300sx., Circ.)	48.00	H-40	0.00	286.00
Int. Casing		8-5/8" (Cmt. w/ 1800sx, TOC @ 110')	28/32	H-40	0.00	2,972.00
Prod. Casing		5-1/2" (Cmt. w/ 600sx, TOC @ 2620')	15.50	J-55	0.00	6,620.00
Openhole		4-3/4" (Suspended)			6,620.00	6,690.00
Tubing		2-3/8"	4.70	J-55 IPC	0.00	5,714.90
	II W	IN.	JECTION TBG ST	TRING		
ITEM		DE	SCRIPTION		LENGTH	Depth
IIEM		DE	SCRIPTION		(FT)	(FT)
1	2-3/8" 4.7	7 LB/FT J-55 IPC 15	505 TBG		5,692.00	5692.00
2	2-3/8" OI	N/OFF TOOL W/ 1.7	78 F PROFILE		1.80	5693.80
3	2-3/8" X	5-1/2" NICKLE PLA	TED ARROW-SET	PKR	6.20	5700.00
4	2-3/8" 4.7	7 LB/FT J-55 IPC TE	3G		8.00	5708.00
5	2-3/8" PF	ROFILE NIPPLE 1.5	0 R		0.90	5708.90
6	2-3/8" 4.7	7 LB/FT J-55 IPC TE	3G		6.00	5,714.90
7						
8						
9						
10				10		
-	lata and		PERFORATION	15		005
Form.	Intervals			201 71 001	FT	SPF
Blinebry	Active: 5' 31', 34', 3	743', 46', 53', 55', 57	5827-42', 45-58', 61 7', 62', 69', 71', 73', , 65', 69', 73', 91', 9' 38', 40', 42'	77', 79', 83', 5828',	37	1
	Sqz w/ 10	00sx: 5742-64', 68-8	32', 5829-39'		49	2
Tubb	Active: 6	139', 42', 45', 47', 49	9', 51'		6	1
	Snz w/ 1	50sx: 6242-48', 60-6	35', 79-94', 6307-19'	', 27-31'	42	2
	ode m					
Drinkard	Susp: 64		11', 43', 45', 81', 86' , 82', 84'	', 6631', 33', 35',	21	1



NEDU 301 (API: 30-025-06388) Proposed Procedure: Convert Well to Injection

July 14, 2014

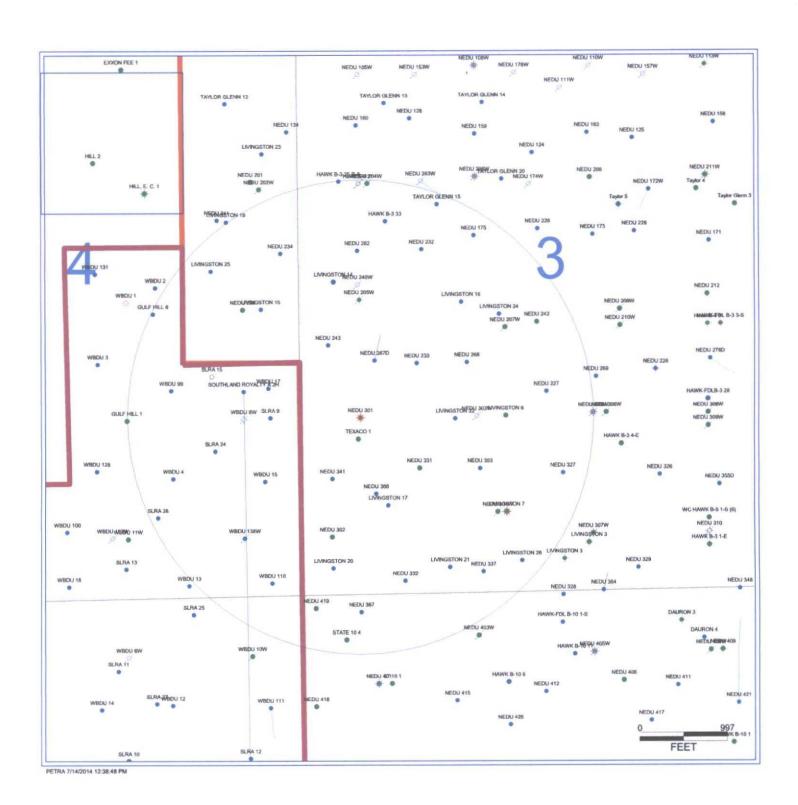
- Day 1: MIRU SR. NU BOPs & PU & RIH w/ 4-3/4" bit on 2-7/8" work string
- Day 2: Cont. RIH w/bit on 2-7/8" work string, drill out cement and CIBP @ 5655'. Drill out/push CIBP to below 6240'
- Day 3: MIRU WL, RIH w/CIBP and set @ +/-6230', POOH. RIH w/dump bailer and dump bail approximately 35' of cement on top of plug, POOH & WOC. RIH and tag TOC, POOH RIH and log well with GR/CBL/CCL from PBTD to surface to evaluate quality of cement within injection zone and confirm TOC, POOH
- Day 4: PU and RIH w/ 3-3/8" TAGs loaded with SDP charges, correlate depths to Welex Radioactivity log dated 12/6/1960. Perforate the Blinebry from 5741-63', 68-84', 5827-42', 45-58', 61-69', 71-80' @ 4 SPF, 90 deg phasing (total 88', 352 shots), POOH

 PU and RIH w/RBP & treating packer on 2-7/8" work string. Set RBP @ +/-5910', PUH & set packer @ +/-5700'
- Day 5: MIRU acidizers. Acidize the Blinebry w/6,000 gals 15% HCl and rock salt in 3 equal stages @ +/- 3
 BPM (attempt to keep STP below 2,000 psi if possible to avoid fracturing the formation)

 Release packer and wash out salt. POOH
- Day 6: PU and RIH with 5-1/2" injection packer with 2-3/8" IPC tubing subs, upper and lower profile nipples, and on/off tool on 2-7/8" work string. Set packer @ +/-5700'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-7/8" work string
- Day 7: PU & RIH w/2-3/8" IPC 1505 tubing and on/off tool. Circulate packer fluid and latch onto packer with on/off tool. ND BOPs and NU WH. Pressure test casing to 500 psi. RDMO SR
- Day 8: Perform chart-recorded MIT for the NM OCD

 Leave well shut-in for 14 days and perform WL static pressure survey. Place well on injection

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		- 22
	* ConocoPhillips *	
: 1	. Warren Blinebry Unit	
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	Chevron Central Drinkard Unit	
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	CALLET OF A CAMPAGE	
38		
. 1	Apache Corporation	
	Form C-108: NEDU No. 30)1
	NEDU Area Map	
		f.r



Apache Corporation Form C-108: NEDU No. 301 ½ Mile AOR Map

APACHE CORPORATION

FORM C-108: NEDU WELL NO. 301

AREA OF REVIEW WELL LIST

WELLS THAT DO NOT PENETRATE INJECTION ZONE

API NUMBER	OPERATOR -	LEASE	WELL	WELL	STATUS	FTG:	N/S	FTG.	Ε/W	UNIT	SEC.	TSHP.	RNG.	TOTAL	REMARKS
·	·	NAME	NO.	TYPE		N/S		E/W				,		DEPTH	
30-025-06511	Continental Oil Co.	Hawk B 3	21	Р	PA	3300'	2	660'	W	L	3	218	37E	2,665	
30-025-35225	Apache Corporation	Livingston	16	Р	Active	3240'	S	1839'	8	N	3	21S	37E	4,500'	Grayburg
30-025-35226	Apache Corporation	Livingston	17	Ь	Active	990'	S	990'	8	د	3	218	37E	4,455'	Grayburg
30-025-35227	Apache Corporation	Hawk B 3	25	Р	Active	4600'	S	467'	W	L	3	21S	37E	4,450'	Grayburg
30-025-35354	Apache Corporation	Taylor Glenn	15	Р	Active	3448'	Z	1576'	8	K	3	21S	37E	4,450'	Grayburg
30-025-35373	Vanguard Permian, LLC	Texaco	1	Р	Active	1730'	S	660'	٧		3	21S	37E	4,422	Grayburg
30-025-37725	Apache Corporation	Livingston	20	Р	Active	330'	တ	330'	8	J	3	21S	37E	4,380'	Grayburg
30-025-37726	Apache Corporation	Livingston	21	Р	Active	330'	တ	1650'	8	V	3	21S	37E	4,380'	Grayburg
30-025-37727	Apache Corporation	Livingston	22	Ρ	Active	1940'	S	1760'	8	S	3	215	37E	4,275'	Grayburg
30-025-38382	Apache Corporation	Livingston	24	P	Active	3095'	S	2270'	٧	Z	3	21S	37E	4,153	Grayburg
30-025-39510	Apache Corporation	Hawk B 3	33	Р	Active	3630'	Z	990'	8	L	3	21S	37E	4,400	Grayburg
30-025-39526	Apache Corporation	Livingston	26	Р	Active	350'	S	2500'	٧	V	3	21\$	37E	4,507'	Grayburg
30-025-35224	Apache Corporation	Livingston	15	Р	Active	3196'	S	426'	Ш	Ρ	4	21S	37E	4,482'	Grayburg
30-025-35341	Apache Corporation	Livingston	19	Р	Active	3630'	N	810'	E		4	21S	37E	4,450'	Grayburg
30-025-35350	Apache Corporation	Southland Royalty A	9	P	Active	1980'	S	330'	ш	a	4	215	37E	4,450'	Grayburg
30-025-35493	Apache Corporation	Gulf Hill	6	Р	Active	3168'	S	1650'	Е	0	4	21S	37E	4,450'	Grayburg
30-025-36141	Apache Corporation	Southland Royalty A	15	SWD	PA	2460'	S	990'	E	Q	4	21S	37E	4,150'	Grayburg
30-025-37970	Apache Corporation	Southland Royalty A	24	Р	Active	1920'	S	990'	ш	a	4	21S	37E		Grayburg
30-025-38134	Apache Corporation	Southland Royalty A	26	Р	Active	920'	S	1650'	Е	W	4	21S	37E	4,200'	Grayburg
30-025-39447	Apache Corporation	Livingston	25	Р	Active	3630'	S	990'	Е	Р	4	215	37E	4,505'	Grayburg

APACHE CORPORATION FORM C-108: NORTHEAST DRINKARD UNIT NO. 301 AREA OF REVIEW WELL LIST WELLS THAT PENETRATE INJECTION INTERVAL (Page 1)

API NUMBER **OPERATOR** LEASE WELLIWELLISTATUS FTG. IN/S FTG. IEW UNIT SEC. ITSHPIRNG. DATE TOTAL HOLE CSG. I SET SX. CMT. [MTD.] CMT. MTD. | COMPLETION REMARKS SX. NAME NO. TYPE DRILLED DEPTH SIZE SIZE AT CMT. SIŻE CMT. TOP AT 30-025-06493 Apache Corporation NEDU 305 I Active 1980' S 1980' E 21S 37E Sep-55 6,747' 17 1/2" 13 3/8" 199' 250 Surface Circ. 12 1/4" 9 5/8" 2,969 1525 725' T.S. 6,535'-6,689' Perf. | Drinkard Completion 8 3/4" 6.746 875 3,000' T.S. NEDU Active 3300' N 760' W L 3 21S 37E Aug-62 6.800' 10 3/4" 9 5/8" 1,310' 625 Surface Circ. 8 3/4" 650 2,200'* T.S. 5.811'-6.740' Perf. Blinebry-Tubb-Drinkard Completion 30-025-06506 Apache Corporation 6,800' 7" casing perforated @ 1,430' & squeezed w/375 sx. NEDU Active 1980' S 1980' Blinebry Completion; PBTD: 5,870' 30-025-06512 Apache Corporation 303 | 1 21S 37E Sep-49 | 6,700' | 17 1/2" | 13 3/8" | 228' 300 Surface Calc 11" 8.5/8" 2,916 2000 Surface Circ. 5.725'-5.870' Perf. 7 7/8" 5 1/2" 6.674 600 3.475' Calc Perfs & C.H. Abandoned: 5.870'-6.700' 30-025-06516 Apache Corporation NEDU Active 660' S 330' W U 3 21S 37E Jan-52 6 690' 17 1/2" 13 3/8" 218' 250 Surface Circ 11" 8 5/8" 2640 Surface Circ. 5.812'-6.646' Perf. Blinebry-Tubb-Drinkard Completion 700 Liner Top 7 7/8" | 5 1/2" 2.953'-6.689' Circ. 2200 Surface Circ. 3.865'-3.970' Perf. Grayburg Completion; PBTD: 5,465"** 30-025-06517 Apache Corporation Livingston Active 1980' S 2308' W S 3 21S 37E Jun-52 8,230' 17 1/4" 13 3/8" 222' 250 Surface Circ. 11" 8 5/8" 3.147 7 7/8" 5 1/2" 2.944'-8.228' 895 Liner Top Ellenburger Perfs: 8,172'-8212'; CIBP @ 8,125' w/10' cmt; McKee Perfs: 7,805'-8,075'; Squeezed w/35 sx. cmt. CIBP @ 7,430' + 1 sx. cmt.; Abo Perfs: 7,127'-7,326'; CIBP @ 7,115' + 1 sx. cmt.; Abo Perfs: 6,980'-7,088'; CIBP @ 6,919' + 35' cmt.; Blinebry Perfs: 5,575'-5,875'; Squeezed w/200 sx. cmt. CIBP @ 5,500' + 35' cmt. 30-025-06518 Apache Corporation Livingston Active 915' S 2308' W 3 21S 37E Jul-52 8,130' 17 1/4" 13 3/8" 222' 250 Surface Circ. 11" 8 5/8" 2000 Surface Circ. 3,852'-3,960' Perf. Grayburg Completion; PBTD: 5,943'** V 3,142' 7 7/8" 5 1/2" 2.930'-8.129' 800 Liner Top Circ Simpson Perfs: 7,760'-7,925'; Squeezed w/75 sx. cmt. Abo Perfs: 6,960'-7,142'; CIBP @ 6,901' w/35' cmt. Drinkard Perfs: 6,491'-8,639'; Squeezed w/250 sx. cmt. CIBP @ 6,440' w/35' cmt. Tubb Perfs: 6,067'-6,392'; Squeezed w/700 sx. cmt. CIBP @ 6,991' + 35' cmt. NEDLI 207 | Active 2970' S 2308' W N 3 21S 37E Jul-52 8 030' 17 1/2" 13 3/8" 215 250 Surface Circ. 11" 8 5/8" 3.153 1600 Surface Circ. 5.819'-6,813' Perf. 30-025-06519 Apache Corporation Blinebry-Tubb-Drinkard Completion: PBTD: 7 7/8" 5 1/2" 2.648'-7.000' 810 Liner Top 6.885': 250 sx. cmt. 7,400'-8,030'; CIBP @ Circ. 6.885 Blinebry-Tubb-Drinkard Completion: 30-025-06520 Apache Corporation NEDU 304 I Active 915' S 2208' W V 3 21S 37E Oct-52 6,659' 17" 13 3/8" 237' 250 Surface Circ. 11" B 5/8" 3.151 2000 · Surface Circ. 5.558'-6.625' Perf 7 7/8" 5 1/2" 2,950'-6,584' 700 Liner Top Circ & O.H. PBTD: 6.625' 30-025-06521 NEDU PA 3300' S 660' W M 3 21S 37E Nov-61 6,730' 12 1/4" 9 5/8" 6.724" 635 2.400 7.S. 5.714'-6.687' Perf. Blinebry-Tubb-Drinkard Completion: Apache Corporation 205 3 Strings of 2.7/8" casing were set and cemented in the well to separately produce the Blinebry, Tubb and Drinkard Intervals. TOC @ 2.400" by T.S. Well PA'd 2/96. Schematic Attached 30-025-28671 Apache Corporation Livingston Active 3500' S 367' W M 3 21S 37F Apr-84 7 745' 17 1/4" 13 3/8" 481' 475 Surface Circ. 12 1/4" 8 5/8" 2,470' 1425 Surface Circ. 3,845'-3,946' Perf. Grayburg Completion: PBTD: 6,884' 1530 364' * 7 7/8" | 5 1/2" 7.745 Calc Abo Perfs Abandoned: 7,080'-7,208' *5 1/2 csg. stage cemented. 1st stage: 1070 sx. 2nd stage: 460 sx. DV Tool @ 2,995" CIBP @ 6,919' + 35' cmt. on top 30-025-34366 Apache Corporation NEDU Active 1348 S 2330 E R 3 21S 37E May-98 6,800' 16" 13 3/8" Redi Surface Circ 11" 8 5/8" 1,320 410 Surface Circ. 5,711'-6,679' Perf. Blinebry-Drinkard Completion: Mix 7 7/8" 5 1/2" 6.800' 1230 Surface Circ. 227 P Active 2225 S 2507 E R 3 21S 37E Oct-98 6,890 17 1/2" 13 3/8" 30-025-34428 Apache Corporation NEDU Redi Surface 11" 8 5/8" 1,310 410 Surface Circ. 5,638'-6,728' Perf. Blinebry-Tubb-Drinkard Completion: 5 1/2" 6.890 1315 Surface 7 7/8" NEDU 11" 8 5/8" 1,302' 410 Surface Circ. 7 7/8" 5 1/2" 1225 Surface Circ. 5,628'-6,754' Perf. Blinebry-Tubb-Drinkard Completion: 30-025-34430 Apache Corporation Active 3428' S 1397' W N 3 21S 37E Oct-98 6,890' 6,890' NEDU 30-025-34431 Apache Corporation Active 2.562 S 1330 W S 3 21S 37E Sep-98 6.870 11" 8 5/8" 1,285' 410 Surface Circ. 7 7/8" 5 1/2" 6,870' 1300 Surface Circ. 5,602'-6,732' Perf. Blinebry-Tubb-Drinkard Completion: 30-025-34433 Apache Corporation NEDU 331 P TA 1400' S 1350' W 3 21S 37E Sep-98 6,865 11" 8 5/8" 1,328' 410 Surface Circ. 7 7/8" 5 1/2" 6,865 1450' Surface Circ. 5,624'-6,730' Perf. Blinebry-Drinkard Completion; Tubing stuck @ 5,630'. Cut tubing @ 5,588'. Set CIBP @ 8,550. Well Is TA'd NEDU 5,647'-6,698' Perf. Blinebry-Tubb-Drinkard Completion: Apache Corporation 332 P 30-025-34739 | 21S | 37E | Feb-00 | 6.890' | 12 1/4" | 8 5/8" | 1.305' | 460 | 6.890 1425 Surface

71 Pil Active Total 290

APACHE CORPORATION FORM C-108: NORTHEAST DRINKARD UNIT NO. 301 AREA OF REVIEW WELL LIST WELLS THAT PENETRATE INJECTION INTERVAL (Page 2)

	CMT. TOP	<u> </u>		
			5 7401 0 70 41 Df	Dinchas Dankard Completing:
30-025-35904 Apache Corporation NEDU 143 Active 330' N 1330' W C 3 21\$ 37E Jul-02 6,850' 12 1/4" 8 5/8" 1,268' 550 Surface Circ. 7 7/8" 5 1/2" 6,850' 1	1500 Surface	e Circ.	5,718'-6,734' Perr.	Blinebry-Drinkard Completion:
30-025-37678 Apache Corporation NEDU 337 P Active 230' S 2060' W V 3 21S 37E Mar-06 6,900' 12 1/4" 8 5/8" 1,194' 550 Surface Circ. 7 7/8" 5 1/2" 6,900' 1	1000 216	CBL	5 638' 6 740' Perf	Blinebry-Tubb-Drinkard Completion:
30-22-37076 Apacine Colporation NEEDS 37 F Active 230 S 2000 W V S 213 372 Million 0,300 12 174 0 370 1,139 300 Surface Citic, 17 770 3 172 0,300	210	ÇBL	3,030-0,740 Fent.	Difficulty-Tubb-Britishare Completion.
30-025-37875 - Apache Corporation NEDU 242 P Active 3050' S 2595' E N 3 21S 37E Jun-06 6,950' 12 1/4" 8 5/8" 1,325' 575 Surface Circ. 7 7/8" 5 1/2" 6,950' 1	1000 Surface	ce Circ.	5,667'-8,716' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-38152 Apache Corporation NEDU 243 P Active 2780' S 330' W M 3 21S 37E May-07 6,955' 12 1/4" 8 5/8" 1,290' 575 Surface Circ. 7 7/8" 5 1/2" 6,955' 1	1250 212	CBL	5,602'-6,714' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-38154 Apache Corporation NEDU 341 P Active 1330' S 330' W T 3 21S 37E Jun-07 6,906' 12 1/4" 8 5/8" 1,329' 575 Surface Circ. 7 7/8" 5 1/2" 6,906' 1	1400 128'	CBL	5,633'-6,728' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-40499 Apache Corporation NEDU 282 P Active 3850' S 660' W M 3 21S 37E Sep-12 7,050' 12 1/4" 8 5/8" 1,356' 670 Surface Circ. 7 7/8" 5 1/2" 7,050' 1	1515 Surface	ce Calc.	5,725'-6,739' Perf.	Blinebry-Drinkard Completion: 5 1/2" csg.
32-25-40495 Apaciae Colporation 14250 202 F Acque 3000 V W 3 213 372 3epriz 7,000 12 114 0 3/0 1,000 070 3triace Cit. 7 1/0 3 1/2 1,000	1010 dullace	Calc.	3,120-0,130 1 611.	stage cemented: 1st-490 sx. 2nd-1025 sx.
		_		DV Tool @ 4,641'
30-025-40516 Apache Corporation NEDU 175 P Active 3785' N 1980' W K 3 21S 37E Aug-12 7,050' 12 1/4" 8 5/8" 1,371' 700 Surface Circ. 7 7/8" 5 1/2" 7,050'	1150 Surface	ce Circ.	5,746'-6,723' Perf.	Blinebry-Drinkard Completion:
	10/4		5 7041 0 7471 0 4	Disable District Completion
30-025-40779 Apache Corporation NEDU 268 P Active 2590' S 1890' W S 3 21S 37E Oct-12 7,000' 12 1/4" 8 5/8" 1,293' 500 Surface Circ. 7 7/8" 5 1/2" 7,000'	1210 Surface	ce Circ.	5,/31-6,/4/ Реп.	Blinebry-Drinkard Completion:
30-025-40785 Apache Corporation NEDU 353 P Active 1255' S 2160' W V 3 21S 37E Nov-12 7,003' 11" 8 5/8" 1,327' 475 Surface Circ. 7 7/8" 5 1/2" 7,003'	1160 Surface	ce Circ.	5 697'-5 955' Perf	Blinebry Completion: PBTD: 6,402'
BHL 1404' S 2134' W S 3 21S 37E	1100 Surface	Se Gilc.	0,007 -0,000 T GH.	Billiably Completion, 1 515, 5,152
			·	
30-025-40787 Apache Corporation NEDU 366 P Active 1145 S 850 W U 3 21S 37E Oct-12 7,000 11" 8 5/8" 1,302 500 Surface Circ. 7 7/8" 5 1/2" 7,000	1205 Surface	ce Circ.	5,751'-6,791' Perf	Blinebry-Drinkard Completion:
	1090 Surface	ce Circ.	5,711'-6,778' Perf.	Blinebry-Drinkard Completion:
BHL 2590' S 861' W T 3 21S 37E			 	
30-025-40849 Apache Corporation NEDU 263 P Active 3345' N 1620' W K 3 21S 37E Sep-13 7,000' 11" 8 5/8" 1,330' 475 Surface Circ. 7 7/8" 5 1/2" 7,000'	1350 Surface	ce Circ.	6 621'-6 727' Perf	Drinkard Completion
35-52-53-53-54-54-54-54-54-54-54-54-54-54-54-54-54-	1000 Guilace	GE GIIC.	0,021-0,727 1 011.	Difficult Completion
30-025-06396 Apache Corporation WBDU 138 I Active 660' S 660' E X 4 21S 37E Oct-51 6,750' 17 1/2" 13 3/8" 300' 300 Surface Circ. 11" 8 5/8" 2,905'	475 1,750	T.S.	5,767'-6,570' Perf.	Blinebry-Tubb-Drinkard Completion:
	900 Surface *	e ** Circ.		
** Original TOC on 5 1/2" casing is 4,570'. 5 1/2" casing was perforated @ 4,150' and circulated to surface w/675 sx. cmt. Grayburg perforations from 3,891'-4,007' squeezed w/500 sx. cmt.	<u> </u>			
30-025-06397 Apache Corporation WBDU 8 I Active 1980' S 660' E Q 4 21S 37E Oct-52 6,756' 17 1/2" 13 3/8" 300' 300 Surface Circ. 11" 8 5/8" 2,882'	400 1,365	5' T.S.	5,610'-6,670' Perf.	Blinebry-Drinkard Completion: PBTD: 6,675'
	1140 Surface *			Billiebi y-Drinkald Completion, FB10. 0,073
** Original TOC on 5 1/2" casing is 5,425'. 5 1/2" casing was perforated @ 4,600' and squeezed w/560 sx. cmt. TOC @ 2,890'. 5 1/2" csg. was perforated @ 2,360' and squeezed w/400 sx. cmt. TOC @ Surface	7140 j Odnace	0 1 0110.		-'
	2300 Surface			Well PA'd 9/2011. Schematic Attached
	1200 Surface **	e ** Circ.		<u> </u>
Original TOC on 5 1/2" casing is 4,255'. 5 1/2" casing was perforated @ 3,670' and squeezed w/650 sx. cmt. TOC @ Surface	- -	-	 	 -
30-025-06401 Apache Corporation Gulf Hill 1 P Active 1980' S 1980' E R 4 21S 37E Apr-54 5,974' 17 1/2" 13 3/8" 156' 150 Surface Circ. 11" 8 5/8" 2,933'	600 218'	' Calc.	3,897'-4,019' Perf.	Grayburg Completion: Perfs Abandoned:
	375 3,470			Blinebry-5,652'-5,956'; CIPB @ 5,600'
	2,0 0,410			w/15' of crnt. on top
30-025-34738 Apache Corporation NEDU 234 P Active 3810' S 200' E P 4 21S 37E Jan-00 6,900' 12 1/4" 8 5/8" 1,275' 460 Surface Circ. 7 7/8" 5 1/2" 6,900'	1425 Surface	ce Circ.	5,623'-6,692' Perf.	Blinebry-Tubb-Drinkard Completion:
				<u> </u>
30-025-37031 Apache Corporation WBDU 15 P Active 1310' S 430' E X 4 21S 37E Mar-05 6,950' 12 1/4" 8 5/8" 1,172' 575 Surface Circ. 7 7/8" 5 1/2" 6,950'	1150 188'	CBL	5,691'-6,700' Perf.	Blinebry-Tubb-Drinkard Completion:

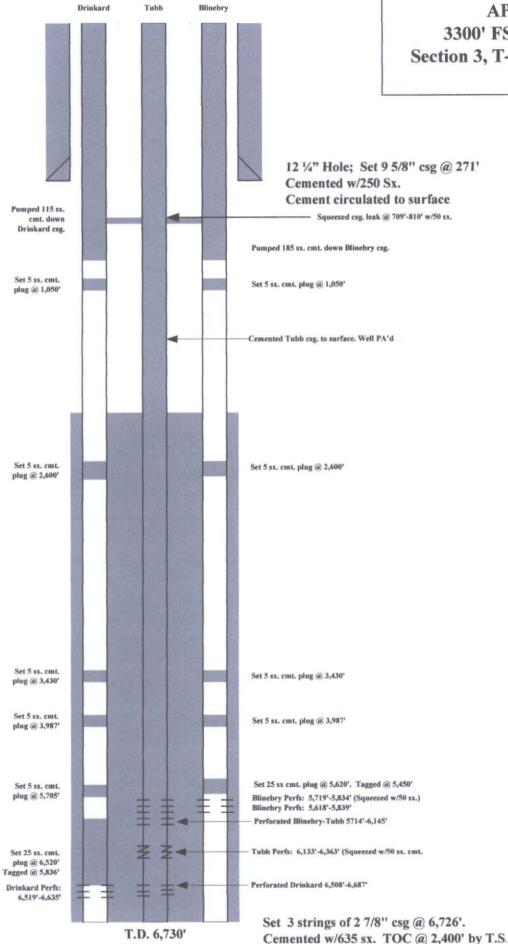
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FORM C-108: NORTHEAST DRINKARD UNIT NO. 301 AREA OF REVIEW WELL LIST WELLS THAT PENETRATE INJECTION INTERVAL (Page 3)

API NUMBER	OPERATOR	LEASE			STATUS		N/S	FTG. E	WUN	TSEC	. TSHF			TOTAL			ŞET			MTD.	HOLE		SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
		NAME _	NO.	TYPE	ļ. —	N/S	╂╌┤	E/W	+	-	+	-	DRILLE	DEPTH	SIZE	SIZE	AT	CMT.	TOP	<u> </u>	SIZE	SIZE	AT	CMT.	TOP	 		
30-025-37463	Apache Corporation	WBDU	17	Р	Active	2310'	s	350'	ΕQ	4	218	37E	Oct-05	7,267'	12 1/4"	8 5/8"	1,195	575	Surface	Circ.	7 7/8*	5 1/2"	7,267'	1400	270'	CBL	5,675'-6,726' Perf.	Blinebry-Tubb-Drinkard Completion
			4				\Box		#	1_	ļ				<u> </u>	Ľ.,	Ι	ļ	<u> </u>									Abo Perfs: 6,862'-6,976'; CIBP @ 6,850'
30-025-38229	Apache Corporation	WBDU	4	P	Active	1330'	s	1440'	E R	4	218	37E	Feb-07	6,975	12 1/4"	8 5/8"	1,222	600	Surface	Circ.	7 7/8*	5 1/2"	6,975'	1200	153'	CBL	5,656'-6,786' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-39287	Apache Corporation	WBDU	99	P	Active	2310'	s	1450'	E R	4	215	37E	Jun-09	6,985	12 1/4"	8 5/8"	1,315	650	Surface	Circ.	7 7/8"	5 1/2"	6,985	1135	Surface	Circ.	5,661'-6,804' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-39494	Apache Corporation	WBDU	110	P	Active	140'	s	330'	E X	4	218	37E	Oct-09	6,867	12 1/4"	8 5/8"	1,293	650	Surface	Circ.	7 7/8*	5 1/2"	6,867'	1000	Surface	Circ.	5,633'-6,752' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-36367	Apache Corporation	NEDU	419	P	Active	150'	N	160'	w D	10	218	37E	Oct-03	6,900	12 1/4"	8 5/8"	1,327	600	Surface	Circ.	7 7/8"	5 1/2"	6,900'	1250	90'	CBL	5,622'-6,686' Perf.	Blinebry-Tubb-Drinkard Completion:
30-025-37146	Breck Operating Corp.	State 10	4	P	Active	467'	N	467'	w D	10	215	37E	May-05	5,510	12 1/4"	8 5/8"	1,284	595	Surface	Circ.	7 7/8"	5 1/2"	5,510'	785	Surface	Circ.	4,011'-4,113' Perf.	San Andres Completion: PBTD: 4,325
30-025-40788	Apache Corporation	NEDU	367	Р	Active	175'	N	670'	w b	10	218	37E	Nov-12	7,005	11"	8 5/8"	1,320	475	Surface	Circ.	7 7/8*	5 1/2"	7,005	450	4,605	Calc,	5,747'-6,719' Perf.	Blinebry-Orinkard Completion:

TA PA Active Total com

Apache Corporation NEDU Well No. 205 API No. 30-025-06521 3300' FSL & 660' FWL (Unit M) Section 3, T-21 South, R-37 East, NMPM



Drilled: 11/1961 Plugged: 2/1996

Apache Corporation Form C-108: NEDU No. 301 PA Schematic NEDU Well No. 205

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 lissue(s). Beginning with the issue dated August 13, 2014 and ending with the issue dated August 13, 2014

PUBLISHER

Sworn and subscribed to before me this 13th day of August, 2014

Notary Public

My commission expires January 29, 2015



OFFICIAL SEAL **GUSSIE BLACK** Notary Public State of New Mexico My Commission Expires /- 29-15

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

FRAL

LEGAL

LEGAL NOTICE August 13, 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 convert the following-described well to water injection within the Northeast Drinkard Unit ("NEDU") Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Lea County, New Mexico:

NEDU Well No. 301, API No. 30-025-06388, 1980' FSL & 660' FWL (Unit T)

Section 3; T-21 South, R-37 East,

Injection Interval (Estimated): Initially: 5,741'-6,151' (Blinebry-Tubb Perforated) later to be expanded to include the entire "Unitized Formation" (Blinebry, Tubb & Drinkard Formations which extend from an upper limit of 5,530' (2,101 feet sub-sea) to a lower limit of 6,680' (3,251 feet sub-sea) on the log run on the Shell Argo Well No. 8 located in Unit N of Section 15, T-21S, R-37E.

Produced water and San Andres make-up water will be injected into the well at average and maximum rates of 250 BWPD and 500 BWPD, respectively. The initial surface injection pressure is anticipated to be in compliance with Division Order No. IPI-185, which authorized a unit-wide Injection pressure of 1375 psi, and the maximum surface injection pressure will be determined by a step rate injection test

Interested parties must file objections with the New Mexico Oli 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.

67109591

00142137

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



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

August 13, 2002

Lori Wrotenbery
Director
Oil Conservation Division

Governor.
Betty Rivera

Cabinet Secretary
Apaché Corporation
6120 S. Yale, Suite 1500
Tulsa, Oklahoma 74136

Attn: Mr. Kevin Mayes

RE: Injection Pressure Increase, -185

Northeast Drinkard Unit

Waterflood Project

Lea County, New Mexico

Dear Mr. Mayes:

Reference is made to your request dated July 25, 2002, to increase the surface injection pressure on all injection wells within the above-referenced water flood project. This request is based on recent step rate tests conducted on twelve (12) injection wells during 2002. Test results have been reviewed, and we feel an increase in injection pressure is justified at this time.

You are therefore authorized to increase the surface injection pressure on all current injection wells within this water flood to a maximum surface injection pressure of 1375 psig. In addition, you are authorized to increase the surface injection pressures on the twelve (12) test wells to the pressures as shown on the attached Exhibit "A".

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected fluid is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery

Director

LW/wvj

cc: Oil Conservation Division - Hobbs

Files: R-8541; IPI-2002; WFX-576, 579, 583, 624, 674, 722, 740, 752, 759, and 774

Attachment

Apache Corporation August 13, 2002 Page 2

Exhibit "A" Apache Corporation Northeast Drinkard Unit (NEDU) Township 21 South, Range 37 East, NMPM, Lea County, New Mexico Injection Pressure Increases

a a Alfriceinn Walla	l op skalf Dom li Tilgal s	. IZ (d. (rii))	Quar Mintaret
		Arsinas TNO:	
NEDU Well No. 111, API No. 30-025-26670	5807	2160	R-8541
NEDU Well No. 115, API No. 30-025-06340	5866	2240	R-8541
NEDU Well No. 210, API No. 30-025-06502	6576	2250	WFX-722
NEDU Well No. 215, API No. 30-025-06341	5767	1970	WFX-722
NEDU Well No. 303, API No. 30-025-06512	6528	1710	R-8541
NEDU Well No. 308, API No. 30-025-06494	6566	1920	WFX-674
NEDU Well No. 403, API No. 30-025-06449.	5716	1900	R-8541
NEDU Well No. 605, API No. 30-025-06613	5698	1375	R-8541
NEDU Well No. 709, API No. 30-025-06595	5748	1790	R-8541
NEDU Well No. 806, API No. 30-025-06727	5578.	1400	WFX-759
NEDU Well No. 911, API No. 30-025-06760	5469	1375	WFX-759
NEDU Well No. 913, API No. 30-025-09932	5557	1375	WFX-579

(1315 PSi)

8/2/02

entered Findly SHAME WELLOW WOLKS THE COMMUNICATION THE SEA COUNTY SUFFICIENT DU SOCIETA WE THEN US FROM WE FER US FEED EVE DRINKARD 37|E UNIT APACHE CORPII Lea E 14 21|5 1980 N 660 W 30-025-06339-00-00 615 NURTHEAS DRINKARD 660 W 37 E 5940 S 115 APACHE CORP 21 S 30-025-00340-00-00 UNIT Lea NORTHEAS DRINKARD 37 E 660 W 21|5 3175 S 30-025-06341-00-00 UNIT 215 APACHE CORPII Lea NORTHEAS DRINKARD 21|S 37 E 906 N 660 W 30-025-06344-00-00 UNIT 114 APACHE CORP Lea DRINKARD 3 2 21 S 37 E 921 N 1650 W 30-025-06345-00-00 APACHE CORP|I S UNIT 117 Lea NORTHEA DRINKARD 5 37 E 5790 S 660 W 30-025-06346-00-00 UNIT 116 APACHE CORPII Lea S 2 21|5 NURTHEAS DRINKARD 30-025-06350-00-00 O 21|8 37 E 2983 S 2317 E UNIT 221 APACHE CORP 2 Lea NORTHEAS DRINKARD 37 E 4303 S 2317 E 30-025-06351-00-00 UNIT 224 APACHE CORPL 21|5 Lea NUKTHEAT DRINKARD 990 E 30-025-06353-00-00 APACHE CORP I 21|S 37 E 1650 S UNIT 319 Lea NORTHEAS DRINKARD 21|8 37 E 2220 N 2307E 30-025-06354-00-00 UNIT 121 APACHE CORPI S Lea NORTHEAS DRINKARD 9 21|8 37 E 3534 N 990 E 30-025-06356-00-00 UNIT 222 APACHE CORPL Lea NURTHEAS DRINKARD 37 E 2217 N 30-025-06360-00-00 UNIT 123 APACHE CORP I Lea 8 21 5 989 E DRINKARD 37E 1980 E 30-025-06365-00-00 UNIT 318 APACHE CORP I S 21 5 1650 S Lea NUKTREAS DRINKARD o 37E 660 S 1780 E 30-025-06366-00-00 UNIT 320 APACHE CORP Lea 21|5 NORTHEAD DRINKARD 1980 S 30-025-06367-00-00 UNIT 311 APACHE CORP S 21|S 37 € 660 W Lea NORTHEAS DRINKARD 30-025-06370-00-00 М 37 E UNIT 313 APACHE CORP I 21|5 710 S 610 W Lea NORTHEAS DRINKARD K 37 E 30-025-06372-00-00 UNIT 322 APACHE CORPI Lea S 21|S 1980 S 1980 W

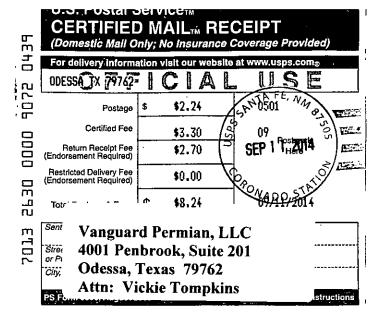
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30-025-06456-00-00	DRINKARD	407	APACHE CORP		А	Lea	F	G	10	21	ļ.	37	e.	1980	l,	2310	_
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30-025-06465-00-00	DRINKARD	500	ADACHE CORD			ĺ			40	24					_	4000	_
30-025-00405-00-00	JUNIT NORTHEAS	506	APACHE CORP	<u>'</u>	Α	Lea	s	0	10	21	3	37	Ε.	660	3	1980	-
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30-025-06473-00-00	UNIT	503	APACHE CORP	1	Α	Lea	s	K	10	21	S	37	E	2080	S	2080	W
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30-025-06483-00-00	UNIT	216	APACHE CORP	1	Α	rea	s	K	2	21	S	37	E	3546	N	1650	W
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30-025-06484-00-00	UNIT	218	APACHE CORP		Α	Lea	S	11	_ 2	21	s	37	E	3546	N	1700	W
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30-025-06491-00-00	UNIT NORTHEAS	214	APACHE CORP	1	Α	Lea	S	М	2	21	s	37	Ε	3300	S	660	W
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30-025-06493-00-00	UNIT	305	APACHE CORP	1	Α	Lea	F	J	3	21	8	37	E	1980	s	1980	Ę
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30-025-00494-00-00		308	APACHE CORP	1	A	Lea	F	1	3	21	s	37	Ε	1980	s	660	Εł
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30-025-06496-00-00	UNIT NUKTHEAS	113	APACHE CORP	 	<u>^</u>	Lea	 	۳			 	-	-	1300	-		-
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20 025 06407 00 00	DRINKARD	240	APACHE CORP	[,		100	F	P	3	21	او	37	 -	660	او	660	E
30-025-06497-00-00	IUNIT NORTHEAS	310	APACHE CORP	 '	Α	Lea	<u> </u>	-	 1	21	-	- "	-	000	-	- 000	-
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20 025-00500 00 00	DRINKARD	240	ADACUE CODO	.		Loo	F	1	3	21	s	37	_	2970	6	1650	 -
30 025 06502 00 00	UNIT NORTHEAS	210	APACHE CORP	├	Α	Lea	F	 	١٩	21	3	3,		2510	3	1000	 -
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20 025 05500 00 00	DRINKARD	204	APACHE CORP	.	A	Lea	F	1	3	21	e	37	F	3300	N	760	w
30-025-06506-00-00	IUNIT NUKTHEAS		APACHE CORF	 	<u>^</u>	LEA	ļ ^r	 	-1		-	 "	-	3000	•	, 00	 "
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30-025-06507-00-00	DRINKARD	306	APACHE CORP	 	А	Lea	F	J	3	21	2	37	F	1980	s	1830	F
30-023-00307-00-00	NURTHEAS	300	APACHE CORP	 	<u> </u>	LGG	<u> </u>	٦			 	-	-	1300	-	1000	┡
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20 025 06500 00 00	DRINKARD	209	APACHE CORP	.	Α	ا مما	F	6	3	21	اد	37	F	3150	c	1650	_
30-025-06508-00-00	UNIT NORTHEAS	209	AFACHE CORF	 	_	Lea	<u>'</u>	 	- 1	4				0100	<u>ٿ</u>	1000	-
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30-025-06510-00-00	DRINKARD	109	APACHE CORP	[,	A	Lea	F	2	3	21	S	37	F	660	N	1980	F
30-023-003 10-00-00	NORTHEAS	103	Ar Acrile Cord	 	Γ-		•	-	 		-	j			-	1000	_
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30-025-06512-00-00	DRINKARD	303	APACHE CORP	ļ,	A	Lea	P	ĸ	3	21	S	37	E	1980	s	1980	w
30-025-000 12-00-00	NURTHEAS	300	A AGAE GOIG	 	f		<u> </u>		1		-	-	-		-		Ë
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30-025-06513-00-00	DRINKARD	307	APACHE CORP	l ₁	A	Lea	Р	0	3	21	s	37	E	660	s	1980	E
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30-025-06519-00-00	DRINKARD	207	APACHE CORP	l _i	A	Lea	P	1	3	21	s	37	Εĺ	2970	s	2308	w
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J	DRINKARD]]	1	<u> </u>					ļ						ļ
30-025-06520-00-00	UNIT	304	APACHE CORP	ļ,	Α	Lea	Р	N	3	21	s	37	ε	915	s	2208	w
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J	DRINKARD	ļ			1	Ì						[
30-025-06521-00-00	UNIT	205	APACHE CORP	<u> </u>	Р	Lea	Р	м	3	21	s	37	E	3300	s	680	w
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J	DRINKARD]			1	j					J						
30-025-06522-00-00	UNIT	208	APACHE CORP	<u> </u>	Α	Lea	Р	κ	3	21	S	37	E	3226	N	1980	W
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V	DRINKARD				ł						1						
30-025-06532-00-00	,	511	APACHE CORP	ı	Α	Lea	Р	м	11	21	s	37	E	660	s	660	w
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30-025-06534-00-00		512	APACHE CORP	ļi .	А	rea	Р	ĸ	11	21	S	37	Ε	1980	s	1980	w
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V 30-025-06 5 81-00-00	DRINKARO	616	APACHE CORP	1	A	Lea	P	С	14	21	s	37	E	990	N	1980	
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30-025-06\$87-00-00	NORTHEAS	606	APACHE CORP	<u>'</u>	A	Lea	S	F	15		S	37	-	3375	3	3225	۲
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30-025-06588-00-00	UNIT	610	APACHE CORP	1	A	Lea	s	G	15	21	S	37	E	2210	N	2310	ľ
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30-025-08593-00-00	IDRINKARD UNIT	708	APACHE CORP	 	A	Lea	P	o	15	21	s	37	E	660	S	1980	E
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30 025 08595 00 00	-UNIT NORTHEAS	709	APACHE CORP		Α	Lea	P	1	15	21	S	37	E	1980	S	660	٤
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30-025-06601-00-00	UNIT	707	APACHE CORP	<u> </u>	Α	Lea	Р	J	15	21	s	37	E	1725	s	2149	E
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30-025-06610-00-00	DRINKARD	609	APACHE CORP	 t	A	Lea	s	В	15	21	s	37	ε	660	N	1980	E
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3 0-025-00613-00-00	· JUNIT NURTHEAS	605	APACHE CORP		Α	Lea	S	С	15	21	s	37	E	760	N	1980	ľ
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20-025 -06727-00-00	UNIT	806	APACHE CORP	1	Α	Lea	Р	В	22	21	s	37	E	660	N	1780	E
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30-025-06728-00-00	DRINKARD	808	APACHE CORP	t	A	Lea	P	A	22	21	s	37	E	660	N	660	E
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	DRINKARD						_						_				Ĺ
30-025-06729-00-00	UNIT NORTHEAS	807	APACHE CORP		<u> </u>	Lea	Р	G	22	21	S	37	E	1980	N	2080	E
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30-025-06730-00-00	UNIT	809	APACHE CORP	1	Α	Lea	Р	Н	22	21	s	37	Ε	1980	N	660	E
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30-025-06738-00-00	DRINKARD UNIT	805	APACHE CORP	ı	A	Lea	Р	F	22	21	s	37	E	1980	N	1980	v
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30-025-06745-00-00	DRINKARD	00~	ADAOUT COCO],		04]		4000		4000	
30-023-00143-00-00	UNIT	907	APACHE CORP	1	<u> </u>	Lea	P		22	21	-	37	E	1980	o	1980	٥
	T DRINKARD															ł	
30-025-06747-00-00	UNIT	909	APACHE CORP	1	A	Lea	P	4	22	21	S	37	E	1980	S	660	E
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30-025-06752-00-00	DRINKARD	902	APACHE CORP	ı	A	Lea	P	ĸ	22	21	s	37	E	2080	s	1650	٧
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30-023-06760-00-00	DRINKARD UNIT	 911	APACHE CORP		A	Lea	P		23	21	S	37	_	1980	s	660	w
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30-025-06766-00-00	DRINKARD UNIT	915	APACHE CORP	ļ,	Α	Lea	Р	J	23	21	s	37	E	1980	s	1980	E
00 000 000 000	NURTHEAS				· ·		<u> </u>	Ħ									
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30-025-06771-00-00	UNIT	811	APACHE CORP	lı 💮	A ·	Lea	P	Ε	23	21	s	37	E	1980	N	660	w
	NORTHEAS						*	\Box			<u> </u>						
1	DRINKARD	İ					<i>}</i> .	1									
30-025-06772-00-00	UNIT	813	APACHE CORP	1	Α	Lea	Ρ	F	23	21	s	37	E	1980	2	1980	W
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30-025-09897-00-00	UNIT	103	APACHE CORP		Α	Lea	F	4	3	21	S	37	E	660	Z	660	W
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	DRINKARD												_ 1				_
30-025-09912-00-00	UNIT NORTHEAS	611	APACHE CORP	<u> </u>	Α	Lea	s	G	15	21	S	37	Ę	1980	7	1978	E
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30-025-09917-00-00	DRINKARD	704	APACHE CORP	ļ	A	1 02	P	N	15	21	6	37	_	660	٥	1980	w
30-023-09917-00-00	UNIT NORTHEAS	104	APACHE CORF	 	^	Lea	 -	-	- 13	<u> </u>	-	-31	-	000	5	1300	<u>''</u>
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30-025-09918-00-00	DRINKARD UNIT	703	APACHE CORP	ļ	Α	Lea	Р	ĸ	15	21	s	37	E	1980	s	1980	w
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30-025-09929-00-00	UNIT	803	APACHE CORP	[1	Α	Lea	P	c	22	21	S	37	E	660	N	1980	w
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	T DRINKARD	İ		1					.								
30-025-09932-00-00	UNIT	913	APACHE CORP	<u> </u>	Α	Lea	Р	K	23	21	s	37	E	1980	S	1980	W
	NORTHEAS T						ļ.										
	DRINKARD	1	ŀ		1												
30-025-20315-00-00	UNIT	107	APACHE CORP	1	Α	Lea	Р	6	3	21	S	37	E	1585	2	1980	W
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20 026 2567 22 22	DRINKARD		ADACHE COCO] ,		1			ا _ ا	24	l _e		_	een		een	<u> </u>
30-025-20567-00-00	UNIT NORTHEAS		APACHE CORP	 '	Α	Lea	S	<u>^</u>	15	21	<u> -</u>	37	-	660	N	660	-
]]	Т			}]											
30-025-21347-00-00	DRINKARD	815	APACHE CORP	h	A	Lea	Р	G	23	21	s	37	E	1750	N	1980	E
	NORTHEAS			 	 		 	Ħ									
	T DRINKARD		-]		1										
30-025-25008-00-00	UNIT	105	APACHE CORP	<u> </u>	Α	Lea	Р	1	3	21	S	37	E	2080	N	660	w
	NORTHEAS																
	DRINKARD	1					1										
80-025-26670 00-00-	UNIT NORTHEAS	111	APACHE CORP	1	Α	Lea	F	1	3	21	S	37	E	2232	N	2310	E
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	DRINKARD					<u>.</u>						ا ِ ا	_				_
30-025-26990-00-00	UNIT	202	APACHE CORP	<u> </u>	Α	Lea	Р	9	4	21	5	37	E	3330	N	467	<u> </u>



PERMIT TYPE OF PMX / SWO Number: Permit Date: Legacy Permital Orders: Well No. 3.0.1 Well Name(s): N.E. D. 64 API: 30-0.2.5 - 06.3.5 S Spud Date: New or Oct. 2.1.1 (UIC Class II Primacy 03/07/1982) Footages 1980 FSL F. 660 F LUL Lo. or Unit: T. Sec. 3. Tsp. 21.5. Fige. 3.76 County. L. C. Company of the	C-108 Review Checklist: Received Add. Requ	est: Reply Date: Suspended: [Ver 13]
API: 30-0 2 5 - 0/3 3 5 Sput Date: Now or Old Old (UIC Class II Primacy 63/07/1882) Footages 1580 FSC 1660 F 101	PERMIT TYPE WFX) PMX / SWD Number: Perm	nit Date: Legacy Permits/Orders:
Foolages 180 FSL 660 FWL Lo or Unit 1 Sec 3 Tsp 2 5 Rge 3 TE County ES General Location: 4 Pri 2 5 So 2 + 4 E 4 W 1 C E Pool: Pool No: BLM 100K Map: Operator: Apacha Corp OGRID: 8 7 3 Contact: Debt Adams Compl. Order? IS 5.9 OK? Date: WELL FILE REVIEWED Current Status: P O 4 Le 5 2 WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Secting Cement Secting Debt Secting Debt Secting Debt Secting Debt Secting Debt Secting Debt Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Promote Cement Secting Cement Cement Secting Promote Cement Secting Cement Secting Promote Cement Secting Cement Secting Cement Secting Cement Secting Promote Cement Secting Cement Section Section Section Section	Well No. 30) Well Name(s): NED 4	
BILM 100K Map:Operator: Apeche Gorp OGRID: 8 7 3 Contact: David Atherach COMPLIANCE RULE 5.9: Total Wells: Inactive: Find Assur: Compt. Order? IS 5.9 OK? Date:	API: 30-0 25 - 06 3 8 Spud Date:	New or Old: <u>のは</u> (UIC Class II Primacy 03/07/1982)
BLM 100K Mag: Operator: Ap.ch.c. Corp. OGRID: \$ 7.3 Contact: David Atherach, COMPLIANCE RULE 5.9: Total Wells: Inactive: Find Assur: Compl. Order? IS 5.9 OK? Date: WELL FILE REVIEWED Current Status: Produce S. WELL FILE REVIEWED Current Status: Produce S. WELL FILE REVIEWED Current Status: Produce S. WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. Alter Conv. Logs in Imaging: Well Construction Details: Sizes (in) Depths (ii) Senting Planned or Existing Interm/Prod S. Senting Depths (ii) Sx or Cf Determination Method Determination Method Determination Method Planned or Existing Interm/Prod S. S. S. S. S. S. S. S. S. S. S. S. S.	Footages 1980FSL \$ 660 FWL Lo. or Unit T Sec 3	_Tsp2/_SRge37ECountyL_Ea
COMPLIANCE RULE 5.9: Total Wells: Inaclive: Find Assur: Compl. Order? IS 5.9 OK? Date: WELL FILE REVIEWED Current Status: Produce 5.2 WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. Alter Conv. Logs in Imaging: Planned Rehab Work to Well: Stress (In) Setting Comment Stress or Determination Method Sky or Ct Determination Method Planned or Existing Interm/Prod Planned or Existing Interm/Prod Planned or Existing Interm/Prod Planned or Existing Producing Stress (In) Stress (I	General Location: 4 miles / South Eunice Pool:	Pool No.:
WELL DIAGRAMS: NEW: Proposed Or RE-ENTER: Before Conv. Alter Conv. Logs in Imaging: Well Construction Details: Sizes (in) Setting Penned Rehab Work to Well: Sizes (in) Penned Or Exemp. Surface Penned Or Exemp. Surface Penned Or Exemp. Prod Uniter Penned or Exemp. Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Interm/Prod Planned, or Existing Intermod Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Intermoder Internation Intermoder Internoder Interm	BLM 100K Map: Operator: Apache Corp	OGRID: 873 Contact: DAvid CAtanach
Well Construction Datails Well Construction Datails Well Construction Datails Berehole / Pipe Berehole /	COMPLIANCE RULE 5.9: Total Wells: Inactive: Fincl Assur:	Compl. Order? IS 5.9 OK? Date:
Planned Rehab Work to Well: Sizes (in) Setting Cement Cem	WELL FILE REVIEWED Current Status: Produces	
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Planned_or Existing_ Interm/Prod Planned_or Existing_ Liner NEW Open Hole	Planned _or Existing _Surface /3 38 // 286	Stage Tool 300 Surface visual
Planned_or Existing_Prod/Liner Planned_or Existing_Liner Planned_or Existing_Liner Planned_or Existing_OH / EERP Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection or Confining Injection		1917
Planned_or Existing_Liner Planned_or Existing_OH_EERD Injection Stratigraphic Units: Injecti	1 2 2 2	
Plenned of Easthing OH JEER	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	600 2620//Emps
Injection Stratigraphic Units Depths (ft) Injection or Confining Tops Drilled TD G690 PBTD G230 Adjacent Unit: Litho. Struc. Por. Injection or Confining NEW PBTD NEW PBTD NEW PBTD NEW PBTD NEW PBTD NEW PBTD NEW PBTD NEW PBTD NEW Port of NEW Perfs Tubing Size 2 In. Inter Coated? Proposed Inj Interval TOP: 5 700 Tubing Size 2 In. Inter Coated? Proposed Packer Depth 5 700 It. Min. Packer De	1	Inj Length Completion/Operation Details:
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POTASH: R-111-P Noticed? BLM Sec Ord WIPP Noticed? SALT/SALADO T B: CLIFF HOUSE FRESH WATER: Aquifer Max Depth 75 HYDRO AFFIRM STATEMENT By Qualified Person Max Depth NAC No. Wells within 1-Mile Radius? FW Analysis FW Analysis PW Analysis On Lease Operator Only or Commercial Disposal Int: Inject Rate (Avg/Max BWPD): 2 50 5 00 Protectable Waters? Source: System: Closed Or Open HC Potential: Producing Interval? Formerly Producing? Method: Logs/DST/P&A/Other 2-Mile Radius Pool Map AOR Wells: 1/2-M. Radius Map? Well List? Total No. Wells Penetrating Interval: Horizontals? Penetrating Wells: No. Active Wells No. Active Wells No. Active Wells No. P&A Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells No. PA Wells		
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RULE 26.7(A): Identified Tracts?Affected Persons:	NOTICE: Newspaper Date 8//3/ Mineral Owner	Surface Owner Permian L/L N. Date 9/11/20/4
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