Date

APP NO. PPRG131496003

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



	ı	<u>ADMINISTRATIV</u>	E APPLICATION CH	IECKLIST
T	HIS CHECKLIST IS M		TIVE APPLICATIONS FOR EXCEPTIONS CESSING AT THE DIVISION LEVEL IN SA	TO DIVISION RULES AND REGULATIONS
Appilo	[DHC-Down [PC-Po	B: Indard Location] [NSP-Non-Indard Location] [NSP-Non-Indologie	-Standard Proration Unit] [SD-5 B-Lease Commingling] [PLC-	Simultaneous Dedication] Pool/Lease Commingling] Lease Measurement] Increase] R - 298
[1]	[A]	PLICATION - Check Tho Location - Spacing Unit - NSL NSP One Only for [B] or [C] Commingling - Storage - DHC CTB	Simultaneous Dedication SD Measurement	West Blinebry Drin Unit (WBBU) Wells: 8
	[C]	Injection - Disposal - Pres WFX PMX	ssure Increase - Enhanced Oil Re SWD [IPI EOR	☐ PPR WBOW#40
	[D]	Other: Specify		WB0W*56
[2]	[A]	Working, Royalty or	heck Those Which Apply, or Overriding Royalty Interest Own	ers WBDU#6
	[B] [C]		seholders or Surface Owner /hich Requires Published Legal 1	WBDU*66 WBDU*76
	[D] [E]	Notification and/or C	Concurrent Approval by BLM or Sent - Commissioner of Public Lands, State Land Of Proof of Notification or Publicati	SLO WBDU 477 Apade Gro
	[F]	☐ Waivers are Attached	l	
[3]		CURATE AND COMPLE	——————————————————————————————————————	RED TO PROCESS THE TYPE
	val is <mark>accurate</mark> a	nd complete to the best of n		this application for administrative that no action will be taken on this vision.
	Note:	Statement must be completed	by an individual with managerial and/o	r supervisory capacity.
	d Catanach Type Name	Signature 5/29/13	Agent-A Title	pache Corporation
		5/29/13	dreatana	ch@netscape.com

E-Mail Address

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X Yes No
И.	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-12981 entered in Cases No. 14125/14126 on 8/11/08
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 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: David Catanach TITLE: Agent-Apache Corporation
	SIGNATURE: David Catant DATE: 5/29/13
*	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:

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

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

Attention: Ms. Jami Bailey, CPG Division Director

HAND DELIVERED

Re: Form C-108

Apache Corporation

West Blinebry Drinkard Unit

Wells No. 37, 40, 56, 59, 61, 66, 75 & 77

Sections 8, 9, 16 & 17, Township 21 South, Range 37 East, NMPM,

North Eunice Blinebry-Tubb-Drinkard Pool (22900)

Lea County, New Mexico

Dear Ms. Bailey,

Enclosed please find a Division Form C-108 (Application for Authorization to Inject) to expand the West Blinebry Drinkard Unit Waterflood Project. Division Order No. R-12981, as amended, dated August 11, 2008 approved the statutory unitization of the West Blinebry Drinkard Unit Area ("Unit Area") and approved secondary recovery operations within the Unit Area. Apache Corporation proposes to convert the West Blinebry Drinkard Unit Wells No. 37, 40, 56, 59, 61, 66, 75 and 77 to injection in order to complete an efficient production/injection pattern within the Unit Area. These wells are located in Sections 8, 9, 16 and 17, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

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

Sincerely,

David Catanach

Agent for Apache Corporation

303 Veterans Airpark Lane, Suite 3000

Midland, Texas 79705

Xc: OCD-Hobbs

C-108 Application Apache Corporation West Blinebry Drinkard Unit Wells No. 37, 40, 56, 59, 61, 66, 75 & 77 Sections 8, 9, 16 & 17, T-21S, R-37E, NMPM Lea County, New Mexico

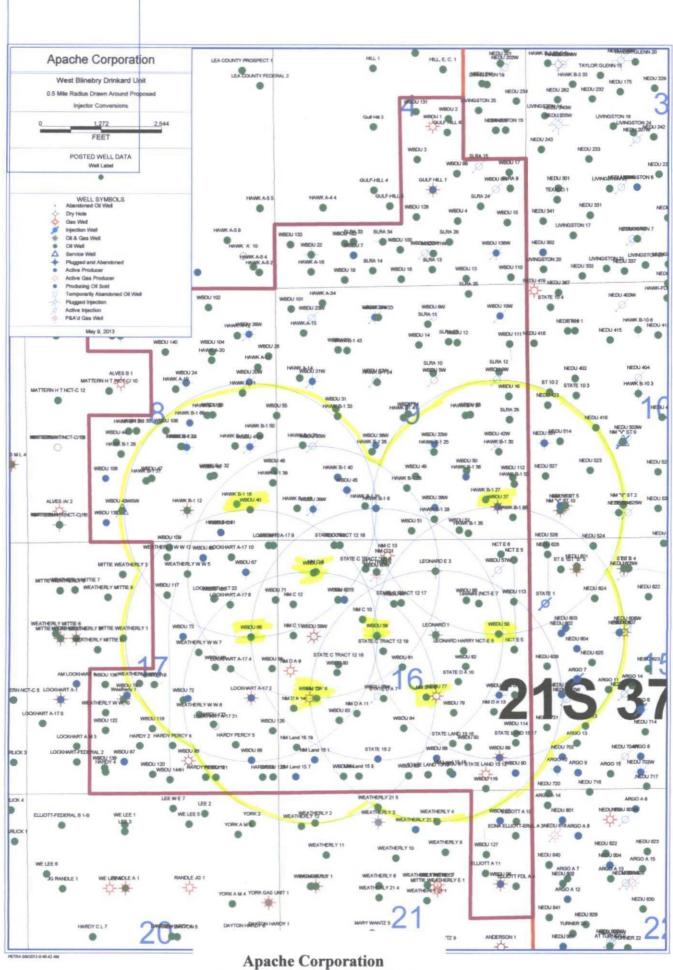
- 1. The purpose of the application is to request approval to convert eight (8) wells to water injection within the West Blinebry Drinkard Unit Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Lea County, New Mexico, in order to normalize the pattern configuration in the south end of the Unit Area to 40-acre five spot patterns. This well reduce the number of isolated and unbalanced patterns in this area of the field, thereby improving sweep efficiencies and injection rates and consequently, oil recoveries should improve within this area.
- II. Apache Corporation ("Apache")
 303 Veterans Airpark Lane, Suite 3000
 Midland, Texas 79705
 Contact Party: Mr. David Catanach (505) 690-9453
- III. Well schematic diagrams showing the current and proposed wellbore configurations for each of the eight injection wells are attached. Also included are work-over procedures for each well detailing how each of these wells are going to be converted from producing wells to injection wells. Due to the age of these wells, Apache has elected to set a 4 ½" production liner within each of these wells and cement the liner to surface. Consequently, all existing Binebry-Tubb-Drinkard perforations in each well will be abandoned. Please note that Apache proposes to initially complete the injection wells only within the Drinkard formation. The Blinebry interval may be perforated in each well at a later date, and consequently, Apache requests that the approved injection interval in each well comprise the "Unitized Formation" as defined by Order No. R-12981 as "the interval underlying the Unit Area occurring from a depth of 75 feet above the stratigraphic Blinebry marker down to the top of the Abo formation, as found on the Type Log for the Hawk B-1 Well No. 34 (API No. 30-025-36344) located 1040 feet from the South line and 1470 feet from the West line of Section 9, Township 21 South, Range 37 East, N.M.P.M."
- IV. This is an expansion of the West Blinebry Drinkard Unit Waterflood Project. Division Order No. R-12981, as amended, dated August 11, 2008 approved the statutory unitization of the West Blinebry Drinkard Unit Area ("Unit Area") and approved secondary recovery operations within the Unit Area.
- V. Enclosed are maps that identify all wells/leases within a 2-mile radius of the proposed injection wells and a map that identifies the ½ mile "Area of Review" ("AOR").
- VI. Attached is the complete listing of wells within the AOR of the eight subject injection wells. Group 1 Wells (Pages 1 & 2) are a list of wells that penetrate the injection interval whose well construction details were previously presented in Case No. 14126 on May 15, 2008. Since this well data was previously submitted, it is not resubmitted with this application. Group 2 Wells (Pages 3 & 4) are a list of wells within the AOR that do not penetrate the injection interval and consequently, well

construction details for these wells is not required. Group 3 Wells (Page 5) is a list of AOR wells that penetrate the injection interval whose well construction details have not been previously submitted to the Division. This list includes wells that were not in the AOR of the injection wells permitted by Order No. R-12981, or wells that were presented in Case No. 14126 whose status has changed. 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 650 BWPD per well, and the maximum injection rate is 1,500 BWPD per well. If the average or maximum rates increase in the future, the Division will be notified.
 - 2. This will be a closed system.
 - 3. The proposed average surface injection pressure will be in compliance with the Division's assigned gradient of 0.2 psi/ft of depth to the top injection perforation in each well. If a higher injection pressure is necessary, Apache will conduct step rate injection tests to determine the fracture pressure of the injection interval.
 - 4. Produced water from the North Eunice Blinebry-Tubb-Drinkard Pool originating from wells within the Unit Area will be re-injected into the subject injection wells. If additional make-up water is necessary, Apache will utilize San Andres produced water (as described in Case No. 14126).
 - 5. Injection is to occur into a formation that is oil productive.
- VIII. The formations being targeted for water injection are the Blinebry and Drinkard at depths ranging from approximately 5,500 feet to 6,800 feet. These formations are Leonardian in age and are a sequence of shallow marine carbonates, which have for the most part been dolomatized. A five percent porosity cut off is used to determine "pay" as porosity less than this is considered non-productive at the existing and proposed reservoir pressures and reservoir fluid regimes. The vertical extent of the reservoir is limited top and bottom by impermeable shales and carbonates. Data obtained from the New Mexico State Engineer indicates that there are several Ogallala fresh water wells in this area whose depths range from 80 feet to 167 feet.
- IX. A stimulation treatment will be performed on the injection wells with a 15% HCL-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/- 10 BPM.
- X. Logs were filed at the time of drilling.
- XI. Attached is a water analysis from two fresh water wells within the Unit Area. These water analysis were previously presented in Case No. 14126.

Apache Corporation Form C-108 (Application for Authorization to Inject) West Blinebry Drinkard Unit Wells No. 37, 40, 56, 59, 61, 66, 75 & 77 Page 3

- XII. Affirmative statement is enclosed.
- XIII. Proof of Notice is enclosed.



Apache Corporation
Form C-108: 8 Wells-WBDU
½ Mile AOR Map

Apache Corporation
Form C-108: WBDU Wells No. 37, 40, 56, 59, 61, 66, 75 & 77
Injection Well Summary Sheet

Well Name & Number	API No.	Well Location	Injection Interval	Tbg. Size
WBDU No. 37	30-025-06439	660' FSL & 660' FEL (P) 9-21S-37E	5,585'-6,710' (Perforated)	2 3/8" IPC
WBDU No.40	30-025-06433	660' FSL & 660' FEL (P) 8-21S-37E	5,597'-6,758' (Perforated)	2 3/8" IPC
WBDU No. 56	30-025-06621	1980' FNL & 660' FEL (H) 16-21S-37E	5,543'-6,702' (Perforated)	2 3/8" IPC
WBDU No. 59	30-025-06626	1980' FNL & 1980' FWL (F) 16-21S-37E	5,580'-6,694' (Perforated)	2 3/8" IPC
WBDU No. 61	30-025-06629	660' FNL & 660' FWL (D) 16-21S-37E	5,599'-6,726' (Perforated)	2 3/8" IPC
WBDU No. 66	30-025-06638	1980' FNL & 660' FEL (H) 17-21S-37E	5,572'-6,712' (Perforated)	2 3/8" IPC
WBDU No. 75	30-025-06615	1980' FSL & 660' FWL (L) 16-21S-37E	5,590'-6,707' (Perforated)	2 3/8" IPC
WBDU No. 77	30-025-06618	1980' FSL & 1980' FEL (J) 16-21S-37E	5,547'-6,674' (Perforated)	2 3/8" IPC

WBDU #37 (Hawk B-1 #7)



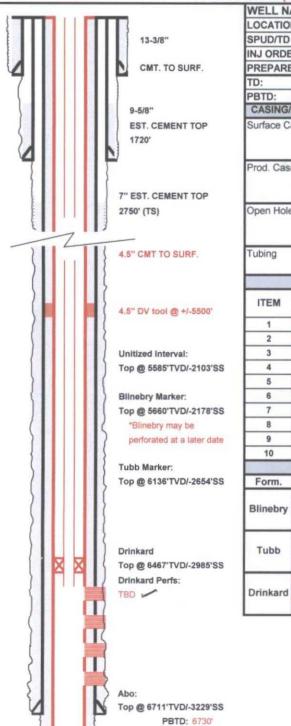


		WELL	NAGRAM (CURRE	NT CONFIGURAT	TION)	~ ·	ع عنسسرار	
		***************************************	WELL N		WBDU #37 (Hawk		API:	30-025-064	39
}. T	77 II F	113	LOCATIO	****	<u>`</u>	Sec. 9, T-21S, R-37E	COUNTY:	Lea Co., NM	
!		13-3/8"	SPUD/TD		09-03-1948 / 11-25		COMP. DATE:	11/30/1948	-
		CMT, TO SURF.	PREPARI		Michael Hunter		DATE:	5/8/2013	
4			TD:	6750°	KB Elev.	3482'	KB Dist. H		_
(PBTD:	6750'	Ground Elev.	3472'	KB to Ground	10'	
}	*{ 	9-5/8"		TUBING	SIZE (IN)	WEIGHT (LB/FT)		DEPTHS	(FT)
}		I 3	——		 		•	0.00	
(EST. CEMENT TOP	Surface C	asing	13-3/8" (200sx., Circ.) 9-5/8" /	40.00	H-40	0.00	232.00
i di	41 1 1	1720'	ı			36.00	H-40/J-55	0.00	2,779.00
V	71 1	Ψ.	D (0		(500sx,TOC @ 1720')			+	
	} 	}	Prod. Cas	ung	·	23.00	J-55/N-80	0.00	6,723.00
	/ 	TUEST STATES			(800sx, TOC @ 2750')				
		7" EST. CEMENT TOP	0	_	2.40	1		6 702 00	6 750 00
		2750' (TS)	Open Hol	е	6-1/8" 3			6,723.00	6,750.00
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		ر دِ	ITEM		DE	SCRIPTION		LENGTH	Depth
	V	1		<u> </u>		· · · · · · · · · · · · · · · · · · ·		(FT)	(FT)
	/ 	•{	11	Tubing A					5559.00
	\		2	215 JTS	2-3/8" 4.7# J-55 TE	3G			
	<i>{ c l i i i i i i i i i i</i>	Unitized Interval:	3	Seating	Nipple				6689.00
	1.	Top @ 5585'TVD/-2103'SS	4				•		
	} 	- (i	5						
Squeezed		Blinebry Marker:	6						
Blinebry Perfs		Top @ 5660'TVD/-2178'SS	7	ļ. <u></u> .					
(Sqz. w/150sx)		(Blinebry Perfs:	8						
5738', 61', 68'		5634-46'	9	<u> </u>		_			
5783', 92', 5804'		5651-58', 66-76'	10	<u> </u>					
5813', 21', 28'		5680-5702', 5718-24'			PRO	DUCTION ROD	STRING		
5843'		5728-40', 60-62'	ITEM		DΕ	SCRIPTION		LENGTH	Btm
(Sqz. w/130sx)			112.00	<u> </u>				(FT)	(FT)
5782', 87', 5800'		5802-06', 10-30'	1	79 JTS 7/	8" KD RODS			1,975.00	
5804', 11', 14'	77 L	5836-46', 74-82'	2	183 JTS 3	V4" KD RODS			4,575.00	
5815', 25', 35'		5894-5908', 5912-18'	3	3 JTS 1-1	/2" K-BARS			75.00	
5868', 76', 5902'	/ 1		4	BHP: 2" X	1 1/4" X 12' RHBC (0	6/26/2012)		12.00	
5914', 37', 53'		∫ Tubb Marker:	5						
5960', 70', 76'		Top @ 6136'TVD/-2654'SS	- 6						
5982'		Tubb Perts:	7						
Squeezed		7	8						
Tubb Perfs	(<u>.</u>] L	6196-6224	9						
(Sqz. w/100sx)		6234-38', 49-63'	10						
6200-6300'		£ 6268-74'			S	URFACE EQUIPI	MENT		
6200-12', 20-46'		∫ 6294-6328 [,]	PUMPING	UNIT SI	ZE:	C160-?-74	MOTOR HP:	10 HP	
6260-90'		6104-24', 44-50'	PUMPING	UNIT M	KE:		MOTOR MAKE:		
(Sqz. w/245sx)						PERFORATION	NS		
6201', 08', 16'		Drinkard	Form.	į		Intervals			Density
6236', 56', 62'		_) Top @ 6467'TVD/-2985'SS		5634-46',	1-58', 66-76', 5680-570	2', 5718-24', 28-40', 60	-62', 66-70', 82-92' (A	ctive)	2 SPF
6272', 80', 96'		Drinkard Perfs:	Blinebry	5802-06	10-30', 36-46', 74-82',	5894-5908', 5912-18'	(Active)		2 SPF
6312', 25'	<u>}</u>	6492'	Distieuty	5738', 61'	68', 83', 92', 5804', 13	3', 21', 28', 43' (Sq. w/	150sx)		1 SPF
Squeezed		6518', 25', 27'		5782', 87',	5800', 04', 11', 14', 15', 2	5', 35', 68', 76', 5902', 14	, 37', 53', 60', 70', 76',	82' (Sqz. w/130sx)	1 SPF
Drinkard Peris		6533', 6536', 6542'		6104-24	44-50', 6196-6224',	6234-38', 49-63', 626	68-74', 6294-6328'	(Active)	2 SPF
(Sqz. w/75sx)		6547', 65\$4', 6585'	Tubb	6200-630	0', 6200-12', 20-46', 60)-90' (Sqz. w/100sx)			1/4 SPF
6567-85'	7 [6612', 6626'	L	6201', 08	', 16', 36', 56', 62', 72	2', 80', 96', 6312', 25'	(Sqz. w/245sx)		1 SPF
5600-12'	į	6635-42', 48-50'		6492', 65	18', 25', 27', 33', 36',	42', 47', 54', 85', 661	12', 26', 6712', 18'	(Active)	2 SPF
	~~~~	6660-6705'	Drinkard		48-50', 6660-6705' (Ad				8 SPF
	3.50	6712', 18'	ı		6600-12' (Sqz. w/75sx				8 SPF
OH: 672	J-30			10001 00.	oooo iz (ode: miloon	7			

WBDU #37 (Hawk B-1 #7)

#### WELL DIAGRAM (PROPOSED CONFIGURATION)





TD: 6750

AGRAM (	PROPOS	ED CONFIGURA	TION)			
WELL N	IAME:	WBDU #37 (Hawk	B-1 #7)	API:	30-025-064	139
LOCATIO	N:	660'S/660'E -SE-SE,	Sec. 9, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD/TD	DATE:	09-03-1948 / 11-25	5-1948	COMP. DATE:	11/30/1948	
INJ ORDI	ER DATE:		INJ. ORDER #:		BPD/PSI:	
PREPAR	ED BY:	Michael Hunter		DATE:	5/8/2013	
TD:	6750'	KB Elev.	3482'	KB Dist. H		
PBTD:	6730'	Ground Elev.	3472'	KB to Ground	10'	
CASING	/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTH	S (FT)
Surface C	Casing	13-3/8" (200sx., Circ.)	48.00	H-40	0.00	232.00
		9-5/8" (500sx, TOC @ 1720')	36.00	H-40/J-55	0.00	2,779.00
Prod. Cas	sing	7" (800sx, TOC @ 2750)	23.00	J-55/N-80	0.00	6,723.00
		4-1/2" (CMT @ SURF)		J-55	0.00	6,750.00
Open Hol	е	0.2498	470	LEELIDO	0.00	6 500 00
Tubing		2-3/8"	4.70	J-55 IPC	0.00	6,520.00
	100000	IN	JECTION TBG S	TRING		
ITEM	T		SCRIPTION		LENGTH	Depth
TIEM		DE	SCRIPTION		(FT)	(FT)
1	ON/OFF	TOOL				+/-6498
2	BAKER	LOK-SET DOUBLE	-GRIP RETRIEVAB	ILE PACKER		+/-6500
3	200 JTS	2-3/8" 4.7# J-55 IP	C TBG			+/-6520
4						
5						
6						
7						
8						
9						
10						
	,		PERFORATION	VS	THE THE	,
Form.			Intervals			Density
Blinebry						
Tubb						-
1400		_				

#### WBDU 37 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-3/8" tubing
- 2. RIH w/ 6-1/8" bit on 2-3/8" work string. Clean well out as necessary to TD at +/-6750', POOH
- 3. RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 4. RU casing crew and equipment. RIH w/ 4-1/2" 11.6# J-55 casing w/ centralizers, float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 5. Perform two stage cement job to surface. WOC
- **6.** RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 7. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing
- 8. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 9. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 10. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 11. Run MIT for NMOCD*
- 12. Allow injection rates to stabilize, run injection profile and temperature survey
- 13. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

## Apache Corporation WBDU #40 (Hawk B-1 #10) WELL DIAGRAM (CURRENT CONFIGURATION)



	WELL D	IAGRAM (	CURRE	NT CONFIGURAT	ION)		U	
	_	WELL N	AME:	WBDU #40 (Hawk	B-1 #10)	API:	30-025-064	33
	<b>1</b> 5	LOCATIO	N:	660'S/660'E SE-SE, S	Sec. 8, T-21S, R-37E	COUNTY:	Lea Co., NM	
	13-3/8"	SPUD/TD	DATE:	11-12-1949 / 12-16	5-1949	COMP. DATE:	12/28/1949	
	CMT. TO SURF.	PREPAR	ED BY:	Michael Hunter		DATE:	5/8/2013	
1 711   1 16		TD:	6758'	KB Elev.	3514'	KB Dist. H		
1 (	]	PBTD:	6748'	Ground Elev.	3504'	KB to Ground	10'	
	9-5/8"		TUBING		WEIGHT (LB/FT)	GRADE	DEPTHS	S (FT)
	EST. CEMENT TOP	Surface C		13-3/8" (250sx., Circ.)	48.00	H-40	0.00	229.00
\	1375'			9-5/8"				
				(1100sx,TOC @ 1375')	40.00	J-55	0.00	2,818.00
i <del>"ĕ</del> ┩╏     ┃┡	<b>~</b>	Prod. Cas	ina	7"				
<b>.</b>		1 100. 000	9	(625sx, TOC @ 2321')	23.00	J-55/N-80	0.00	6,753.00
	7" EST, CEMENT TOP			(02,000)			<del> </del>	
(E)	2321' (TS)	Open Hol					<del> </del> -	
	2321 (15)	Open non	<b>-</b>				<del></del>	
				-				
		Tubing		2-7/8"	6.50	J-55	0.00	6,706.00
		1 abing		2 1,0	0.50	. 3 33	- 0.00	0,700.00
3"				PRO	DUCTION TBG	STRING		
* <u> </u>		-				<u> </u>	LENGTH	Depth
		ITEM		DE	SCRIPTION		(FT)	(FT)
),,,           ')		1	Tubing A	Anchor			<del>                                     </del>	5622.00
[		2		2-7/8" 6.5# J-55 TB			<u> </u>	UULLIU
	Unitized Interval:	3	Seating					6706.00
{ <b>.</b>	Top @ 5597'TVD/-2083'SS	4	Codering	ттррю			<b>-</b>	<b>V. CC.50</b>
<b> </b>	10h 6 2221 14D1-5000 22	5	<u> </u>	· · · · · · · · · · · · · · · · · · ·			<del></del>	
	Blinebry Marker:	6	1			<del></del>	<del> </del>	<u> </u>
)   [7]   [7]	Top @ 5672'TVD/-2158'SS	7	<del>                                     </del>			_		<b>-</b>
	Blinebry Perfs:	8	1					
	5726', 38', 68'	9	1				<u> </u>	
	5800', 02', 14'	10	· ·					
	5820', 40', 46'			PRO	DUCTION ROD	STRING		
/』   1   2	5850', 66', 68'	ITEM	ł	DE	COUDTION.		LENGTH	Btm
\ \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	5874', 86', 92'	ITEM		VE	SCRIPTION		(FT)	(FT)
		1	263 JTS	3/4" C RODS			6,575.00	
),	Tubb Marker:	2	2 JTS 3/4	" (?) SINKER BARS			50.00	
	Top @ 6195'TVD/-2681'SS	3	BHP: 2" >	( 1 1/2" X 20' RHBC (0	6/04/2010)		20.00	
	Tubb Perfs:	4						
	6174', 78'	5						
	6200', 06', 24'	6						
	6249', 56', 61'	7						
]	6272', 77', 97'	8			<del></del>			
	6300', 12', 18'	9	ļ		· · · · · · · · · · · · · · · · · · ·			<u> </u>
	6320', 22', 31'	10		-	UBEAGE FOLLIS	MENT	<u> </u>	
5	6344', 46', 50'	DIMERNA			URFACE EQUIP			46 UD
	Delphand	PUMPING			C-114-143-64	MOTOR HP: MOTOR MAKE:		15 HP
	Drinkard	PUMPING	ONITMI	ANE:	PERFORATIO			
, ***	Top @ 6498'TVD/-2984'SS	- Earm	r		Intervals	13	<del>_</del>	Density
	Drinkard Perfs: 6515', 21', 30'	Form.	57261 20	8', 68', 5800', 02', 14		66' 68' 7A' 86' 0'	2' (Active)	2 SPF
	6534', 49', 58'	Blinebry	5720,3	u, uu, uuu, uz, 14	, 20, 40, 40, 50,	00,00,74,00,8	- Inchas)	2 9°F
	6573', 75', 86'	Cimebiy		- ·· · · ·	<del>_</del>		<u> </u>	<del>                                     </del>
	6630-42', 47-54', 58-68'	<b>-</b>	6174' 7	8', 6200', 06', 24', 49	0' 56' 61' 72' 77'	97' (Active)		2 SPF
	6672-90', 6700-08'	Tubb		2', 18', 20', 22', 31', ⁴	<del></del>			2 SPF
	, <del></del>		3000, 12	_, _, _, _, _, _, _, _, _, _, _, _, _, _	,,			
PBTD: 6748'	Abo Est. Top	<u> </u>	6515'. 2'	1', 30', 34', 49', 58', 7	73', 75', 86' (Active)	,		1 SPF
TD: 6758'	@ 8775'TVD/-3261'SS	Drinkard		, 47-54', 58-68', 72-				4 SPF
		1	T		X			
								-

WBDU #40 (Hawk B-1 #10)



10'

0.00

0.00

0.00

0.00

0.00

LENGTH

DEPTHS (FT)

229.00

2.818.00

6.753.00

6,748.00

+/-6520

Depth

(FT)

+/-6498

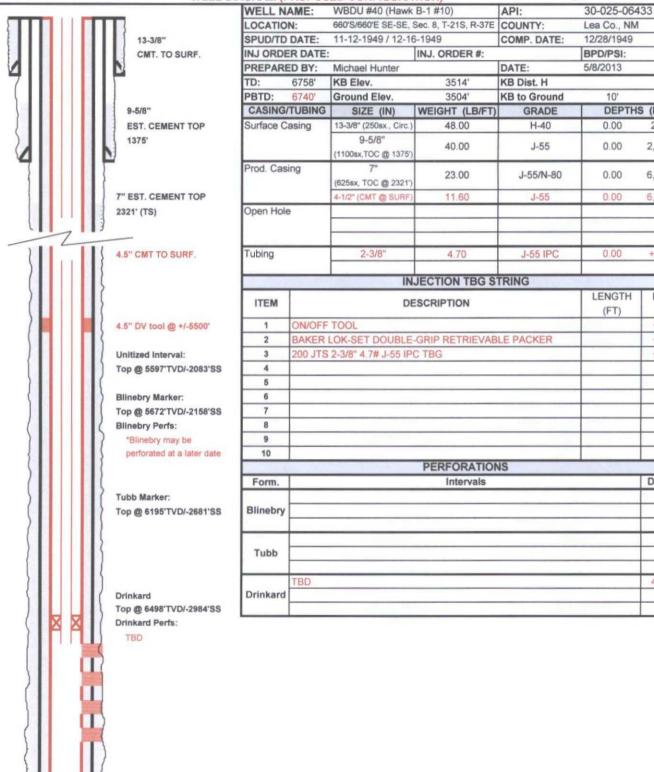
+/-6500

+/-6520

Density

4 SPF

WELL DIAGRAM (PROPOSED CONFIGURATION)



PBTD: 6740

TD: 6758'

Est. Top @ 6775'TVD/-3261'SS

#### WBDU 40 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-7/8" tubing
- RIH w/ 6-1/8" bit on 2-3/8" work string. Drill well out from PBTD at 6748' to TD at 6758'.
   Circulate clean. POOH
- 3. RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 4. RU casing crew and equipment. RIH w/ 4-1/2" 11.6# J-55 casing w/ centralizers, float equipment, marker joint and stage tool (at +/-5500') to +/- 6758'
- 5. Perform two stage cement job to surface. WOC
- 6. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6740'. Circulate clean. POOH
- 7. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing
- 8. RIH w/ 4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 9. RIH w/ 4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD ws*
- 10. RIH w/ 2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 11. Run MIT for NMOCD*
- 12. Allow injection rates to stabilize, run injection profile and temperature survey
- 13. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

#### **Apache Corporation** Amache WBDU #56 (Harry Leonard NCT-E #2) WELL DIAGRAM (CURRENT CONFIGURATION) WELL NAME: WBDU #56 (Harry Leonard NCT-E #2) API: 1980'N/660'E SE-NE, Sec. 16, T-21S, R-37E Lea Co., NM LOCATION: COUNTY: SPUD/TD DATE: 11-24-1947 / 11-1-1948 COMP. DATE: 1/14/1948 13-3/8" PREPARED BY: 5/9/2013 CMT. TO SURF. Michael Hunter DATE: TD: 6614 KB Elev. 3507 KB Dist. H PBTD: 6614 Ground Elev. 3497 **KB** to Ground 10' 9-5/8 CASING/TUBING SIZE (IN) WEIGHT (LB/FT) GRADE DEPTHS (FT) 13-3/8" (300sx., Circ 48.00 H-40 0.00 301.00 **EST. CEMENT TOP** Surface Casing 9-5/8" 1370 36.00 H-40 0.00 2.952.00 (1300sx,TOC @ 1370') Prod. Casing 23.00 0.00 6,547.00 J-55(700sx, TOC @ 2715') 7" EST. CEMENT TOP 6,547.00 6,614.00 2715' (TS) Open Hole 6-1/8" 2-3/8" 0.00 6,523.00 Tubing 4.70 J-55 PRODUCTION TBG STRING LENGTH Depth ITEM DESCRIPTION (FT) (FT) 5527.00 **Tubing Anchor** 2 215 JTS 2-3/8" 4.7# J-55 TBG 3 Seating Nipple 6523.00 Unitized Interval: 4 Top @ 5543'TVD/-2036'SS 5 Blinebry Marker: Top @ 5618'TVD/-2111'SS Blinebry Perfs: 5608-10 Squeezed 5635-37 10 PRODUCTION ROD STRING Bilnebry Perfs 5666-681 LENGTH (Sqz. w/350sx) 5696-98' Btm ITEM DESCRIPTION 5827-29 (FT) (FT) 5745-47 75 JTS 7/8" KD RODS 1,875.00 5853-55' 5813', 22', 28' 183 JTS 3/4" KD RODS 4,575.00 5874-76 2 5832', 39', 51' BHP: 2" X 1 1/4" X 24' RHBC (07/25/2012) 5907-09 3 24.00 5854', 74', 76' 5952-54 4 5887', 97' 5 5908' 21' 30' 6 5942', 47', 51', 58' 8 Tubb Marker: Top @ 6099'TVD/-2592'SS Tubb Perfs: 10 SURFACE EQUIPMENT 6188', 91', 97' MOTOR HP: 6204', 12', 16' PUMPING UNIT SIZE: C160-200-74 PUMPING UNIT MAKE: MOTOR MAKE: 6221', 32', 37' American **PERFORATIONS** 6240', 54', 57' 6262', 68', 82', 86' Form. Intervals Density 5608-10', 35-37', 66-68', 96-98', 5745-47' (Active) 4 SPF Blinebry 5813', 22', 28', 32', 39', 51', 54', 74', 76', 87', 97', 5908', 21', 30', 42', 47', 51', 58' (Active) 2 SPF 5827-29', 53-55', 74-76', 5907-09', 52-54' (Sqz. w/350sx) Top @ 6453'TVD/-2946'SS 4 SPF 6188', 91', 97', 6204', 12', 16', 21', 32', 37', 40', 54', 57', 62', 68', 82', 86' (Active) 2 SPF Drinkard Perfs: 6460-6530 Tubb Drilled out Model D 6460-6530' (Active) 2 SPF Packer @ 6540' Drinkard 6723-50' (Active) ОН OH: 6547-6614 PBTD: 6614'

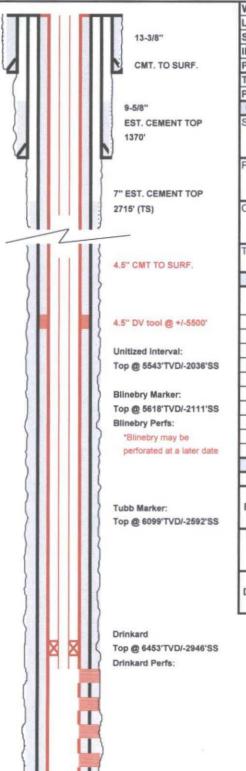
TD: 6614

Est. Top @ 6703'TVD/-3196'SS

WBDU #56 (Harry Leonard NCT-E #2)



WELL DIAGRAM (PROPOSED CONFIGURATION)



WELL N	AME:	WBDU #56 (Harry	Leonard NCT-E #2)	API:	30-025-066	21
LOCATIO	N:	1980'N/660'E SE-NE,	Sec. 16, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD/TD	DATE:	11-24-1947 / 11-1-	1948	COMP. DATE:	1/14/1948	
INJ ORDI	R DATE:		INJ. ORDER #:		BPD/PSI:	
PREPAR	ED BY:	Michael Hunter		DATE:	5/9/2013	
TD:	6750'	KB Elev.	3507'	KB Dist. H		
PBTD:	6730'	Ground Elev.	3497'	KB to Ground	10'	
CASING	TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTH	S (FT)
Surface C	asing	13-3/8" (300sx., Circ.)	48.00	H-40	0.00	301.00
		9-5/8" (1300sx,TOC @ 1370')	36.00	H-40	0.00	2,952.00
Prod. Cas	sing	7" (700sx, TOC @ 2715')	23.00	J-55	0.00	6,547.00
		4-1/2" (CMT @ SURF)	11.60	J-55 IPC	0.00	6,750.00
Open Hol	е					
Tubing		2-3/8"	4.70	J-55 IPC	0.00	6,520.00
	_	IN	JECTION TBG S	TRING	T	
ITEM		DE	SCRIPTION		LENGTH (FT)	Depth (FT)
1	ON/OFF					+/-6498
2	BAKER	LOK-SET DOUBLE	-GRIP RETRIEVAB	LE PACKER		+/-6500
3	200 JTS	2-3/8" 4.7# J-55 IP	C TBG			+/-6520
4						
5						
6						
7						
8						
9						
10				10		
-			PERFORATION	NS .	HECH EL	DIt
Form.			Intervals			Density
Blinebry						
Tubb						
Drinkard	TBD					4 SPF

PBTD: 6730' TD: 6750°

Est. Top @ 6703'TVD/-3196'SS

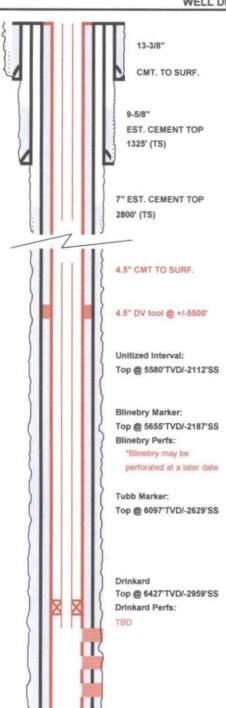
#### WBDU 56 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-3/8" tubing
- 2. RIH w/ 6-1/8" washover shoe, washover pipe on 2-7/8" work string. Cut over and remove Model D packer at 6540'. POOH
- 3. RIH w/ 6-1/8" bit on 2-7/8" work string. Drill well out from current TD at 6614' to new TD at 6750', circulate clean. POOH
- **4.** RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 5. RU casing crew & equipment. RIH w/ 4-1/2" 11.6# J-55 casing w/ centralizers, float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 6. Perform two stage cement job to surface. WOC
- 7. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 8. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing
- 9. RIH w/ 4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/ 10,000 gals 15% HCl-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 10. RIH w/ 4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Rel. on/off tool and POOH LD work string*
- 11. RIH w/ 2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 12. Run MIT for NMOCD*
- 13. Allow injection rates to stabilize, run injection profile and temperature survey
- 14. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

#### **Apache Corporation** (Appanchie WBDU #59 (State C, Tract 12, #4) WELL DIAGRAM (CURRENT CONFIGURATION) WELL NAME: WBDU #59 (State C, Tract 12, #4) API: 30-025-06626 1980'N/1980'W SE-NW, Sec. 16, T-21S, R-37E LOCATION: COUNTY: Lea Co., NM 9-18-1947 / 10-28-1947 13-3/8" SPUD/TD DATE: COMP. DATE: 11/20/1947 5/9/2013 CMT. TO SURF. PREPARED BY: Michael Hunter DATE: TD: 7502 KB Elev. 3467 KB Dist. H PBTD: 6655 Ground Elev. 3467 **KB** to Ground CASING/TUBING SIZE (IN) WEIGHT (LB/FT) GRADE DEPTHS (FT) EST. CEMENT TOP Surface Casing 13-3/8" (325sx., Circ.) 48/57.5 H-40/J-55 0.00 316.00 1325' (TS) 9-5/8" 36/40 H-40/J-55 0.00 2.900.00 (1500sx,TQC @ 1325') Prod. Casing J-55/N-80 6.656.00 20/23 0.00 (670sx, TOC @ 2800") 7" EST. CEMENT TOP 2800' (TS) Open Hole Tubing 2-3/8 J-55 0.00 6,631.00 4.70 PRODUCTION TBG STRING LENGTH Depth ITEM DESCRIPTION (FT) (FT) 5540.00 **Tubing Anchor** 2 213 JTS 2-3/8" 4.7# J-55 TBG 3 Seating Nipple 6631.00 Unitized Interval: Top @ 5580'TVD/-2112'SS 5 6 7 Soueezed Blinebry Marker: **Blinebry Perfs** Top @ 5655'TVD/-2187'\$\$ (Sqz. w/700sx) Blinebry Perfs: 5650-90 5598-5608 10 5710-20 5616-22', 30-35' PRODUCTION ROD STRING 5730-40 5652-78', 5694-5708' LENGTH Btm ITEM DESCRIPTION 5770-5815 5716-28', 5768-5803' (FT) (FT) 5885-5905 79 JTS 7/8" K RODS 5816-19', 22-34' 1,975.00 5925-40 2 183 JTS 3/4" K RODS 4,575.00 5838-41', 46-50' 5975-6010 3 BHP: 2" X 1 1/4" X 16' RHBC (07/10/2007) 24.00 4 Tubb Marker: Top @ 6097'TVD/-2629'SS 5 **Tubb Perfs:** 6 7 6044-60', 78-96' 6108-16', 50-82' 8 6196-6232', 6262-78' 9 6300-04', 11-17' 10 SURFACE EQUIPMENT 6322-26 PUMPING UNIT SIZE: C114-169-54 MOTOR HP: 20 HP PUMPING UNIT MAKE: MOTOR MAKE: Squeezed Drinkard Top @ 6427'TVD/-2959'SS PERFORATIONS **Drinkard Perfs** (Sqz. w/900ax) Form. Intervals Density **Drinkard Perfs:** 2 SPF 6458-68, 89-92 6432-36', 46-56', 61-68' 5598-5608', 16-22', 30-35', 52-78', 5694-5708', 5716-28', 5768-5803' (Active) 6502-06', 15-35' Blinebry 2 SPF 6477-80', 90-94' 5816-19', 22-34', 38-41', 46-50' (Active) 6550-80 6502-22', 30-72', 84-90' 5650-90', 5710-20', 30-40', 5770-5815', 5885-5905', 5925-40', 5975-6010' (Sqz. w/700sx) 2 SPF 6620-56 6604-08' 6044-60', 78-96', 6108-16', 50-82', 6196-6232', 62-78', 6300-04', 11-17', 22-26' (Active) 2/1 SPF Tubb PBTD: 6655' 6432-36', 46-56', 61-68', 77-80', 90-94', 6502-22', 30-72', 84-90', 6604-08' (Active) Abo: Drinkard 6458-68, 89-92', 6502-06', 15-35', 6550-80', 6620-56' (Sqz. w/900sx) 2/6 SPF Top @ 6695'TVD/-3227'SS 90sx cmt @ 6906-6500' TD: 7502 75sx cmt @ 7431-7230*



WBDU #59 (State C, Tract 12, #4)
WELL DIAGRAM (PROPOSED CONFIGURATION)



RAM (PF	ROPOSE	D CONFIGURATI	ON)			
WELL N	AME:	WBDU #59 (State		API:	30-025-0662	26
LOCATIO	N:	1980'N/1980'W SE-NW,	Sec. 16, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD/TD	DATE:	9-18-1947 / 10-28-	1947	COMP. DATE:	11/20/1947	
INJ ORDE	R DATE:		INJ. ORDER #:		BPD/PSI:	
PREPARE	D BY:	Michael Hunter		DATE:	5/9/2013	
TD:	7502'	KB Elev.	3467'	KB Dist. H		
PBTD:	6730'	Ground Elev.	3467'	KB to Ground	0,	
CASING/	TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS	(FT)
Surface C	asing	13-3/8" (325sx., Circ.)	48/57.5	H-40/J-55	0.00	316.00
		9-5/8"	36/40	H-40/J-55	0.00	2,900.00
		(1500sx,TOC @ 1325')	36/40	H-40/J-55	0.00	2,900.00
Prod. Cas	ing	7"	20/23	J-55/N-80	0.00	6,656.00
		(670sx, TOC @ 2800')	20/23	J-55/N-00	0.00	0,000.00
	Ages.	4-1/2" (CMT @ SURF)	11.60	J-55	0.00	6,750.00
Open Hole	9					
Tubing		2-3/8"	4.70	J-55 IPC	0.00	+/-6520
		IN.	JECTION TBG S	TRING		
ITEM		DE	SCRIPTION		LENGTH	Depth
					(FT)	(FT)
1	ON/OFF					+/-6498
2		OK-SET DOUBLE-		LE PACKER		+/-6500
3	200 JTS	2-3/8" 4.7# J-55 IPC	CTBG			+/-6520
4						
5						
6						
7						
8						
9						
10						
			PERFORATION	IS	LANGE IN	
Form.			Intervals			Density
Blinebry						
Tubb						
	TBD			_		4 SPF
Drinkard						

PBTD: 6730'

TD: 7502'

Top @ 6695'TVD/-3227'SS

90sx cmt @ 6906-6500' 75sx cmt @ 7431-7230'

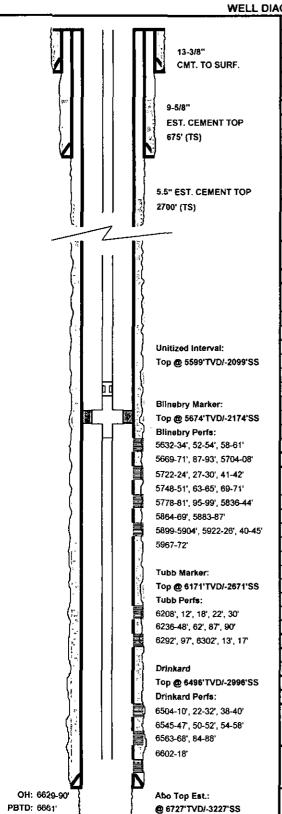
#### WBDU 59 Proposed Procedure: Convert well to injection

- 1. MIRU, POOH w/rods and pump, Install BOP, POOH w/ 2-3/8" tubing
- 2. RIH w/ 6-1/8" bit on 2-7/8" work string. Drill out cement from 6655' to 6750', circulate clean. POOH
- 3. RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 4. RU casing crew and equipment. RIH w/ 4-1/2" 11.6# J-55 casing w/ centralizers, float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 5. Perform two stage cement job to surface. WOC
- 6. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 7. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above @ 4 SPF, 90 degree phasing
- 8. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 9. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 10. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 11. Run MIT for NMOCD*
- 12. Allow injection rates to stabilize, run injection profile and temperature survey
- 13. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

WBDU #61 (State C, Tract 12, #7)



2/4 SPF



•		CONFIGURATION	•	اح		יטעב
WELL N		WBDU #61 (State		IÁPI:	30-025-066	29
LOCATIO			Sec. 16, T-21S, R-37E		Lea Co., NM	•
SPUD/TD		6-8-1949 / 7-19-19		COMP. DATE:	8/4/1949	
PREPARI		Michael Hunter		DATE:	5/10/2013	
TD:	6690'	KB Elev.	3499'	KB Dist. H		
PBTD:	6661'	Ground Elev.	3489'	KB to Ground	10'	
	/TUBING	SIZE (IN)	WEIGHT (LB/FT)	<u> </u>	DEPTHS	(FT)
Surface C		13-3/8" (300sx., Circ.)		H-40/J-55	0.00	335.00
Curiaco	don ig	9-5/8"			1	
		(1500sx,TOC @ 675')	32/36	H-40/J-55	0.00	2,898.00
Prod. Cas	ing	5-1/2" (1300sx, TOC @ 2700')	14/15.5	J-55	0.00	6,629.00
		<u> </u>		†		
Open Hol	e	4-3/4"	· · · · · · · · · · · · · · · · · · ·		6,629.00	6,690.00
	-	, 4. /				
Tubing		2-3/8"	4.70	J-55	0.00	6,631.00
rubsity		2-3/6	4.70	J-55	V.00	0,031,00
		PRO	DUCTION TBG	STRING	<del>-</del>	
ITEM		DE	SCRIPTION		LENGTH	Depth
1 , 6.171					(FT)	(FT)
1	Tubing A	nchor				5551.00
2	209 JTS	2-3/8" 4.7# J-55 TB	iG			
3	Seating I	Nipple				6594.00
4						
5						
6						
7	l					
8						
9						
10						
		PRO	DUCTION ROD	STRING		
ITEM		DE	CCDIDTION		LENGTH	Btm
ITEM		DE	SCRIPTION		(FT)	(FT)
1	81 JTS 7	/8" K RODS			2,025.00	
2		3/4" K RODS	· · · · · · · · · · · · · · · · · · ·		4,200.00	
3	12 JTS 1	-1/2" K BARS			300.00	
4	BHP: 2"	X 1 1/4" X 16' RHB0	C (09/04/2012)		16.00	
5	1	• •				
6						
7		<u> </u>	- <u></u>			
8						
9						
10						
			URFACE EQUIP			
PUMPING			C228-213-64	MOTOR HP:	25 HP	
PUMPING	UNIT MA	KE:	DEDEORATION	MOTOR MAKE:		
F	1		PERFORATION Intervals	42		Danaite
						Density
611maha						2 SPF
Blinebry	5/69-/1',	78-81°, 95-99°, 5836-44	4', 64-69', 83-87', 5899	-5904', 22-26', 40-4	o', 67-72' (Active)	2 SPF
	6208'. 12'	18', 22', 30', 36-48', 6	2', 87', 90', 92', 97', 63	02', 13', 17' (Active)		1/2SPF
Tubb	<u> </u>		,			
	<del></del>					

6504-10', 22-32', 38-40', 45-47', 50-52', 54-58', 63-68', 84-88', 6602-18' (Active)

Drinkard

"Junk" pushed to 6661"

3 bit cones left in hole

TD: 6690

WBDU #61 (State C, Tract 12, #7)
WELL DIAGRAM (PROPOSED CONFIGURATION)

ON/OFF TOOL

200 JTS 2-3/8" 4.7# J-55 IPC TBG

2

3



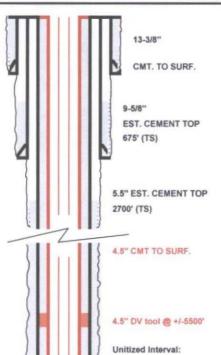
(FT)

+/-649

+/-650

+/-652

(FT)



Top @ 5599'TVD/-2099'SS

100 8 0000 1101 2000 00

Blinebry Marker: Top @ 5674'TVD/-2174'SS Blinebry Perfs:

*Blinebry may be perforated at a later date

Tubb Marker:

Top @ 6171'TVD/-2671'SS

WELL NAME:	WBDU #61 (State	C, Tract 12, #7)	API:	30-025-06629	
LOCATION: 660'N/660'W NW-NW		Sec. 16, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD/TD DATE:	6-8-1949 / 7-19-19	49	COMP. DATE:	8/4/1949	
INJ ORDER DATE:		INJ. ORDER #:		BPD/PSI:	
PREPARED BY:	Michael Hunter		DATE:	5/10/2013	
TD: 6750'	KB Elev.	3499'	KB Dist. H		
PBTD: 6730'	Ground Elev.	3489'	KB to Ground	10'	
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS	(FT)
Surface Casing	13-3/8" (300sx., Circ.)	31.25	H-40/J-55	0.00	335.00
	9-5/8" (1500sx,TOC @ 675')	32/36	H-40/J-55	0.00	2,898.00
Prod. Casing	5-1/2" (1300sx, TOC @ 2700')	14/15.5	J-55	0.00	6,629.00
	4-1/2" (CMT @ SURF)	11.60	J-55 FJ	0.00	6,750.00
Open Hole					
Tubing	2-3/8"	4.70	J-55 IPC	0.00	+/-6520
	IN	JECTION TBG S	TRING	Arrest and a	
ITEM	DE	SCRIPTION		LENGTH	Depth

THE RESIDENCE OF THE PERSON NAMED IN	PERFORATIONS	
	Intervals	Density
BD		4 SPF
	FBD	Intervals

BAKER LOK-SET DOUBLE-GRIP RETRIEVABLE PACKER

Drinkard
Top @ 6496'TVD/-2996'SS
Drinkard Perfs:

PBTD: 6730' TD: 6750'

Abo Top Est.: @ 6727'TVD/-3227'SS

#### WBDU 61 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-3/8" tubing
- 2. RIH w/ 4-3/4" washover shoe, washover pipe on 2-7/8" work string. Cut over and remove junk at 6661'. POOH
- 3. RIH w/ 4-3/4" bit on 2-7/8" work string. Drill well out from current TD at 6661' to new TD at 6750', circulate clean. POOH
- **4.** RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 5. RU casing crew and equipment. RIH w/ 4-1/2" 11.6# J-55 flush joint casing w/ float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 6. Perform two stage cement job to surface. WOC
- 7. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 8. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing
- 9. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCl-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 10. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 11. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 12. Run MIT for NMOCD*
- 13. Allow injection rates to stabilize, run injection profile and temperature survey
- 14. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

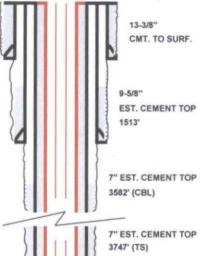
#### **Apache Corporation** WBDU #66 (Lockhart A-17 #3) WELL DIAGRAM (CURRENT CONFIGURATION) WBDU #66 (Lockhart A-17 #3) WELL NAME: API: 30-025-06638 1980'N/660'E SE-NE, Sec. 17, T-21S, R-37E COUNTY: Lea Co., NM LOCATION: 7-7-1947 / 9-10-1947 9/9/1947 13-3/8" SPUD/TD DATE: COMP. DATE: 5/10/2013 CMT. TO SURF. PREPARED BY: Michael Hunter DATE: KB Elev. KB Dist. H 6645 TD: 3483 PBTD: 6610' Ground Elev. **KB** to Ground 10 3473 CASING/TUBING SIZE (IN) WEIGHT (LB/FT) GRADE DEPTHS (FT) 9-5/8" 13-3/8" (200sx., Circ. 32.40 J-55 0.00 222.00 **EST. CEMENT TOP** Surface Casing 9-5/8" 1513 J-55 0.00 2,529.00 36.00 (500sx,TOC @ 1513') Prod. Casing 23.00 J-55/N-80 0.00 6,629.00 (500sx, TOC @ 3582) 7" EST. CEMENT TOP 3582' (CBL) Open Hole 6/1/8" 6,629.00 6,645.00 (Cemented) Tubing 2-7/8" 6.50 J-55 0.00 6,542.00 3707" Sq. w/150sx 7" EST. CEMENT TOP PRODUCTION TBG STRING 3747' (TS) Squeezed LENGTH Depth ITEM DESCRIPTION **Grayburg Perfs** (FT) (FT) (Sq. w/177sx) 6387.00 **Tubing Anchor** 3727', 33', 43' 220 JTS 2-7/8" 6.5# J-55 TBG 2 3752', 59', 64' Seating Nipple 6542.00 3 3770', 73' 4 5 Unitized Interval: 6 Top @ 5572'TVD/-2086'SS Squeezed Blinebry Perfs Blinebry Marker: (Sq. w/100sx) Top @ 5647'TVD/-2161'SS 5610-481 10 PRODUCTION ROD STRING 5670-5720 (Sq. w/100sx) LENGTH Btm DESCRIPTION ITEM 5814-5900' (FT) 80 JT\$ 3/4" ? RODS 2,000.00 1 179 JTS 5/8" ? RODS 4,475.00 2 2 JTS 1-1/4" K BARS 50.00 Tubb Marker: 3 BHP: 2" X 1 1/4" X 16' RHBC (06/05/2012) 16.00 Top @ 6139'TVD/-2653'SS 4 5 6 8 9 10 SURFACE EQUIPMENT PUMPING UNIT SIZE: MOTOR HP: C228-246-86 20 HP PUMPING UNIT MAKE: MOTOR MAKE: Top @ 6461'TVD/-2975'SS **PERFORATIONS** Drinkard Perfs: Form. Intervals Density 3727', 33', 43', 52', 59', 64', 70', 73' (Sq. w. 177sx) 1 SPF 6503', 25', 37' Grayburg 6557', 70', 79' Squeezed 6602" 5610-48', 5670-5720' (Sq. w/ 100sx) 4 SPF Blinebry 5814-5900 (Sq. w/ 100sx) **Orinkard Perfa** 4 SPF (Sq. w/758x) PBTD: 6610' 6481', 6503', 25', 37', 57', 70', 79', 6602' 6623-27 1 SPF Drinkard | 6623-27' (Sq. w/ 75sx) 8 SPF Abo Est. Top: OH: 6629-45 @ 6713'TVD/-3227'SS TD: 6645

WBDU #66 (Lockhart A-17 #3)





4 SPF



4.5" CMT TO SURF.

4.5" DV tool @ +/-5500"

Unitized Interval: Top @ 5572'TVD/-2086'SS

Blinebry Marker:

Top @ 5647'TVD/-2161'SS *Blinebry may be

perforated at a later date

Tubb Marker:

Top @ 6139'TVD/-2653'SS

Out I HOLOGE	CONTIGURATIO	214)			
WELL NAME:	WBDU #66 (Lockh	art A-17 #3)	API:	30-025-066	38
LOCATION:	1980'N/660'E SE-NE,	Sec. 17, T-21S, R-37E	COUNTY:	Lea Co., NM	
SPUD/TD DATE:	7-7-1947 / 9-10-19	47	COMP. DATE:	9/9/1947	
INJ ORDER DATE:		INJ. ORDER #:		BPD/PSI:	
PREPARED BY:	Michael Hunter		DATE:	5/10/2013	
TD: 6750'	KB Elev.	3483'	KB Dist. H		
PBTD: 6730'	Ground Elev.	3473'	KB to Ground	10'	
CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTH	S (FT)
Surface Casing	13-3/8" (200sx., Circ.)	32.40	J-55	0.00	222.00
	9-5/8" (500sx,TOC @ 1513')	36.00	J-55	0.00	2,529.00
Prod. Casing	7" (500sx, TOC @ 3582')	23.00	J-55/N-80	0.00	6,629.00
	4-1/2" (CMT @ SURF)	11.60	J-55	0.00	6,750.00
Open Hole					
Tubing	2-3/8"	4.70	J-55 IPC	0.00	+/-6520
	PRO	DUCTION TBG	STRING		

ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)
1	ON/OFF TOOL		+/-6498
2	BAKER LOK-SET DOUBLE-GRIP RETRIEVABLE PACKER		+/-6500
3	200 JTS 2-3/8" 4.7# J-55 IPC TBG		+/-6520
4			
5			
6			
7			
8			
9			
10			
T. FRIE	PERFORATIONS		
Form.	Intervals		Density
Blinebry			

Top @ 6461'TVD/-2975'SS Drinkard Perfs:

Abo Est. Top: @ 6713'TVD/-3227'SS



TD: 6750'



Tubb

Drinkard

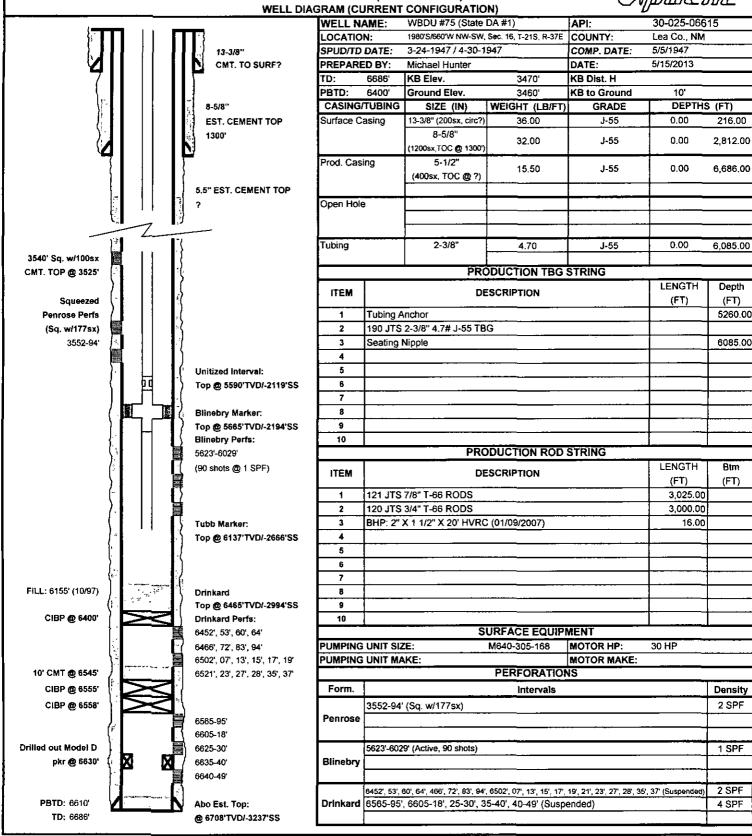
TBD

#### WBDU 66 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-7/8" tubing
- 2. RIH w/ 6-1/8" bit on 2-7/8" work string. Drill out cement from 6610' to 6645', continue to drill out from current TD at 6645' to new TD at +/-6750', circulate clean. POOH
- 3. RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 4. RU casing crew & equipment. RIH w/ 4-1/2" 11.6# J-55 casing w/ centralizers, float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 5. Perform two stage cement job to surface. WOC
- 6. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 7. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing. Perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing
- 8. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 9. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 10. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 11. Run MIT for NMOCD*
- 12. Allow injection rates to stabilize, run injection profile and temperature survey
- 13. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

WBDU #75 (State DA #1)

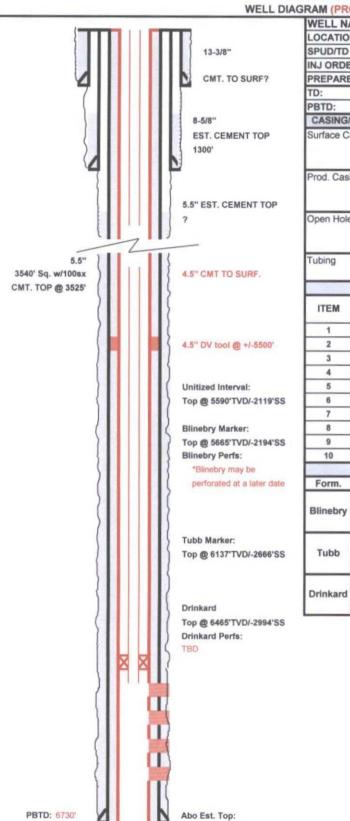




WBDU #75 (State DA #1)







@ 6708'TVD/-3237'SS

TD: 6750'

		CONFIGURATION	ON)		paci						
		WBDU #75 (State		API:	30-025-066	15					
LOCATIO		1980'S/660'W NW-SW.	Sec. 16, T-21S, R-37E	COUNTY:	Lea Co., NM						
SPUD/TD	DATE:	3-24-1947 / 4-30-1	947	COMP. DATE:	5/5/1947						
INJ ORDE	ER DATE:		INJ. ORDER #:		BPD/PSI:						
PREPARE	ED BY:	Michael Hunter		DATE:	5/15/2013						
TD:	6750'	KB Elev.	3470'	KB Dist. H							
PBTD:	6730'	Ground Elev.	3460'	KB to Ground	10'						
CASING	TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS	S (FT)					
Surface C	asing	13-3/8" (200sx, circ?)	36.00	J-55	0.00	216.00					
		8-5/8" (1200sx,TOC @ 1300')	32.00	J-55	0.00	2,812.00					
Prod. Cas	PROPOSEIL L NAME: LTION: VTD DATE: RDER DATE: ARED BY: 6750' 6730' NG/TUBING TO Casing  Hole  M ON/OFF BAKER I 200 JTS  m. bry	5-1/2" (400sx, TOC @ ?)	15.50	15.50 J-55 0.0							
		4-1/2" (CMT @ SURF)	11.60	J-55 FJ	0.00	6,750.00					
Tubing	·.	2-3/8"	4.70	1.55	0.00	LI GEORI					
Tubing		2-3/8	4.70	J-55	0.00	+/-6520'					
	-1270	IN	JECTION TBG S	TRING	14 1 1 1 1 1						
ITEM		DE	SCRIPTION		LENGTH (FT)	Depth (FT)					
1	ON/OFF	TOOL				+/-6498					
2	BAKER	LOK-SET DOUBLE-	GRIP RETRIEVABI	E PACKER		+/-6500					
3	200 JTS	2-3/8" 4.7# J-55 IPC	TBG			+/-6520					
4											
5											
6											
7											
8											
9											
10											
			PERFORATION	NS							
Form.			Intervals			Density					
Blinebry											
Tubb											
	TBD					4 SPF					

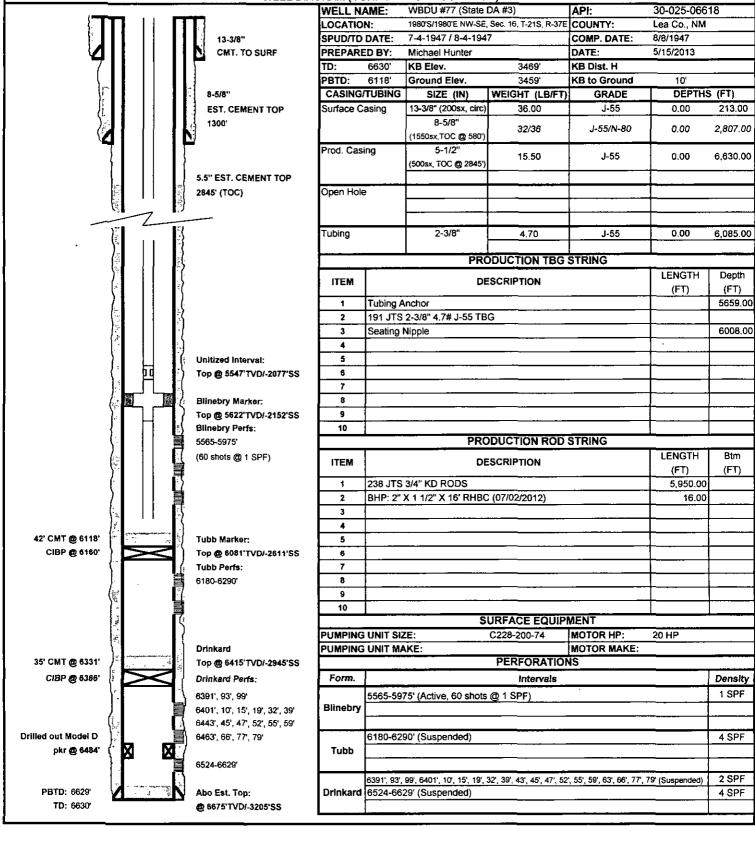
#### WBDU 75 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-3/8" tubing
- 2. RIH w/ 4-3/4" bit on 2-7/8" work string. Clean out fill at +/-6155', drill out CIPB at 6400', cement at 6545', CIBP at 6555', and CIBP at 6558'. Clean well out to Model D packer at 6630'
- 3. RIH w/ 4-3/4" washover shoe, washover pipe on 2-7/8" work string. Cut over and remove Model D packer at 6630'. POOH
- **4.** RIH w/ 4-3/4" bit on 2-7/8" work string. Drill well out from current PBTD at 6610' to new TD at 6750', circulate clean, POOH
- 5. RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 6. RU casing crew & equipment. RIH w/ 4-1/2" 11.6# J-55 flush joint casing w/ float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 7. Perform two stage cement job to surface. WOC
- 8. RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'. Circulate clean. POOH
- 9. RU wireline unit, RIH w/CBL/CCL, log well from PBTD to surface, POOH. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing, POOH
- 10. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 11. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 12. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 13. Run MIT for NMOCD*
- 14. Allow injection rates to stabilize, run injection profile and temperature survey
- 15. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed

## Apache Corporation WBDU #77 (State DA #3)

WELL DIAGRAM (CURRENT CONFIGURATION)





WBDU #77 (State DA #3)

WELL NAME:

SPUD/TD DATE:

PREPARED BY:

INJ ORDER DATE:

CASING/TUBING

Surface Casing

Prod. Casing

Open Hole

Tubing

ITEM

Drinkard

LOCATION:

#### WELL DIAGRAM (PROPOSED CONFIGURATION)

WBDU #77 (State DA #3)

7-4-1947 / 8-4-1947

Michael Hunter

Ground Elev.

SIZE (IN)

13-3/8" (200sx, circ)

8-5/8"

(1550sx,TOC @ 580')

5-1/2"

(500sx, TOC @ 2845') 4-1/2" (CMT @ SURF)

2-3/8"

KB Elev.

1980'S/1980'E NW-SE, Sec. 16, T-21S, R-37E COUNTY:

INJ. ORDER #:

3469

3459

WEIGHT (LB/FT)

36.00

32/36

15.50

11.60

4.70

DESCRIPTION

INJECTION TBG STRING



30-025-06618

DEPTHS (FT)

213.00

2,807.00

6.630.00

6,750.00

+/-6520

Depth

(FT)

+/-649

+/-6500

+/-6520

Density

4 SPF

Lea Co., NM

8/8/1947

BPD/PSI:

5/15/2013

0.00

0.00

0.00

0.00

0.00

LENGTH

API:

COMP. DATE:

KB Dist. H

**KB** to Ground

GRADE

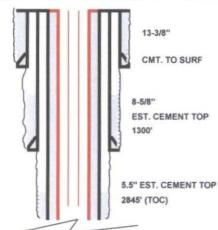
J-55

J-55/N-80

J-55

J-55 FJ

J-55 IPC



4.5" CMT TO SURF.

4.5" DV tool @ +/-5500"

Unitized Interval:

Top @ 5547'TVD/-2077'SS

Blinebry Marker:

Top @ 5622'TVD/-2152'SS Blinebry Perfs:

*Blinebry may be perforated at a later date

Tubb Marker:

Top @ 6081'TVD/-2611'SS

1 ON/OFF TOOL BAKER LOK-SET DOUBLE-GRIP RETRIEVABLE PACKER 2 3 200 JTS 2-3/8" 4.7# J-55 IPC TBG 4 5 6 7 8 9 10 PERFORATIONS Form. Intervals Blinebry Tubb

Drinkard

Top @ 6415'TVD/-2945'SS

Drinkard Perfs:

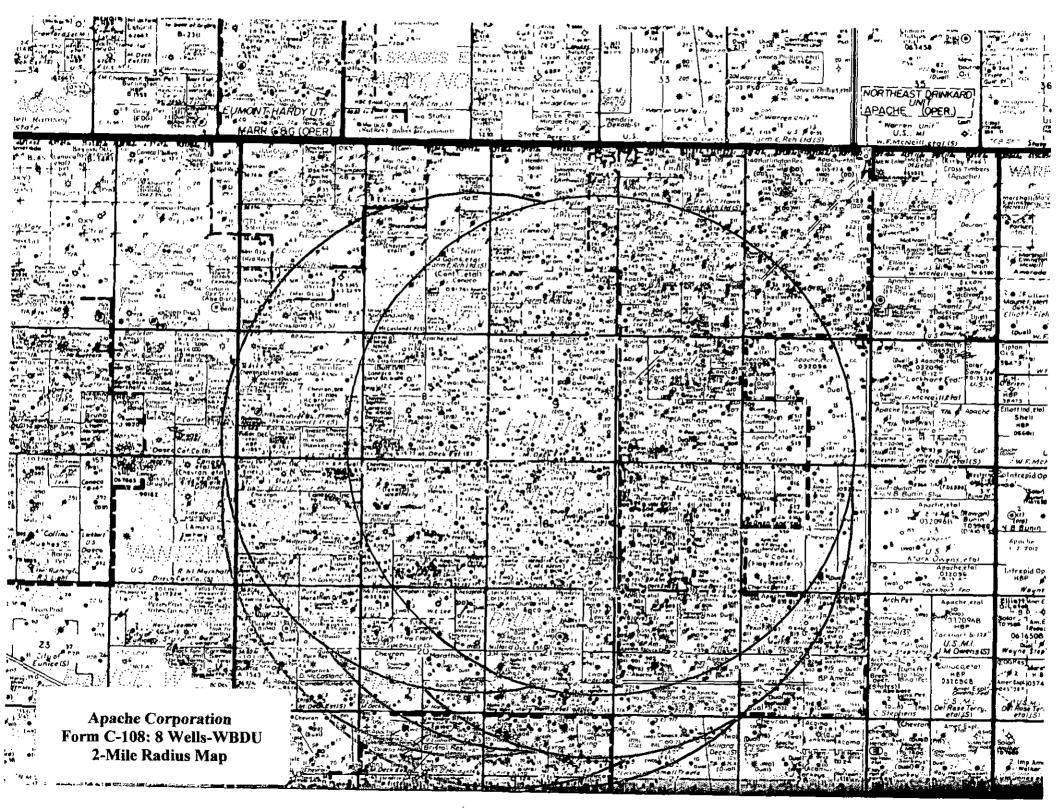
TBD

PBTD: 6730' TD: 6750'

Abo Est. Top: @ 6675'TVD/-3205'SS

#### WBDU 77 Proposed Procedure: Convert well to injection

- 1. MIRU. POOH w/rods and pump. Install BOP. POOH w/ 2-3/8" tubing
- 2. RIH w/ 4-3/4" bit on 2-7/8" work string. Drill out cement at 6118' and CIPB at 6160', cement at 6331' and CIBP at 6366'. Clean well out to Model D packer at 6484'
- 3. RIH w/ 4-3/4" washover shoe, washover pipe on 2-7/8" work string. Cut over and remove Model D packer at 6484'. POOH
- 4. RIH w/ 4-3/4" bit on 2-7/8" work string. Drill well out from PBTD at 6629' to new TD at 6750', circulate clean, POOH
- **5.** RU WL. RIH w/GR/CNL/CCL/CBL. Log well from TD to surface (perforation intervals to be determined from log interpretation)
- 6. RU casing crew & equipment. RIH w/ 4-1/2" 11.6# J-55 flush joint casing w/ float equipment, marker joint and stage tool (at +/-5500') to +/- 6750'
- 7. Perform two stage cement job to surface. WOC
- RIH w/ 3-3/4" bit on 2-3/8" work string. Drill out stage tool, float collar and cement to +/- 6730'.
   Circulate clean. POOH
- 9. RU wireline unit. RIH w/CBL/CCL, log well from PBTD to surface, POOH. RIH w/perforating guns, perforate the Drinkard as per the log evaluation above at 4 SPF, 90 degree phasing, POOH
- 10. RIH w/4-1/2" treating packer on 2-3/8" work string. Set packer at +/-6500'. Acidize the Drinkard w/10,000 gals 15% HCI-NE-FE BXDX acid w/scale inhibitor and rock salt in 3 equal stages at +/-10 BPM. Release packer. Wash out salt. POOH
- 11. RIH w/4-1/2" injection packer, on-off tool and 2-3/8" work string. Set packer at +/- 6500'. P/T backside to 500 psi. Release on/off tool and POOH LD work string*
- 12. RIH w/2-3/8" IPC injection tubing. Latch on to packer at +/- 6500'. RO*
- 13. Run MIT for NMOCD*
- 14. Allow injection rates to stabilize, run injection profile and temperature survey
- 15. At later date, shut well in to perform a fall-off test or static gradient
- *72 hours' notice must be given to the NM OCD Hobbs District office of the date and time that injection equipment will be installed, and that a MIT will be performed



## APACHE CORPORATION AREA OF REVIEW WELL LIST

#### GROUP 3: UPDATED WELLS & WELL DATA

WBDU WELLS NO. 37, 40, 56, 59, 61, 66, 75 & 77 (PAGE 5)

API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	ETG	N/S	FTG.	Envil	INIT	SEC	TQUE	DNG	DATE	TOTAL	HOLE	CSG.	SET	SX.	CMT.	I MTO T	HOLE	CSG.	ŞET.	SX.	CMT.	MTD.	COMPLETION	REMARKS
AFTNOMBEN	OI EKATOK	NAME		TYPE		N/S	1473	E/W		31411	JLC.	I SAF		DRILLED			SIZE		CMT.	TOP	IN 1D.	SIZE	SIZE	AT.	CMT.	TOP	mero.	COMPLETION	REMAINS
30-025-39407	Apache Corp	WBDU	106		Active		s		E	-,-	8	21S		Jan-11						Surface	Circ		5 1/2"	7.027	1410		Circ.	5 754'-8 829' Peri	f. Blinebry-Tubb-Orlnkard Completion
30-025-40274	Apache Corp	WBDU	124		Active			1180	Ē	ř	8	215	<del> </del>			12 1/4"		1,352		Surface		7 7/8"	5 1/2"	7,300	1225	Surface	Circ.		f. Tubb-Drinkard Completion
30-025-40458	Apache Corp	Hawk Federal B 1	69	P	Active			1805	Ē	<del>-i</del> -		215		May-12				1.389		Surface		7 7/8"	5 1/2"	7.500'	1400	86'	Well File	<del></del>	. Abo Completion: PBTD: 7,050
30-025-06432	Apache Corp	WBDU	20	i i	Active					н				Mar-50						-		12 1/4"	9 5/8"	2,859	1075	1,190'	Well File	-,,	f. Blinebry-Drinkard Completion
00-020-90-102	. 42010 00.4	***************************************		'	/ 10210	1000	``	555	-	]	٠	0	] "."	14121-00	5,755	1.0	'' "		200	Guillean	• • •	8 3/4*	7*	6.730	800	2,950'	Well File		- Dancery-Drinkerd Completion
30-025-06433	Apache Corp	WBDU	40	P	Active	660	5	660'	F	P	8	215	37F	Nov-49	6.758	N/A	13 3/8"	22Q'	250	Surface	Circ	N/A	9 5/8*	2,818'	1100	1,375	T.S.		f. Blinebry-Tubb-Drinkard Completion
30-023-00-103	r padic odp	***************************************	~~	Ι'Ι	7.0010	""		~~	٦,	'	. •	210	] "	1101-10	0,,,	100	1 10 0,0		200	Juliaco	0"0.	N/A	7*	6,753	625	2,321'	T.S.	3,720-0,700 7 67	Hole Sizes Not Available
30-025-06434	Apache Corp	WBDU	41	1	Active	10801	-	660'	E	1	8	215	37E	Feb-50	8 775	N/A	13 3/8"	2131	250	Surface	Circ	N/A	9 5/8*	2,684'	1750	1,300	Well File	5 867' 8 736' Port	f. Blinebry-Drinkard Completion
30-023-00434	Apacile Corp	**500	~'	'	Active	1800	۱۳۱	000	-	٠ ١	۰	210	3,5	1 60-30	0,773	1 140	1,3 3/6	213	250	Sullace	Ç"C.	N/A	7*	6.774'	822	2.804	Well File	3,007-0,730 FEN	Hole Sizes Not Available
30-025-39442	Apache Corp	WBDU	112	P	Active	1205	اج ا	330'	E	P	0	210	375	Jan-11	6 065	12 1/4"	0 5/0"	1 240	665	Surface	Circ.	7 7/8"	5 1/2"	6,965'	1285	Surface	Circ.	5 801' 6 800' Dod	f. Blinebry-Tubb-Drinkard Completion
30-025-36070	Breck Operating Corp.	State 10	2	P	Active	2273			w	Ē			37E			12 1/4"		1,275	600	Surface	Calc.	7 7/8"	5 1/2"	7,503'	1800	Surface	Calc.		f. Wantz-Abo Completion
30-025-39119	Apache Com	WBDU	98	- F	Active			1330'		듐	_		37E			12 1/4"		1.313		Surface		7 7/8"	5 1/2*	6,880'	1050	Surface	Circ.		f. Blinebry-Tubb-Drinkard Completion
30-025-39277	Apache Corp	WBDU	113		Active			330'		Ä				Sep-09								7 7/8"	5 1/2"	6,912'	1000	Surface	Circ.		f. Blinebry-Tubb-Drinkard Completion
30-025-06635	Chevron USA, Inc.	Mittie Weatherly	1		Active		_							Jul-48								11"	8 5/8*	2,791	1000	1,740	T.S.		. Grayburg Completion
	rforated @ 4,000' & squeez	,	4											llinebry Pe							0.0.	7 3/8"	5 1/2"	6.638'	350	3,390' *	CBL	0,710-0,572 1-011	Gaybarg Completion
30-025-06645	Apache Corp	WBDU	72			1980'			_	J				Aug-47						Surface	Circ.	9 7/8"	7 5/8"	2.845'	1600	Surface	Catc.	5.642'-6.637' Per	. Blinebry-Tubb-Drinkard Completion
			'-	[ ]	1	1.000			- [	١			**-	/g /.	5,555	1.000	1.00.	55.	-		0	6 3/4	5 1/2"	6,639'	550	3.000	T.S.	10,012 0,007 1 0	
30-025-06652	Apache Corp	WBDU	85	P	Active	660'	s	660'	ΕÌ	Р	17	215	37E	Apr-47	6.657	15 1/2"	13 3/8"	297	300	Surface	Calc.	11"	8 5/8*	2,814'	1200	Surface	Calc.	5.819'-5.881' Per	f. Blinebry Completion; Drinkard Perfs-
· [					1		[		ı				-	,	i .	'						7 7/8"	5 1/2*	6,641'	500	3,975	Calc.	1,,,,,	6,439'-6,637': CIBP @ 6,532'
30-025-39172	Apache Corp	WBDU	123	Р	Active	1450	s	1350'	Ē	J	17	215	37E	May-10	7,200	12 1/4"	8 5/8"	1,248	650	Surface	Circ.	7 7/8"	5 1/2"	7,200'	1150	Surface	Circ.	6,107-6,689 Perl	. Tubb-Drinkard Completion
30-025-39278	Apache Corp	WBDU	117	Р	Active	1115'	N	2310'	E	В	17	215	37E	Jan-11	7,000	12 1/4"	8 5/8"	1,298	670	Surface	Circ.	7 7/8"	5 1/2"	7,000'	985	300'	CBL	6,247'-6,773' Perl	Tubb-Drinkard Completion
30-025-39709	Apache Corp	MBDU	118	Р	Active	2330'		2430'	E	J				May-10	7,208'	12 1/4"	8 5/8*	1,215	650	Surface	Circ.	7 7/8*	5 1/2"	7,208'	1400	Surface	Circ.	6,125'-6,741' Perl	f. Tubb-Drinkard Completion
					BHL	2310		2,581'		J		218			L	1													<u> </u>
30-015-39733	Apache Corp	WBDU	109	P.	Active		_	2260		В				Apr-10										7,200'	1175	Surface	Circ.		f. Tubb-Drinkard Completion
30-025-39958	Apache Corp	MBDU	126	I P	Active	1310'		120	Ē	P	17			Jan-11								7 7/8*		6,920	1340		Circ.		f. Blinebry-Tubb-Drinkard Completion
30-025-39987	Apache Corp	WBDU	125		Active	1190'			阜	В				Jan-11								7 7/8*		6,951'	1300	Surface	Circ.		f. Blinebry-Tubb-Drinkard Completion
30-025-40429	Apache Corp	WEDU	144H	"	Active BHL	332		2100° 2258°		B 0		215	37E	Apr-12	10,677	17 1/2"	13 3/8"	1,235	1230	Surrace	Circ.	11" 7 7/8"	8 5/8* 5 1/2*	5,741' 10.657' *	1360 515	Surface Surface	Circ. Circ.	7,106'-10,208'	Drinkard Completion-Sliding Sleeves See Attached Schematic Diagram
KOP @ 6 043'	"5 1/2" casing cemented fro	m 6 043' to surface T	VD: 6	673' M	D: 10,67		3	2230		<u> </u>	-11	213	SIE		10,011		·		Ļ			7 770	3 1/2	10,007	313	Suriace	UILU.	<u> </u>	See Attached Schematic Diagram
30-025-06585	Apache Corp	Cities S State	2	P	PA		N I	19801	w	F	15	21S	37E	Jun-48	6.676	17 1/4"	13 3/8"	297	300	Surface	Circ	11 1/4"	8 5/8*	2,791'	500	675'	Well File	4.061'-4 900' Per	f. San Andres Completion
	. +		-	ı i			`	1000		` [			*		,,,,,		'' ''		***	00,,200	0	7 7/8"	5 1/2"	6,586'	125	5,120	Wall File	)   ',000' ',000 ' 0	PA'd 9/11. Schematic Attached
30-015-06590	Apache Corp	Northeast Drinkard Ut.	608	P	PA	1980'	N	1880'	W	F	15	218	37E	Jul-51	7.850	17 1/2"	13 3/8"	315'	325	Surface	Circ.	11"	8 5/8"	2,805'	500	Surface	Circ.	5,556'-7,814' Per	f. PA'd 10/2001. Schematic Attached
1 1										ļ			1		i .			'				7 7/8*	5 1/2"	7,850'	350	4,700	T.S.		
30-025-39300	Apache Corp	WBDU	115	P	Active	280'	s	740'	E	P	16	215	37E	May-10	7,225	12 1/4"	8 5/8*	1,273	650	Surface	Circ.	7 7/8*	5 1/2"	7,225	1300	Surface	Circ.	5,602'-6,618' Per	f. Blinebry-Tubb-Drinkard Completion
				l	BHL	31'		968'	E	Р	16	21S	37E		L			$\perp$		L		]		L					<u> </u>
30-025-39963	Apache Corp	WBDU	114		Active					Р		218		Dec-10										6,952	1195	800			f. Blinebry-Tubb-Drinkard Completion
30-025-39280	Apache Corp	WBDU	129		Active					Р				Apr-10								7 7/8"		7.120	1150	Surface	Circ.		f. Blinebry-Tubb-Drinkard Completion
30-025-39986	Apache Corp	MBDU	121	_	Active									Jan-11									5 1/2"	6,970	1370	124'			f. Blinebry-Tubb-Drinkard Completion
	Stephens & Johnson Co.	Weatherly	4	,				1980'	Εļ	В [	21	215	{ 37€	Jul-47	6,610	17 1/4"	13 3/8"	210	218	Surface	Circ.	11"	8 5/8"	2,858'	1200	Surface	(CBL)	5,580'-6,608' Per	f. Blinebry-Drinkard Completion
	erforated @ 3,440' & squee							0001	141 1			040	1.035	14- 15		1 4 7 4 400	T 40 414	0001	-	Fa	10	7 3/4*	5 1/2"	6,610	700	3,550' *		5 005 0 0 0 0 T	1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
30-025-06720	Stephens & Johnson Co.	Weatherly	2	P	Active	660.	14	990.	W]	υļ	21 .	215	3/E	May-47	6,629	17 1/2"	12 1/4"	280'	250	Surrace	Caic.	11"	8 5/8"	2,890	1200	Surface	Calc.	5,825-6,318 Pen	f. Blinebry-Drinkard Completion
20 025 2222	O !	Umul D f		1 6	DA-/	1000	اج⊦	1000	<del>  </del>	<del>- ,  </del>		045	275	Name 60	0.000	10.1(47	0.5/07	4 200	050	04	1 0:	7 7/8"	5 1/2"	6,629'	500	3,963'	Calc.	F 6661 8 7001 5 -	F Director Declared DAId 0107 College
30-025-22859	Conoco, Inc.	Hawk B 1	14				_			J	8_			Nov-68						Surface		7 7/8"	5 1/2"	6,836'	625	2,900'	Well File		f. Blinebry-Drinkard PA'd 9/97. Schematic
30-025-06474	Apache Corp	Northeast Drinkard Ut.	501	P	PA	1980	l M	330'	¥¥	-	10	215	3/E	Apr-62	5,990	13 3/4"	10 3/4"	310"	200	Surface	Circ.	9 7/8"	7 5/8*	2,975'	200	2,100	(f.s.)	5,793-5,936' Peri	f. Blinebry; PA'd 6/05. Schematic
<del></del>			<del></del>	<del>-</del> -	<del> </del>	1000	١١						-	<u> </u>	<u> </u>	I	<del> </del>	1 2		· -		6 3/4"	2 7/8"	5,989	1200	3,000	<u> </u>		
30-025-06614	Apache Corp	Northeast Drinkard Ut.	601	P	PA.	600	N	990,	W	D	15	215	37Ë	Feb-52	8,145	17 1/2"	13 3/8"	293'	300	Surface	Circ.	11"	B 5/8*	2,990'	2000	160'	ł.	5,679'-6,686' Per	f. Blinebry-Drinkard Completion
100 000 000			<u> </u>	1		4200	┞┯┤				45	4:5	-	<u> </u>	L	1		L		ļ <u>.</u>	<u>   </u>	6 3/4*	5 1/2"	8,142	350	5,380	T.S.	1	PA'd 10/11. Schematic Attached
30-025-06606	Apache Corp	ARGO	10	wsw	PA	1880	8	760	W	니	15	21\$	37E	Jul-51	8,012	17 1/4	13 3/8"	241'	250	Surface	Circ.	11"	8 5/8"	2,907'	1700	Surface	Circ.	4,016'-4,100' Per	f. San Andres Completion
1 1			E	1	1	1		ı <b>I</b>	1	- 1		l	ľ	I	I	1	I	ı 1		ı		7 7/8"	5 1/2"	2,660-8,912	1 8/5	Liner i op	Circ.	)	PA'd 11/11. Schematic Attached



28 Actaire 4 P&A

## APACHE CORPORATION AREA OF REWIEW WELL LIST

## GROUP 1: WELL & WELL DATA PREVIOUSLY PRESENTED IN CASE NO. 14126 WBDU WELLS NO. 37, 40, 56, 59, 61, 66, 75 & 77 (PAGE 1)

API NUMBER	OPERATOR	LEASE	WELL	INSTEL 1	ISTATU	el EYO L	M/O CT	LEN	DI MA	fler	Tel	e lena	DATE	TOTAL	NO E	Ceo	7 ert	lev	CMT	LASTO	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
APINUMBER	UPERATUR	NAME	NO.	TYPE		N/S	EN		A CMI	"JOE	,. l or	PIRM	DRILLED		SIZE	SIZE	AT	CMT.	TOP	M10.	SIZE	SIZE	AT	CMT.	TOP	MID.	COMPLETION	REMARKS
30-025-06432	Apache Corp	WBDU	20	1	Active	1980	N 660	٦Ε	TΗ	1 8	21	S 37E				$\Box$		1			Г	T		$\Box$				
30-025-06434	Apache Corp	WBDU	41	1	Active	1980	S 660	E	T	В	21	S 37E					7	1		T-	}			1				l
30-025-06435	Apache Corp	Hawk Federal B 1	12	P	Active	680	S 198	yΕ	0	8	21	S 37E						1			I			T				
30-025-26601	Apache Corp	WBDU	43	wsw	Active	660	S 198	y w	N	8	21	S 37E					1	1				T		1				
30-025-37020	Apache Corp	WBDU	46	P	Active	1365	S 142	ΪĘ	J	- 8	21	S 37E					T	Π.		Т	L		]	J				
30-025-37741	Apache Corp	WBDU	47	P	Active	1332	S 262	7 W	K	8	21	5 37E	L	,		}					1			Ι				
30-025-37742	Apache Corp	WBDU	48	Р	Active	1475	5 80	E		8	21	37E								]								
30-015-38195	Apacha Corp	WBDU	30	P	Active	2630	N 133			8	21	8 37E	I					I		I		L	i	L				
30-025-38521	Apache Corp	WBDU	55	P	Active	2620		E			21	S 37E					L					L		Ц.			L	
30-025-06438	Apache Corp	WBDU	33	i	Active	19801		7 E			21						<u> </u>	<u> </u>		1	<u> </u>	<u> </u>	<u> </u>				<u> </u>	
30-025-06441	Apacha Corp	WBDU	39	1	Active		S 660				21		<u> </u>			1		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	ļ	<u> </u>
30-025-08444	Apache Corp	WBDU	. 9	į į	Active			ΙE					<u> </u>		<b>!</b>	<u> </u>		<u> </u>		<b>_</b>	<u> </u>	<u> </u>	<u> </u>				L	
30-025-09906	Apache Corp	WBDU	38	1	Active			J E													L	<u>i                                      </u>	L	ļ				
30-025-09907	Apache Corp	Hawk Federal 9 1	-6	P		1060					21		ļ		1	Ь	<u> </u>	<u> </u>	ļ	$\bot$	<u> </u>	↓	<u> </u>	↓	<u> </u>	<u> </u>	<u> </u>	<u> </u>
30-025-09910	Apache Corp	WEDU	35			1980					21		<del> </del>		<u></u>	<b></b>	1	L	ļ	<u> </u>	1	ļ		Ļ	<u> </u>		ļ	<u> </u>
30-025-20178	Apache Corp	MBDU	42	1		1980					21		<del>↓</del> -		L	Щ.	4	₩		↓	<u> </u>	↓	<b></b>	ļ		ļ	<u> </u>	
30-025-36344	Apache Corp	MBDU	45	Į P		1040					21		<u> </u>			ļ		ऻ		<b></b>	ļ. <u> </u>	<b>↓</b>	<u> </u>	<u> </u>			<u> </u>	
30-025-37200	Apache Corp	WBDU	16	P		2310		ĽΕ								ļ	Ь.	<del></del>		<b>↓</b>	ļ		<u> </u>	· .				
30-025-37743	Apache Corp	WBDU	49	P		1330							ļ		ļ		+	ļ		<b>↓</b>	<b>├</b>	↓	<b></b>	ـــــ				
30-025-37744	Apache Com	WBDU	50	P	Active		S   133						<del> </del>		ļ	ļ		ļ		↓		ļ	<u> </u>	<u> </u>			ļ	<del> </del>
30-025-38197	Apache Corp	WBDU	51	P	Active		S 246								<b>└</b> ─	<b>├</b>	┼	<b>↓</b>		<b>↓</b> —	-	↓	ļ	<del> </del>				
30-025-38198	Apache Corp	MBDU	52	P.	Active		S 148						1			<u> </u>		—	<u> </u>	╀	├	ļ	<b></b>	₩-	<del></del>			<del> </del>
30-025-38199	Apache Corp	WBDU	53_	P	Active		\$ 121						<del> </del>				_	<del> </del>	ļ		<b>├</b>	ļ		<del>                                     </del>			<del> </del>	<del></del>
30-025-06463	Apache Corp	Northeast Drinkerd Ut.	502	P	Active		5 660						<u> </u>			╙	+	<del> </del>		<b>↓</b> —		<del></del>	<del> </del>	<b>↓</b>	<del></del>		<del> </del>	<del> </del>
30-025-06464	Exxon Corporation	New Mexico V St.	2	P	PA		S 198						<del> </del>			·	+	-		1 —	├	<del> </del>		₩-	<del></del>		<del> </del>	<del></del>
30-025-06467	XTO Energy, Inc.	N.M. V State	_5_	P	Active			L.W					┼		<b>_</b>	<del> </del>	+	<del> </del>		+	-		<del></del>		<del> </del>	<b>├</b> ──	<del> </del>	<del> </del>
30-015-06469	XTO Energy, Inc.	N.M. V State	7	P -	Active		S 188						├			<b>├</b>		┼		+	<del> </del>	+	<del> </del> -	<del> </del>	ļ	· · · · · · · · · · · · · · · · · · ·	<del> </del>	<del> </del>
30-025-06472	XTO Energy, Inc.	N.M. V State	10	P	Active			W					<del> </del>			<del> </del>	+	┼		+	├			┼		<del></del>	<del></del>	<del>                                     </del>
30-025-30913	Apache Corp	Northeast Drinkerd Ut.	514	P		2310'		r W		1 10	21					├	1	<del> </del>	<del></del>	+	<del>                                     </del>	<del> </del>	<del>                                     </del>	+		<del></del>	<del> </del>	<del> </del>
30-025-34799	Apache Corp	Northeast Drinkerd Ut.	523	╁╬			S 130 S 330									1-	╁	┼		┼	⊢—	╀	<del> </del>	+	<del></del>	<del></del>	+	
30-025-37242	Apache Corp Asache Corp	Northeast Drinkard Ut. Northeast Drinkard Ut.	527 422		Active		N 390					S 37E			<del></del>	1-	+	┼		+	┼	┼─	<del></del>	┼	<del> </del>	<del> </del> -	+	
	Chevron USA, Inc.	State S	1	P	Active		N 660									├	+	<del>!</del>		+	<del> </del>	╁	<del>                                     </del>	+	<del> </del>	<del> </del>	<del> </del>	
30-025-06586	Chevron USA, Inc.	State S	5	P	Active			T W						<del></del>	-	<del>                                     </del>	+-	├	_	+	<del></del>	<del> </del>	<del></del>	<del> </del> -	<del> </del> -	<del>                                     </del>	+	<del> </del>
30-025-34886	Apache Corp	Northeast Drinkard Ut			Active		N 135						+	-	<del> </del>	<del> </del>	+	<del>  -</del>	<del> </del>	+	<del> </del>	<del> </del>		+	<del> </del>		<del> </del>	<del></del>
30-025-36809	Apache Corp	Northeast Drinkard Ut.		1 5	Active		N 330								1—	┼	+	+		+	<del> </del>	<del> </del>	+	+	<del></del>		<del></del>	
30-025-37223	Apache Corp	Northeast Drinkard Ut.		P	Active		N 380				21		•	<del> </del> -	<del> </del>		+	<del>                                     </del>		+	<del> </del>	<del> </del>	<del> </del>	+		<del> </del>	+	<del></del>
30-025-06616	Apache Corp	WBDU	76	1 -	Active		S 198						+			<del> </del>	+	<del>  -</del>		+	<del>                                     </del>	1		<del>                                     </del>		<del></del>		<del></del>
30-025-06820	Chevron USA, Inc.	Harry Legnard NCT-E	1	<del> -</del> -	Active		N 198							1	<del> </del>	$\vdash$	+	+		<del>                                     </del>	<del>                                     </del>	+	<del>                                     </del>	<del> </del>		<del>                                     </del>	+	· · · · · · · · · · · · · · · · · · ·
30-025-06622	Chevron USA, Inc.	Harry Leonard NCT-E	_	F	Active		N 198				21			·	<del> </del>	<del> </del>	+-	1		<del> </del>	<del>                                     </del>	+	<del>                                      </del>	$\vdash$	· · · · · · ·	<del>                                     </del>	<del> </del>	
30-025-06623	Apacha Corp	WBDU	57	1	Active		N 660					S 37E		<del> </del>		<del>                                     </del>	+	1	<b>-</b>	1	1	†	<del> </del>	1		<del> </del>	<del>                                     </del>	<u> </u>
30-025-06625	Apache Corp	WBDU	58	<del>                                     </del>	Active						21			<del> </del>	<del>                                     </del>	1	+	<del> </del>		+-	<del>                                     </del>	+	<del>                                     </del>	<del> </del>	<del>                                     </del>	<del>                                     </del>	<del>†</del>	<del>                                     </del>
30-025-06627	Stanolind Oil & Gas	State C Tract 12	5	P	PA		N 198					S 37E		t -	-		1	1	1	1	1	1	<del>                                     </del>	_	1		1	
30-025-06628	Apache Corp	WBDU	60	1 7	Active		N 198				21					<del> </del>	1	1		1	1	1	1	$\vdash$	1		<del> </del>	
30-025-08631	Apache Corp	State Land 15	2	P	Active		S 198									$\vdash$		1	_	1	1	1	1	1		T		
30-025-25198	Chavron USA, Inc.	Harry Leonard NCT-E	8	P	Active		N 600				21			T		$\vdash$	1	$\top$		T	1	†		1	i			<u>                                     </u>
30-015-36305	Apache Corp	WBDU	82	P	Active		N 127				21			1	†		_			1	T	1	1				<del>1</del>	
30-025-37201	Apache Corp	WBDU	79	Ė	Active		8 165				21					1			1	1	Τ	T	1	$\top$				
30-025-37202	Apache Corp	State C Tract 12	21	P	Active		N 221					S 37E		1	1	1	1	Τ.	1	1	i -	<del>                                     </del>	T	1	1		1	
30-025-38220	Apache Corp	WBDU	80	P	Active		S 124					S 37E		Ī	1				T -	1		1	1	i				
30-025-38230	Apache Corp	WBDU	81	P		2630						S 37E		Ĭ -	T	1	-	1		T	T			T			<u> </u>	

## APACHE CORPORATION AREA OF REVIEW WELL LIST

## GROUP 1 (CONT.): WELL & WELL DATA PREVIOUSLY PRESENTED IN CASE NO. 14126 WBDU WELLS NO. 37, 40, 56, 59, 61, 66, 75 & 77 (PAGE 2)

30-025-38231 30-025-38267 30-025-38268 30-025-38414 30-025-38415 30-025-06637	Apache Corp Apache Corp Apache Corp Apache Corp Apache Corp Apache Corp	NAME WBOU WBOU WBOU WBOU	NO. 82 63 64	TYPE	Active	FTG. N/S	EW		1	1	1	. 1			HOLE													
30-025-38267 30-025-38268 30-025-38414 30-025-38415 30-025-06637	Apache Corp Apache Corp Apache Corp Apache Corp	WBOU WBOU	63		Active							- 1	I DRILLE	DEPTH	SIZE	SIZE	AT 1	CMT.	TOP	1 1	SIZE	SIZE	AT	CMT.	TOP	i	1	i .
30-025-38267 30-025-38268 30-025-38414 30-025-38415 30-025-06637	Apache Corp Apache Corp Apache Corp	WBOU				12630'I S	1360		J	16	21	S 37	1		-													
30-025-38414 30-025-38415 30-025-06637	Apache Corp Apache Corp		64	1 F		110' N									1	-					_							
30-025-38415 30-025-06637	Apache Corp	WBDU	0-	P	Active	1330 1	1 2440	y w	F	16	21	S 376	: -														ľ	
30-025-06637			83	P		1510 S								",										Ī _				
		WBDU	84	P	Active	1330 5	2630	W	T K	15	21	S 37E								1								
	Apache Corp	Lockhart A 17	2	P	Active	1980 5	660	E	T	17	21	S 378	:		1					1								
30-025-06639	Apache Corp	WBDU			Active	660° N	660	TE	A	17	21	\$ 376	<u> </u>	.1	1							I		I _				
30-025-08842	Apacha Corp	WBDU	65		Active	330 N	1650	Y E	В	17	21	S 376					1											
30-015-06646	Apache Corp	WBDU	73			1980' N								1	Τ			3						Ι				<u> </u>
30-025-38204	Apache Corp	WBDU	69	P	Active	2630 5	120	E	Ī	17	21	S 37		1	i					Γ								
30-025-38205	Apache Corp	WBDU	70		Active	110' N	1 180	ĪΕ	A	_17	21	S 378								П							T	
30-025-38206	Apache Corp	WBDU	71	P	Active	1240' N	1 40	E	Α	17	21	S 376			Γ									I				
30-025-38411	Apache Corp	WBDU	68	P	Active	2630	N   1310	ΪE	H	17	<u>.</u> _ 21									L			l		1		I	<u> </u>
30-025-06591	Apache Corp	Northeast Drinkard Ut.	604	Р	Active	2310' N	1 990	l w	E	15	21	S 37E			$\Box$													
30-025-06607	Apache Corp	ARGÓ	11	Þ	Active	2080' S	1650	Y W	K	15						L				$\Gamma_{-}$								
	Shell Western E & P, Inc.					3390' 8	4520	r E	E	15		S 37					]						<u> </u>				<u> </u>	<u> </u>
30-025-09914		Northeast Drinkard Ut.										S 378			L	_											L	
30-025-09915	Apache Corp	ARGO	7	SWD	Active	2310' 8	990	W	L			S 371			I	L												
30-025-09916		Northeast Drinkard Ut.									21									Γ		<u> </u>	l				l	<u></u>
30-025-34887		Northeast Drinkard Ut.				1250 N						S 37					<u> </u>										L	
30-025-34888		Northeast Drinkard Ut.				1330 S						S 37			I	i	<u> </u>					L						
30-025-35271		Northeast Drinkard Ut													<u> </u>					1		<u> </u>	<u> </u>	<u> </u>				
30-025-37238	Apache Corp	Northeast Drinkard Ut.	629	P	Active	2630 8	330	W	ľ	15	21	\$ 376		I			<u></u> `										<u> </u>	
30-015-37243	Apache Corp	Northeast Drinkard Ut.	721	l P	Active	1310 5	330	W	М	15	21	S 376	E [		ľ			L						1	<u> </u>	L		
30-025-06617	Apache Corp	State DA	_ 5	₽		1980' 5								<u>.                                    </u>	1					}		<u> </u>	I					<u></u>
30-025-06819	Apache Corp	WBOU	78			1980' 5									Γ	J	L			[				!				
30-025-06624	Chevron USA, Inc.	Harry Leonard NCT-E				2310' N								I = I	Ι							Γ'. '						
30-025-06630	Apache Corp	State Land 15	1			660' 5									I					Г		ľ	L'	l				
30-025-06832	Apache Corp	UOBW	88			660' 5									1									1			Г	
30-025-06633	Apache Corp	WEDU	89			660' 5									Π									I		,		
30-025-06634	Apache Corp	WBDU	90			330 8										I				$T^-$		Γ		1 _				l
30-025-20311	Apache Corp	WBDU	91	Ρ		330 8											L						1	1				
30-025-37535	Apache Corp	WBDU	92	Р		910' 5								I	T	Ι .												
30-025-37536	Apache Corp	WBDU	93			330   5									T								·					
30-025-37537	Apache Corp	WBDU	94			330 8									1													

## APACHE CORPORATION AREA OF REVIEW WELL LIST

## GROUP 2: WELLS THAT DO NOT PENETRATE THE INJECTION INTERVAL WBDU WELLS NO. 37, 40, 56, 59, 61, 66, 75 & 77 (PAGE 3)

API NUMBER	OPERATOR	LEASE	WELL	WELL	STATUS	FTG.	WS FT	3. EA	N UN	IT SE	C. TS	HP RN	G. DA	TE TOTAL	HOLE	CSG.	8ET	SX.	CMT.	MTD.	HOLE	CSG.	SET	SX.	CMT.	MTD.	COMPLETION	REMARKS
		NAME	NO.	TYPE		N/S	EA	N			1.		DRIL	LED DEPTH	SIZE	SIZE	AT	CMT.	TOP		SIZE	SIZE	AT	CMY,	TOP			
30-025-35795	Apache Com	Hawk Federal B 1	18	Р	Active				. P			IS 37		4,200														
30-025-35804	Apache Corp	Hawk A	<u>11</u>		-	2180				1 .		IS 37		4,200	<b>└</b>		<b>!</b>	_		<u> </u>	ļ			1				
30-025-35877	Apache Com	Hawk Federal B 1	21	P	Active							IS 37		4,212	ļ		ļ			-		Ļ		<b></b>			ļ <u> </u>	
30-025-35878	Apache Corp	Hawk Federal B 1	22	Р	Active		5 200					IS 37		4,215	ļ		₩-	ļ		ļ		ļ		<del>  -</del>				
30-025-36158	Apache Corp	Hawk Federal B 1	32	P	Active	1365						IS 37		4,200	<del> </del> -	-	<del> </del> -	ļ		⊢			ļ	+				
30-025-36532	Apache Corp	Hawk Federal B 1	39	P	Active		S 80					IS 37		4,350	<del> </del>		┼—	-				-	<b></b>	+				<del></del>
30-025-37997	Apache Corp	Hawk Federal B 1	51 50	P	Active Active	2200'	S 251					IS 37		4,405	├		1	1		<del> </del>	-		<del></del>	<del></del> -			<del> </del>	
30-025-3801 <u>4</u> 30-025-38493	Apache Corp	Hawk Federal B 1	 58	P	Active		S 144					IS 37		4.193	├		┼			+				+	<del> </del>		<del> </del>	
30-025-38547	Apache Corp Apache Corp	Hawk Federal 8 1	61P		ACTIVE		S 118					15 37		Cancelled A		<del></del>	$\vdash$	<del>                                     </del>		+	<del> </del>		<del></del>					
30-025-38659	Apache Corp	WSDU	124P	<del>1 -</del>			8 118					IS 37		Cancelled A			<del>                                     </del>	<del>                                     </del>		<del> </del>	-			<del> </del>				
30-025-35796	Apache Corp	Hawk Federal B 1	19		Active		S 42					IS 37		4,200		· · · · ·	+			+	· · · · · ·			1				
30-025-35798	Apache Corp	Hawk Federal B 1	25	Р	Active	1830						15 37		4,200	<u> </u>		1			1		1		1				
30-025-35806	Apache Corp	Hawk Federal B 1	27	Р	Active	830	S 90	O' E	F	,	2	IS 37	E	4,200	$\vdash$			1		1		$\overline{}$		T				
30-025-35876	Apache Corp	Hawk Federal B 1	20	P	Active	1980	S 55	0 V	/ L		2	18 37	E	4,200														
30-025-35880	Apache Corp	Hawk Federal B 1	28	Р	Active	420	5 198	10' E	0	9	2	IS 37	E	4,200	Γ			Ĺ										
30-015-35881	Apache Corp	Hawk Federal B 1	30	P	Active	1830		0 E				IS 37		4,200	Ī					<u> </u>		<u> </u>	<u></u>	<u> </u>				
30-025-35882	Apache Corp	Hawk Federal B 1	31		Active	700		0 1	_			15 37		4,204	ļ		Ь.			<u> </u>	<u> </u>	<b>└</b>		↓				
30-025-36530	Apache Corp	Hawk Federal B 1	38		Active	1310		0' E		_		18 37		4,743	L	Ļ	├	<b>!</b>		╄			ļ	↓				
30-0-25-38531	Apache Corp	Hawk Federal B 1	38	P	Active		S 25					18 37		4,350	┝	ļ	<b>↓</b>		<u> </u>	<b>├</b> ─	╄	<b>├</b> ──		<b>├</b>			<del> </del>	
30-025-36533	Apache Corp	Hawk Federal B 1	40	P	Active		S 128					15 37		4,776	<del></del>	<del> </del>	┿	<del> </del>	<u> </u>	1	<del>-</del>			<del>-</del>		<del></del>	<del> </del>	
30-025-36662	Apache Corp	Hawk Federal B 1	35		Active		S 13					1S 37		4,350 4,350	<del>!</del>	<del></del>	+	-		+	<del> </del>	_		+		<del></del>		······
30-025-36686 30-025-37998	Apache Corp Apache Corp	Hawk Federal B 1	37 52		Active Active	1150	S 13	<u>الرابي</u>				1\$ 37 15 37		4,358	-	<del>  -</del>	+	-	<del>                                     </del>	1	+	<del> </del>	<del></del>	<del> </del> -			<del> </del>	
30-025-38959	Apache Corp	Hawk Federal B 1	68	P	Active		S 33					18 37		4,455	-	<del> </del>	+-	<del> </del>		+	<del>                                     </del>			<del>                                     </del>			<del> </del>	
30-025-39015	Apache Corp	Southland Royalty A	28		Active	2310		o E				15 37		4,400	1	<del>-</del>	十一	_		+	<del> </del>	-	<del> </del>	+ -				
30-025-39229	Apache Corp	Northeast Drinkard Ut.	427		7,0010	2550		σV				IS 37		Cancelled A	<del></del>		1			<del> </del>	1		<u> </u>	<del>                                     </del>				
	(ey Energy Services, LLC	State	1		Active	1340		οV				1S 37		2,200						1								
30-015-39831	Chevron USA, Inc.	State S	12	1		990'	N 13	V 10x	/ 0	1	5 2	15 37	E	Cancelled A	PD									Ι"				
30-025-34245	Apache Corp	State DA	6	Р	Active	1980	S 81	0, A	/ 1	. 1	6 2	1S 37	É	4,000	Τ	ļ		L		<u> </u>								
30-025-35515	Apache Corp	_State C Tract 12	8	Р	Active	660'		0'   V				15 37		4,450		L.,							<u> </u>	↓	L			
30-015-35516	Apache Corp	State DA	7	Р	Active		5 22					15 37		4,200			↓	₽		<b>↓</b>	├	ļ	<u> </u>	↓	<u> </u>			
30-025-35707	Apache Corp	State C Tract 12	9	Р	Active		N 18					1S 37		4,450		ļ	<del> </del>	-	<del> </del> -	╄	<del> </del>	┞——	<u> </u>	╄	ļ. —			<del></del>
30-025-35708	Apache Corp	State C Tract 12	10_	P	Active		N 17					15 37		4,200			-	-		+-	├	├	<b>_</b>					
30-025-35709	Apache Corp	State C Tract 12		P	Active		N 33			_	8 2	1S 37	_	4,200			₩	<del> </del>		+	-	<del> </del> -		+-			<del> </del>	
30-025-35765	Apache Corp Apache Corp	State DA State C Tract 12	13	_	Active		N 23					15 37		4,200		├-	┼─	├-		+	<del> </del>	1-		<del> </del>			<del>                                     </del>	
30-025-36115	Apache Corp	State C Tract 12	12		Active		N 33					16 37		4 125		-	t	t		<del> </del>	!	<del> </del>	<del> </del>	-				
30-025-36478	Apache Corp	State C Tract 12	15		Active		N 144					1S 37		4,725		· · · · · ·	1	1		†	1	<u> </u>						
30-025-36613	Apache Corp	State C Tract 12	17	P	Active		N 25					1S 37		4,386	T	<del>                                     </del>	1	1		1	1	1		1				
30-025-36614	Apache Corp	State C Tract 12	18	P	Active	2590						18 37		4,350			1		Ī .		1	1		$\top$				
30-015-38817	Apache Corp	State DA	9	Р	Active	2579	S 26	5' V	/ 1	. 1	6 2	1S 37	Έ	4,350														
30-025-36618	Apache Corp	State C Tract 12	18	P	Active		N 13					1\$ 37		4,350			ļ							1				
30-025-38725	Apache Corp	State C Tract 12	19	P	Active		N 22				6 2			4,350				<u> </u>	<u> </u>	4_		ļ		ļ	ļ		J	<u> </u>
30-025-36741	Chevron USA, Inc.	Harry Leonard NCT-E	7	P	Active		N 10					1S 37		4,345		<b></b>	<del> </del>	↓		↓	<del>↓</del>	<b> </b>		┿		<b></b>	Ļ	<u></u>
30-025-36766	Apache Corp	State DA	10		Active	2310						1S 37		4,345		├	╄	1		+	1			┼	<del> </del>	<del> </del>	<del> </del>	
30-025-36767	Apache Corp	State DA	11	<del></del>	Active		S 169					15 37		4,350		├	+	┼	<del> </del>	+	<del> </del>	<del>├</del>	<del> </del>	+	<del> </del>		<del> </del>	<u> </u>
30-025-37634	Chevron USA, Inc.	Harry Leonard NCT-E	8	<del>                                     </del>	Active	2310						1S 37		4,300		<del> </del>	+-	┼	<del> </del>		┼	├──	<del> </del>	+	<del> </del>		<del> </del>	<del> </del>
30-015-37884 30-025-39058	Apache Corp Apache Corp	State DA State C Tract 12	14 26C		Active	1775	S 33		/ 1 / C			1S 37		Cancelled A			+	+	<del> </del> -	+-	<del> </del>	<del> </del>		+	<del>                                     </del>	<del> </del>	<del> </del>	<u> </u>
30-025-23717	Apache Corp	W W Weatherly	5		Active		N 19							3,875		<del> </del>	<del>                                     </del>	+-	<del>                                     </del>	+	<del>                                     </del>	1	<del> </del>	†	<del>                                     </del>	<del> </del>		<del>   </del>
30-025-23831	Apache Corp	Percy Hardy	5		Active	990'						18 37		3,849					<u> </u>		L.				I		<u> </u>	
30-025-24178	Apache Corp	W W Weatherly	6	P	Active			IO' V	V 1					3,840			Į			$\Box$					1			
30-025-36101	Apache Com	Lockhart A 17	8		Active									4,150		<del> </del>	₩-	↓_	ļ	+-		ļ	<del> </del>	!	<del> </del>		ļ <u>.</u>	<del> </del>
30-025-36159	Apache Corp	Lockhart A 17	. 7.	<u> </u>	Active	26301	S   99	بات		1	<i>i</i> 2	15   37	<u>'El.</u>	4,100	<u> </u>	<u> </u>	ь.	<u> </u>	<u> </u>		٠	<del></del>	Ь	—	<u> </u>	<u> </u>		<del></del>

## APACHE CORPORATION AREA OF REVIEW WELL LIST

## GROUP 2 (CONT.): WELLS THAT DO NOT PENETRATE THE INJECTION INTERVAL WBDU WELLS NO. 37, 40, 56, 59, 61, 66, 75 & 77 (PAGE 4)

UP! NUMBER	OPERATOR	LEASE					//3] FT(	3.  E/W	f UNIT	SEC	TSH	PĮRNO	DATE										\$ET	SX.	CMT.	MID.	COMPLETION	REMARKS
		NAME_	NO.	TYPE		N/S	EA		1	<u> </u>	1	_!	DRILLE		SIZE	SIZE	AT	CMT.	TÓP	$\vdash$	SIZE	SIZE	AT	CMT.	TOP		<del></del>	
0-025-36658	Apache Corp	W W Weatherly	7		Active									4,234														
0-025-36659	Apache Corp	W W Weatherly	8		Active				J			37E		4,215	L		L											
0-025-36661	Apacha Corp	Lockhart A 17	9		Active									4,350		L	L			$\perp$				L			<u> </u>	
0-025-37379	Apache Corp	Lockhart A 17	10_	P. 1	Active	330	<u>N</u>	) LE	I A	17	218	37E	: L.	4,360				L										
0-025-38377	Apache Corp	W W Weatherly	12	P	Active									4,150		<u> </u>	<u> </u>				]			L		L		
0-025-38412	Apache Corp	Lockhart A 17	21			1410								ncelled A		<u> </u>	<u> </u>										<u> </u>	
0-025-38548	Apache Corp	WBDU	125	·		1190								ncelled A	PD		1						_				L	
0-025-38549	Apacha Corp	WBDU	126			1330						S 77E		ncelled A	PD	<u> </u>	1				_						<u> </u>	
0-025-39017	Apache Corp	W W Weatherly	11G			1651								ncelled A	PD		1							L			<u> </u>	<u></u>
0-025-39443	Apache Corp	WBDU	130			780'								ncelled A	PD	I		L					_					
0-025-37384	Apache Corp	State Land 15	7	Р	Active	330								4,402		L											<u> </u>	
0-025-37365	Apache Corp	State Land 15	8	P	Active	330'	S [165	ö] w	N	16	218	3 37E	<u>:L</u>	4,435			1			1								
0-025-37482	Apacha Corp	State Land 15	13	Ð		350								4,392														
0-025-37496	Apache Corp	State Land 15	12		Active									4,415		L											<u> </u>	
0-015-37916	Apache Corp	State DA	13	P	Active							S 37E		4,398													<u> </u>	
0-025-38378	Apache Corp	State Land 15	16	Р	Active									4,135						1				1			<u> </u>	
0-025-39449	Apacha Corp	State Land 15	17	Đ.	Active	990"	S 33	7 E	P	16	21	37E	L	4,415		Γ		l									<u> </u>	
0-025-39805	Apache Corp	State Land 15	18	P	Active	660	S 165	ŌΈ	0	16	219	37E	L	4,404		I				T				L			1	
0-025-39606	Apache Corp	State Land 15	19	P	Active	895	S 54	7] W	М	16	21	3 37E		4,414										1			<u> </u>	<u></u>
0-025-36056	Apache Corp	Percy Hardy	10	P	Active	330	\$ 33	7 E	Р	17	21	S 37E		5,350										Ι				
0-025-36646	Apache Corp	Weatherly 21	5	P	Active	330'	N 208	o w	TÇ	21	219	37E	: [	4,250			T					Г		Ι				i

	WELL DATA SHEET Last Update: /-/9-/2
Lease Name: WBDU #144	API No: 30-025-40429  County: Lea ST: NM
Location: 122 55/2258 6 0-844 5	ec/7 7-215 R-37E County: Lea ST: NM
143 - 1 1 11	Spud Date: 4-/4-/2Well Elev: 3480 GL /8 KB
Constitution 12	TD Date: <u>5-18-12</u> Completion Date: <u>6-22-12</u> TD: 10,657' MD PBTD: 10,600' TOC: Circ  TV: 48" Grd: H-40 Dpth: 1235' Cmt: 1230 sx(Circ)
Csg Size:	
	Producing Formation: <u>Drinkard</u>
	Perfs: Fromtototo
	tototo
	IP: BOPD BWPD MCF/D
	Well History: (See Assached)
C55:	85/8", 32", HK-55/J-55 @ 574/ ~//360 5k (Circ)
	5/1 17" L-80 e 10,657: Parreeller 0604) /515 sx (Girc)
	10 677 D: 10,677
	Well Equipment:
	Pumping Unit: 640 PU
•	
;	Motor Type: HP: POC:  Tbg: 192 Its 2 78" Size 5.5" Grade
	MA @ - SN @ 6/05 TAC @ 6070 (6-18-12)
	Rods: 103.14 F6 + 40-1" KD + 34.78" KD + 12-11/2" K & qes
	Pump: 2"x 13/4" x 24 HVRC (6-21-12)
0 8	,
Csg Size:	Wt: Grd: Dpth: Cmt:

Apache Corporation Form C-108: 8 Wells-WBDU Well Schematic-WBDU 144H

T.D. 5,990'

10 Sx. @ Surface

Apache Corporation
Northeast Drinkard Unit No. 501
API No. 30-025-06474
1980' FNL & 330' FWL (Unit L)
Section 10, T-21S, R-37E, NMPM,
Lea County, New Mexico
Type Well: Producer

Date Drilled: 4/62

Date PA'd: 6/05

13 ¾" Hole; 10 ¾" Csg. Set @ 310'. Cemented w/200 Sx. Cement Circulated to Surface.

Cut 2 7/8" csg. @ 418'. Perforated 7" csg. @ 360'. Squeezed 100 sx. cmt. 200'360'. Tagged @ 210'

Perforated 2 7/8" csg. @ 1,400'. Squeezed w/120 sx. Tagged cmt. @ 1,000'

TOC @ 2,100'

9 7/8" Hole; 7 5/8" Csg. Set @ 2,975' Cemented w/ 200 Sx. TOC @ 2,100' by T.S.

2 7/8" casing cut @ 3,018'. Could not pull. RIH w/ 1 ½" coiled tubing @ set 20 sx. cement plug 2,210'-3,078'

CIBP @ 5,610' + Cement Tagged @ 5,567'

Blinebry Perforations: 5,793'-5,936'

6 ¾" Hole; 2 7/8" Csg. Set @ 5,989' Cemented w/1200 Sx. TOC @ 3,000' by T.S. Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-NEDU 501

Submit 3 Copies To Appropriate District Office	State of New Me	exico	Form C-103
District [	Energy, Minerals and Nati	ural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-025-06474
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	1	5. Indicate Type of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fra	ncis Dr.	STATÉ 🛛 FEE 🗌
<u>District IV</u>	Santa Fe, NM 8	7505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			B-935
	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC			North and Defeland Defe
PROPOSALS.)	_	<u> -</u>	Northeast Drinkard Unit  8. Well Number 501
	Gas Well  Other		
2. Name of Operator Apache Corporation			9. OGRID Number 00873
3. Address of Operator			10. Pool name or Wildcat
6120 South Yale. Suite 1500, 7	Tulsa, OK 74136-4224		Eunice Blinebry-Tubb-Drinkard-North
4. Well Location		j'	
Unit LetterL:_	1,980_feet from theSouth	line and330	feet from theWestline
Section 10	Township 21-S	Range 37-E	NMPM County Lea
	11. Elevation (Show whether DR	, RKB, RT, GR, etc.)	हर है। इ.स.
Pit or Below-grade Tank Application o	3,470' DF		
Pit type STEEL Depth to Groundwater		tar mall Affenila	Distance from nearest surface water
··· <del>-</del>			nstruction Material STEEL
12. Check A	appropriate Box to Indicate N	lature of Notice, R	Report or Other Data
NOTICE OF IN	TENTION TO:	l SUBS	EQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	_
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILL	
		一个人のははついつにはだられて	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	
OTHER:		OTHER:	
OTHER:  13. Describe proposed or comp	leted operations. (Clearly state all	OTHER: pertinent details, and	give pertinent dates, including estimated date
OTHER:  13. Describe proposed or comp	leted operations. (Clearly state all	OTHER: pertinent details, and	
OTHER:  13. Describe proposed or comp of starting any proposed wo	leted operations. (Clearly state all rk). SEE RULE 1103. For Multip	OTHER: pertinent details, and	give pertinent dates, including estimated date
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Per Se

Conoco, Inc.
Hawk B-1 No. 14
API No. 30-025-22859
1980' FSL & 1980' FEL, Unit J
Section 8, T-21S, R-37E
Type Well: Producer

Perforate 5 ½" csg. @ 350'.

Squeeze cmt. to surface w/175 sx.

Date Drilled: 11/68 Date PA'd: 10/97

12 ¼" Hole; 8 5/8" csg. set @ 1,322' Cemented w/650 sx. Cement circulated to surface

Perforate 5 ½" csg. @ 1,372'. Set 25 sx. cmt. plug @ 1,372'

Set 25 sx. cmt. plug @ 2,567'

TOC @ 2,900' (Well File)

Set cement retainer @ 3,400'. Pump 67 Bbls of Class C cmt. through retainer. Sting out of retainer & set 6 sx. cmt. on tool.

Casing collapsed @ 3,553'

San Andres Perforations: 4,151'-4,196' Squeezed w/100 Sx. cmt.

Blinebry Perforations: 5,666'-5,876'

Drinkard Perforations: 6,660'-6,700'

7 7/8" Hole; 5 ½" csg. set @ 6,836' Cemented w/625 Sx. TOC @ 2,900' by Well File

T.D. 6,836'

Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-Hawk B-1 No. 14

N.M. Oil Cond

1000

Form 3160-5 (June 1990)

7 Type of Well

2 Name of Operator CONOCO, INC. 3 Address and Telephone No.

X OI Gas Well

UNITED STATES **DEPARTMENT OF THE INTERIOR** BUREAU OF LAND MANAGEMENT

T G	15	IOŲ.
Hobbs,	NM	8824

· ·	DEPARTMENT OF THE INTERIOR SUREAU OF LAND MANAGEMENT	Budget Sureau No. 1004-0135  Expires: March 31, 1993  5 Lease Designation and Sensi No.
SUNDRY	NOTICES AND REPORTS ON WELLS	NIM 901610 6. If Indian, Allottee or Tribe Name
of use this form for proposals to drill of Use *APPLICATION FOR PERM	or to deepen or reentry to a different reservoir.  MIT* for such proposals	ļ
	SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
e of Wel		
Oil Gas INJECTION Other		8-6-
ne of Operator		Hawk B 1 Well #14
DNOCO, INC.		a API Wel No.
ress and Telephone No		20 005 77950
Desta Cr., Suite 100W, Midland, TX 7970	05-4600, 95-686-5424 or 95-684-638	30 025 22859
ation of Well (Footage, Sec., T., R., M., or Surve		Blinebry Off & Gas
rface: 980 FSL & 980 FEL cation: Sec 8, T2IS, R37E		11. County or Panels, State  DHC-/627  Lea County, NM
CHECK APPROPRIATE BOX(s)	) TO INDICATE NATURE OF NOTICE, REPORT.	OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIO	ON .
Notice of intent	X Abendonment	Change of Plans
	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Aftering Casing	Conversion to Injection
		Dispose Water
		Prote: Report require of multiple completion on Wall
		Completion or Recomplation August and Log form.)
scribe Proposed of Completed Operations (Clear directionally disilled, give subsurface locations an	nly kitäte alli piertrhent cielains, and give pertanent dates, lifdfulding estimated nd measured and true vertical depths for all markets and zones pertinent t	date of starting any proposed work, it well is to this work )*
9-17-97 through 10-17-97: Tried to a	clean out hole for repairs. Abandoned,	

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT -" for such proposals

10 Desta Cr., Suite 100W, Midland, TX 79705-4500, 95 686-5424 or 95 684-6384 4 Location of Well (Footage, Sec., T., R., M., of Suivey Description)

980 FSL & 1980 FEL Sec 8, 1215, R37E Surface:

TD: Same

10-20-97: POH w/rods and all tubing.

10-22-97: GIH w/retainer set @ 3400', pump 67 bbls Class C w/2% CaCl, sting out of retainer, spot 6 sx on tool. Circulate wellbore w/P&A mud. PUH to 2567' spot 25 sx cement plug, POOH, RUWL, shoot squeeze holes @: 1372', dig out surface casing valve. SION.

10-23-67: Pump 25 sx cement plug across perf @ 1372', POH laying down tbg, RUWL, shoot squeeze holes @ 350', RDWL, establish circulation up surface casing. Pump 175 sx cement down production casing, circuatte up surface casing. Shut surface valve, squeeze to 300#, RD BJ. Rig down & move off. Marker to be installed.

Cement Retainer @ 3400 Cement Plug @ 2567* Cement Plug @ 1404'

Cement Plug @ 350 14. | hereby certify that the loregon

(This space for Federal or State office use

REGULATORY AGENT

Approved by PIC SGUI GARY GOUPLES TIME Conditions of approval, # 479:

HOR FLOW ENGINEER

JAN 13 1998

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictibious or fraudulent statements or representations as to any matter within its junisdiction.

See instruction on Reverse Side

DIST: BLM(5) NMOCD(1)

TO

Form 3160-5

UNITED STATES DEPARTMENT OF THE INTERIOR N.M. Oil ">n

P. ... 1960

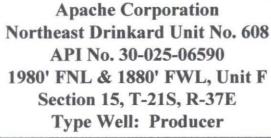
FORM APPROVED

Hobbs, NM 88241 Budget Bureau No 1004-0135 (June 1990) **BUREAU OF LAND MANAGEMENT** Expires: March 31, 1993 Lease Desgnation and Serial No. NM 901610 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT -- for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1 Type of Well INJECTION 2. Name of Operator Hawk B1 Well #14 9. API Well No. CONOCO, INC. 30 025 22859 10 Desta Dr., Suite IDOW, Midland, TX 79705-4500, 9IS 688-5424 or 4 Location of Well (Footage, Sec., T., R., M., or Survey Description) Blinebry Oil & Gas Surface: Location: 1980 FSL & 1980' FEL Sec 8, T2IS, R37E 11 County or Perish State TD: Same Lea County, NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Change of Plans Notice of Intent Recompletion Plugging Back X | Subsequent Report Water Shut-Off Casing Repair Convention to Intection Attenno Casino Final Abandonment Notice X Other: Remedial Dispose Water T3. Describe Proposed of Dimpletor Operating State at pertinent details, and give pertinent dates, including estimated date of starting sky proposed work. If well is directionally drives the substitutes longitude and measured and true vertical depths for all markers and zones pertinent to this work.)* 9-17-97: MIRI, pum stuckt werked free, POH laying down rods. SION.
9-18-97: POH with a strape of 500', POH - GIH w/shoe, SION.
9-19-97: GIH w/ort & strape of 500', POH - GIH w/RBP & Pkr, set RBP @ 4310', set pkr @ 4010', test San Andres squeete, spot acid of the strape of the squeeze holes @ 4060', RDWL, GIH w/Z@ CaCl2, POH w/pkr. SION.
9-22-97: Spot acid of the risk squeeze holes @ 4060', RDWL, GIH w/Z@ CaCl2, POH w/pkr. SION. 9-23-97: GiH w/bit, tag cmt @ 4003', DO to 4203', test csg. - spot 50 sx CI C w/2%. WOC - SION. 9-24-97-10-9-97: Clean out/drill cement to 4158', test csg 500#, down60#/50 min. 10-10-97: Latch on to RBP, could not release plug, rig up wireline, cut tog @ 4295', POH, clean to plug. SION. 10-13-97-10-15-97; Latch on & release RBP, clean out & circulate to 6277, cut cement core. POH. SION> 10-15-97-10-17-97: Mill to 3585', quit making hole, POH w/OE tbg, tag @ 3590', tbg dragging up hole to 3534'.POH, SION. 10-20-97: GIH w/rods, POH laying down, lay down all excess tbg. SION. Evaluation. Sear Corran 14. I hereby certify that th ORIG. SGD.) GARY GOURLE Ann E Ritchie REGULATORY AGENT Date - ID-23-97 Tale (This space for Federal Title Approved by Conditions of approval, Il any:

Tale 18 U.S.C. Section 1001, makes it is crime for any person knowingly and wilfully to make to any department or agency of the United States any false, actibious or fraudulent statements or representations as to any matter within as jurisdiction

See Instruction on Reverse Side

DIST BLM(5) NMOCD(1)



17 ½" Hole. 13 3/8" csg. set @ 315' Cemented w/325. Cement circulated to surface.

Date Drilled: 7/51 Date PA'd: 10/01

Perforate 5 ½" csg. @ 365'. Cement to surface w/300 sx.

Set 25 sx. cmt. plug @ 1,300' Tagged @ 1,055'

11" Hole; 8 5/8" csg. set @ 2,805' Cemented w/500 sx. Cement circulated to surface

Perforate 5 ½" csg. @ 2,855'. Set 25 sx. cmt. Tagged @ 2,798'

TOC @ 4,700' by T.S.

CIBP @ 5,500' w/ 35' cmt. Tagged @ 5,476'

Blinebry-Tubb-Drinkard Perforations: 5,556'-6,613'

CIBP @ 6,620'

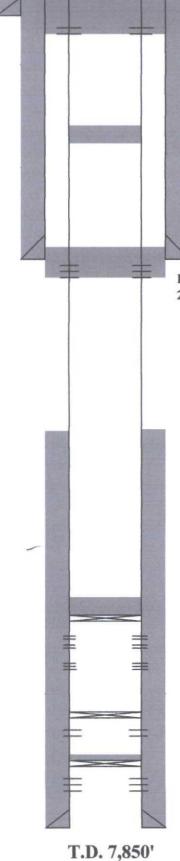
Abo Perforations: 6,747'-7,395'

CIBP @ 7,520' + 30' cmt.

Hare Perforations: 7,550'-7,814"

7 7/8" Hole; 5 ½" csg. set @ 7.850' Cemented w/350 Sx. TOC @ 4,700' by T.S.

Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-NEDU 608



Submit 3 Copies to Approviate District Office

#### State of New Mexico Energy, Minerals and Natural Resouces

DISTRICT

1625 N. French Dr., Hobbs, NM 88240

DISTRICTAL 811 South First, Artesia, NM 88210

DISTRICTAL

1000 Rin Brazos Rd., Aztec, NM 87410

DISTRICT (V 1220 South St. Francis Dt., Santa Fe, NM 87505

FORM C-103 Revised March 25, 1999 OIL CONSERVATION DIVISION 30-025-06590 1220 South St. Francis Drive Santa Fe, NM 87505 hylicate Type of Lea **☑** STATE ☐ FEE State Off A City Lette No. 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., Northeast Drinkard Unit . Type of Well: OIL WELL GAS WELL OTHER L Name of Operator 608 Apache Corporation Eunice N., Blinebry-Tubb-Drinkard Ste. 100, Houston, Texas 77056-4400 2000 Post Oak Blvd. North 1880 West

37E 215 NMPM Range 3441' GR

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

NOTICE OF INT	LENTION TO:	SORSEQUENT REPO	RIUF:
Perform Remedial Work	Plug and Abandon	Remedial Work	Altering Casing
Temporarily Abandon	Change Plans	Commence Orilling Operations	☑ Plug and Abandonment
Pull or Alter Casing	•	Casing Test and Cement Job	
Other		Other	

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.

10/5/2001

MIRU Fleet Cementers. Circulate well w/ 95.# mud. Run in hole w/ 4" casing gun. Tag cement on top of CIBP @ 5476'. Pull up hole to 2855' and perforate. Run in hole to 2855' and pump 25 sx cement. Wait on cement and tag @ 2798'. Pull up hole to 1300'. Spot 25 sx cement plug. Wait on cement and tag @ 1055'. Run in hole w/ 4" casing gun and perforate @ 365'. Run in hole to 385'. Break circulation. Circulate 300 sx cement to surface inside and outside casing. Install P&A marker. Clean location.



I bereby certify that the information above is true and SKINATURE	d complete to the best of my knowledge and f	dect.	Sr. Engineering	Technician DAT	в 11/5/2001
TYPE OR PRINT NAME DEBTA J. A	nderson			TELEPHONE NO	. 713-296-6338
(The space for Stafe Use)  APPROVED BY  CONDITIONS OF APPROVAL, IF ANY:	Relinson	COMPLIANC	E OFFICER	JEB 2	5 2003
CONDITIONS OF APPROVAL, IF ANY:		- <del></del>	r><1		

Submit 3 Copies to Approvate District

### State of New Mexico

Office	Energy, Minerals and Na	tural Resouces		
DISTRICT				FORM C-103
1625 N. French Dr., Hobbs, NM 88240 DISTRUCT II	OIL CONSERVATION	NOISION	WELL API NO.	Revised March 25, 1999
811 South First Artesia, NM 88210	1220 South St. Fran	· · · ·	30-025-06590	)
PRINCE	Santa Fe, NM 8	7505	3. Inducate Type of Lease	
1100 Pio Brazos Rd., Aztec, NM 87410			<b>✓</b> \$1.	ATE PEE
DISTRICT IV 1220 South St. Francis Dr., Santa Fe, NM 87505			6. State Oil & Gta Lease No.	
	CES AND REPORTS ON WEL	18		
(DO NOT USE THIS FORM FOR PROPOS		=	7. Lease Name or Unit Agreem	ent Name
DIFFERENT RESERVOIR, USE "APPLICA				
PROPOSALS.)  1. Type of Well:	<del></del>	<del></del>	Northea	st Drinkard Unit
1	SAS WELL OTHER		j	
2. Name of Operator			H. Well No.	
Apache Corporation				508
3 Address of Operator	7 77 77055 4400	•	9. Pool name or Wildran Eunice N., Blinebr	r Tubb Drinkand
2000 Post Oak Blvd., Ste. 100, Hou 4. Well Location	ston. Texas. 7/056-4400		isumee iv., Billieur	y-1 dob-Dilikald
Unit Letter F : 19	80 Feet From The North	Line and 1880	Feel From The West	Linte
Section 15 Township		7Е кмрм	Lea comm	y
	10. Elevation (Show whether DF, RKB, I	RT, GR, ac.)		
II.	Check Appropriate Box	to Indicate Nature of Notice,	Report, or Other Data	<u> </u>
NOTICE OF INTENT			SEQUENT REPORT	OP:
ma con a succession	Ellow and Abandon	Remedial Work		Called Carles
Perform Remedial Work	✓ Plug and Abandon			Altering Casing
Temporarily Abandon	Change Plans	Commence Drill	ing Operations	Plug and Abandonment
Pull or Alter Casing		Casing Test and	Cement Job	
Other		Other		
		<u> </u>		
12. Describe proposed or completed op				
of starting any proposed work). Si	E RULE 1103. For Multiple Corr	pletions: Attach wellbor	re diagram of propose	d completion
or recompletion.				
Apache Corporation proposes to Plu	is and Ahandon the Northeast I	Drinkard Unit # 608	The well is currently	v TA'd with a CIRP @
5500' w/ 35' cement cap. The previ	<del>-</del>			•
in December 1997. Apache request				
Apache pulled the RBP @ 5534' in				
•	•		-	
		THE COMMISSION		
		HOURS PRIOR TO		
		TO BE APPROVED		
I hereby certify that the information above is true and con	implete to the best of my knowledge and behef.		and a Tart	· n/f Mnn ·
SIGNATURE	X MAN DUNK	me Sr. Engin	eering Technician	DATE 10/5/2001
	erson		TELE	PIIONE NO. 713-296-6338
Thus appece for State (50)		•		.e
APPROVED BY CONDITIONS OF APPROVAL IF ANY:	TITLE		DA	IE
COMPRISONS OF ALL KOYAL IF ANT:				

All the second of the second o

T.D. 8,145'

Perforate 5 ½" csg. @ 100'. Circulate to surface w/50 sx. Apache Corporation
Northeast Drinkard Unit No. 601
API No. 30-025-06614
600' FNL & 990' FWL, Unit D
Section 15, T-21S, R-37E
Type Well: Producer

17 ½" Hole. 13 3/8" csg. set @ 293'
Cemented w/300 sx.
Cement circulated to surface.
Set 25 sx. cmt. plug 200'-400'

Date Drilled: 7/52 Date PA'd: 10/11

Set 25 sx. cmt. plug @ 1,306'

Set 25 sx. cmt. plug @ 2,246'

11" Hole; 8 5/8" csg. set @ 2,990' Cemented w/2000 sx. TOC @ 160'

Perforate 5 1/2" csg. @ 3,040'. Unable to squeeze. Set 40 sx. cmt. plug. Tag @ 2,740'

Perforate 5 1/2" csg. @ 4,032'. Unable to squeeze. Set 25 sx. cmt. plug. Tag @ 3,855'

Csg. leaks @ 4,320'-4,350' Squeezed w/250 sx.

Csg. leaks @ 4,943'-4,974' Squeezed w/350 sx.

Csg. leaks @ 5,360' Squeezed w/325 sx.

TOC @ 5,380' by T.S.

Set 50 sx. cmt. Plug 5,113'-5,620' CIBP @ 5,640' + 20' cmt.

Blinebry-Tubb-Drinkard Perforations: 5,679'-6,704'

CIBP @ 7,900' + 2 sx. cmt.

Ellenburger Perforations: 7,988'-8,956'

6 3/4" Hole; 5 1/2" csg. set @ 8,142'

Cemented w/350 Sx. TOC @ 5,380' by T.S.

Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-NEDU 601

Submit 3 Co	opies To Appropriate District	State of New Me	exico	Form C-103
District !	ench Dr., Hobbs, NM 88240	Energy, Minerals and Natu	ral Resources	WELL API NO.
District II	HOBBS	OIL CONSERVATION	DIVISION	30-025-06614
	ench Dr., Hobbs, NM 88240  LOBB  and Ave, Artesia, NM 88270  razos Rd, Aziec, NM 87412-7	1 MH	ncis Dr.	5. Indicate Type of Lease STATE FEE
District IV	AND KEE , AMERICA THE BY	Santa Fe, NM 8	7505	6. State Oil & Gas Lease No.
1220 S St 1 87505	Francis Dr., Santa Fe, NM			BD-9188
(DO NOT L	JSE THIS FORM FOR PROPOSA	AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PL	UG BACK TO A	7. Lease Name or Unit Agreement Name Northeast Drinkard Unit
PROPOSAL	LS)	TION FOR PERMIT" (FORM C-101) FO	OR SUCH	8. Well Number 601
	Name of Operator	as well Onlet		9. OGRID Number
	Apache Corpo	ration /		873
1	ss of Operator eterans Airpark Lane, St	e. 3000, Midland, TX 79705		10. Pool name or Wildcat  Eunice, Blinebry-Tubb-Drinkard, N.
4. Well l	ocation		<del></del>	
	Jnit Letter D : 600			from the W line
	Section 15 Township	21S Range 371 11. Elevation (Show whether DR		County Lea
		3459' G		
Pit or Below	-grade Tank Application 🗋 or (			
Pit type	Depth to Groundwate	rDistance from nearest fresh w	nter well Distance	e from nearest surface water_N/A
Pit Liner Th	nickness: mil	Below-Grade Tank: Volume	bbls; Constr	uction Material
	· · · · · · · · · · · · · · · · · · ·	propriate Box to Indicate N	lature of Notice	Report or Other Data
	NOTICE OF IN	•		BSEQUENT REPORT OF:
PERFOR	NOTICE OF INT M REMEDIAL WORK □	PLUG AND ABANDON	REMEDIAL WO	
	ARILY ABANDON	CHANGE PLANS		RILLING OPNS. P AND A .
	ALTER CASING	MULTIPLE COMPL	CASING/CEME	= <i>\begin{array}{c} - \lefta \rightarrow - \lefta \</i>
		MOLTIPLE COMPL	OTHER:	N1 30B
	drill out & add Plugs			
				d give pertinent dates, including estimated date trach wellbore diagram of proposed completion
	recompletion	•	•	
10/19/11	Tag TOC @ 5,620	-57	•	Approved for plugging of well bore only.  Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging)
10/11/11	Tbg @ 5,620' - Circ hole Spot 50sx cmt @ 5,620'.	w/MLF. Test csg-OK. DISPlaced to	5113.	which may be found at OCD Web Page under Forms, www.mnrd.state.nm.us.ocd.
		,	112 % car	<del></del>
10/12/11	Perf @ 4,032' – unable t Perf @ 3,040' – unable t	o Sqz. Tbg @ 4,082' - Spot 25s: o Sqz. Tbg @ 3,090' - Spot 25s:	c.cmt – Tag @ 2,74	85' Spot 40 St cmt.
10/13/11				
10/13/11	The @ 1.306' - Shot 25:	number No too her	- 00 J	vark whitaker
	Tbg @ 400' - Spot 25sx Perf @ 100' - Circ 50sx	cmt - Tag @ 200'	ntoft w	nark WhitaKer tin PH, ounchors, clean
٠	location. I	nsfall dry hol	emarke	2r ·
	-			
				e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATU	RE	TITLE P&A	rechnician (E	Basic Energy Services) DATE 10-18-11
Type or pri		E-mail address:		Telephone No. 432-563-3355
APPROVE		TITLE	STATE M	97 DATE 0-25-20
Conditions	of Approval (if any).			DATE 0-25-20
				\ 001.2.5

T.D. 8,012'

Fill 8 5/8" casing to surface w/7 sx.

Set 92 sx. cmt. plug 375'-25'

Apache Corporation ARGO No. 10 API No. 30-025-06606 1880' FSL & 760' FWL, Unit L Section 15, T-21S, R-37E Type Well: Water Supply

17 ¼" Hole. 13 3/8" csg. set @ 241' Cemented w/250 sx. Cement circulated to surface.

Date Drilled: 7/51
Date PA'd: 11/11

Set 50 sx. cmt. plug 1,088'-1,250'. Tagged

11" Hole; 8 5/8" csg. set @ 2,907' Cemented w/1700 sx. Cement circulated to surface

Set 90 sx. cmt. plug 2,522'-2,962'. Tagged

CIBP @ 3,960' + 35 sx. cmt. TOC @ 3,834'

San Andres Perforations: 4,016'-4,100'

CIBP @ 6,375' + 35' cmt.

Drinkard Perforations: 6,421'-6,498'

CICR @ 6,530'. Squeezed casing leaks 6,550'-6,680' w/250 sx. cmt.

.,....

CICR @ 6,680'

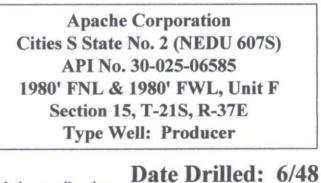
Abo Perforations: 6,686'-7,214'

CIBP @ 7,600' + 1 sx. cmt.

Hare Perforations: 7,647'-7,960'

7 7/8" Hole; 5 ½" csg. set @ 2,660'-8,912' Cemented w/875 Sx. TOC @ 2,660' Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-ARGO No. 10

Submit 3 Copies To Appropriate District Office	State of New Mexi		Form C-1
"District I 1625 N French Dr., Hobbs, NM 88240	Energy, Minerals and Natura	Resources WELL AP	May 27, 2
	OCDOIL CONSERVATION D	MATSION 30-025-066	506
District III	1220 South St. Franci	- D-	Type of Lease
1000 Rio Brazos Rd , Aztec, NM 87410		317	TE ☐ FEE ☒ I & Gas Lease No.
District IV 1220 S St. Francis Dr , Santa Fel NM 87505	5 2011 Santa Fe, NM 875	b. State O.	1 & Gas Lease No.
SUNDRY NOT (DO NOT USE THIS FORM FOR PRESE	GES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG	7. Lease N BACK TO A Argo	ame or Unit Agreement Nam
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FOR	SUCH	
1. Type of Well: Oil Well	Gas Well Other	8. Well No	10
2. Name of Operator	Apache Corporation	9. OGRID	Number 873
3. Address of Operator 303 Veterans Airpark Lane, Ste. #3			ame or Wildcat Andres (96221) 7808
4. Well Location			/ / /
Unit Lette L :	1880 feet from the S line	and 760 feet from the	W line
Section 15 Town		37E NMPM	County Lea
and the second section of the second section of the second section of the section	11. Elevation (Show whether DR, R 3453' DF	KB, RT, GR, etc.)	
Pit or Below-grade Tank Application o			1 10 1 10 10 10 10 10 10 10 10 10 10 10
Pit typeDepth to Groundwa	aterDistance from nearest fresh water	well Distance from nearest	surface water_N/A
Pit Liner Thickness: mil	Below-Grade Tank: Volume	bbls; Construction Materia	
	Appropriate Box to Indicate Nat	ure of Notice, Report or	Other Data
	ITENTION TO:		NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	☐ ALTERING CASH
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING OP	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JOB	
OTHER:		OTHER:	
	eted operations. (Clearly state all per rk). SEE RULE 1103. For Multiple		
or recompletion.	ik). GEE ROEE 1105. 101 Manipio	Completions. Tracell wellook	diagram or proposed comp.
10-28-2011- MIRU Plugging Equip	oment: į, ii		
	334 ft. Circulate 5 ½ x 8 5/8 casing w		
	from 2962 ft. Across 5 ½ liner top a	& up inside 8 5/8 casing. W	OC .
Tag cement plug @ 2:	522 it. from 1250 ft. WOC, Tag cement plo	ng @ 1088 ft //	
11-1-20124 Spot 92 sacks cement	from 375 ft. Left top of cement @ 2	5 ft. NDBOP. Fill 8 5/8 well	bore W/ 7 sacks cement to
surface. Cut-off wellh	ead & anchors. Clean location. Inst		
11-1-2013- RDMO plugging equi	pment. Approved for pruggi	ng or well bore only.	
I		is retained pending receipt is Report of Well Plugging)	
·	which may be freeted	at CCD With Page under	
hereby certify that the information	above is true and complete to the best	of my knowledge and belief	I further certify that any pit or h
grade tank has been/will be constructed or	closed according to NMOCD guidelines 🖾,	a general permit 🔲 or an (attached	) alternative OCD-approved plan
CICNIATURE //	444 /	· · · · · · · · · · · · · · · · · · ·	> DAMP (1864)
SIGNATURE	TILE P&A Sur	pervisor (Basic Energy Serv	<u>ces)</u> DATE <u>11/8/11</u>
Type or print name:	E-mail address:	Telephone	No. 432-563-3355
For State Use Only		· · · · · · ·	
9 15			
		- affer and	- سر ، د
	TITLE	nati mas	DATE/1-65-0
APPROVED BY: Conditions of Approval (if any):	TITLE_S	nati mest	DATE//-/5-C
	TITLE_S	raft rage	DATE//-/5-0
	TITLE_S	raft rage	DATE//-/5-2



Date PA'd:

9/11

17 ¼" Hole. 13 3/8" csg. set @ 297'. Cemented w/300 sx. Cement circulated to surface.

Perforate @ 347'. Establish circulation on all casing strings. Squeeze to surface w/280 sx. cmt.

TOC @ 675'

Perforate 5 ½" csg. @ 1,563'. Packer @ 1,052'. Squeeze w/50 sx. Tagged @ 1,402'

11 ¼" Hole; 8 5/8" csg. set @ 2,791' Cemented w/500 sx. TOC @ 675'

Perforate 5 ½" csg. @ 2,841'. Packer @ 1,976' Squeeze w/135 sx. cmt. Tagged @ 2,220'

TOC @ 3,050'

Set 25 sx. cmt. plug @ 3,984'
Tagged CIBP + 35' cmt. @ 3,984'
San Andres Perforations: 4,061'-4,900'

Csg. leaks @ 5,030' squeezed w/200 sx. cmt.

TOC @ 5,120'

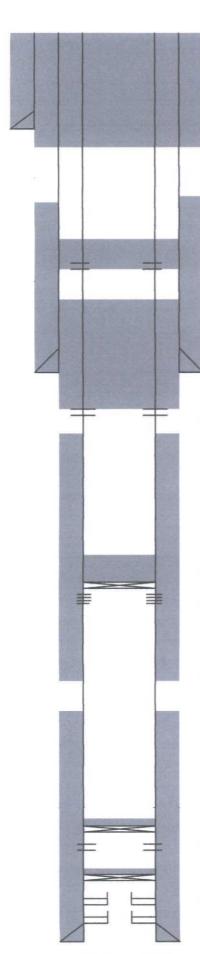
CIBP @ 5,990' + 35' cmt.

Tubb Perforations: 6,044'-6,235'

CIBP @ 6,500' + 35' cmt.

Stuck packers @ 6,586' & 6,530'

7 7/8" Hole; 5 ½" csg. set @ 6,586' Cemented w/125 Sx. TOC @ 5,120' by T.S. Apache Corporation Form C-108: 8 Wells-WBDU PA Schematic-NEDU 607S



T.D. 6,676'

Which man be found at OCD Web Page under   Page under	Submit 3 C	Copies To Appropriate District	State of N				Form C-103
District		ench De Hobbe NM 98340	Energy, Minerals at	nd Natural i	Resources	WELL APLNO	May 27, 2004
1205 St. Fancis Dr.   Santa Fe, NM 87505   Santa			A AMEL CONCEDIU	TION DI	MOION		025-06585
Same Fr., Note   Same Fr., Note   Same Fr., Note   Same Fr., Note   Same   Sa	LOGO RIO B	Renzos Rd. Aztoc NM 87410	1220 South 8	st. Francis	Dr.		FEE [
SUNDRY NOLICES AND REPORTS ON WELLS   CONOTUSE THIS FORM FOR PROSENT SORT NOT DEPERFOR PLUS BACK TO A   DIFFERENT RESERVOR USE "APPLICATION FOR PERMIT GORN C-10 J FOR SUCH   PROPOSALS	District IV 1220 S St.	Francis Dr , Santa Fe, NSEP 2	0 2011 Santa Fe,	NM 8750:	5		į.
1. Type of Well: Oil Well   Gas Well   Other   S. Well Number   2	(DO NOT	SUNDRY NOTICE USE THIS FORM FOR PROPES	ES AND REPORTS ON	WELLS N OR PLUG B C-101/FOR SI	ACK TO A JCH		
2. Name of Operator  Apache Corporation  3. Address of Operator  33 Veterans Airpark Laue, Stc. 3000, Midland, TX 79705  4. Well Location  Unit Letter F: 1980 feet from the N line and 1980 feet from the W line  Section 15 Township 21S Range 37E NMPM County Lea  11. Elevation (Show whicher DR, RKB, RT, GR, etc.)  3435' GR  Pit type Depth to Groundwater Distance from sacrest feat water well Distance from nearest surface water NA Pit Liner Tokkeass:  12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   CHANGE PLANS   COMMENCE DRILLING OPNS   PAND A STEPPORT OF Starting any proposed work). SEE RULE 1103. For Multiple Completions:  Attach wellbore diagram of proposed 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.  Approved by Easter (1952). Est circ. Sqz 135 sxs cmt. Woc overnight. Tag @ 2220'.  10/8/11 (4) Perf @ 1563'. Packer @ 1952'. Est circ. Sqz 135 sxs cmt. Woc overnight. Tag @ 2220'.  10/8/11 (6) Verify cement to surface. RDMO. P & A'd. Cut off Why Inches the Start of Starting and Proposed or complete on proposed or complete on proposed system of the Packer of Starting and Proposed or Starting and Proposed system of Starting and Proposed work). SEE RULE 1103. For Multiple Completions:  Attach wellbore diagram of proposed completion or recompletion.  Approved by East of Starting and proposed work in the Starting Approved by Start			Cas Wall C Other	1	-	8. Well Number 2	
13. Address of Operator   303 Veterans Airpark Lane, Ste. 3000, Midland, TX 79705   10. Pool name or Wildeat   Hare; San Andres (Gas)		Name of Operator		/		9. OGRID Number 87	73
Unit Letter   F : 1980   feet from the   N   line and   1980   feet from the   W   line   Section   15   Township   21S   Range   37E   NMPM   County   Lea	3. Addre	ess of Operator		ınd, TX 797	05		/
Unit Letter F: 1980 feet from the N line and 1980 feet from the W line Section 15 Township 21S Range 37E NMPM County Lea  11. Elevation (Show whether DR, RKB, RT, GR, etc.)  3435' GR  Pit to Below-grade Tank Application Dor Coigne Distance from nearest fresh water well Distance from nearest surface water N/A below-Grade Tank: Volume bbbs; Construction Material  12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data  NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   CHANGE PLANS   COMMENCE DRILLING OFNS.   PAND A	4. Well	<del></del>		<del> </del>		<del></del>	
Pit of Below-grade Task Application   or Closure   Distance from nearest fresh water well   Distance from nearest surface water   NA   Distance from nea			feet from the N line	and 1980	feet from the	W . line	
Pit type		Section 15 Township	21S Range	37E	NMPM	County L	æa
Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface waterN/A			·		B, RT, GR, etc.)		
Pit Liner Tbickness:    mil   Below-Grade Tank: Volume   bbls;   Construction Material	Die au Dat	and Tank Arelinder		5' GR			
Pit Liner Thickness:   mil   Below Grade Tank: Volume   bbli;   Construction Material		·		4 G-4-L		#	N/A
NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMEDIAL WORK   ALTERING CASING   COMMENCE DRILLING OPNS.   PAND A   ALTERING CASING   CASING/CEMENT JOB   OTHER:   OTH			<del></del>	i ilesu mater A	·	-	TVA
NOTICE OF INTENTION TO:  PERFORM REMEDIAL WORK   PLUG AND ABANDON   REMEDIAL WORK   ALTERING CASING   COMMENCE DRILLING OPNS.   PAND A   CASING/CEMENT JOB   OTHER:	Pit Liner 11						<u></u>
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Notify OCD - Move in.    Notify OCD - Move in.   With the proof of Well Plugging which mare be found at OCD Web Page under Page under Well Rubing. Tag existing CIBP @ 3984'.   Och I with mare be found at OCD Web Page under Calc.     Och I	0	r recompletion.				Approved for plugging of we	ll bore only.
20/6/11 (1) RIH tubing. Tag existing CIBP @ 3984'.  20/7/11 (2) Tubing @ 3984'. Mix/load w 10# mlf. Spot 25 sxs cmt. As per Mark w/OCD 3731' caf toc.  (3) Perf @ 2841'. Packer @ 1976'. Est circ. Sqz 135 sxs cmt. Woc overnight. Tag @ 2220'.  20/8/11 (4) Perf @ 1563'. Packer @ 1052'. Est circ. Sqz 50 sxs cmt w/3% CACL. Woc 4hrs. Tag @ 1402'.  (5) Perf @ 347'. Est circ on all strings. Pump 280 sxs cmt down 5 ½" & out 8 5/8" x 13 3/8" to surf.  20/9/11 (6) Verify cement to surface. RDMO. P & A'd. Cut off with, an chors, clean  10/9/11 (6) Verify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-trade tank has been/will be constructed or closed according to NAOCD guidelines A general permit or an (attached) alternative OCD-approved plan .  SIGNATURE  TITLE P & Basic Energy Services DATE 9-14-2011  E-mail address:  Telephone No. 432-563-3355  Telephone No. 432-563-3355	9/2/11 N	lotify OCD – Move in.				which may be found a com	of Well Plugging)
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(5) Perf @ 347'. Est circ on all strings. Pump 280 sxs cmt down 5 1/2" & out 8 5/8" x 13 3/8" to surf.  (6) Verify cement to surface. RDMO. P & A'd. Cut off with, anchors, clean  (acat wo. Insfall try hole marker.  (becat wo. Insfall try hole marker.  (can bereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-trade tank has been/will be constructed or closed according to NIOCD guidelines a general permit or an (attached) alternative OCD-approved plan of the print name.  (SIGNATURE TITLE P& A (Basic Energy Services) DATE 9-14-2011  (Signature Date 7-2/-20/1)  (APPROVED BY TITLE STATION DATE 7-2/-20/1)							
10/9/11 (6) Verify cement to surface. RDMO. P & A'd. Cut off with, anchors, clean   location. Install dry hole marker.   chereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-trade tank has been/will be constructed or closed according to NAOCD guidelines , a general permit or an (attached) alternative OCD-approved plan   1.     SIGNATURE	9/8/11 (4	1) Perf @ 1563'. Packer @ 5) Perf @ 347' Fet circ on	1052'. Est circ. Sqz 50 s	xs cmt w/3%	6 CACL. Woc 4h	nrs. Tag @ 1402'.	
hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-trade tank has been/will be constructed or closed according to NAOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .  SIGNATURE  TITLE P&A (Basic Energy Services) DATE 9-14-2011  Type or print name Gary Eggleston  E-mail address:  Telephone No. 432-563-3355  For State Use Only  APPROVED BY  TITLE STATIONAL DATE 7-21-20/1		*					un.
hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-trade tank has been/will be constructed or closed according to MOCD guidelines [2], a general permit [2] or an (attached) alternative OCD-approved plan [2].  SIGNATURE  TITLE P&A (Basic Energy Services) DATE 9-14-2011  Type or print name Gary Eggleston E-mail address: Telephone No. 432-563-3355  For State Use Only  APPROVED BY  TITLE DATE DATE 2-2-20/1	-		· ·				
TITLE P&A (Basic Energy Services) DATE 9-14-2011  Signature  Gary Eggleston  E-mail address:  Title Signature  DATE 7-21-20//							
Type or print name Gary Eggleston E-mail address: Telephone No. 432-563-3355  For State Use Only  APPROVED BY: DATE 7-21-20/1							
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			ті	TLE 🧾	PHFM	DAT DAT	9-21-2011
			ТІ	TLE <i>S</i>	PIFM	<b>QZ</b> DAT	<u>9-21-20</u> 11



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a

water right file.)

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

C=the file is closed)

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

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

(In feet)

• ,	,	, ,						_				-	-
	POD Sub-	-	0	Q	۵	-					Depth	Deoth	Water
POD Number	Code basin			-	-		Tws	Rng	X	Y			Column
CP 00251		LE	2	3	4	22	215	37E	674099	3592915* 🚱	103		
CP 00252		LE	4	2	4	22	218	37E	674493	3593125* 🚱	106		
CP 00552		LE		2	4	04	218	37E	672700	3598022* 🚱	90	75	15
CP 00553		LE		2	4	04	21\$	37E	672700	3598022* 🚱	90	75	15
CP 00554		LE		2	2	16	218	37E	672744	3595610*	80	70	10
CP 00881		LE		4	4	22	218	37E	674402	3592824* 🚱	95	53	42
CP 00895		LE		1	1	20	218	37E	669957	3593956* 😜	163		
CP 01026 POD1		ŁE	1	1	3	17	218	37E	669809	3594958	167	95	72

Average Depth to Water:

73 feet

Minimum Depth:

53 feet

Maximum Depth:

95 feet

**Record Count: 8** 

PLSS Search:

**Section(s):** 3, 4, 8, 9, 10,

Township: 21S

Range: 37E

15, 16, 17, 20, 21, 22

Apache Corporation
Form C-108: 8 Wells-WBDU
Fresh Water Data
State Engineer

*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.



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

Receiving Date: 05/22/08 Reporting Date: 05/23/08 Project Number: NOT GIVEN Project Name: NOT GIVEN

Project Location: WATER TEST FOR WEBA WTR. FLOOD

Sampling Date: 05/20/08

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: HM/KS

		TDS	CI
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)

ANALYSIS DA	NTE:	05/22/08	05/22/08
H14853-1	SP2 WTR WELL - WW WEATHERLY	1,320	416
H14853-2	SP3 WTR WELL WEST OF HOUSE	918	244
Quality Contro	) See 12	NR	500
True Value Qu		NR	500
	, , <u>, , , , , , , , , , , , , , , , , </u>	NR	100
% Recovery			

Chemist Japan

25.23 To

Date

160.1 SM4500-CI-B

Apache Corporation Form C-108: 8 Wells-WBDU Fresh Water Well Analysis

METHODS: EPA 600/4-79-020

Oil Conservation Division Case No. Exhibit No. 32A

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim prising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims including those for nectionings and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In the destruction of the production of the applicable services are unless interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, repurdess of whether such claim is besed upon any of the above-stated reasons or otherwise. Results relate only to the earnples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

# Form C-108 Affirmative Statement Apache Corporation WBDU Wells No. 37, 40, 56, 59, 61, 66, 75 & 77 Section 8, 9, 16 & 17, T-21 South, R-37 East, NMPM, Lea County, New Mexico

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

David Catanach

Agent for Apache Corporation

5/29/13

## CERTIFIED MAIL RETURN RECEIPT REQUESTED

TO: OFFSET OPERATORS/LEASEHOLD OWNERS/SURFACE OWNERS

(See Attached List)

Re: Apache Corporation

Form C-108 (Application for Authorization to Inject)

West Blinebry Drinkard Unit

Wells No. 37, 40, 56, 59, 61, 66, 75 & 77

Sections 8, 9, 16 & 17, T-21S, R-37E, NMPM,

Lea County, New Mexico

#### Ladies & Gentlemen:

Enclosed please find a copy of Oil Conservation Division Form C-108 (Application for Authorization to Inject) for the Apache Corporation West Blinebry Drinkard Unit Wells No. 37, 40, 56, 59, 61, 66, 75 & 77. You are being provided a copy of the application as an offset operator, leasehold owner or the surface owner of the land on which one or more of the injection wells are located. Apache Corporation proposes to convert these wells to injection within the existing West Blinebry Drinkard Unit Waterflood Project in order to complete an efficient production/injection pattern within the West Blinebry Drinkard Unit Area ("Unit Area"). The Unit Area and the waterflood project were previously approved by Division Order No. R-12981 dated August 11, 2008. Injection within each of these wells will occur into the Unitized Formation which comprises the Blinbry-Tubb-Drinkard formation from a depth of 75 feet above the stratigraphic Blinebry marker down to the top of the Abo formation (approximately 5,584 feet to 6,690 feet within the Hawk B-1 Well No. 34 located in Unit N of Section 9, T-21S, R-37E).

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

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

Sincerely,

David Catanach-Agent Apache Corporation

303 Veterans Airpark Lane, Suite 3000

Midland, Texas 79705

Enclosure

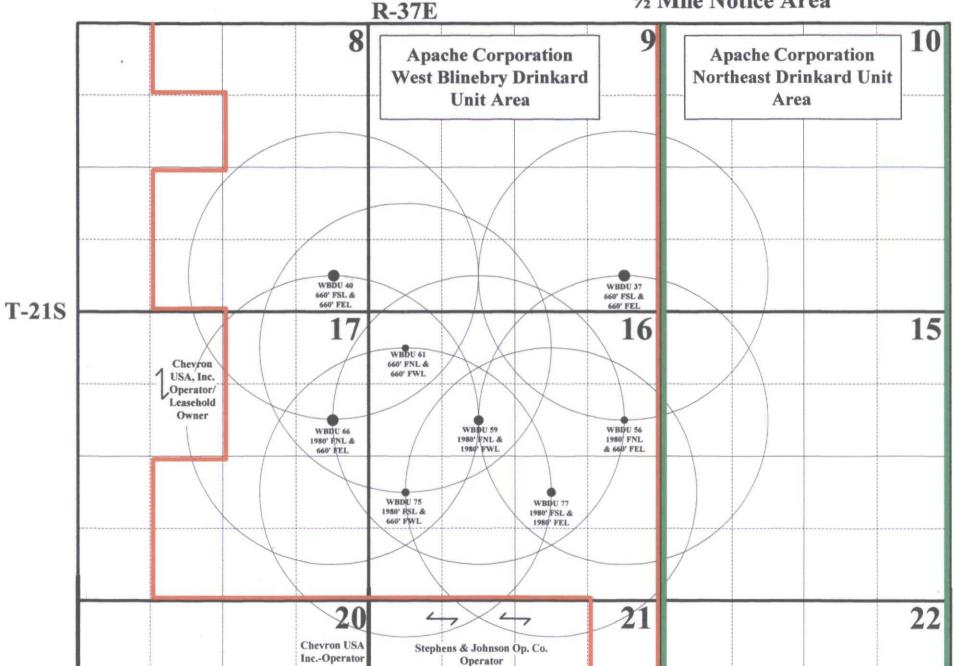
**WBDU** Boundary

**NEDU Boundary** 

**Apache Corporation** Form C-108: WBDU

Wells No. 37, 40, 56, 59, 61, 66, 75 & 77

1/2 Mile Notice Area



## Apache Corporation Form C-108: West Blinebry Drinkard Unit Wells No. 37, 40, 56, 59, 61, 66, 75 & 77 Sections 8, 9, 16 & 17, T-21 South, R-37 East, NMPM Lea County, New Mexico

#### Offset Operator/Leasehold Owner/Surface Owner Notification List (See Attached Map)

All acreage within the ½ mile notice area for the West Blinebry Drinkard Unit ("WBDU") Wells No. 37, 40, 56, 59, 61, 66, 75 & 77 with the exception of the E/2 NW/4 of Section 17, NE/4 NE/4 of Section 20 and the N/2 NW/4 & NW/4 NE/4 of Section 21, T-21S, R-37E is located within Apache Corporation's West Blinebry Drinkard Unit Area, or Apache Corporation's Northeast Drinkard Unit Area, both of which are secondary recovery units within the North Eunice Blinebry-Tubb-Drinkard Pool. Offset operators/leasehold owners within the Blinbry-Tubb-Drinkard interval and surface owners that are being provided notice of this application are described as follows:

#### E/2 NW/4 of Section 17, T-21S, R-37E

Chevron USA, Inc.
Attn: Sandy Stedman-Daniel
P.O. Box 2100
Houston, Texas 77252

#### NE/4 NE/4 of Section 20, T-21S, R-37E

Chevron USA, Inc.

#### N/2 NW/4 & NW/4 NE/4 of Section 21, T-21S, R-37E

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

#### Surface Owner: WBDU Wells No. 56, 59, 61, 75 & 77

Commissioner of Public Lands P.O. Box 1148 Santa Fe, New Mexico 87504-1148

Surface Owner: WBDU Well No. 66

Chevron USA, Inc.

Surface Owner: WBDU Wells No. 37 & 40

Millard Deck Estate #4193 c/o Bank of America, N.A. P.O. Box 1470 Fort Worth, Texas 76102

#### **Additional Notice**

OCD-Hobbs District Office

#### **Affidavit of Publication**

State of New Mexico, County of Lea.

#### I, DANIEL RUSSELL PUBLISHER

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

of 1 issue(s).
Beginning with the issue dated
May 21, 2013
and ending with the issue dated
May 21, 2013

PUBLISHER
Sworn and subscribed to before me this 21st day of

May, 2013

Notary Public

My commission expires January 29, 2015



OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico

My Commission Expires 1-29-15

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.

Legal Notice May 21, 2013

Apache Corporation, 303 Veterans Airpark Lane, Suite 3000, Midland Texas 7970! has flied a Form C-108 (Application for Authorization to inject) with the Oi Conservation Division seeking administrative approval to convert the following-described wells to water injection wells within the West Blinebry Drinkard Unit Waterflood Project, North Eunice Blinebry-Tubb-Drinkard Pool, Les County New Mexico:

WBDU Well No. 37 API No. 30-025-08439, 860' FSL & 660' FEL (Unit P)
Section 9, T-21S, R-37E,
Injection Interval: Approximately 5,585'-6,710' (Perforated)

WBDU Well No. 40 API No. 30-025-06433, 660' FSL & 660' FEL (Unit P)
Section 8, T-21S, R-37E
Injection Interval: Approximately 5,597'-6,758' (Perforated)

WBDU Well No. 58 API No. 30-025-06621, 1980' FNL & 660' FEL (Unit H)

Section 16, T-21S, R-37E

Injection interval: Approximately 5,543'-6,702' (Perforated)

WBDU Well No. 59 API No. 30-025-06626, 1980' FNL & 1980' FWL (Unit F)
Section 16, T-21S, R-37E,
Injection Interval: Approximately 5,580'-6,694' (Perforated)

WBDU Well No. 61 API No. 30-025-06629, 660' FNL & 660' FWL (Unit D)
Section 16, T-21S, R-37E
Injection Interval: Approximately 5,599'-6,726' (Perforated)

WBDU Well No. 66 API No. 30-025-06638; 1980' FNL & 660' FEL (Unit H)
Section 17, T-21S, R-37E
Injection Interval: Approximately 5,572'-6,712' (Perforated)

WBDU Well No. 75 API No. 30-025-08615, 1980' FSL & 660' FWL (Unit L)
Section 16, T-21S, R-37E
Injection Interval: Approximately 5,590'-6,707' (Perforated)

WBDU Well No. 77. API No. 30-025-08618, 1980' FSL & 1980' FEL (Unit J)

Section 16, T-21S, R-37E

Injection Interval: Approximately 5,547'-6,674' (Perforated)

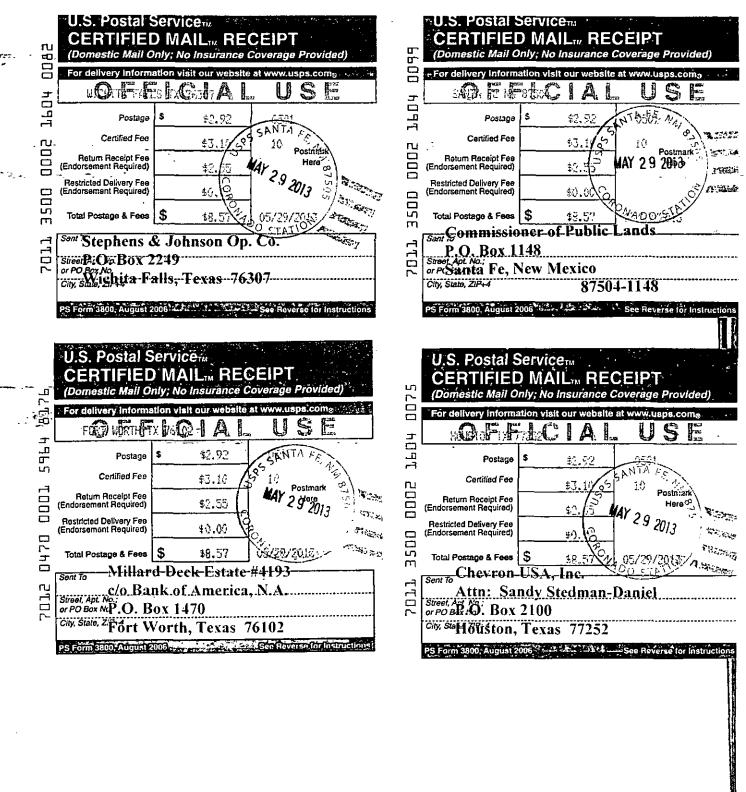
Produced water and San Andres make-up water will be injected into the wells a average and maximum rates of 650 BWPD and 1,500 BWPD, respectively. The initia surface injection pressure is anticipated to be in compliance with the Division's limit of 0.2 psi/ft, and the maximum surface injection pressure will be determined by step rate injection tests.

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

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



	Injection Permit Checklist: Received	20/13 First Email Date:F	Final Reply Date: Suspended?:						
	Issued Permit: Type: WFX/PMX/SWD Number:	913 Permit Date: 0	6/28/13 Legacy Permits or Orders: R-1298/						
E	= (ght total: #37,#40,#56,#59, well Name(s):	#61, #66, #75, #77	West Blineby-Drinkard Unit W	ΒD					
	API: 30-0 See individual well spud	Date 947/1948 New/Old							
	Footages Lo	otUnit Sec Tsp2	S Rge 37E County Lea						
	General Location: WBDU - New EUNIC	e MM Pool: Blines	34 Drinkad Pool No.: 6660 \$1919	0					
	Operator: Apache Corporation	OGRII	D: 873 Contact: David Colonach - Ago	eat					
	COMPLIANCE RULE 5.9: Inactive Wells:	TotalWells: 2785 Fincl Assur:_	Compl. Order No IS 5.9 OK						
	Well-File Reviewed: Current Status: All are	producers June conomic	cal-conversion to injection only	4					
	Planned Rehab Work to Well: Pul production	<u>u</u> 7 ' / /	() 1, (1) (1) (2)	J					
		After Conversion  Are Elogs							
	Sizes (in) Well Construction Details: Borehole / Pipe		Sx or Cf Determination Method						
	Planned _ o Existing Cond	Existing production	- T- · · · · · · · · · · · · · · · · · ·						
	Planned of Existing Surface	Doduction of	The second of th						
	Planned_or Existing_Interm		8						
	Planned_or existing congs		tras for all new 4/2 installation	ر					
	Planned on Existing Liner NA/4 1/2	All wells - surface t	to TD; cont to circulate to Surface	6					
	Planned - or Existing OH / PERF	The second secon	Completion/Ops Details:						
	Injection Strat Column: Depths (ft)	Formation Tops	? Drilled TD PBTD						
	Above Top of Inject Formation	San Andres	Open Hole or Perfs						
_	Above Top of Inject Formation	Glorieta	Tubing Size 23/8 Inter Coated? V						
ζ	Proposed Interval TOP: See individ		Proposed Packer Depth RH2	298					
<u>^</u>	Proposed Interval BOTTOM:	(sexuelle)	Min Packer Depth <a href="#">100 / (100-ft limit)</a> Proposed Max. Surface Press <a href="#">0.2 of &lt; (120)</a>						
	Below Bottom of Inject Formation  Below Bottom of Inject Formation	- Garage Pho	Calc. Injt Press (0.2 psi per ft)						
	AOR: Hydrologic and Geologic	- •	Calc. FPP (0.65 psi per ft)						
	POTASH: R-111-P Noticed? BLM Sec Ord	3 M WIPP W Noticed? SA	LADO: T: B: CLIFF HOUSE WA						
	Fresh Water: Max Depth: ~360 FW Formation _	Ocalina Wells? Ana	alysis? 165 HydrologicAffirmStatement 165						
	Disposal Fluid Formation Source(s)		ase Only from Operatoror Commercial						
	Disposal Interval: Injection Rate (AVE/MAX): 650/1500 Protectable Waters: 60 CAPITAN REEF: thrulo adjacent 60 H/C Potential: Producing Interval? NA Formerly Producing? NA Method: E Log /Mudlog/DST/Depleted/Other NA								
	. // • • • • //								
	AOR Wells: 1/2-M Radius Map? 105 Well List? 105 Total No. Wells Penetrating Interval: 28+4=37								
	Penetrating Wells: No. Active Wells Num Repairs? On which well(s)? Diagrams? No.								
	Penetrating Wells: No. P&A Wells Num Repairs? on which well(s)?								
	NOTICE: Newspaper Date May 21, 20 Mineral C	101.1	Wher Millard Deck Estate N. Date May Pg	I					
	RULE 26.7(A): Identified Tracts? Affected Persons: State of WM/ Chevron N. Date								
	Permit Conditions: None required or identified								
	Issues: 0	SWD_Checklist V6.xls							

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