NITED STATES DEPARTMENT OF THE INTERIOR BURFALLOF LAND MANAGEMENT

U	CD-HOBBS FORM APPROVED
Binner	
	OMB NO. 1004-0135 Expires: July 31, 2010

B	5. Lease Serial No. NMLC031741A 6. If Indian, Allottee or Tribe Name				
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.					
SUBMIT IN TRI	7. If Unit or CA/Agreement, Name and/or No. NM 120042x				
1. Type of Well ☐ Gas Well ☑ Ot	her: INJECTION WI	N		8. Well Name and No	BDU-26
Name of Operator APACHE CORPORATION	Contact: R E-Mail: Reesa.Fisher	EESA FISHER r@apachecorp.com		0 1 01 111 11 11	00-04 52
3a. Address 303 VETERANS AIRPARK LA MIDLAND, TX 79705		3b. Phone No. (include area code Ph: 432-818-1062		10. Field and Pool, or BLINEBRY-TU EUNICE	r Exploratory BB-DRINKARD
4. Location of Well (Footage, Sec., 7		HODBS	UCD	11. County or Parish, and State	
Sec 8 T21S R37E NENE 990 32.497956 N Lat, 103.178709	FNL 660FEL V	MAR 21	2016	LEA COUNTY,	NM
12. CHECK APP	ROPRIATE BOX(ES) TO I	NDICATE NATURE OF	MOTIGE, R	EPORT, OR OTHE	ER DATA
TYPE OF SUBMISSION	TYPE OF ACTION				
Notice of Intent	☐ Acidize	□ Deepen	□ Product	tion (Start/Resume)	☐ Water Shut-Off
A Notice of Intent	☐ Alter Casing	□ Fracture Treat	☐ Reclam	ation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Construction	Recom	olete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Tempor	rarily Abandon	Workover Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water I	Disposal	
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, given rk will be performed or provide the loperations. If the operation result bandonment Notices shall be filed or the part of the provided the provi	ve subsurface locations and meas e Bond No. on file with BLM/BL ts in a multiple completion or rec	ured and true ve A. Required su completion in a	ertical depths of all perting bsequent reports shall be new interval, a Form 316	nent markers and zones. c filed within 30 days 60-4 shall be filed once
Apache would like to deepen	this well, run a liner, re-perfo	orate and stimulate, per the	attached		

Apache would like to deepen this well, run a liner, re-perforate and stimulate, per the attached procedure. Current and proposed WBD's are also attached.

SUBJECT TO LIKE APPROVAL BY STATE

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the	ne foregoing is true and correct. Electronic Submission #326452 verifie For APACHE CORPORA Committed to AFMSS for processing by PRI	TION,	sent to the Ho	obbs		
Name (Printed/Typed)	REESA FISHER	Title	SR STAFF	REGULATORY ANALYST		
Signature	(Electronic Submission)	Date	12/16/2015	5 APPROVED		
	THIS SPACE FOR FEDERA	L OR	STATE OF	FICE USE		
Approved By		Title		MAR 8 2016 Date		
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office		PRAWAS		
Title 18 U.S.C. Section 1001 States any false, fictitious	and Title 43 U.S.C. Section 1212, make it a crime for any pe or fraudulent statements or representations as to any matter wi	rson kno	owingly and will	lifully to make to any department or agency of the United		

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

WBDU 26W Proposed Procedure (API: 30-025-26967)

Deepen Well, Run 4.0" Liner, Re-Perforate and Stimulate

February 4, 2016

- Day 1: MIRU. Install BOP. Release 5-1/2" packer and POOH w/ 2-3/8" IPC injection tubing and packer.
- Day 2: PU & RIH w/ 4-3/4" bit on 2-7/8" work string. Clean out well bore to PBTD @ +/- 6780'. Drill out cement and cement retainer @ 6785'.
- Day 3: Cont. to drill out cement and cement retainer @ 6785'. Continue in well to original PBTD of 6930'
- Day 4: Continue in well to original PBTD of 6930'. Circulate wellbore clean and POOH and LD 2-7/8" work string.
- Day 5: RU casing crew and equipment and RIH with 4" 9.5 lb/ft, J-55, TMK Ultra FJ casing (or similar specifications) with float collar and float shoe to +/- 6930'

RU cement crew, perform single stage cement job to surface consisting of 20 bbl fresh water flush, 40 bbl seal bond LCM spacer, and 387 sacks of Class C cement + additives (weight 13.5 ppg, yield 1.66 cf/sack, volume 114 bbls, 100% excess slurry). Displace with 84 bbls fresh water (confirm all volumes)

Day 6: WOC

- Day 7: RIH w/ 3-1/4" bit on 2-3/8" work string. Drill out float collar and cement to new PBTD at +/- 6915'. Circulate clean. POOH
- Day 8: MIRU WL and RIH w/ GR/CBL/CCL/CNL, log well from TD to surface, POOH

PU and RIH w/ 3-1/8" TAGs loaded with SDP charges and perforate the Drinkard @ 4 SPF, 90 deg phasing (estimated 70', 280 shots), POOH

PU and RIH w/ treating packer on 2-3/8" work string

- Day 9: Cont. RIH w/ treating packer on 2-3/8" work string. Set packer @ +/-6450'

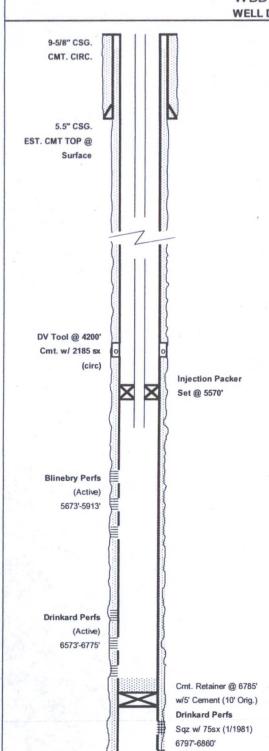
 MIRU acid crew. Acidize the Drinkard w/10,000 gals 15% HCl and rock salt in 3 equal stages @ +/- 8 BPM.

 Release packer. Wash out salt. POOH
- Day 10: PU and RIH with 4" injection packer with 2-3/8" IPC tubing subs, upper and lower profile nipples, and on/off tool on 2-3/8" work string. Set packer @ +/-6450'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-3/8" work string
- Day 11: PU & RIH w/2-3/8" IPC injection tubing and on/off tool. Circulate packer fluid and latch onto packer with on/off tool. ND BOPs and NU WH. Pressure test casing to 500 psi. RDMO.
- Day 12: Perform MIT test for NM OCD. Place well on injection

Apache Corporation

WBDU #26W (Formerly Hawk A #8) WELL DIAGRAM (CURRENT CONFIGURATION)





Original PBTD

@ 6930'

PBTD (ft): 6,780.0

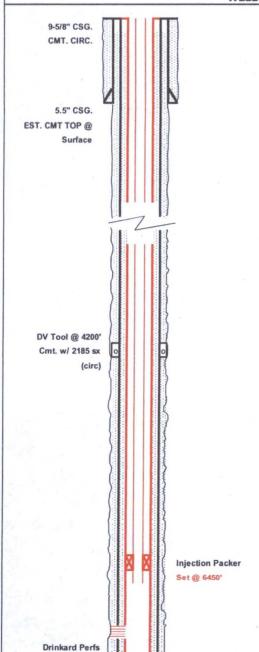
TD (ft): 6,980.0

WELL N	AME: WBDU #26W (Formerly Hawk A #8) API:		API:	30-025-269	67	
LOCATIO	N:	990' FNL / 660' FE 37E	L, Sec 8, T-21S, R-	COUNTY:	Lea Co., NM	
SPUD/TD	DATE:	10/2/1980 - 10/21/	1980	PREPARED BY:	Bret Shapot	
COMP. D	ATE:	4/2/1981		UPDATED:	11/23/1985	15
TD (ft):	6,980	KB Elev. (ft):	3520.0	KB ELEV:	12.0	
PBTD (ft)	: 6,780	Ground Elev. (ft)	: 3508.0			
CASING	TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS	(FT)
Surface C	asing	8-5/8" (Cmt. w/675x, circ)	24.00	K-55	0.00	1,294.00
Prod. Cas	ing	5-1/2" (Cmt. w/705sx circ) DV Tool @ 4200'	15.50	K-55	0.00	6,980.00
		IN.	JECTION TBG S	TRING		
ITEM		DESCRIPTION			LENGTH (FT)	Depth (FT)
1	178 JTS 2	-3/8" IPC Tubing				
2	Baker Lol	Lok-set packer w/on-off tool				
3	89.5					
4						
5						
6						,
7						
8		4				
9		12.00				
10	1.5					
			PERFORATION	IS		
Form.	Intervals	S			FT	SPF
Blinebry		5673', 75', 92', 94', 5709', 12', 40', 43', 46', 57', 58', 62', 64', 76', 78', 5806', 08', 46', 47', 61', 63', 77', 79', 95', 96', 5911', 13'			27	1
all India	(Squeez	ed) 6797', 6801', 09	', 12', 16', 30', 37', 4	0', 46', 50', 56', 60'	12	1
Drinkard	6573', 77		', 13', 16', 30', 33', 9		23	1

Apache Corporation



WBDU #26W (Formerly Hawk A #8)
WELL DIAGRAM (PROPOSED CONFIGURATION)



(Proposed) 6500' - 6840' 70', 280 Shots

AGRAM (F	PROPOS	ED CONFIGURA	ATION)				
WELL N				API:	30-025-269	67	
LOCATIO				R COUNTY:	COUNTY: Lea Co., NM		
SPUD/TD DATE: 10/2/1980 - 10/21/1980			PREPARED BY	PREPARED BY: Bret Shapot			
COMP. D	ATE:	4/2/1981		UPDATED:	11/23/1985	1-50	
TD (ft):	6,980	KB Elev. (ft):	3520.0	KB ELEV:	12.0	12.0	
PBTD (ft	: 6,915	Ground Elev. (ft)	3508.0				
CASING	TUBING	SIZE (IN)	WEIGHT (LB/F	GRADE	DEPTHS	(FT)	
Surface C	asing	8-5/8" (Cmt. w/675x, circ)	24.00	K-55	0.00	1,294.00	
Prod. Cas	sing	5-1/2" (Cmt. w/705sx circ) DV Tool @ 4200'	15.50	K-55	0.00	6,980.00	
Int. Casing	g	4" Cmt. To surf	9.50	J-55	0	6,930	
		IN.	JECTION TBG	STRING			
ITEM	7	DE	SCRIPTION	01	LENGTH (FT)	Depth (FT)	
1	2-3/8" 4.7	LB/FT J-55 IPC TBG			6460.0	6460.0	
2	2-3/8" ON	/OFF TOOL W/ 1.78	F PROFILE		1.8	6461.8	
3	2-3/8" X 4	-1/2" NICKLE PLATEI	D ARROW-SET PK	R	6.2	. 6468.0	
4	2-3/8" 4.7	LB/FT J-55 IPC TBG			8.0	6476.0	
5	2-3/8" PR	2-3/8" PROFILE NIPPLE 1.50 R				6476.9	
6	2-3/8" 4.7 LB/FT J-55 IPC TBG				6.0	6482.9	
7		711		1-1			
8							
9							
10						100	
			PERFORATIO	NS			
Form.	Intervals	S			FT	SPF	
Drinkard	(Propose	ed) 6500' - 6840'			70	4	

PBTD (ft): 6,915.0 TD (ft): 6,980.0

Conditions of Approval

Apache Corporation West Blinebry Drinkard Unit - 26, API 3002526967 T21S-R37E, Sec 08, 990FNL & 660FEL March 08, 2016

- 1. Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location for this workover operation.
- Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227.
- 3. Subject to like approval by the New Mexico Oil Conservation Division.
- 4. Surface disturbance beyond the existing pad shall have prior approval.
- A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 6. Functional H₂S monitoring equipment shall be on location.
- 7. 2000 (2M) Blow Out Prevention Equipment to be used. All BOPE and workover procedures shall establish fail safe well control. Blind ram(s) and pipe ram(s) designed to close on all workstring diameters used is required equipment. A manual BOP closure system (hand wheels) shall be available for use regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.
- 8. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 9. Prior to running the 4" liner preform operations that will verify (5 1/2"x 8 5/8") annular cement coverage from 50ft or more below the 9 5/8" shoe to 50ft or more above that shoe.
- 10. Provide BLM with an electronic copy cement bond log record of the 4" csg from 6500 or below to top of cement taken with 0psig casing pressure. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779.
- 11. Before perforating, **perform a charted casing integrity test** of 855psig minimum.

 Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 35 to 75 per cent of its full range. **Verify all annular casing vents**

- are plumbed to the surface and open during this pressure test. <u>Call BLM 575-393-3612</u> and arrange for a BLM witness of that pressure test. Include a copy of the chart in the subsequent sundry for this workover.
- 12. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.
- 13. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. Include (dated daily) descriptions of the well work.
- 14. Submit the BLM Form 3160-4 Recompletion Report within 30 days of the date all BLM approved procedures are complete. Include formation all tops on the Recompletion Report.

Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with minimum 200 psig differential between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). Verify all annular casing vent valves are open to the surface during this pressure test. An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
- 3) Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 35 to 75 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. In Lea County phone 575-393-3612. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number. Note the contact, time, & date in your subsequent report.
- 5) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
- 6) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.

- 7) Compliance with a NMOCD Administrative Order is required.
 - a) Approved injection pressure compliance is required.
 - b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
 - c) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 8) Class II (production water disposal) wells will not be permitted Stimulation Pressures or "Injectivity Tests" that exceed the NMOCD/BLM generic frac pressure which is: .2 x ft depth to the topmost injection or 50psig below the frac point as clearly indicated by a BLM accepted "Step Rate Test".
- 9) A request for increased wellhead pressures is to be accompanied by a "Step Rate Test:" that is to clearly indicate any requested wellhead pressure is +50psig below frac pressure for the wellbore's disposal formation. PRIOR to a Step Rate Test BLM CFO is requiring a Notice of Intent.
- 10) The subsequent report is to include workover stimulation injection pressures. Report maximum/minimum injection rate (BPM) and max/min stimulation injection pressures (psig).
- 11) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 12) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 13) A "Best Management Practice" is to maintain the annulus full of packer fluid at atmospheric pressure. Equipment that will display on site, continuous open to the air fluid level is necessary to achieve this goal.
- 14) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 15) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office. Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0 psia. Notify the BLM's authorized officer ("Paul R. Swartz" pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 17) Submit a (BLM Form 3160-5 subsequent report (daily reports) via BLM's Well Information System; https://www.blm.gov/wispermits/wis/SP (email pswartz@blm.gov for instructions) describing all wellbore activity and the Mechanical Integrity Test. Include (dated daily)

descriptions of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer. File intermediate Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.