

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**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.**OCD-HOBBS** APPROVED
OMB NO. 1004-0135
Expires: July 31, 20105. Lease Serial No.
NMNM90161

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NM/20042x8. Well Name and No.
HAWK-B-13 WSDU-42 ✓9. API Well No.
30-025-20178-00-C1 ✓10. Field and Pool, or Exploratory
Multiple--See Attached11. County or Parish, and State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other: *injection* UNKNOWN OTH2. Name of Operator *✓* APACHE CORPORATION Contact: ISABEL HUDSON
E-Mail: Isabel.Hudson@apachecorp.com3a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432.818.11424. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 9 T21S R37E NESE 1980FSL 660FEL ✓
32.491569 N Lat, 103.161587 W Lon**HOBBS OCD****APR 18 2016****12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Pursuant to Apache's meeting on 03-15-2016, please accept this change of plans for the proposed work over of this well. Please find attached the revised work over procedure. Thank you.

INS.
**SET PACKER WITHIN 100'
OF ACTIVE OR OPEN PERFORATIONS.**

M. Brown
OCD

**SUBJECT TO LIKE
APPROVAL BY STATE**

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Electronic Submission #334143 verified by the BLM Well Information System**For APACHE CORPORATION, sent to the Hobbs****Committed to AFMSS for processing by PRISCILLA PEREZ on 03/22/2016 (16PP0435SE)**

Name (Printed/Typed) ISABEL HUDSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 03/18/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

APPROVED**APR 1 2016****BUREAU OF LAND MANAGEMENT**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

M. Brown
OCD
4/20/2016

APR 21 2016*cy*

Additional data for EC transaction #334143 that would not fit on the form

10. Field and Pool, continued

EUNICE

Clean out well. Shut-off Blinebry perforations. Reperforate and stimulate Drinkard.

March 17, 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 and scraper on 2-7/8" work string to +/- 6200'. POOH w/bit and scraper. RIH w/CBP on 2-7/8" work string. Set CBP @ 6,100'. POOH w/ 2-7/8" work string. Dump 8' of sand on top of RBP (approximately 100 lbs 16/30 sand. Confirm volumes).

Day 3: RIH w/ CICR on 2-7/8" work string. Set CICR & +/- 5760'. MIRU cement crew. Sting into CICR and establish rate into Blinebry perforations. Cement Blinebry perforations with +/- 250 sx of Class C cement (weight 14.8 ppg, yield 1.33 cf/sack). Displace w/ 30 BBL fresh water (confirm volumes). Sting out of CICR and POOH w/ 2-7/8" work string.

Day 4: Allow 24 hours for cement to set.

Day 5: RIH w/ bit on 2-7/8" work string. Drill out CICR, cement, and RBP. RU Foam N2 Unit as required. Clean out well bore to PBTD @ +/- 6770'.

Day 6: Cont. to clean out well to PBTD @ +/- 6770'. Circulate wellbore clean and POOH and LD 2-7/8" work string.

Day 7: MIRU WL and RIH w/ GR/CNL/CCL, log well from TD to 6,000', POOH

PU and RIH w/ 3-3/8" 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 8: 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 @ +/- 10 BPM. Release packer. Wash out salt. POOH

Day 9: PU and RIH with 5-1/2" injection packer with 2-3/8" IPC tubing subs, upper and lower profile nipples, and on/off tool on 2-3/8" work string. Set packer @ +/-5701'. Release on/off tool and pressure test casing to 500 psi. POOH and LD 2-3/8" work string

PROPOSED PERFS 6500'-6700'

Day 10: 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 11: Perform MIT test for NM OCD. Place well on injection

(6500') SET INJECTION PACKER
WITHIN 100' OF TOP
ACTIVE PERFORATIONS.
WABROWN
OCD

Current Well Bore Diagram

Apache Corporation WBDU #42W (Formerly Hawk B-1 #13) WELL DIAGRAM (CURRENT CONFIGURATION)



9-5/8" CSG.
CMT. CIRC.

5.5" CSG.
EST. CMT TOP @
2300' (TS)

Blinebry Perfs
(Active)
5781'-6043'

Drinkard Perfs
(Active)
6582'-6710'

Injection Packer
Set @ 5703'

PBTD (ft): 6,770.0
TD (ft): 6,780.0

WELL NAME:	WBDU #42W (Formerly Hawk B-1 #13)	API:	30-025-20178
LOCATION:	1980' FSL / 660' FEL, Sec 9, T-21S, R-37E	COUNTY:	Lea Co., NM
SPUD/TD DATE:	4/13/1963 - 5/3/1963	PREPARED BY:	Bret Shapot
COMP. DATE:	6/1/1963	UPDATED:	11/23/1985
TD (ft):	6,780.0	KB Elev. (ft):	3480.0
PBTD (ft):	6,770.0	Ground Elev. (ft):	3470.0
KB ELEV:	10.0		

CASING/TUBING	SIZE (IN)	WEIGHT (LB/FT)	GRADE	DEPTHS (FT)
Surface Casing	9-5/8" (Cmt. w/450x, circ)	36.00	H-40 / J-55	0.00 1,294.00
Prod. Casing	5-1/2" (Cmt. w/700x) TOC @ 2300' (TS)	17.00	J-55/L-80	0.00 6,780.00

INJECTION TBG STRING

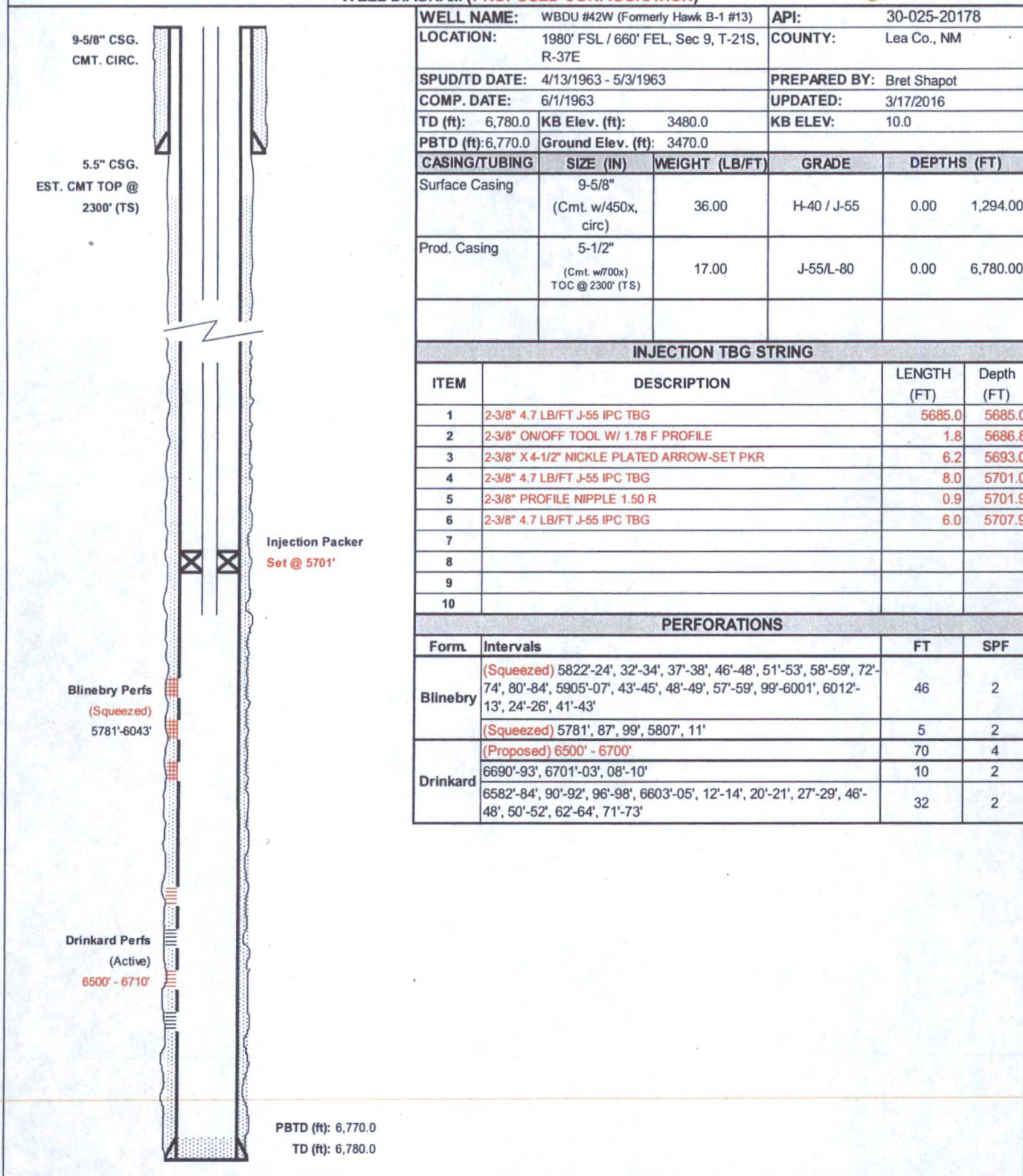
ITEM	DESCRIPTION	LENGTH (FT)	Depth (FT)
1	175 JTS 2-3/8" IPC Tubing		
2	Baker Lok-set packer w/on-off tool		
3			
4			
5			
6			
7			
8			
9			
10			

PERFORATIONS

Form	Intervals	FT	SPF
Blinebry	5822'-24', 32'-34', 37'-38', 46'-48', 51'-53', 58'-59', 72'-74', 80'-84', 5905'-07', 43'-45', 48'-49', 57'-59', 99'-6001', 6012'-13', 24'-26', 41'-43'	46	2
	5781', 87', 99', 5807', 11'	5	2
Drinkard	6690'-93', 6701'-03', 08'-10'	10	2
	6582'-84', 90'-92', 96'-98', 6603'-05', 12'-14', 20'-21', 27'-29', 46'-48', 50'-52', 62'-64', 71'-73'	32	2

Proposed Wellbore Diagram

Apache Corporation WBDU #42W (Formerly Hawk B-1 #13) WELL DIAGRAM (PROPOSED CONFIGURATION)



Conditions of Approval

Apache Corporation
West Blinebry Drinkard Unit - 42, API 3002520178
T21S-R37E, Sec 09, 1980FSL & 660FEL
April 01, 2016

1. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location for this workover operation.**
2. 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.
5. 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. **Provide BLM with an electronic copy cement bond log record of the 5 1/2" 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.**
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. 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.
12. 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.
13. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete. **Include formation 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.
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- 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) 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.
- 9) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 10) 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.
- 11) 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.
- 12) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 13) 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.
- 14) 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.
- 15) 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.