

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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 TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC029435A
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: FATIMA VASQUEZ E-Mail: Fatima.Vasquez@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LANE STE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1015	8. Well Name and No. RAVEN FEDERAL (39330) 001
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T17S R31E 2190FSL 990FWL		9. API Well No. 30-015-40465
		10. Field and Pool, or Exploratory CEDAR LAKE; GL-Y (96831)
		11. County or Parish, and State EDDY COUNTY, NM

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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<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 recomplete 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 recompletion 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.)

Wade 6/10/13
Accepted for record
NMOCB

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

RECEIVED
JUN 10 2013
NMOCB ARTESIA

Apache would like to recomplete the Blinbry & Paddock and then commingle all the zones per the attached procedure.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #208045 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 05/21/2013 ()	
Name (Printed/Typed) FATIMA VASQUEZ	Title REGULATORY TECH
Signature (Electronic Submission)	Date 05/20/2013
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
JUN 16 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

APACHE CORPORATION

5/21/2013

API 30-015-40465

Raven Federal #1

RE-COMPLETION PROCEDURE

Relative Data:

Casing: 5-1/2", 17 lb/ft, J-55

ID = 4.892"

Drift = 4.767"

Capacity = 0.02324 BBL/ft

Burst = 5320 psi; 80% = 4256 psi

Tubing: 2-7/8", 6.5 lb/ft, J-55, 8rd, EUE

Capacity = 0.005794 bbl/ft

Burst = 7260 psi; 80% = 5808 psi

Collapse 7680 psi; 80% = 6144 psi

Yield 99,660 lbs; 80% = 79,728 lbs

5-1/2" x 2-7/8" Annular capacity 0.0152 BBL/ft KB = 13 ft (AGL) PBTD = x,xxx' KB TD = 6,416' KB

1. MIRU. POH w/Production Equipment. RIH set & test CBP @ +/-5850'. Load csg & test CBP & csg to 1000 psi. Rlse pressure
2. Spot 600 gallons 15% HCL across perf area. TOH.
3. Perforate the Blinebry zone @ 5320, 28, 54, 65, 85, 5410, 31, 50, 67, 90, 5516, 28, 49, 60, 78, 97, 5616, 38, 47, 77, 5715, 33, 50, 65, 90 & 5810'. (1 JSPF) (26 holes) using a charge that generates a .37" - .42" diameter hole with a minimum 21" penetration.
4. RU wellhead tree saver & multi-stg frac tool for fracture stimulating.
5. Acidize/Frac the Blinebry dn csg according to vendor recommended procedure.
6. MIRU wireline. RIH W/WL set CBP for 5-1/2" 17#/ft csg on bottom of first perforating gun & set @ +/-5270'. Load csg & test CBP & csg to 1000 psi. Rlse pressure.
7. Perforate the Paddock @ 4655, 71, 85, 99, 4720, 43, 54, 79, 89, 4810, 28, 58, 78, 94, 4910, 36, 60, 81, 95, 5013, 26, 50, 85, 5115, 37, 61, 80, 5200 & 30'. (1 JSPF) (29 holes) using a charge that generates a .37" - .42" diameter hole with a min. 21" penetration.
8. Acidize & frac the Paddock perms dn csg according to vendor recommended procedure.
9. Flow back well until dead. RU reverse unit & swivel.
10. TIH W/4-3/4" bit, bit sub, XO, 6 - 3" DCs, XO, & 2-7/8" tbg to top of fill. DO CBPs @ +/-5270', 5850' and CO well to PBTD (COMMINGLING ALL ZONES). Reverse circ clean. TOH & LD DCs & bit.
11. Hydrotest in hole with W/tbg for production as specified by the Artesia office. TIH W/pump & rods as specified by the Artesia office.
12. MIRU pumping unit. Connect electrical service. Construct & tie in flowline. Place well into production.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40465	² Pool Code 96834	³ Pool Name Cedar Lake, Glorieta-Yeso (O)
⁴ Property Code 39330	⁵ Property Name Raven Federal	⁶ Well Number 001
⁷ OGRID No. 873	⁸ Operator Name Apache Corporation: 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705	⁹ Elevation 3715' GR

¹⁰ Surface Location

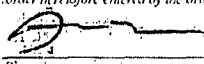
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	07	17S	31E	3	2190	South	990	West	Eddy

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

				<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p> 05/20/2013 Signature Date</p> <p>Fatima Vasquez Printed Name</p> <p>Fatima.Vasquez@apachecorp.com E-mail Address</p>
				<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p>
				<p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor:</p>
				<p>Certificate Number</p>

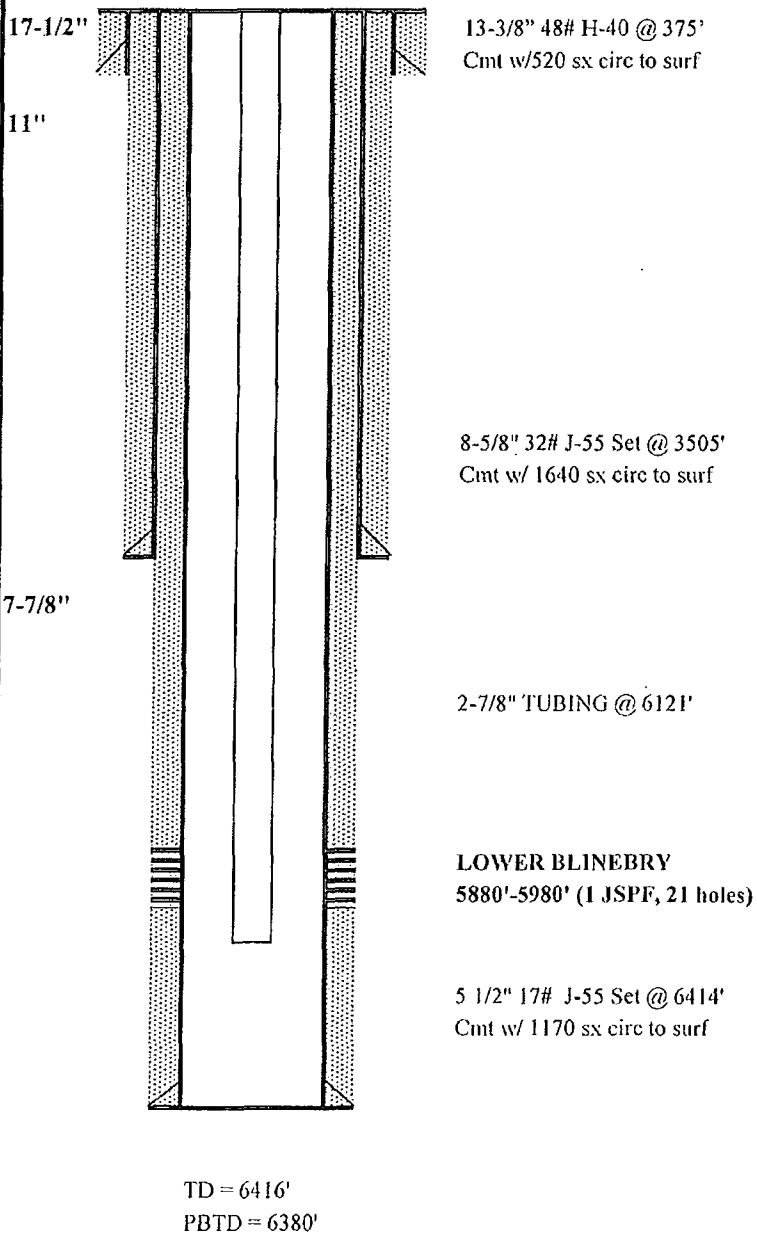
Apache Corp.
Current Wellbore

GROUP: Permian North
FIELD: Cedar Lake
LEASE/UNIT: Raven Federal
COUNTY: Eddy
API NUMBER: 30-015-40465

DATE: May. 20, 2013
BY: SNH
WELL: #1
STATE: New Mexico

Spud Date: 10/3/2012
Rig Release Date: 10/21/2012

KB = 14'
GL = 3715'

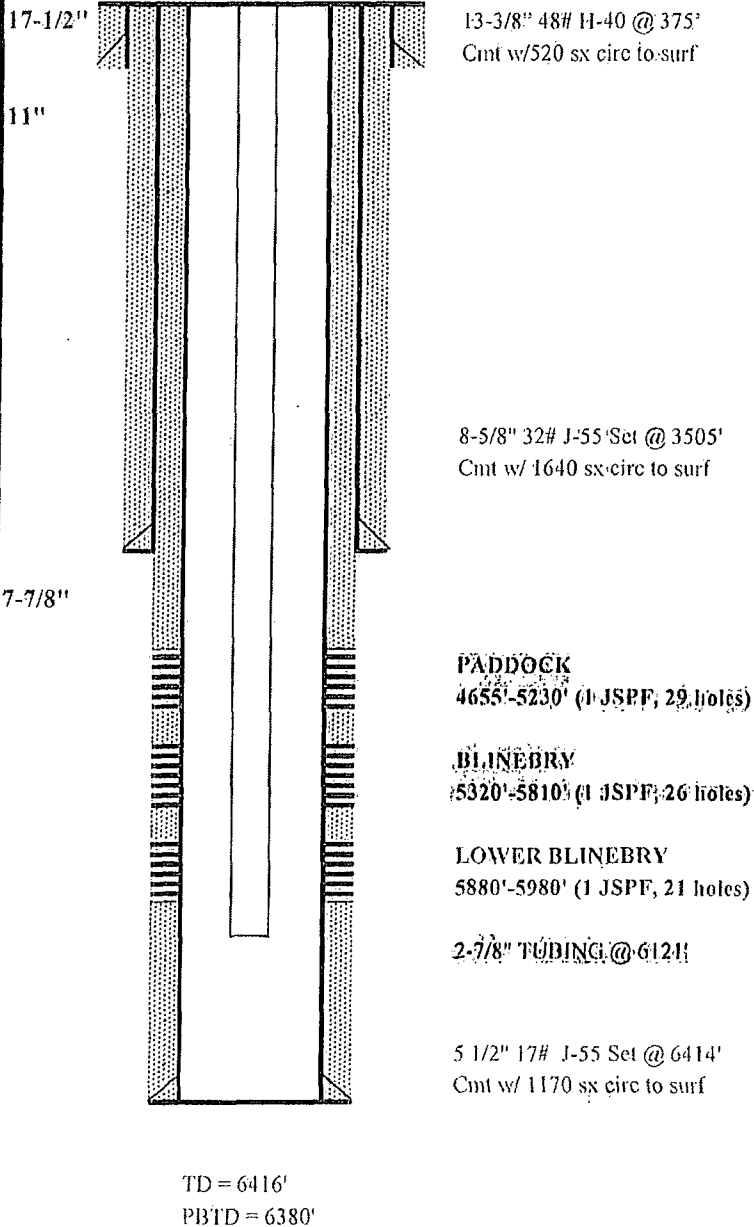


Apache Corp.
Proposed Wellbore

GROUP:	Permian North	DATE:	May, 20, 2013
FIELD:	Cedar Lake	BY:	SNH
LEASE/UNIT:	Raven Federal	WELL:	#1
COUNTY:	Eddy	STATE:	New Mexico
API NUMBER:	30-015-40465		

Spud Date: 10/3/2012
Rig Release Date: 10/21/2012

KB = 14'
GL = 3715'



**Raven Federal 1
30-025-40465
Apache Corporation
June 06, 2013
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by September 06, 2013.

- 1. Must conduct a casing integrity test to maximum treating pressure before any work can be done. Submit results to BLM. The CIT is to be performed on the production casing per Onshore Oil and Gas Order 2.III.B.1.h. Submit results to the BLM.**
- 2. Recompletion procedure approved as written.**
- 3. Operator has been approved for this zone, Cedar Lake; Gloreita-Yeso (pool code 96831) which includes the Paddock and the Blinebry, so no NOI is necessary only a subsequent report is needed after pay has been added.**
4. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
5. Surface disturbance beyond the originally approved pad must have prior approval.
6. Closed loop system required.
7. All waste (i.e. drilling fluids, 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.
8. Operator to have H2S monitoring equipment on location.
9. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

10. Subsequent sundry required detailing work done and completion report with both formations. Operator to include well bore schematic of current well condition when work is complete.

JAM 060613