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Form 3160-5 (June 1990) DEPART BUREAU	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.			
SUNDRY NOTI Do not use this form for proposals Use "APPLICATION	6. If Indian, Allottee or Tribe Name			
SUL	7. If Unit or CA, Agreement Designation			
Type of Well Gas		AXI APACHE K		
Well Well Other 2. Name of Operator	8. Well Name and No.			
CONOCO, INC.	AXI APACHE K - 2			
3. Address and Telephone No.	9. API Well No. 30-039-06745			
P.O. Box 2197 DU 3066	Houston, TX 77252-2197 (281)	10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Su	rvey Description)	BLANCO MESAVERDE		
B, SEC.4, T26N, R		11. County or Parish, State		
807' FNL & 1354' F	EL	RIO ARRIBA, NM		
12. CHECK APPROPRIATE B	OX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT. OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF SUBMISSION TYPE OF ACTION			
Notice of Intent	Abandonment			
	Recompletion	Change of Plans New Construction		
Subsequent Report	Plugging Back	Non-Routine Fracturing		
Final Abandonment Notice	Casing Repair	Water Shut-Off		
- I was Availdouthelit Motice	Altering Casing	Conversion to Injection		
	□ Other	L.J. Dispose Water (Note: Report results of multiple completion on Well Campletion or Recompletion Report and Log (arm.)		
Conoco proposes to pe	rform a cement squeeze on the casing leaks and cementing recommendation attached. MAR 2000 RECEIVED OLLOW DIV			
4. I hereby deriffy that the spregoing is true and correct				

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, ficultious or fraudulent statements or representations as to any matter within its jurisdiction.

Approved by Conditions of approval, if any:

Repair Casing AXI Apache K-2 4B 26N 5W

Objective:

Cement squeeze casing leaks at 2618-81', then return the well to

production.

Well Information:

Casing:

5.5" 14 lb/ft set at 5306'

PBTD 5454' (fill and junk)

Capacity - .0238 bbl/ft or .9997 gals/ft

Tubing:

2 3/8" to 5397'

Capacity - .00387 bbls/ft or .1626 gals/ft Total Volume - 20.9 bbls or 877 gals

Pictured Cliffs Perforations:

3220'-3244' (squeezed)

Mesa Verde Perforations:

Cliff House 4864'-4900', 4920'-40' 6BPF

Point Lookout 5402'-18', 24'-28', 36'-44', 60'-84' 6BPF

Lower Point Lookout 5513'-18', 22'-24' 6BPF (below cement plug @ 4596'-5507')

Notify Aztec OCD 24 hours before work is initiated (334-6178, Charlie Perrin)

- 1. Move in and rig up pulling unit.
- 2. Release packer (45B Model R Double-grip), drop down and tag PBTD.
- 3. Pull packer and tubing (Note: packer in middle of string at 2741')
- 4. Run composite bridge plug on wireline and set at approximately 2820'.
- 5. Dump enough sand on top of the bridge plug to bring the sand level up to 2685' (Note: 14.66 lbs of 20/40 sand per foot in 14 lb/ft 5 1/2" casing). Use wireline to tag sand to insure proper height.
- Run in hole with cement retainer on 2 3/8" tubing and set at approximately 2570'. Establish injection into the casing leak.

- 7. Hesitation squeeze casing leak as per BJ cementing recommendation. If a 500 psi squeeze is not achieved with the recommended cement volumes, over displace with 30 barrels of water (tubing and casing volume est. 13 bbls. plus 17 barrels excess).
- 8. Pull out of retainer and reverse circulate the tubing clean. POOH with tubing. WOC over night.
- 9. Pick up a bit run in hole and run in to the retainer. Drill out retainer and cement to the top of the sand plug.
- 10. Pressure test squeeze to 500psi. If it holds, continue circulating out the sand plug and drill up the composite bridge plug and clean out hole to PBTD. If it doesn't hold confirm location of the leak and re-squeeze.
- 11. Pull out of hole with bit.
- 12. Run in hole with tubing to approximately 5400' with seating nipple for plunger operations.
- 13. Nipple up wellhead for plunger operation and connect to sales.
- 14. Swab in well. Note: that considerable swabbing may be necessary given the unknown amount of dump flooding that may have occurred. A call will have to be made on how long to swab with the pulling unit. If no gas is seen in the first few days we should switch to a swab unit or run a pump and rods.
- 15. Rig down and move off pulling unit.

Prepared by: Pat Bergman March 3, 2000

Operator Name: Conoco

Well Name:

AXI Apache K 2

Job Description: Casing Leak Repair

Date:

March 2, 2000

Proposal No: 128866282A

JOB AT A GLANCE

Casing Size/Weight:

5 1/2in, 15.5 lbs/ft

Pump Via

Tubing 2 3/8" O.D. (1.995" I.D) 4.7 #

Total Mix Water Required

479 gals

Spacer

Fresh Water

40 bbls

Density

8.3 ppg

Lead Slurry

Class H w/fluid loss

50 sacks

Density

16.0 ppg

Yield

1.12 cf/sack

Tail Slurry

Class H

50 sacks

Density

16.0 ppg

Yield

1.13 cf/sack

Displacement

Fresh Water

15 bbls

Density

8.3 ppg

Operator Name: Conoco

Well Name:

AXI Apache K 2 Job Description: Casing Leak Repair

Date:

March 2, 2000



WELL GEOMETRY

Squeeze Depth Tubing/Drill Pipe Size Casing Size

2,618 ft 2.375 in 5.500 in

1.995 in ID 4.950 in ID

4.7 lbs/ft 15.5 lbs/ft

Squeeze Temperature Est. Static Temperature

0°F 90°F

FLUID SPECIFICATIONS

Spacer

= 40.0 bbls Fresh Water @ 8.33 ppg

SLURRY NO.	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	56	· /	1.12	= 50 sacks Class H Cement + 0.5% bwoc FL-50 + 0.2% bwoc Sodium Metasilicate + 42.1% Fresh Water
2	57	1	1.13	= 50 sacks Class H Cement + 3% bwow Sodium Chloride + 42.9% Fresh Water
Displacement				= 15.0 bbls Fresh Water @ 8.33 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	16.00	16.00
Slurry Yield (cf/sack)	1.12	1.13
Amount of Mix Water (gps)	4.75	4.84
Estimated Pumping Time - 70 BC (HH:MM)	3:00	2:15

Operator Name: Conoco

Well Name: AXI Apache K 2
Job Description: Casing Leak Repair

Date:

March 2, 2000



PROCEDURE

Cementing Procedure for:Casing Leak Repair

Rig up to cement the casing leak repair at 2,618' to 2,681' via 2 3/8" tubing.

Pump as scheduled below:

- 1. Perform all location Q.C. test on mlx waters.
- 2. Conduct safety meeting with all location personnel.
- 3. Pressure treating lines to operator's specifications.
- 4. Verify squeeze technique to be utilized.
- Isolate lower zones with RPB or retainer @ +/- 2,800'. Dump enough sand on tool to cover casing to bottom of leak.
- 6. Run in hole with tubing and retainer.
- 7. Set cement retainer @ +/- 2,568'.
- 9. Establish injection rate with 40 bbl of fresh water.
- 10. Mix and pump 50 sacks of lead slurry and 50 sacks of tail slurry. Total slurry volume is 20 bbl.
- 11. Once all slurry is in tubing slow displacement rate to 3/4 bpm.
- 12. With 4 bbl of slurry above returner if no squeeze pressure is observed, start hesitation method. Continue with hesitation until slurry is below retainer.
- 13. Pull out of retainer. Reverse out remaining slurry if required.
- 14. Rig down equipment per operator's specifications.
- 15. WOC +/- 12 hours.