Form 3 160-5 (June 1990)

Final Abandonment Notice

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 3 1,1993

5. Lease Designation and Seriai No.

#### NM 015150

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
LISE "APPLICATION FOR REPMIT -" for such proposale

6. If Indian, Allonee or Tribe Name

USE AFFLICATION FOR	K FERWIT — for such proposals		
SUBMIT	7. If Unit or CA, Agreement Designation		
1. Type of Well Oil Well Well Other	8. Well Name and No.		
2. Name of Operator CONOCO INC.	Stove Canyon #1		
3. Address and Telephone No. 10 DESTA DR. STE. 430E, MIDLAND,	30-045-29480 10. Field and Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T. R. M. or Survey Desc. 1940' FSL & 1320	11. County or Parish, State		
1940' FSL & 1320'	San Juan County, NM		
- CHECK APPROPRIATE BOX(s	B) TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA	
TYPE OF SUBMISSION	TYPE OF ACTION		
Notice of Intent	Abandonment	Change of Plans	
Subsequent Repon	Recompletion Plugging Back	New Construction Non-Routine Fractumng	
_	Casing Repair	Water Shut-Off	

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Conoco Inc. proposes to alter the original casing plan that was originally submitted under the APD. Attached you will find the procedure that we are requesting that the BLM approve.

DECEIVED

JAN 1 5 1998

OUL CON. DUV.

DUST. 3

RECEIVED
BLM
98 JAN -8 AN 10: 52

Conversion to Injection

14. I hereby certify that the foregoing is true and correct Signed Miles L. Marker	Mike L. Mankin  Title Right-of-Way Agent	Date	12/17/97
(This space for Federal or State office use)  /S/ Duane W. Spencer  Approved by Conditions of approval if any:	Title	Date	JAN 12 1998
BLM(6), SHEAR, PONCA, COST ASST, FILE ROOM			
Title 18 U.S.C. Section 1001, makes it a crime for any person knowin or representations as to any matter within its junsdiction.	gly and willfully to make to any department or agency of t	he United States any false, i	lictitious or fraudulent statemen

\*See Instruction on Reverse Side

# Stove Canyon #1 --- Draft Completion Procedure REVISION #2 (after 12/4/97 mtg).

Notes: PRE-COMPLETION/TESTING MTG WILL BE HELD JUST PRIOR TO THIS (AFTER OPEN HOLE LOGS ARE RUN) UP IN FARMINGTON. PROCEDURE WILL BE FINALIZED AT THAT TIME. PROCEDURE BELOW IS PLANNING DRAFT.

ALL FEDERAL, STATE & LOCAL RULES & REGULATIONS RELATING TO OIL & GAS OPERATIONS MUST BE ADHERED TO AT ALL TIMES, AS WELL AS ALL CONOCO SAFETY
PROCEDURES

#### Draft Procedure Assumes:

5 1/2", P 11O , 23#, LT&C production casing from surface to TD. 16#, CLass H cement (FL 32 + BA 58 system) from TD up to 11,500' (  $8\ 1/2$ " hole ).

NOTE 1 - Conoco/BJ Rationale for running cement only to 11,500':

a. To SAFELY cement the entire casing string to shoe, without creating excessive ECD to cause breakdown of Penn formation during cementing, staging of the cement job would be necessary (ie, installing stage tool in csg). Due to necessity of high pressue acid fracstimulation down casing for the completions, coupled with inherent risks of stage tool seal leaking, staging not recommended. b. By only doing single stage cement job (rotating pipe to ensure good bond, etc) over the entire Penn interval, a good, safe & low damaging (ie, for fractured formation) cement job can be assured over test interval. In addition, if Penn test unsuccessful, cost savings will be realized in not pumping upper stage cement slurry, coupled with better pipe recovery. By getting better pipe recovery, a more effective P&A procedure can also be achieved. c. IF zones above 11,500' are identified as test candidates, or the Penn tests prove succesful, the upper section of the 5 1/2" (from 11,500' to the shoe) will be cemented, by installing a plug @ TOC, shooting squeeze holes just above, and circulating.

NOTE 2 — 7" liner w/ 5" bottom liner may be necessary if hole problems encountered. if 6" hole drilled for lower liner, may be problem w/ coring & logging — Schlumberger requests 6 1/2" hole.

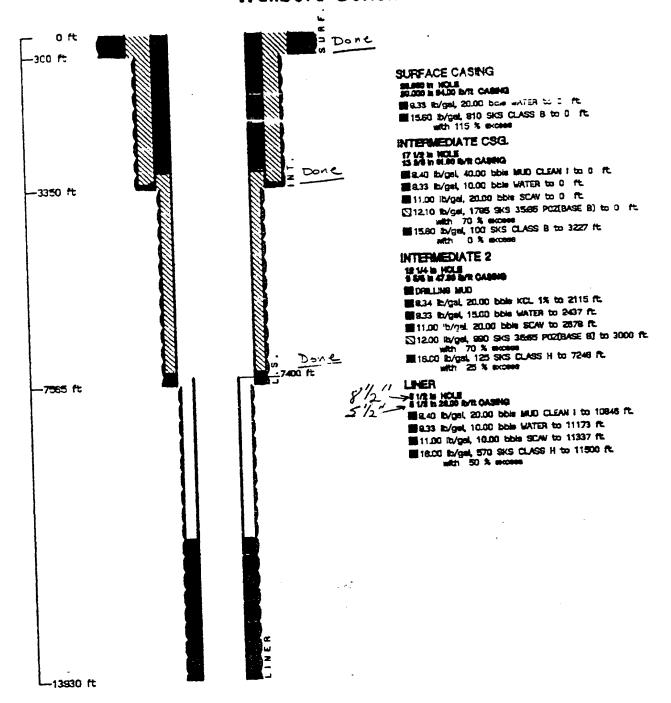
BHT: 305 F; BHP: 5500-6500 psi; Avg perm: 10 md; Acid sol: 95% Min horz stress: 9700-8-9800 @ 12,500'; Young's Mod: 10,000 psi Poisson's: 0.3-0.33; TD: 13,930'; Hydrocarbon: Dry gas (w/ pot for H2S,CO2)

Max pressure rating, 5 1/2" casing : 10,800# (80% of 13,500#)

Drift dia: 4.545"

# BJ SERVICES COMPAIN I Wellbore Schematic





CONGCO

STOVE CANYON 1

FM100051

### **BJ SERVICES COMPANY**

### **CEMENTING RECOMMENDATION**

#### LINER

#### VOLUME CALCULATIONS

0.2291 CU-FT/FT WITH 50 % EXCESS = 835 CU-FT

40 FT X 0.1189 CU-FT/FT WITH 0 % EXCESS 5 CU-FT (INSIDE PIPE)

> TOTAL SLURRY VOLUME: 840 CU-FT

150 BBLS

SPACERS:

20.0 BBL MUD CLEAN I @ 8.40 LB/GAL

10.0 BBL WATER @ 8.33 LB/GAL

10.0 BBL SCAV @ 11.00 LB/GAL

SLURRY VOLUME VOLUME CU-FT FACTOR NO.

AMOUNT AND TYPE OF CEMENT

840 / 1.48 = 570 SACKS CLASS H

0.900 \* FL-25 Slovi Led SM WATER ASSIDUAL 35.000 % SILICA FLOUR +

0.300 % CD-32 + 0.100 % SM 0.450 % R-8 + 51.610 % WATER

DISPLACEMENT FLUID:

249.6 BBL WATER @ 8.33 LB/GAL

CEMENT PROPERTIES

SLURRY NO.1

16.00 SLURRY WEIGHT (LB/GAL) SLURRY YIELD (CU-FT PER SACK) 1.48

AMOUNT OF MIX WATER (GALS PER SACK) ESTIMATED PUMP TIME (HH:MM) 5.82 4:17

H+35% S-8C + 6% BA-58 + .65% FL-32 + .4% R-3
coarse silica silica forme fluid 1055 vetarder

floor

11 C one H

Bring cement from TD to 11.000'

Need: 60ce or less

of free water

Tankell Tests:

RP SeHling test

Gas test

and the second

## **BJ SERVICES COMPANY**

# **CEMENTING RECOMMENDATION**

#### LINER

OPERATOR WELL	CONOCO STOVE CANYON # 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OPERATOR WELL LOCATION COUNTY, STATE FORMATION PREPARED BY DATE	SEC.1,T27N,R8W SAN JUAN, NM OURAY LOREN L. DIEDE NOVEMBER 13, 1997	

#### **ANNULAR GEOMETRIES**

ANNULAR I.D.	DEPTH
(IN)	(FT)
8.681 CASING	7565
8 1/2 HOLE	13930

#### SUSPENDED PIPES

DIAMETER (IN)		T) POWE	WEIGHT
o.p.	I.D.	(FT)	(LB/PT)
5 1/2	4.670	13930	23.000

3 1/2 IN DRILL PIPE TO 7400 FT

DEPTH TOP OF LINER 7400 FT FLOAT COLLAR SET AT 13890 FT

MUD DENSITY (WATER BASED) 10.000 LB/GAL ESTIMATED STATIC TEMP. 300 DEG F ESTIMATED CIRC. TEMP. 243 DEG F