Form 3160-5 (June 1990)

UNITED STATES

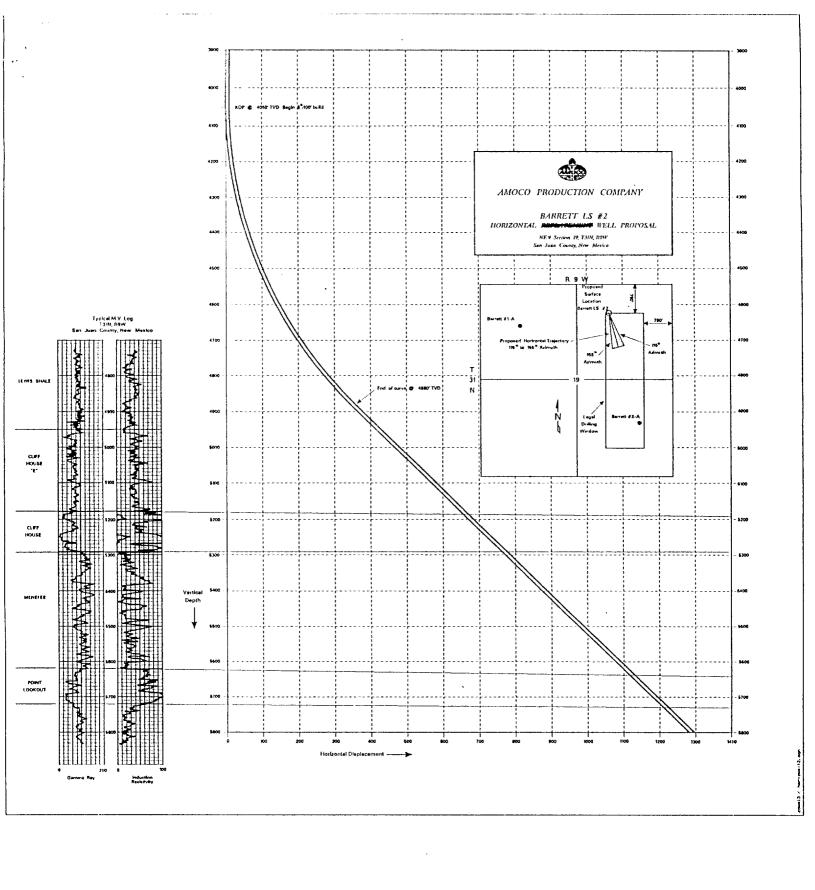
	OF THE INTERIOR AND MANAGEMENT RECEIVED	Budget Bureau No. 1004-0135 Expires: March 31, 1993
CHAIDDY MOTICES A	.ND REPORTS ON WELLS	5. Lesse Designation and Serial No.
Do not use this form for proposals to drill	SF-078336-B	
	R PERMIT - " for such proposals	6. if Indian, Allottee or Tribe Name
	070 Passington, NM	
	OTO TRADENCTON, INM	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Gee Well Other		8, Well Name and No.
2. Name of Operator	Attention;	Barrett LS 2
Amoco Production Company	Patty Haefele	9. API Well No.
Address and Telephone No. P.O. Box 800, Denver, Colorado 80201	(303) 830-4988	3004510641
		10. Field and Pool, or Exploratory Area Blanco Mesaverde
4. Location of Well (Footage, Sec., T., R., M., or Survey Descript	IOIII	11. County or Parish, State
790' FNL 1750' FEL	Sec. 19 T 31N R R9W Unit B	Com luna
		San Juan New Mexico
	((s) TO INDICATE NATURE OF NOTICE,	
TYPE OF SUBMISSION	TYPE OF ACTION	
	Abandonment	Charact Blanc
Notice of Intent	Recompletion	Change of Plans New Construction
Change Brown	Plugging Beck	Non-Routine Fracturing
Subsequent Report	Casing Repair Altering Casing	Water Shut-Off
Final Abandonment Notice	Other repair-horizontal drill	Conversion to Injection Dispose Water
		port results of multiple completion on Well Completion or stion Report and Log form.)
subsurface locations and measured and true vertical depths f	pertinent details, and give pertinent dates, including estimated date of startion all markers and zones pertinent to this work.)* ermission to horizontally drill the subject well per	
	gr anu s s	
		ICEIVED
		20 C 1980 TX
	©] <u>1</u>	CARA TRADO
	-	Dist. 6
14. I hereby certify that the foregoing is true and correct		
signed Patty Haefele	Title Staff Assi	stant Date 10-19-1995
(This space for Federal or State office use)		APPROVED
Approved by	Title	00T 9 3""1005

Barrett LS #2
High angle horizontal
San Juan County, New Mexico

The subject well has been selected by the CRACK Team as a candidate for the second high angle intercept well in our 1995 series—the Riddle "D" #4-A well being the first. The fracture/fault is interpreted at approximately 660' to the Southeast, thus requiring a fairly long reach to intercept at 45 degrees in the Cliff House. Total offset for this well at TMD is prognosed to be 1,250' upon reaching the Mancos.

- 1 MIRURT complete with air package, dual double ram preventers and dual blooic lines. Nipple down tree, nipple up BOE, test to 250 and 1,000 psi. Pull tubing (none shown on wellbore diagram-I'm presuming), inspect and stand back if usable.
- 2. Set cement retainer at 4,050' and squeeze the Mesaverde with 250 sx of 50:50 Pozmix containing 2 % gel, 6 % salt, 0.4 % 344, 0.50 #/sx flocele and 10 #/sx gilsonite. If no squeeze obtained, clear tubing and retainer, WOC for 6 hours and test to 500 psi. If no test, pump an additional 150 sx of the same slurry. After obtaining a squeeze, test casing to 500 psi-repair if necessary. Pick up the 3.500" drill string while WOC.
- 3. Run gyroscope survey and set oriented whipstock in 7.000" casing at 4,045 with azimuth at 135 degrees.. Cut window in the casing from 4,030 to 4,045 using air/mist. Clean entry, drill a few feet of hole and dry up the hole if we singleshot the hole. (Dependent on outcome of using GeoService on the Riddle, either use the MWD or singleshot survey the build.)
- 4. Pick up a Sperry 4.750" air motor with a 6.125 Smith DDP bit and build angle at 5 degrees per 100' to 45 degrees. Maintain azimuth at 120 to 150 degrees. (Although the azimuth angle isn't extremely critical, the importance of keeping a usable well bore is. Do not allow hole to dogleg-make corrections carefully and smoothly)
- 5. After reaching 45 degrees, TOH and pick up rotating assembly, with or without a motor dependent on the hole tendency to allow strictly rotational work and still maintain the 45 degrees.
- 6. Rotate ahead to intersect the top of the Cliff House at 5,187' at a displacement of 660' from the original well bore; correct with motor runs if necessary. Continue rotating, maintaining the 45 degree angle and 135 degree azimuth until the Mancos top is drilled at a TVD of 5,750'. Should a large productive fracture be encountered, a decision may be made to cease drilling operations.
- 7. Clean hole and run 4.500" casing to total measured depth with external casing packers as required to protect fractures from cement contamination. Insure that a stage tool is placed at the top of the Cliff House and that the upper Mesaverde and the Lewis Shale is cemented back into the existing 7.000" casing. Utilize 50:50 Pozmix containing 2 % gel, 6 % salt, 0.4 % Halad 344, 0.25 #/sx flocele mixed and pumped at 13.5 ppg. Use 40 % excess.
- 8. Drill out the cement and equipment as required and run 2.375" tubing with a muleshoe on bottom and a SN one joint up. Rig down and move out drilling tools. If liquid loading appears to be a problem, design and install a pumping unit. Keep well flowing while rigging down and connect to sales ASAP.

brad



PPELIMINARY

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

File No.: Date:

barrett.xlw 8/31/95

Lease:

Barrett

Well No.

LS #2

County: San Juan, New Mexico Former name: Same

Location: Field:

NE/4 Section 19, T31N, R09W

Former name:	Same	Field:	Mesaverde			8/31/95 10:0:
OBJECTIVE:	Exploit horiz	contal Mesaverde				
METHOD OF DRILLING			APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	5	DEPTH OF DRILLING	Actual GLEstim	nated KB	6557	6570
Rotary		0 - TD	Marker		Depth (ft.)	SS Elev. (ft.)
LOGGING PROG	RAM		Ojo Alamo, base		2,574	3,996
TYPE		DEPTH	Fruitland		2,904	3,666
		Pictured Cliffe		3,274	3,296	
			Lewis Shale		3,370	3,200
			Cliff House*		5,187	1,383
				KOP		
		•		4045		
REMARKS:			TOTAL DEPTH	TVD	5,761	
			MEASURED DEPTH	6300		ĺ
			* Possible pay			
			#Probable completion			
			OJO ALAMO IS POSSIBLE USEABLE WATER		TER	
SPECIAL TESTS			DRILL CUTTING SAMPLES DRILL		DRILLING	TIME
TYPE		DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPTI
None			None	* *10'	Geolograph	0 - TI
			Remarks:			
Remarks:		Mud Logging Program: **Full two-man mud logging services/Benchmark				
			Coring Program:	None	_	
			1			

Approx. Interval

Type Mud

Weight, #/gal

Vis, sec/qt.

W/L, cc's/30 min.

0-----SCP

SCP---ICP ICP---TD

existing existing

air/foam

REMARKS:

MESAVERDE WILL BE DRILLED HORIZONTALLY TO INTERCEPT FRACTURE SYSTEM

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	172	9.625	CASING SET	
Intermediate	5,081	7	CASING SET	
WHIPSTOCK	4,045	4.5	6 1/8"	Cement back into existing 7.000" at = /- 3,000
Production	6,300			

Remarks:

Southern Rockies engineering staff to design cementing program.

GENERAL REMARKS:

Southern Rockies engineering staff to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY: /	APPROVED:	APPROVED:
StJohn/TerBest/bliyeu	1/1/lmc	
Form 46 7-84bw	For Production Pept	For Exploration Dept.
• / (<u>)</u>	· // // //	