District I - (305) 393-6161 PO Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 District III - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 District IV

New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505

(505) 827-7131

Form C-140 Originated 11/1/95

> Submit Original Plus 2 Copies to appropriate District Office

-. Haefele

APPLICATION FOR QUALIFICATION OF WELL WORKOVER PROJECT AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

1.	Operator:	Amoco Production Compan	y	OGRID #:	000778							
	Address:	_										
	Contact Party:	Patricia J. Haefele		Phone:	(303) 830-4988							
II.	Location of Wel	Barrett A 1E 1: Unit Letter <u>G</u> , <u>1640</u> Feet fr PM, <u>San Juan</u> County.	om the North line and 2215 Feet from the Eas	API #:	3004525943 n <u>20,</u> Township <u>31N</u> ,							
III.		Procedures Commenced: Procedures were Completed:	7/9/96 8/26/96									
IV.	Attach a descrip	tion of the Workover Procedu	res undertaken to increase the projection from	the Well.								
V.	Attach an estim	ate of the production rate of	f the Well (a production decline curve or oth luction) based on at least twelve (12) months well performance prior to performing Workover	her acceptable								
VI.		n Production Projection is base			The second second second							
	Blanco Mesavero	de/Basin Dakota	D	ecei	Wen							
VII.	AFFIDAVIT:		In	OCI - 91								
	State of Colorado County of Denve) ss.	@[]	NOD 1 June 1								
	Patricia J. Haefele, being first duly sworn, upon oath states:											
	1. I am the Operator or authorized representative of the Operator of the above referenced Well.											
	2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.											
	3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.											

(Name) Staff Assistant

(Title)

	RIBITATANDISWORN TO before me inis 2nd day of October 1996. NOTARY PUBLIC STATE OF COLORADO mmission expires: Usquat 12, 1999
FOR O	IL CONSERVATION DIVISION USE ONLY:
VIII.	CERTIFICATION OF APPROVAL:
	This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of
	3)-
	District Supervisor, District
	Date: 11/1/96
IX.	DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.
	DATE:

s (s)

f .

Form 3160-4

UNITED STATES

FOR APPROVED OMB NO. 1004-0137

(October 1990)		AR LIVII						RC		(See other la-	Ex	plica: Di	ecember 31,1991	
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	ction Company					,	Attentions				Barret		'	
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FORMATION -	TOP	MOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	1 1	TRUE VEXT. DEVT
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Barrett A 1E

3004525943

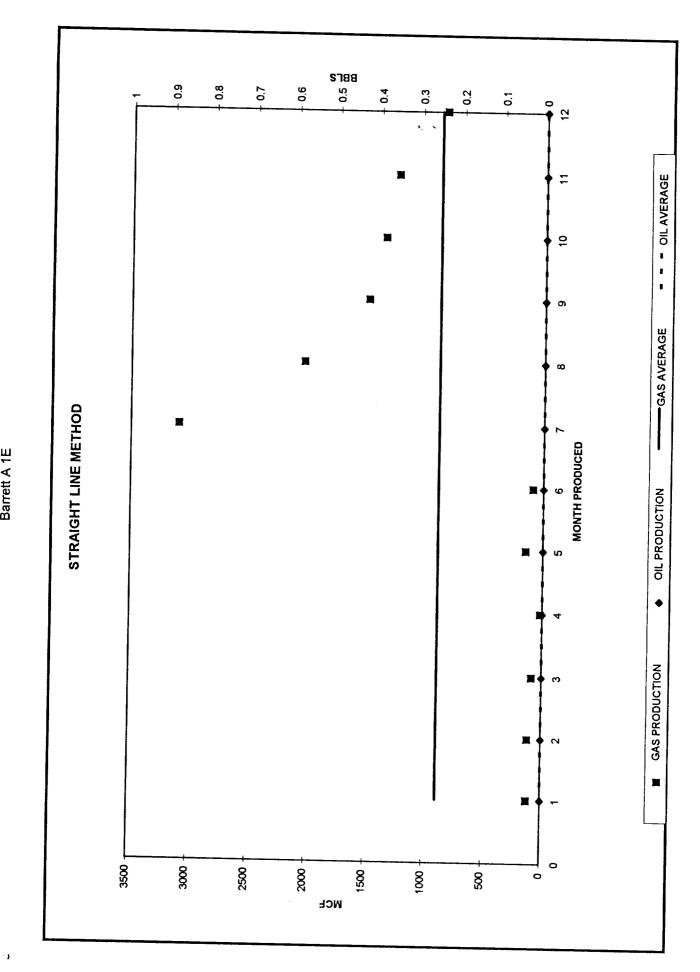
Sec 20 T31N R9W

MIRUSU 7/9/96. SITP 160 psi, SICP 220 psi, SIBH 50 psi. Tag at 7719'. Set CIBP at 6000'. Circulate hole and pressure test to 500 psi, held ok. Pressure test CIBP to 2000 psi, failed. Test liner to 2000 psi, held ok. Run CBL from 3450-5978'. Est. TOC at 3500'. Isolate casing leak at 3096-3128'. Run CBL from 196-3452'. Est TOC at 3100' and 560'. Squeeze 3096-3128' with 150 sx Class G lite, 15.8 ppg, average rate 1.5 bpm, maximum pressure 1500 psi. Drill out cement 2974-3130' and pressure test to 1000 psi, held ok. Set frac liner from 3034-3217' over squeeze leak at 3110' and pressure test to 3000 psi, held ok. Limited entry perforations in Point Lookout at: 5349, 5353, 5374, 5378, 5382, 5386, 5390, 5394, 5418, 5434, 5438, 5442, 5470, 5502, 5533, 5586, 5622, 5645, 5680, 5684' with 1 JSPF, .340" diameter, 20 total shots, 3.125" gun, 120 deg phasing. RDMOSU 7/15/96.

MIRUSU 8/8/96. Removed frac liner set at 3034-3217'. Acidize from 5349-5684' with 31 bbls FE HCL. Frac well from 5349-5684' with 49,324 lbs 16/30 sand, 719,747 scf, 70% quality, max pressure 3500 psi, max rate 45.0 bpm. Flow well. Set RBP at 5315' and pressure test plug to 300 psi with packer set at 5275', held ok. Limited entry perforations in Menefee at: 5023, 5067, 5084, 5088, 5093, 5116, 5120, 5184, 5188, 5192, 5196, 5204, 5208, 5244, 5249, 5191, 5297' with 1 JSPF, 17 total shots, .340" diameter, 3.125" gun, 120 deg phasing, 12.5 gms. Acidize from 5023-5297' with 17 bbls Fe HCL, max pressure 4700 psi, max rate 2 bpm. Displace with 19 bbls water. Frac well from 5023-5297' with 52,636 lbs 16/30 sand; 791,286 scf, 70% quality, max pressure 3020 psi, max rate 45.0 bpm. Flow well. Tagged sand fill at 5250'. Set RBP at 5005' and pressure tested to 2200 psi, held ok.

Limited entry perforations in Cliffhouse at: 4632, 4636, 4640, 4644, 4807, 4879, 4900, 4922, 4926, 4934, 4938, 4942, 4945, 4950, 4954, 4961, 4965, 4970, 4974, 4978' with 1 JSPF, 20 total shots, .340" diameter, 3.125" gun, 120 deg phasing, 12.5 gms. Acidize from 4629-4950' with 19 bbls FE HCL, avg pressure 2900 psi. Frac well from 4632-4978' with 50,343 lbs 16/30 sand; 713,679 scf, 70% quality, avg pressure 2630 psi, avg rate 17.2 bpm. Flow well. Tag fill at 4961', cleanout 36' to RBP at 4997'. Tag fill at 5208', cleanout to RBP at 5315'. Tag at 5696', cleanout to CIBP at 6000'. Flow back. Tag at 5968', clean out to 6000'. Mill up CIBP from 6000-6005', cleanout from 7498-7506', didn't make any hole. Tag at 7498', cleanout to 7735' PBTD. Flow well. Tag fill at 7735'. Landed 2-3/8' tubing at 7681'. Purged tubing and casing. RDMOSU 8/26/96.

	GAS	119	116	2	ę		5	87	3097	2037		254	1358	1250	846	888
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Page 1