District 1
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

Santa Fe, NM 87505 Fee Lease - 5 Copies

040 South Pacheco, Santa Fe, NM 87505					AMENDED REPORT						
APPLICA	TION	FOR P	ERMIT '	ro dri	LL, RE-EI	NTER, DE	EPEI	N, PLUGE	BACK,	OR A	DD A ZONE
				Operator Na	me and Address.						GRID Number
					tion Comp	any			-	۱ ،	00778
	P.O. Box 800 Denver, CO 80201										API Number
			Denve:	r, co	80201					30 - 0	45-29228
⁴ Prope	rty Code		_	-	5	Property Name					• Well No.
16904			Roberts		·						1
					⁷ Surface	Location					
UL or lot no.	Section	Townsh	ip Runge	Lot Idn	Feet from the	North/South l	ine	Feet from the	East/V	Vest line	County
A	14	29N	13W		1160	North		850	Eas	st	San Juan
		8 I	Proposed	Bottom	Hole Loca	tion If Diffe	eren	t From Su	rface		<u> </u>
UL or lot no.	Section	Townshi		Lot Idn	Feet from the	North/South L	_	Feet from the		Vest line	County
		* Proc	osed Pool 1		<u> </u>			14 10	<u> </u>		<u> </u>
Kutz, W E	Pictur							" Ртор	osed Pool	2	
	LCCUIT	OT OIL	LIS EAL			<u> </u>		 		 	
" Work T	ype Code		12 Well Type	Code	¹³ Cabl	e/Rotary		14 Lease Type C	ode	15 Grou	nd Level Elevation
N			G		Ro	tary		P			5356 '
" Mu	ltiple		17 Proposed	Depth		mation		1* Contractor		20 Spud Date	
No)		1514'		Pictured	Cliffs		Aztec	· ·		30/95
		<u> </u>	21	Propose		and Cement	Pro			.,,	30733
Hole Siz	ze .	Ca	sing Size		ng weight/foot	Setting De			of Cement		Estimated TOC
8.75"			7''		23#	250'		100			Surface
6.25"		3	.5"	9	· 2#	1514'		220			Surface
											
11 m					·						
zone. Describe t	roposed pri the blowout	ogram. If prevention	this application program, if	n is to DEE! any. Use ad	PEN or PLUG B/ ditional sheets if	ACK give the data necessary.	on the	present product	live zone s	ind propos	d new productive
\	This	us d	atid &	· 32	replie	·		nia			
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	THE STATE OF THE S										
									DUST	L 3	
I hereby certify of my knowledge		ormation g	iven above is to	ue and compl	lete to the best	OII	. CC	NSERVA	TION	DIVIS	ION
Signature: Patty Halle le Approved by:											
Printed name:	Patty	Haefe				itle:					
Title:						approval Date:			Expiration	Date:	
Date:	Staff	ASSIST	Phone:				wal ·				
	9/14/95 Phone: (303) 830-4988 Conditions of Approval: Attached										

C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABLED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- 1 Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- 8 The proposed bottom hole location of this well at TD

9 and 10 The proposed pool(s) to which this well is beeing drilled.

- 11 Work type code from the following table:
 - N New well
 - E Re-entry
 - D Drill deeper
 - P Plugback
 - A Add a zone
- 12 Well type code from the following table:
 - O Single oil completion
 - G Single gas completion
 - M Mutiple completion
 - I Injection well
 - S SWD well
 - W Water supply well
 - C Carbon dioxide well
- 13 Cable or rotary drilling code
 - C Propose to cable tool drill
 - R Propose to rotary drill
- 14 Lease type code from the following table:
 - S State
 - P Private
- 15 Ground level elevation above sea level
- 16 Intend to mutiple complete? Yes or No
- 17 Proposed total depth of this well
- 18 Geologic formation at TD
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and BOP

program. Attach additional sheets if necessary.

The signature, printed name, and titia of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

OIL CONSERVATION DIVISION

API NO.	(assigned	bу	OCD	on	New	We	lls

, ,	Box 1980, Hobbs, NM 88240 F.O.Box 2008 Santa Fe, New Mexico 87504-2088						30-045-29228			
DISTRICT II P.O. Drawer DD, Artesia,	NM 88210				5.1	ndicate T	ype of Lease STA	ATE	fee 💢	
DISTRICT III 1000 Rio Brazos Rd., Azte	ec, NM 87410				6. 8	State Oil &	c Gas Lease l	No.		
APPLICATIO	N FOR PERMIT TO	DRILL, DEEP	EN, OR PL	UG BACK						
la. Type of Work:					:		ne or Unit Ag	greement Na	me	
DRILL b. Type of Well:	X RE-ENTER	R DEEPEN	I PI	LUG BACK	Rob	erts				
OIL GAS WELL X	OTHER		SINGLE X	MULTIPLE ZONE		6904				
2. Name of Operator AMOCO PRODUCTION (COMPANY 778	Attent Julie L	on: . Acevedo		8. \	Well No.		#1		
3. Address of Operator P.O. Box 800 Der	nver Colora	do 802	01	ofa	9, P	ool name	or Wildcat	at the	1/2 EXT	
4. Well Location Unit LetterA	: 1160 Feet F	From The	North	Line and	850	Feet I	From The	East	// Line	
Section	14 Town	ship 29N	Range	13W	NMPM		SAN JU	IAN	County	
		10 P	and Doub		11. Forma	• • • •		12. Rotary	or C T	
		10. Fio	oosed Depth 1514' ⁻	TD		uon ctured C	liffs	•	Rotary	
13. Elevations (Show wheth	ner DF,RT,GR,etc.)	14. Kind & Status	Plug. Bond	15. Drilling Con			16. Approx.	L	<u>:</u>	
5356'	1			Α	ztec			4/30/9	5	
17.	PI	ROPOSED CA	SING AND	CEMENT PR	OGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPT	H SA	ACKS OF	CEMENT	Е	ST. TOP	
8.75"	7"	23#		250'		1 <i>Ó 🔾</i> sa	–	Su	rface	
6.25"	3.5"	9.2#		1514'		220	CIB	Su	rface	

on con DIV.

	400 A	District
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSED PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.	IAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUC	TIVE ZONE AND PROPOSED NEW
I hereby certify that the information above is true and complete to the	best of my knowledge and belief.	
SIGNATURE Juli & acinde	Sr. Staff Assistant	DATE03-24-1995
TYPE OR PRINT NAME Julie L. Acevedo		TELEPHONE NO. (303) 830-6003
(This space for State Use)		3-29.95
APPROVED BY LINE SURELL CONDITIONS OF APPROVAL, IF ANY:	TITL DEFECT OF THE STATE OF THE	MAR 2 9 1995

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

PO Box 2088, Santa Fc, NM 87504-2088

API Number

30-045-29228

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

West- Pictured Cliffs

State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ Pool Code

79680

1690	94			NOD6					# 1.			
'OGRÍD	No.				¹ Operator	r Name				*Elevation		
00778		A	<u>MOCO</u>	PROD		COMPANY				5356		
					10 Surface	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County		
A	14	29 N	13 W		1160	NORTH	850 EA		ST	SAN JUAN		
			11 Bot	tom Hole	E Location 1	If Different Fro	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County		
12 Dedicated Acr	es '' Joint	or Infill 14	Consolidatio	n Code 15 O	rder No.					***************************************		
160												
NO ALLOV	VABLE \					ON UNTIL ALL			EN CO	SOLIDATED		
		OR A	NON-ST	ANDARD	UNIT HAS B	EEN APPROVED						
16							¹⁷ OPER	ATOR	CERT	rification		
						,1				contained herein is browledge and belief		
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						© <i>85</i> 0		11 11: 2 acoul				
							Signature	Signaure				
							Julie Printed Name	L. Ace	evedo			
							Sr. St		ssist	ant		
				i	ļ		Title	urr A.	<u> </u>			
				I			3/24/9 Date	5				
				14								
	ŀ						ll l			TFICATION		
	l									shown on this plat I surveys made by me		
	1						or under my s	upervision, a	ınd that th	e same is true and		
						WEIN .	correct to the	ovemb	ër 1, 1	1994		
							Date of Surve	Date of Survey Signature and Scal of Professional Adaptoper: MEXIC				
						8 1995 U	Signature and	SAL RI Pro	Cisional 4	descrer:		
						8 1995 M. DIV. M. 8		CA	MEXIC	(' \		
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				<u></u>			Certificate Nu	POFF	Mare	<u>``</u>		

AMOCO PRODUCTION COMPANY DRILLING PROGRAM

File No.:

roberts 1.xlw

Date:

1/25/95

Lease: County:

Former name:

Roberts

San Juan County, New Mexico

Well No.

Surface Location: 1160' FNL & 850' FEL of Section 14, T29N, R13W

Field:

OBJECTIVE: Develop PC					
METHOD OF DRILLING		APPROXIMATE DEPTHS	OF GEOLOGICAL	MARKER	
TYPE OF TOOLS	DEPTH OF DRILLING	GLEstimated KB		5356	5369
Rotary	Ground Level - TD	Marker		Depth (ft.)	SS Elev. (ft.)
LOGGING PROGRAM		Ojo Alamo			
TYPE	DEPTH	PC **		1,224	4,145
		Lewis Shale		1,464	3,905
Triple Combo (FDC-CNL	TD to surface in one run	Cliff House			
HRI-SP-GR-Micro)		Menefee Shale			
		Point Lookout		1	1
		Mancos			
		Gallup			
REMARKS:		Greenhorn			
		Dakota			İ
		TOTAL DEPTH		1,514	3,855
		* Possible pay			
		**Probable completion			
		Ojo Alamo is possible usal			
SPECIAL TESTS		DRILL CUTTING SA	MPLES	DRILLING	TIME
TYPE	DEPTH INTERVAL, ETC	FREQUENCY	DEPTH	FREQUENCY	DEPTH
None				Geolograph	Int - TD
		Remarks:			
Remarks:		Mud Logging Program:	None		
		Coring Program:	None		

MUD PROGRAM:

Approx. Interval 0 - 250'

Type Mud Spud

Weight, #/g

Vis, sec/qt

W/L, cc's/30 min.

Production

LSND

8.6 - 9.5

Sufficient to clean hole

REMARKS:

CASING PROG Casing String	RAM: Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc	
Conductor Surface Intermediate	250	7*	8.75 "	1	
Production	1,514	3.5*	6.25"	1, 2, 3	

Remarks:

- 1 Circulate cement to surface.
- 2 Production cement to be designed by Denver drilling staff.
- 3 Casing set 50' into the Lewis Shale.

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:	Logging program reviewed by:	
PREPARED BY:	APPROVED:	APPROVED:
Grotke/Ovitz		
Form 46 7-84bw	For Production Dept	For Exploration Dept.
3/23/95 17:38	•	•

CEMENTING PROGRAM

blp

Roberts #1

Well Name:

Roberts #1

Location:

1160' FNL X 850' FEL, Sec 14, T29N, R12W

Field: API No.

County: State:

San Juan New Mexico Well Flac

Formation: KB Elev. (est.)

Pictured Cliff 5369 ft.

GL Elev. (est.)

5356 ft.

ogram:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Weigh (lb/ft.)	t Casing Grade	Thread	TOC (ft.)
Surface	250	8.75	7.000	23	J-55	8R. LT&C	Surface
Production	1,514	6.25	3.500	9.2	H-40	8R, EUE	Surface
				•			

Casing Proper	ties:	(No Safety Fa	ctor Included)				
Casing String	Casing Weight	Burst	Collapse	Joint St.	Capacity	Torque(ft. lbs.)	Drift
	(lb/ft.)	(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.)	Opt/Min/Max	(in.)
Surface	23	4360	3270	313	0.0393	• • •	6.241
Production	9.2	5080	5380	79	0.0087		2.867

Progr	

Apx. Interva	Mud Type	Mud Weight (lb/gal)	Recommended Mud Properties Prior Cementing:	
(ft.)			PV	< 20
			ΥP	<10
0 - SCP	Spud	8.6-8.8	Fluid Loss	<15
SCP - TD	LSND	8.6-9.5		

cementing	Program:

	Surface	Production
Excess %, Bit	75	30
Excess %, Caliper	NA	30
BHST (est. deg. F)	55	100
Pipe Movement	NA	NA
Rate, Max. (bpm)	1 truck	4
Rate, Recommended (bpm)	6	4
Pressure, Max. (psi)	200	2000
Shoe Joint	40'	40
Batch Mix	NA	NA
Circulating prior cmtng (hr.)	0.5	. 1
Time Between Stages,(hr.)	NA	NA
Special Instructions	1,6,7	2,4,6,8

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

Notes:

- *** Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- *** Do not wash up on top of plug. Wash pumps and lines. We want to do rig less completions.

CEMENTING PROGRAM

blp

Roberts #1

Surface:

Preflush

20 ыы.

Fresh Water + dye marker

Slurry 1

TOC@Surface

100 sk

Standard Cement

+ 2% CaCl2

+ 1/4 lb/sk flocele

95 eu. ft. // 423

Slurry Properties:

density

(lb/gal)

yield (ft3/sk)

water (gal/sk)

slurry 1

15.60

1.18

Casing Equipment:

5.20

(Halliburton) 7", 8R, ST&C

1 Type M Guide Shoe

1 Insert Float w Auto Fill

1 Weld A

3 S-4 Centralizer

1 Top Wooden Plug

Version No. 2 03/23/95 688A2.XLS

CEMENTING PROGRAM

blp

290 cu. ft.

Roberts #1

Production:

Preflush

20 bbl. 10 bbl.

Mud Flush Fresh Water

Lead Cement

Slurry 1

50/50 Std..Cmt/Poz A

+ 2% gel (total)

+ 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk flocele

Slurry Properties:

density

yield

water

(ID)

(lb/gal)

(ft3/sk)

(gal/sk)

slurry 1

13.50

1.32

5.59

Note:

The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement. Slow to 2 bpm for the displacement. Displace with 2% KCl or 0.2% Clay Fix II water. This is to be a rigless completion.

Casing Equipment:

Halliburton

3 1/2", 8R, EUE, (no need to cut long pin)

- 1 Super Seal II Float Shoe
- 10 S-4 Fluidmaster Centralizer
- 1 Lock Clamp
- 1 Weld A
- 1 Omega Latch Down Plug and Baffle

