Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES

SUBMIT IN TRIPLICATE* (Other Instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

i	ם×ינ	ires A	ugust]	31,	1985		
					BERIAL	NO.	
		-1-1-	~~				

•	DEPARTMENT	OF THE I	NTER	IOR		<u> </u>		
					<i>J</i>	5. LEASE DESIGNATION	AND BERIAL NO.	
BUREAU OF LAND MANAGEMENT 30-039-25122					SF 078762			
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						N/A 2 LINDIAN ALLOTTER OR THINE NAME		
1a. TYPE OF WORK						" N/A - 2 - 4	1	
	LL X	DEEPEN [\neg	PLUG BAC	κП	7. UNIT AGREEMENT N.		
b. TYPE OF WELL					·	ROSA - (Lt.	¥. ✓	
OIL WELL W	ELL X OTHER		SIN	CLE MULTIPE	·E 🔲	S. FARM OR LEASE NAM	43	
2. NAME OF OPERATOR		arr connons				N/A		
	MITCHELL ENER					O. WELL NO.		
3. ADDRESS OF OPERATOR	555 17th STRE	ET SUITE #	3500			358		
	DENVER, CO 80					10. FIELD AND POOL, O	R WILDCAT	
4. LOCATION OF WELL (ROAt surince	eport location clearly and	in accordance wit	th any St	ate requirements.*)		BASIN FRUITL		
,5	600 FEL, Sec.	13 m31NL	こちな			AND BURYEY OR AR	ILK.	
At proposed prod. zon	, 000 rmi, sec.	13, 13111-1	1311			T31N-R5W	<i>√</i>	
						Sec.13: SESE		
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	KEST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISH	13. STATE	
± 62 mile	es from Blanco,	NM				RIO ARRIBA	NM	
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. 80.	OF ACRES IN LEASE		OF ACRES ASSIGNED		
PROPERTY OR LEASE L	INE, FT.	915'	2560' TO THIS WELL.		三 三 320 ·			
18. DISTANCE FROM PROP	OSED LOCATION*		l — — — — —	POSED DEPTH	20. ROTAL	ARY OR CARLE TOOLS		
TO NEAREST WELL, DI OR APPLIED FOR, ON THE		1000	4	1000'	ROTARY			
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.) In	is action is sub	ect to t	echnical and		22. APPROX. DATE WOLK WILL START*		
ϵ	5613' GR/ pro	cedural review	pursuar	nt to 43 CFR 3165.3		August 30, 1991		
23.	r	d appeal pursus PROPOSED CASH	MC AND	CFR 3185.4. CEMENTING PROGRA	MURIELIN	G OPERATIONS AUTHO	RIZED ARE	
	, 	,						
SIZE OF HOLE	SIZE OF CASINO	WEIGHT PER F		SETTING DEPTH		AL REGUIREMENTS		
12-1/4"	8-5/8''		-55	500'	350 sxs - circ to surface			
7-7/8"	5-1/2"	15.5# K	-55	4000'	/00 s	sxs - circ to s	surrace	
			1					
The operator p	proposes to dril	ll to depth	suff:	icient to test	the Fr	uitland Format:	ion.	
If productive	, 5-1/2" casing	will be ru	n and	set at ±4000'.	If no	on-productive,	the	
well will be p	olugged and abar	ndoned corisi	istant	: with Federal	Regulat	tions. Any zor	nes	
above the Fru	itland may be to	ested for p	roduct	tivity prior to	abando	onment.		
E	EXHIBITS ATTACHED							
Te	Ten Point Compliance Program							
Surface Use and Operating Plan								
Exhibit No. 1 Proposed Cementing Program								
Exhibit No. 2 Blowout Preventer Schematic								
	Exhibit No. 3 Location Elevation Plat (Form C-102)							
						& nlanned road	ds. sites.	
יניו	Exhibit No. 4 One Mile Radius Map (includes existing & planned roads, sites,							

zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

Exhibit No. 5 Production Facilities Layout

Exhibit No. 6 Drilling Rig Layout

pipelines, and other facilities)

signe flates (luderson TITLE DIST	F. Prod. Mgr DATE 7/19/9/
PERMIT NO. DECE VE	APPROVED AS AMENDED
CONDITIONS OF APPROVAL, IF ANY: OIL CON. DIV.	007.0 - 4004
OIL CON. DIV.	= _ VAPEA MANAGER

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, anti-environmental factors involved with drilling for oil and/or mas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gan lease.

DRILLING PROGRAM

Attached to Form 9-331C
Mitchell Energy Corporation
Rosa Unit No. 358
SESE Sec. 13, T31N-R5W, N.M.P.M.
915' FSL, 600' FEL
Rio Arriba County, New Mexico

1. GEOLOGIC NAME OF SURFACE FORMATION

The surface formation is Tertiary Rock.

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Tertiary Rock	Surface
Ojo Alamo	2810'
Kirtland	2910'
Fruitland	3145'
Fruitland Coal	3390'
Picture Cliff	3420'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR MINERALS:

Ojo Alamo	2810'	Water
Fruitland Coal	3390'	Gas & Minerals

No other formations are expected to give up oil, gas, or water in measurable quantities.

4. CASING PROGRAMS

Hole <u>Size</u>	Interval	Section <u>Length</u>	Size (OD)	Weight, Grade and Joint	Condition
- 7 -	0-500'	500'	8 5/8"	24# K-55 ST&C	New
	0-4000'	4000'	5 1/2"	15.5# K-55 LT&C	New

PROPOSED CEMENTING PROGRAM

Refer to Exhibit #1 for description of proposed cementing program.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Refer to the descriptive layout of the blowout preventer and accompanying notes given in Exhibit #2.

PROPOSED CEMENTING PROGRAM ROSA UNIT NO. 35

BURFACE CASING

Hole Size: 12-1/4"

Casing O.D.: 8-5/8"

Depth: 500'

STAGE NO.	AMOUNT AND TYPE OF CEMENT	CEMENTING TOOLS	LOCATION	PROJECTED CEMENT TOP
1	412 Cu. Ft. (350 sxs) Class B + 46% water	Float Collar	460 Ft.	Surface
	+ 2% CaCl ₂ + 0.25 pps cello-seal	Guide Shoe	500 Ft.	

PRODUCTION CASING

Hole Size: 7-7/8"

Casing O.D.: 5-1/2"

Depth: 4000'

STAGE NO.	AMOUNT AND TYPE OF CEMENT	CEMENTING TOOLS	LOCATION	PROJECTED CEMENT INTERVAL
1	795 Cu. Ft. (305 sxs) 65:35 poz (Base B) + 150% water + 12% gel (Bentonite) + 0.25 pps cello-seal			Surface to to 3192 Ft.
2	140 Cu. Ft. (100 sxs) 50:50 poz (Base B) + 60% water + 2%	Float Collar	3880 Ft.	3192 Ft. to 4000 Ft.
	gel (Bentonite) + 0.25 pps cello-seal + 6.25 pps Gilsonite	Guide Shoe	4000 Ft.	

Note: This is the proposed cementing program for all Mitchell Rosa Unit wells. Actual volumes/depths will vary for each individual well.

WATER PROTECTION METHODS

- 1. An adequate number of casing centeralizers will be run through usable water zones to ensure that casing is centralized through these zones. The adequate number of centralizers to be used will be determined by API standards.
- Centralizers will impart a swirling action around the casing (such as turbulators) will be installed just below and into the base of the lowest usable water zone (Ojo Alamo). These devises will assist mud displacement, increase cement bonding potential, and create an effectively hydraulic seal.

Submit to appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Ilnergy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION-

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

EXHIBIT NO. 3 PAGE 1 of 2

BLM

P.O. Box 1980, Hobbs, NM 88240 **DISTRICT II** P.O. Drawer DD, Artesia, NM \$8210

WELL LOCATION AND ACREAGE DEDICATION PLAT

23 PM 2: LI MITCHELL ENERGY CORPORATIO

1000 Rio Brazos Rd., Aztec, NM 87410 ROSA UNIT NO. 358 All Distances must be from the outer boundaries of the section Operator Mitchell Energy Corporation Rosa Unit 358 Unit Letter Section Township County 31 North 5 West Rio Arriba MMM Actual Footage Location of Well: 915 South 600 feet from the line and feet from the East line Ground level Elev. Producing Furmatkin Kirk Dedicated Acreage: 6613 Fruitland Basin Fruitland Coal 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or harburs marks on the plat below. 2. If more than one lease is dedicated to the well, custime each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? Yes If answer is "yea" type of consolidation If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary, No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Printed Name OCT i3 19**91** OIL CON. DIV. DIST. 3 Section 13 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and June 20, 1991 Signature & Seal of 6001 Professional Surveyor 91'5' Certificate No. 3795 1980 2.110 2640 990 1320 1650 330 660 2000 1500 1000 -500 Frederick H. Reed

