Form 3160-3 (November 1983) Formerly 3-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

30-039-25/2/ Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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Budget Burcau No. 1004-0136
Expires August 31, 1985

5. LEANE DESIGNATION AND BERIAL NO.

•	BUREAU OF	LAND MANAG	EMEN	T BLA	^	SF 078894		
APPLICATION	Y FOR PERMIT T	O DRILL, D	DEEPE	N, OR PLUG B		39 IF INDIAN, ALLOTTEE OR TRIBE NAME		
DRILL I DEEPEN D						N/A W PHIT AGREEMENT NAME		
DKI b. TYPE OF WELL	PE OF WELL					ROSA Unit		
OIL WELL X OTHER SINGLE ZONE ZONE						8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	MITCHELL ENER	GY CORPORAT	rion	/		N/A 9. WELL NO.		
3. ADDRESS OF OPERATOR	555 17th STRE			· ·		349		
2 ,	DENVER, CO 80					10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (R	eport location clearly and	In accordance wit	h any S	tate requirements.*)		BASIN FRUITLAND COAL		
1905	5' FNL, 1410'FEL	, Sec. 29,	T31N-	-R4W	٠,٠	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zon						T31N-R4W Sec. 29: SWNE		
14. DISTANCE IN MILES .	AND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE	;•		12. COUNTY OR PARISH 13. STATE		
± 61	Miles from Bla	nco, New Me	exico			RIO ARRIBA V NM		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r			OF ACRES IN LEARE		OF ACRES ASSIGNED		
PROPERTY OR LEASE I. (Also to nearest drig	g, unit line, if any)	1905 '		2284./6	20 1074	AY OR CABLE TOOLS		
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED, T	/2 mile	13. 110		20. 11011	ROTARY		
21. ELEVATIONS (Show who			<u></u>	4000'	<u>'</u>	22. APPROX. DATE WORK WILL START*		
his action is subject to ocedural review pursu	n	685' GR ^j			······ TSTATE FEB	August 30, 1991		
ndilappeal pursuant to		ROPOSED CASI	NG AND	CEMENTING PROGRA	£ 112	NG OPERATIONS AUTHORIZED ARE IT TO COMPLIANCE WITH ATTACHED		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	00Т	SETTING DEPTH	"GENE	RAL PEUNINEMERIOSSIENT		
12-1/4"	8-5/8"		<u>-55</u>	500'		sxs - circ to surface		
7-7/8"	5-1/2"	15.5# K	<u>-55</u>	4000'	- /00	sxs - circ to surface		
If productive well will be above the Fru F T S E E E	, 5-1/2" casing plugged and abar itland may be to XHIBITS ATTACHE ten Point Complia urface Use and (xhibit No. 1 Proxhibit No. 2 Boxhibit No. 3 Loxhibit No. 4 Or Xhibit No. 5 Proxhibit No. 6 Droxhibit No. 6	will be rundoned considered for posted for posted for posted Cemberating Proposed Cemberation Element Mile Radicoduction Frilling Rights and the Mile Radicoduction Frilling Rights and Mile Radicoduction Frilling Rights A	n and istan roduc m lan entin enter vatic ius M acili	set at ±4000'. It with Federal It with	. If n Regula a aband -102) kisting and ot	uitland Formation. non-productive, the ntions. Any zones donment. g & planned roads, sites, ther facilities) ductive zone and proposed new productive and true vertical depths. Give blowou		
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(This space for Fed	eral or State office has	i				45555		
PERMIT NO.	WE TO B			APPROVAL DATE		APPROVED		
APPROVED BY	OT 3 1991		ITLE			AS AMENDED		
CONDITIONS OF APPRO	VAL, IF ANY :	• ,				207 0 2 1991		
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Title 18 U.S.C. Section 1001, maken at a crime for any person knowingly and willfully to make to any department or agency of the

DRILLING PROGRAM

Attached to Form 9-331C Mitchell Energy Corporation Rosa Unit No. 349 SWNE Sec. 29, T31N-R4W, N.M.P.M. 1905' FNL, 1410' 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	2845'
Kirtland	2945'
Fruitland	3180'
Fruitland Coal	3420'
Picture Cliff	3550'

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

Ojo Alamo	2845'	Water
Fruitland Coal	3420'	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 Length	Size (OD)	Weight, Grade and Joint	Condition
, -	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.

EXHIBIT NO. 1 PROPOSED CEMENTING PROGRAM ROSA UNIT NO. 349

SURFACE 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
	Class B + 46% water + 2% CaCl ₂ + 0.25 pps cello-seal	Guide Shoe	500 Ft.	
	cello-seal			

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.	

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

WATER PROTECTION METHODS

- 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 1. 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 2. effectively hydraulic seal.

Submit to Appropriate District Office State Lease - 4 copies Fos Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Ravised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

RECEIVED BLIPAGE 1 OF 2

MITCHETAL ENERGY SORPORATION

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT | P.O. Box 1980, Hobbs, NM 88240

DISTRICT III
1000 Rio Brazos Rd., Aztoc, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLATFORM TO 1. N.M.

Al Di	epauces was pa	from the outer bo	oundaries of the	rection		
Орегмох		Loase				Well No.
Mitchell Energy Corp.		Ros	a Unit			349
Unix Letter Section Township G 29 31	Noxth	Range	est		Councy	Rio Arriba
G 29 31 Actual Footage Location of Well:	, North	1 14		NMPM		KIO MILIDA
1905 foot from the North	line and	14	10	foot from	the Eas	t line
Ground level Elev. Producing Formscon		Pool				Dedicated Acresge:
6685' Fruitland			ruitland (320 Acres
 Outline the acrospe dedicated to the subject w 	rell by colored pe	ocal or bacture rose	tos on the plas bak	7₩.		
2. If more than one lease is dedicated to the well	l, outline such and	i identify the owne	nahip thermod (both	aa to worki	ng interest and	royalty).
3. If more than one losse of different ownership	in dadioment to th	من محاد المعدد المعدد	of all o	have mean	ideed by mm	overnitivation.
umitization, force-pooling, stc.?	DE CHOCHCHECHE NO US	a well, like the the	Brock of all owners	DOCK CONTAC	and of con	
You No If a		pe of consolidation				
If answer is "no" list the owners and tract descri- this form if necessary.	puone which have	s actually been com-	solideked. (U≡o re	verse side of		
No allowable will be samgned to the well until a	Il interests have b	oes consolidated ()	y communitizatio	n, unitization	s, forced-pools	ng, or otherwise)
or until a non-standard unit, aliminating such int	erest, has been ap					
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