Form 3160-3 (November 1983) (formerly 9-33FC)

SUBMIT IN TR.

UNITED STATES

Other instructions on reverse side)

20 025-3149

Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

		berream of graphs		RIOR		U. LEASE DESIGNATION AND DESIGNATION
	BUREAU OF	LAND MANA	GEME	NT		5. LEASE DESIGNATION AND SERIAL NO. NM 63763
APPLICATIO	N FOR PERMIT	TO DRILL.	DEEP	EN OR PLUG I	RACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1a. TYPE OF WORK		· · · · · · · · · · · · · · · · · · ·		IN OK PLOU	שאכוו	N/A
b. Type of well	RILL X	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT NAME
oir [GAS T	Swd well Injection w	s	INGLE 🔽 MULTH	PLE [Sapphire Federal Uni
2. NAME OF OPERATOR	WELL OTHER	HJECTION WO	2 7 Z	ONE LA ZONE		8. FARM OR LEASE NAME
Mitchell En	ergy Corporation	1				Sapphire Federal SWD
3. ADDRESS OF OPERATOR						1
P. O. Box 4	000, The Woodlan	ids, Texas	773	887-4000		10. FIELD AND POOL, OR WILDCAT
At surface	Report location clearly and				`	Service Well Queen
	1,750' FEL and	1,600' FSL	. (NW	/SE) Unity	þ	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. 20		1 6001 501	/ NILI	/CE)		
4. DISTANCE IN MILES	1,750' FEL and AND DIRECTION FROM NEAR	1,0UU FOL	T OFFIC	/SE)		Sec. 23, T19S, R33E 12. COUNTY OR PARISH 13. STATE
	of Hobbs, New M			-		
5. DISTANCE FROM PROP LOCATION TO NEARES	USED*		16. No	O. OF ACRES IN LEASE	17. No. 0	OF ACRES ASSIGNED
PROPERTY OR LEASE (Also to nearest dri	LINE, FT. g. unit line, if any)1,600	0'	520	Lse, 960 Unit	тот	HIS WELL 40
5. DISTANCE FROM PROP TO NEAREST WELL, I	POSED LOCATION®			OPOSED DEPTH	20. ROTAL	AY OR CABLE TOOLS
OR APPLIED FOR, ON TE	IIS LEASE, FT.	50'		4,820		Rotary
	ether DF, RT, GR, etc.)	Can	itan	Controlled Wat	o . D	1 00
3643GR		<u> </u>		Connenga (VC)	er bosk	12-10-91
		PROPOSED CASI	NG ANI	CEMENTING PROGRAM	M R-11;	-P Potash Secretary's Poto
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO		SETTING DEPTH	T	
2 1 / /					1	QUANTITY OF CEMENT
	8 5/8	24#		500'	300 s	
	8 5/8 5 1/2	24# 17#		500' 4300'		x "C" IOC = Surface
7 7/8	5 1/2	17#		4300'	1200 s	x "C" TOC = Surface x 50/50 POZ TOC = Surfa
on this lease. Following attached attac	roposes to drill of dispose of the Specific programma. Departing Plan A - Blowout Prevocation & Elevat anned Access Rome-mile Radius Marches Research Resea	an injecti salt water ams as per enter Equip ion Plat ads AFFROVAL ap GENERAL SPECIAL S	r pro Onsh SUB REQU STIPUI	### 4300' ##################################	en form two De Order # Product Drillin	ation. This well laware oil wells located in are outlined in the tion Facilities Layout al Resources Examination
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Subject to And Like Approval by State

*See Instructions On Reverse Side

MOS: 11-6-91

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

This information is being collected to allow evaluation of the technical, safety, and en- RECEIVED vironmental factors involved with drilling for oil and/or gas 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 gas lease.

DEC 1 2 1991

CD HOBBS OFFICE

DRILLING PROGRAM

Attached to Form 3160-3 Mitchell Energy Corp. Sapphire Federal SWD #1 1750' FEL & 1600' FSL Sec. 23, T19S, R33E Lea Co., New Mexico

Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Permian	surface
Yates	3300′
7-Rivers	3720 <i>'</i>
Queen	4330'
Total Depth	4820′

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Upper Permian Sands 100′ fresh water

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8 5/8" casing at 500' and circulating cement back to surface. All zones above the Queen will have cement circulated across them behind the 5 1/2" casing to be set at 4300'. The Queen formation will be left open hole to TD of 4,820' for maximum injectivity.

4. Casing Program:

<u>Hole Size</u>	Interval	OD Casing	Weight,	Grade	Jt.	Cond	. Type
12 1/4" 7 7/8"	0-500 0-4300	8 5/8" 5 1/2"	24# 17#	K-55 K-55			

Cement Program:

8 5/8" surface casing:	Cement to surface with 300 sx Class "C" + 2%
	CaCl ₂ + 1/4#/sx Flocele.

5 1/2" production casing: Cemented w/1200 sx 50/50 "H"/Poz + 0.8% Halad9 + 5#/sx salt + 1/4#/sx Flocele. This slurry is designed to circulate cement to

surface.

RECEIVED
DEC 1 2 1991
OCD
HOBSS OFFICE

MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

Sapphire Fed. SWD #1 Lea County, New Mexico

EXHIBIT 1

CONFIGURATION

STACK REQUIREMENTS

No.	l ltem		Min. 1.D.	Min. Nominal
1	Flowline			
2	Fill up line			2"
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hy operated rams	ydraulically		
-6 a	Drilling spool with 2" min 9" min cheke line outlets			
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Cate =	3-1/8"	
0	Gate valve power opera	ted	3-1/9"	
9	Line to choke manifold			
10	Valves	Gate □ Plug □	-2-1/16"-	W 100
-11-	Gheek valve		2-1/16"	
12	Casing head			
13	Valve	Gate □ Plug □	1-13/16"	
14	Pressure gauge with need	die valve		
15	Kill line to rig mud pump	manifold		27

(3)
ANNUL AR PREVENTER
BLIND RAMS PIPE RAMS BO D BO
SPOOL 7 3 9
HEAD (2)

		OPTIONAL		
16	Flanged valve		1-13/16"	

CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- **3.**BOP controls, to be located near drillers position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout prevventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- 8. Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- Bradenhead or casinghead and side valves.
- 2. Wear bushing, if required.

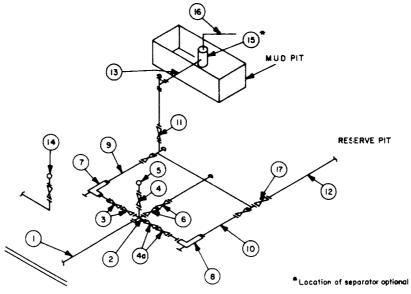
GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- 2.All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke. Valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position.
- 4.Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
- All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

- 7. Handwheels and extensions to be connected and ready for use.
- 8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.

3 MWP - 5 MWP - 10 MWP

EXHIBIT 1-A



BEYOND SUBSTRUCTURE

			MINI	MUM REQL	IREMENT:	S				
		3,000 MWP			5,000 MWP			10,000 MWP		
No.		I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3"	3,000		3″	5,000		3″	10,000
	Cross 3"x3"x3"x2"			3,000			5,000			
-	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8"		10,000
4	Valve Gate ☐ Plug ☐(2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16"		10,000
4a	Valves(1)	2-1/16"		3,000	2-1/16"		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8″		5,000	3-1/8"		10,000
7	Adjustable Choke(3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3″	3,000		3″	5,000		3″	10,000
10	Line		2"	3,000		2"	5,000		3*	10,000
11	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8"		10,000
12	Lines		3"	1,000		3″	1,000		3″	2,000
13	Lines		3″	1,000		3″	1,000		3″	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8″		10,000

- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- 5. Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes **shall** make turns by large bends or 90° bends using bull plugged tees.
- 7. Discharge lines from chokes, choke bypass and from top of gas separator should vent as far as practical from the well.

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

State of New Mexico Energy, Minerals and Natural Resources Departme...

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

EXHIBIT 2

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

DISTRICT I F.O. Box 1980, Hobbe, NM 88240

DISTRICT III
HUO Rio Brazos RA., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

ii) Rio Brazos M	I., Aziec, NM II	7410	All Distance	e must be f		outer of	underies of	10 50C0011		Wall No.
endor					Loase			CT-10		#1
Mitchell	Energy					nire	Federal	SW		Π'
t Letter	Section	Towns	•		Range		220	i	County	Lea
J	23		195.				33E	• NMPM	·	ueu
uni Footage Loc	stion of Well:								Con	uth line
1750	feet from the	East		line and		600		feet from	the SO	Dedicated Acres ge:
und level Elev.	Pro	ducing Formatic	X 0		Pool					NONE Acres
3643		Queen	J						+	NON C AGE
1. Outlie	to the screege do	dicated to the su	bject well by	colored pee	cill or had	Mild law	ETS COST GAS DAME	occow.		
	re than one Icase	In Antiowed to 6	he well custin	ne each and	identify t	se owne	rship thereof (both as to work	ing interest and	royalty).
2. If mo	LO CATE ONE MAIN	III GOOKEAN O						. .	Stand by my	altiration
3. If mo	re then one lesse	of different own	vership is dedi	icated to the	well, hav	e Che ini	CLERK OF BIT OM	WELL DOCK CORN	Total by Con	KID BOTTONI
witiz	ution, force-pool	ing. etc.7	*	. In "mad" term	e of come	olidatios	ı			
	Yes or is "so" list the	No seed trace	descriptions	which have	actually l	000 E30	solidated. (U	ne reverse side (6	
this form	n if necessary.						-141		- formal modi	ee or otherwise)
No allo	wable will be ass	igned to the well	until all inter	resta have be	ce come	ideled (the Piv	by communical Islan	CHECK CHILDREN	in tolerar poor	ag, or otherwise)
or until	a non-standard w	ak, eliminating s	uch interest, i	We need this	ACTEC BY	UK DIV				
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