		AMENDED				20 0-	
Form 3160-3 (November 1983) (formerly 9-331C) N. M. M. M. Ori		ITED STATES		UT L _f ber instruct reverse sid	PLICATE ions on e)	Form approved	No look aloc
P O Port						5. LEASE DESIGNATION	AND SEBIAL NO.
P. O. BOX 1	NO DOREAU C	I LAND MANAGEM				NM 67111	
APPERAIK	NEFOR BERMIT	TO DRILL, DEE	EPEN, OR P	LUG BA	ACK	6. IF INDIAN, ALLOTTI	B OR TRIBE NAME
IS ITTO OF WURK		_				N/A	
D. TYPE OF WELL	RILL K	DEEPEN	PLI	JG BACI	< 🗌	7. UNIT AGEBEMENT	NAME
OIL WELL	GAS		81NGLE (	MULTIPL		N/A	
2. NAME OF OPERATOR	WELL OTHER			ZONE		8. FARM OR LEASE NA	MB
Mitchell	Energy Corporat	ion				Geronimo	Federal
3. ADDRESS OF OPERATO	R COLDULAL					9. WELL NO.	
						4	
4. LOCATION OF WELL (	4000, The Woodl Report location clearly an	ands, TX 7738	7-4000			10. FIELD AND POOL,	OR WILDCAT
At surface	1980' FNL a	nd 1980' FWL (	y State requiremen	1ts.*)		Gem-Bone	Springs
unit F		IG 1900 FWL ()	SE/NW)			11. SEC. T. R. M. OR	91 7
At proposed prod. zo	DE 1980 FNT C	1980' FWL (SE,	(277.7)			AND SURVEY OR A	234
11						Sec. 31,T19S,	<b>B33E</b>
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POST OF	ICE <sup>®</sup>			12. COUNTY OR PARISE	13. STATE
	SW of Hobbs, N	M				Lea	NM
15. DISTANCE PROM PRO LOCATION TO NEARE Property or lease (Also to nearest de	8T	16.	NO. OF ACRES IN 1	LEASE	17. NO. 0 TO TH	F ACRES ASSIGNED	
18. DISTANCE TROM PRO	POSED LOCITIONS		321.72 PROPOSED DEPTH			40	
TO NEAREST WELL, Or applied for, on t	DRILLING, COMPLETED	1320'			20. ROTAB	T OR CABLE TOOLS	
21. ELEVATIONS (Show w	hether DF, RT, GR, etc.)		10,600		R	otary	
3577'GL		R-111-P Potas	L Secretar	y's Pote	osh	22. APPROX. DATE WO 5-25-91	EE WILL STAET*
-0.		PROPOSED CASING A	ND CEMENTING F	ROGRAM	Canit		
SIZE OF ROLE	SIZE OF CABING	WEIGHT PER FOOT			Copit	an Controlled	Water Basin
25"	20"	0.3 wall	SETTING DE			QUANTITY OF CEMEN	TT
17-1/2"	13-3/8"	54.5#	40'			mix to Surface	
12-1/4"			500'	، ، <del> م</del> انیک	<u>§</u> 25_s	x of Class CL	RCULATE
7-7/8"	8-5/8"	32#	2900 🕵	MCULAT	<b>8</b> 00 s	<b>x</b> Lite + 300 s	x Clarence
/-//0	5-1/2"	17 & 20#	TD		700 s	x Class H/POZ	- SEE STIPS

The operator proposes to drill to a depth sufficient to test the Bone Springs formation for oil. If productive,  $5-1/2^*$  casing will be cemented at TD. If non-productive, the well will be plugged and abandoned in a manner consistent with federal regulations. Specific programs as per Onshore Oil & Gas Order #1 are outlined in the following attachments:

Drilling Program Surface Use & Operating Plan Exhibit #1 & 1A - Blowout Preventer Equip. Exhibit #2 - Location & Elevation Plat Exhibit #3 - Planned Access Roads Exhibit #4 - One-mile Radius Map

Exhibit #5 - Production Facilities Layout Exhibit #6 - Drilling Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive 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.

SIGNED Storge Mullen George Mullen	TITLE Reg. Affairs Specialist	
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
APPROVED BY OUS MOTOR LE AND CONDITIONS OF APPROVAL, IF ANY :	AREA MANAGEN. TITLE CARLEBAD. RENEWERDER AND	DATE 6:24 41
GENERAL REQUIREMENTS AND		
SPECIAL STIPULATIONS *See I	nstructions On Reverse Side	

United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

#### 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.

A 525 C

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, and environmental 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. Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

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

DISTRICT III 1790 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

			All Uist	ances must be		r boundanes of	THE SECTOR		
(perator	<b>n</b> .				Lease				Well No.
Mitchell Energy Corporation				the second se	mo Federa	al		#4	
Unit Letter	Secti		Township		Range			County	
F'		31	19	s.		33E.	NMP	м	Lea
Actual Footage Locat 1980			orth	line and	1	980	feet fro	m the Wes	t line
Ground level Elev.		Producing	Formation		Pool				Dedicated Acreage:
3577		Bone Sp				one Sprin			40 Acres
		-	to the subject well cated to the well, (	•				king interest and	l royatty).
		ne lease of diffe ree-pooling, etc."	rent ownership is 7	dedicated to the	well, have the	interest of all ow	mers been con	iolidated by con	munitization,
<u> </u>	Yes			wer is "yes" typ	e of consolidati	oa			
If answer is	5 "BO"	list the owners	and tract descripti	ons which have	actually been c	onsolidated. (Us	e teverse side	oľ	
this form if									
			the well until all inating such intere-				atioa, theitizati	où, lorced-pooli	sg, or otherwise)
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		i T	•			1			certify that the information
									ein in true and complete to the whedge and belief.
		i						Signature	
			.086					Aco	ra Mullen
			<u>ת</u>					Printed Name	
<b></b>		╶┟╍╍╍┿				 		George I	Mullen
								Position	
								the second se	Affairs Specialist
1980'								Company Mitche	ell Energy Corp.
		1						Date	j colp:
		j						5-9-91	
		<u> </u>						SURVE	YOR CERTIFICATION
		Sect.	31, T.19	., R.33E	., N.M.P	м.		on this plat	ify that the well location shown was plotted from field notes of 13 made by me or under my
		1							nd that the same is true and he best of my knowledge and
		 _				 		Date Surveye 4/19/	
								Signature & S Professionales	AN MEXICO
								Jak	(6230) Jack
		<u> </u>						Certificate If Certificate	Chargessional the
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EXHIBIT #2 GERONIMO FEDERAL NO. 4 LEA COUNTY, NEW MEXICO Form C-102 Revised 1-1-89

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## **DRILLING PROGRAM**

Attached to Form 3160-3 Mitchell Energy Corporation Geronimo Federal No. 4 1980' FNL & 1980' FWL SE/NW Sec. 31, T19S, R33E Lea Co., N.M.

# 1. <u>Geologic Name of Surface Formation:</u>

Permian

# 2. Estimated Tops of Important Geologic Markers:

Permian	Surface
Base of Salt	2750'
Yates	2980'
Delaware	5220'
Bone Spring	7850'
1st Bone Spring SS	8920'
2nd Bone Spring SS	9700'
3rd Bone Spring Carb.	10,350'
Total Depth	10,600'

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

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 13-3/8" csg at 500' and circulating cement back to surface. Potash will be protected by setting 8-5/8" csg at 3350' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a cementing stage tool into the 5-1/2" production csg which will be run at TD.

#### MINIMUM BLOWOUT PREVENTER REQUIREMENTS

#### 3,000 psi Working Pressure

#### 3 MWP

### STACK REQUIREMENTS

No.	ltem	Min. I.D.	Min. Nominal	
1	Flowline			
2	Fill up line			2″
3	Drilling nipple			
4	Annular preventer			
5	Two single or one dual hyd operated rams	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" mir outlets in ram. (Alternate to			
7	Valve	Gate □ Plug □	3-1/8″	
8	Gate valve-power operate	ed	3-1/8″	
9	Line to choke manifold			3″
10	Valves	Gate ⊟ Plug ⊡	2-1/16"	
11	Check valve		2-1/16"	
12	Casing head			
13	Valve	Gate □ Plug □	1-13/16″	
14	Pressure gauge with need	e valve		
15	Kill line to rig mud pump m			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.
- 5. Inside blowout prevventer or its equivalent on derrick floor at all times
- with proper threads to fit pipe being used. 6.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:

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

#### **GENERAL NOTES:**

- 1. 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.
- 5.All valves to be equipped with handwheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.

## GERONIMO FEDERAL NO. 4 EXHIBIT#1



- 7.Handwheels and extensions to be connected and ready for use.
- 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.
- 10.Casinghead connections shall not be used except in case of emergency.
- 11.Do not use kill line for routine fill-up operations.



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