(November 1983) (formerly 9-331C) APPLICATIC 1a. TYPE OF WORK	DEPARTMEN	LAND MANA	NTER	(Other instr reverse RIOR	side)	- i um approve	d. u No. 1004-0136 st 31, 1985 DN AND BEBIAL NO.
	RILL 🗵	DEEPEN		PLUG BA		7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	GA8 []		e11			N/A	
	WELL OTHER		ZO			8. FARM OR LEASE N	
	ergy Corporation	n				Cochise "1" 9. WELL NO.	Federal
3. ADDRESS OF OPERATOR						2	
P. O. BOX 4 4. LOCATION OF MULTIC (At surface	1000, The Woodlan Report location clearly and	nds, TX 7 I in accordance wit					tes)
At proposed prod. zo	d 1,650' FNL me d 1,650' FNL					11. SEC., T., R., M., OL AND SURVEY OR Sec.1, T.195.	AREA
	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARIS	IR 13. STATE
	W of Hobbs, NM					Lea	NM
	ST LINE, FT. lg. unit line, if any)	330'		OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL 40	
18. DISTANCE FROM PRO TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED,	75'	19. PR	3,850	20. ROT	ARY OR CABLE TOOLS	
	hether DF, RT, GR, etc.)	,,,	l	5,650		Rotary	FORK WILL START*
3,697' GR		ĩ				7/15/92	
23.		PROPOSED CASE					
			NG AND	CEMENTING PROGRA	АМ		·
SIZE OF HOLE	BIZE OF CABING	r		CEMENTING PROGRA	<u>₩ 04991</u> 1		
SIZE OF HOLE	81ZE OF CABING	WEIGHT PER FO		SETTING DEPTH		QUANTITY OF CEM	ENT
12 1/4" 7 7/8"	8 5/8" 4 1/2"	WEIGHT PER FO 24# 11.6#	00T	setting depth 600' TD	400 s 1150	quantity of cem sks "C" - To s sks "C" - To	ENT Surface Surface
12 1/4" 7 7/8" The operator p at TD. If non-pro- as per Onshore Drilling Program Surface Use & Exhibit #A & 1, Exhibit #2 - Lo Exhibit #3 - Pla	8 5/8" 4 1/2" roposes to drill to a depth oductive, the well will be pl Oil & Gas Order #1 are o	WEIGHT PER FO 24# 11.6# sufficient to test to ugged and abando butlined in the follo	the Yate pned in a owing at Exhibit Exhibit	SETTING DEPTH 600' TD s formation for oil. If	400 s 1150 productive, h federal re-	QUANTITY OF CEM Sks "C" - To s Sks "C" - To 4½" casing will be cen gulations. Specific pro	surface surface nented
12 1/4" 7 7/8" The operator p at TD. If non-pro- as per Onshore Drilling Program Surface Use & Exhibit #A & 1/ Exhibit #2 - Lo Exhibit #2 - Lo Exhibit #3 - Pla Exhibit #3 - Pla Exhibit #4 - Or N ABOVE SPACE DESCRIB one. If proposal is to reventer program, if an 4. SIGNED Long T	8 5/8" 4 1/2" roposes to drill to a depth oductive, the well will be pl Oil & Gas Order #1 are of Operating Plan A - Blowout Preventer Equ cation & Elevation Plat anned Access Roads re-mile Radius Map Science (1) (2) (2) (3) (2) (2) (2) (4) (2) (2) (2) (5) (2) (2) (2) (2) (2) (2) (5) (2) (2) (2) (2) (2) (2) (2) (2) (5) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	WEIGHT PER FO 24# 11.6# sufficient to test for ugged and abandor putlined in the follow ip. EAT TO EATENS AND ANDERS proposal is to deepelly, give pertinent	en or plu data on	SETTING DEPTH 600 ' TD s formation for oil. If i manner consistent with tachments: #5 - Production Faciliti #6 - Drilling Rig Layou #7 - Cultural Resource ig back, give data on p subsurface locations a	400 s 1150 productive, h federal re- fies Layout at as Examination present prod nd measured	QUANTITY OF CEM	ENT Surface Surface mented ograms Hed new productive ths. Give blowout 5/21/92
12 1/4" 7 7/8" The operator p at TD. If non-pro- as per Onshore Drilling Program Surface Use & Exhibit #A & 1/2 Exhibit #A & 1/2 Lo Exhibit #2 - Lo Exhibit #3 - Pla Exhibit #3 - Pla Exhibit #4 - Or Surface Use SPACE DESCRIB Exhibit #4 - Or Sone. If proposal is to preventer program, if an 1/4. SIG NED SIG NED Long T (This space for Feder PERMIT NO. PERMIT NO.	8 5/8" 4 1/2" roposes to drill to a depth oductive, the well will be pl Oil & Gas Order #1 are of Operating Plan A - Blowout Preventer Equication & Elevation Plat inned Access Roads ie-mile Radius Map E PROFOSED PROGRAM : If p drill or deepen directional y. Mull_George Mul	WEIGHT PER FO 24# 11.6# sufficient to test i ugged and abando putlined in the follow ip. 	en or pludata on	SETTING DEPTH 600' TD s formation for oil. If i manner consistent with tachments: #5 - Production Faciliti #6 - Drilling Rig Layou #7 - Cultural Resource by back, give data on p subsurface locations a gulatory Affai PPROVAL DATE	400 s 1150 productive, h federal re- ies Layout at as Examination present prod nd measured rs Spec	QUANTITY OF CEM	ENT Surface surface mented ograms ed new productive ths. Give blowout

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the 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 operathors, 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 isond should be described in accordance with Federal requirements. Consult local State

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.

or Federal office for specific instructions.

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 S2: Consult applicable Federal or State regulations, or appropriate officials, concoming 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, 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.

DRILLING PROGRAM

Attached to Form 3160-3 Mitchell Energy Corporation Cochise "1" Federal No. 2 915' FWL & 1650' FNL SW/NW Sec 1, T-19-S, R-32-E Lea Co., N.M.

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Surface
2850′
3165′
3850′

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

Upper Permian Sands	100′	fresh water
Yates Sandstone	3400′	oil

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" csg at 600' 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 behind the 4-1/2" csg.

4. Casing Program:

<u>Hole Size</u>	Interval	<u>OD csg</u>	<u>Weight, Grade, Jt, Cond, Type</u>
12-1/4"	surf-600'	8-5/8"	24#, K-55, ST&C,New,R-3
7-7/8"	surf -TD'	4-1/2"	11.6#,K-55, ST&C, New, R-3

Cement Program:

8-5/8" Surface casing:

casing:

Cemented to surface with 400 sacks of Class "C" + 2% CaCl₂ + 1/4 #/sack Flocele. 4-1/2" Production Cemented to surface with 1150 sacks Class "C" + 5#/sack salt + 1/4#/sack Flocele.

.

COCHISE "1" FEDERAL #2 DRILLING PROGRAM PAGE 2

5. <u>Minimum Specifications for Pressure Control</u>:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (3000 psi WP) preventer. The ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be nippled up on the 8-5/8" surface csg and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of surface casing.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 3000 psi WP rating.

6. <u>Types and Characteristics of the Proposed Mud System:</u>

The well will be drilled to TD with brine and starch/saltwater gel mud system. The applicable depths and properties of this system are as follows:

Depth	<u>Type</u>	Weight <u>(ppg)</u>	Viscosity _ <u>(sec)</u>	Waterloss (cc)
0-600′	Freshwater (spud)	8.5	40-45	N.C.
600-3400′	Brine Water	10.5	30	N.C.
3400′-TD′	Brine/starch/Gel	10.5	32-34	20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

- 7. <u>Auxiliary Well Control and Monitoring Equipment:</u>
 - (A) A kelly cock will be kept in the drill string at all times.
 - (B) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

COCHISE "1" FEDERAL #2 DRILLING PROGRAM PAGE 3

8. Logging, Testing and Coring Program:

- (A) No Drillstem tests are anticipated.
- (B) No open-hole logs will be run because this well is a twin well to and 75' away from Cochise "1" Federal #1 on which open hole logs will be available. A variance is requested for no openhole GR/Neutron log in this well. A cased hole GR/Neutron will be obtained.
- (C) No conventional coring is anticipated.
- (D) Further testing procedures will be determined after the 4-1/2" production casing has been cemented at TD based on drill shows, and log evaluation.

9. <u>Abnormal Conditions, Pressures, Temperatures, & Potential Hazards</u>:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 108°F and estimated bottom-hole pressure (BHP) is 1500 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells at this depth..

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is July 15, 1992. Once commenced, the drilling operation should be finished in approximately 10 days. If the well is productive, an additional 20 days will be required for completion and testing before a decision is made to install permanent facilities.

3DRI.lgb

Submit to Appropriate Unitie Office Sine Lease - 4 copies Fee Lease - 3 copies

2.

L Level

DISTRICTI 111 Hox 1980, Hobbe, NM 88240

INSTRUCT II FO Drawer DD, Artesia, NM 88210

DISTRICT III 1040 Rin Brazon Rd.; Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Lease

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

Exhibit# 2 Cochise "1" Federal No.2 Lea County, New Mexico

জনা চন

.....

MITCHELI	ENE	RGY Corr	poration		COCHISE 1	– FEDER			<u>#2</u>
nir Letter	Section		Township		Range	-	C	County	
E		1	19:	s	321	<u>. </u>	NMTM	LEA	
thal Footage Local	tion of 1	Velt:				045			
1650	feet fro	m the	NORTH	line and	15	915	feet from th	• WEST	Dedicated Acreage:
rund level Elev.		Producing	Formation		Pool Buffalo	(Yates)			40
.3697			ites	·	1				40 Acres
1. Outline	the scre	age dedicated	to the subject we	I by colored per	cil or hachure marks	on the plat belo	₩.		
3. If mote tmitizat	than of ion, for Yes it "bo"	e lease of diff e-pooling; etc	etent by neiship in 9 No If an and tract descript	a dedicated to the sever is "yes" typ jobs which have	Identify the ownershi well, have the interest of consolidation actually been consoli een consolidated (by o	at of all owners	been consolid verse side of	ated by comm	nunilization,
No áliowa	ble will	be assigned to	o the well tintil all	interests nave b	proved by the Division	B.	.,	· · · · · · · · · · · · · · · · · · ·	
· · · · · · · · · · · · · · · · · · ·				1					OR CERTIFICATION
	+	1		1				I hereby	certify that the informa
		Ĩ			ļ				n in true and complete to ledge and belief.
	ł						00		lengt und othey.
	650	1					Sig	nature	<u> </u>
	۴	1						Seo	ge Mulle
		i					Pr	inted Name	<u>j- / / </u>
		i		1	1			George M	ullen ,
		•••••			t-			sition	·
		SEC	TION 1. T.	195. R.3	2E., N.M.P.N	1.			airs Specialist
915'								ompany	
915					i				Energy Corp.
· ·					i		D	210	<u> </u>
					1			May 22	, 1992
		1			1		4		
		1						20KVE	YOR CERTIFICATION
		1			l I		,	hereby certi	fy that the well location s
		I			1		6	n this plat	was plotted from field not
·		I			1		0	ctual survey	s made by me or undr
		1							nd that the same is true
		Ì			1		C	orrect to th	e best of my knowledge
1		i		1	1		6	elief.	
				ł	l			Date Surveyor	
					Ĺ.			5/11	D. JAQUES
				Τ				Signatore &	A PHE
1								Signatore & Signat	in the on
									(NO,
		1						2	
		1		1				1 EX	X 6280
1		i		ł	1			Vind	No Kashis
i					1		-	Certificate	and the states
		1 1			1			6290	PN// LANP A
								1/2200	MOT BS8101

Ô

500

1000

1500

2000

1980 2310 2640

1320 1650

660

3.30

n

900

Attachment to Exhibit #1

. .

NOTES REGARDING THE BLOWOUT PREVENTERS Cochise "1" Federal No. 2 Lea County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- Blow out preventer and all fittings must be in good condition, 3000 psi W.P. minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

3DRI.lgb

2 p h 2 . p J m.

RECEIVED JUN 2 8 1392

an Pranka ar