(December 1990) P. (O. BOX 1980 UNI BBS. DEPAREMEN		ره ITERIOR	BMIT IN T. Other instructio reverse side)	ons on)	Form approved, Budget Bureau Expires: Dece LEASE DESIGNATION NM 90!	No. 1004-0136 mber 31, 1991
APP	LICATION FOR P	ERMITIOD	RILL OR DE	EPEN	6.	IF INDIAN, ALLOTTE	B OR TRIBE NAME
1a. TYPE OF WORK		BUREAU	OF TAL			N/1	A
D	RILL X	DEEPEN	b AND		7.	UNIT AGREEMENT	AMB
b. TIPE OF WELL		77	$\langle \chi_1, \mathfrak{E} \rangle$			N/1	4
OIL WELL	WELL X OTHER	MAL	A State	MUCTIPLE Zone	8.	FARM OR LEASE NAME, W	IL NO.
2. NAME OF OPERATOR		n n-				uni "22" Fed	
Mitchell En	ergy Corporation	0,0,000			9.	API WELL NO.	TELAL NO. 1
3. ADDRESS AND TELEPHONE N	ю. <u></u> {	<u>k</u> (s	₩95 ₹ 				
P.O. Box 40	00, The Woodland	ds, TX 7738	7-4000 (713	3) 377-550	00 10	. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL At surface	(Report location clearly and	in accordance with	any State Acquirem	(ents.*)			(Morrow)
	1980' FSL and	660' FWL (NW/8W)		11	. BBC., T., B., M., OB	BLK.
At proposed prod. a	ione	The Constant of the Constant o		i s		AND SURVEY OR A	E #A
	1980' FSL and	•	NW/SW) (Ln	HL.		Sec. 22, T21	S, R32B
14. DISTANCE IN MILE	S AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE*	<u> </u>		. COUNTY OR PARISE	
29 miles in	a westerly dire	ction from E	unice, NM			Lea	NM
15. DISTANCE FROM PRO LOCATION TO NEAR	PUSED*		16. NO. OF ACRES I	N LEASE 1		CRES ASSIGNED	
PROPERTY OR LEASE		660 '	640		TO THIS	WELL 320	
18. DISTANCE FROM PR	OPOSED LOCATION*		19. PROPOSED DEPTH			R CABLE TOOLS	
TO NEAREST WELL, or applied for, on t	DRILLING, COMPL eted. T his lease, pt.	N/A	15,00	-	HVINEI (Rotary	
21. ELEVATIONS (Show V	whether DF, RT, GR, etc.)	······	soltan Control	Level Sill stranger th		22. APPROX. DATE WO	BE WILL START®
3719	GR	E	aprum commo	nandie das en dersee de	: (¶ ³)		1-93
23.		PROPOSED CASIN	G AND CEMENTIN	G PROGRAM	1	111-P Potesh	<u> </u>
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	T SETTING	DEPTH		QUANTITY OF CEME	NT.
17-1/2"	13-3/8", K	54.5		100' IC	CIASS C.	. TOC = Surf	200
17-1/2" 12-1/4"		<u>54.5</u>				TOC = Surf	
	13-3/8", K 9-5/8", K 7", N&S			100' I	Lite + (Class C, TOC	

The operator proposes to drill to a depth sufficient to test the Morrow formation for gas. If productive, 4¹/₂" 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 Equipment Exhibit #2 - Location & Elevation Plat Exhibit #3 - Planned Access Roads Exhibit #4 - One-mile Radius Map

ા પાંચ અન્સને **ઉપયોગ** કરવા. આ દાવસ અંગ વિ**લ્ણામ કલ્પ**ાલ હતું હતા. આ દાવસ જે વિભાગ કરવા. આ દાવસ હતા. આ ગામ દાવસ

Exhibit #5 - Production Facilities Layout Exhibit #6 - Drilling Rig Layout Exhibit #7 - Cultural Resources Examination

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone 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 Regulatory Affairs Specialistate	05-04-93
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that the applicant ho CONDITIONS OF APPROVAL, IP ANY:	olds legal or equitable title to those rights in the subject lease which would entitle the app	licant to conduct operations thereon
APPROVED BY /s/ Kathy Eaton	Acting State Director 6-2	24-93

*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.

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DRILLING PROGRAM

Attached to Form 3160-3 Mitchell Energy Corporation Zuni "22" Federal No. 1 1980' FSL & 660' FWL NW/SW, Sec. 22, T21S, R32E Lea Co., New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Permian	Surface	Wolfcamp	12,110'
Rustler	1150′	Strawn	13,160'
Base Salt	3210′	Atoka	13,310'
Delaware	4870 <i>'</i>	Morrow	13,610'
Bone Spring	8750 <i>'</i>	Total Depth	15,000'

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

Upper Permian Sands to	100'	Fresh Water
Delaware-Cherry Canyon	5,970′	0 i 1
Delaware-Brushy Canyon	7,010′	0 i 1
Atoka	13,310′	Gas
Morrow "A" SS	13,910′	Gas
Morrow "B" SS	14,210′	Gas
Morrow "C" SS	14,660′	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" casing at 600' and circulating cement back to surface. Any zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them behind the 9-5/8" or 7" intermediate casing or the 4-1/2" liner which will be cemented on bottom.

4. <u>Casing Program</u>:

<u>Hole Size</u>	<u>Interval</u>	OD Casing	<u>Weight Grade, Jt. Cond, Type</u>
26"	0-40'	20"	Conductor, 0.3" wall thickness
17-1/2"	Surf-500'	13-3/8"	54.5#, K-55, ST&C, New, R-3
12-1/4"	Surf-3,800'	9-5/8"	40#, K-55, LT&C, New, R-3
8-3/4"	Surf-12,100'	7"	26#, N-80 & S-95, LT&C, New, R-3
6"	11,850'-TD	4-1/2"	13.5#, N-80, FJ, New, R-3



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Zuni "22" Federal No. 1 Drilling Program Page 2

<u>Cement Program</u>:

13-3/8" Surface Casing @ 500':

9-5/8" Intermediate Casing @ 3800':

7" Intermediate Casing @ 12,100':

Cemented with 900 sacks Lite + 300 sx Class "H" + 5#/sx salt. TOC @ 5000'. Shallow productive zones if present will be cemented by placing a cementing stage tool below the zone of interest and cementing with Class "C" cement.

Cemented to surface with 525 sacks of Class

Halliburton Lite + 15#/sx salt + 1/4#/sxFlocele and 250 sx Class "C" + 2% CaCl₂.

"C" + 2% CaCl₂ -- 1/4#/sx FC.

Cemented to surface with 1100 sacks

4-1/2" liner @ TD: Cemented with 280 sacks Class H + 4% TF-4 + 0.6% CF-9 + 0.6% Flo-LOK-1 + 5#/sx KC1. Cemented to TOL @ 11,850'.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and a bag-type (hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" or 3-1/2" drill pipe rams on bottom as required. Both BOP's will be nippled up on the 13-3/8" surface casing 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. Before drilling out of 9-5/8" intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000 psi and the hydril to 70% of rated working pressure (3500 psi).

The testing procedure will be duplicated before drilling out of 7" intermediate casing and after any use under pressure during the drilling of the well.

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 10,000 psi WP rating.

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1080, Hobbs, NM 88240

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DUPPENTIN Pin Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, 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 #2 Zuni "22" Federal No. 1 Lea County, New Mexico

ZUNI

0

500

1000

1500

2000

2640

1320 1650 1980 2310

000

110

n

610

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section Well No. 1.2350 #1 ZUNI 22 FEDERAL MITCHELL ENERGY Corporation County Range Township les Letter Section LEA 32E. 21S. NMPM 22 L that Footage Location of Well: WEST 660 feet from the line SOUTH 1980 line and Dedicated Acreage: feet from the Pool Producing Formation and level Elev. 320 Acres Bilbrey (Morrow) Morrow 3719 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline 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.? If answer is "yes" type of consolidation N₀ If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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. Signature Printed Name George Mullen Position Reg. Affairs Specialist SECTION 22, T. 21S., R. 32E., N.M.P.M. Company Mitchell Energy Corp. Date 1993 April 20, 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 660' correct to the best of my knowledge and belief. Date Surveyed 3/2/ 93 Signature & Sent of Professional Survey 2.1 A 980

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OCD HOBBS OFFICE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

10,000 psi Working Pressure

EXHIBIT #1 Zuni "22" Federal No. 1 Lea County, New Mexico

10 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 hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min. choke line outlets.		
6Ь	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		
7	Gate valve	3-1/8"	
8	Gate valve—power operated	3-1/8"	
9	Gate valves	2-1/16"	
10	Check valve	2-1/16*	
11	Single hydraulically operated ram		
12	Line to choke manifold		3*
13	Casing head		
14	Gate valves	1-13/16*	
15	Gate Valve or Flanged Valve w/Control Plug	1-13/16"	
16	Pressure gauge with needle valve		
17	Kill line to rig mud pump manifold		2*

	OPTIONAL		
18a	Casing spool with 2" outlet or		
18b	2" outlet in ram preventer		
19	Gate valves	2-1/16"	
20	Auxiliary choke line (emergency only)		2"
21	Roadside connection to kill line		2*
22	Shear ram blocks for blind rams	1	



- bradenhead or casinghead.
- 2.Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3.80P controls, including control for hydraulically operated wing valve, to be located near drillers position with remote controls located away from rig floor.
- 4.Kelly equipped with Kelly cock and Hydril Kelly valve, or its approved equivalent.
- 5.Hydril Kelly valve or its approved equivalent and approved inside blow-out preventer to fit drill pipe in use on derrick floor at all times.
- 6.Kelly saver-sub equipped with rubber casing protector at all times.
- Extra set of pipe rams to fit pipe being used on location.
- 8.Plug type blowout preventer tester.
- 9. Type RX ring gaskets in place of Type R.

10.Outlet for Halliburton on kill line.

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 clarnp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers. Valves must be full opening and suitable for high pressure mud service.
- 3. 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.

- S.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.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- 9.All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Approved 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.
- 12.Rig pumps ready for hook-up to BOP control manifold for emergency use only.

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