Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies		State of New Mex. finerals and Natural Res	ources Departm.		Form C-101 Revised 1-1-89				
DISTRICT I P.O. Box 1980, Hobbs, NM 88244 DISTRICT II P.O. Drawer DD, Artesia, NM 88	o Sau	ONSERVATIO P.O. Box 2088 nta Fe, New Mexico 8	3	<u> 20-0</u>	API NO. (assigned by OCD on New Wells) 30-025-32278 5. Indicate Type of Lease STATE FEE				
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM				6. State Oil VB-0	& Gas Lease N 374 7/7////////////////////////////////	ko.			
APPLICATION	FOR PERMIT TO	D DRILL, DEEPEN, O	R PLUG BACK						
1a. Type of Work:				7. Lease Na	me or Unit Agr	reement Name			
DRILL X b. Type of Well: OL OAS WELL WELL OT	RE-ENTER (SIN/I P	PLUG BACK			"30" STATE			
2. Name of Operator				8. Well No.					
MITCHELL ENERGY	CORPORATION				5				
3. Address of Operator					Pool name of Wildcat				
P. O. BOX 4000 ,	THE WOODLA	NDS, TEXAS 77387	7–4000	EAST	EAST RED TANK (BONE SPRING)				
4 Well Leastien		m The WEST	Line and 66	50 Feet	From The N	ORTH Live			
Section 30	Towash	ip 22S Ran	33E	NMPM		EA County			
			///////////////////////////////////////	11. Formation	mm	12. Rotary or C.T.			
		10. Proposed Depth		BONE SPRING		ROTARY			
		9,300				Date Work will start			
13. Elevations (Show whether DF, 3732 GR		. Kind & Status Plug. Bood BLANKET ON FILE	15. Drilling Contr	actor	In Applot 1				
17.	PRO	OPOSED CASING AN	D CEMENT PRO	OGRAM					
SIZE OF HOLE SIZ	ZE OF CASING	WEIGHT PER FOOT	SETTING DEPT		F CEMENT	EST. TOP			
17 1/2"	13 3/8"	54.5 #	500'	PREMIUM		SURFACE			
12 1/4"	8 5/8 ⁿ	32#	4,800'		PREMTUM	SURFACE			
7 7/8"	5 1/2"	17#	TD			7,500'			

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MITCHELL PROPOSES TO DRILL TO A DEPTH SUFFICIENT TO TEST THE BONE SPRING 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 STATE OF NEW MEXICO REGULATIONS. BLOWOUT PREVENTER SCHEMATIC ATTACHED AS EXHIBITS 1 & 1A.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

CFORCE MILLEN TELEPHONE NO.	DRIGINAL SIGNED BY JERRY SEXTON DISTRICT SUPERVISOR		
SKONATURE ALONGE MULLER REG. AFFAIRS SPECIALIST DATE 10-20-93 713-377-5855		 	 713-377-5855

Permit Expires 6 Months From Approval Date Unless Drilling Underway. Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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

<u>DI:</u> P.C

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

DISTRICT II P.O. Drawer DD, Ar	1esia, NM 88210							
DISTRICT III 1000 Rio Brazos Rd	., Aziec, NM 87410	WELL L			AGE DEDIC ler boundaries o	CATION PLA	Т	
				Lease				Well No.
Operator					ORN 30 ST	ATE		#5
		poration Township		Range			County	
Unit Letter D	Section 30		225.		33E.	NMC	1	LEA
Actual Footage Loc 330	ation of Well: feet from the	EST	line and			feet from	n the NORT	TH line Dedicated Acreage:
Ground level Elev.	Producin	g Formation		Pool				40 Acres
3732	Bone	Spring		East_	Red Tank	(Bone Spr	ing)	Atits
	e the acreage dedicated							
2. If mor	e than one lease is ded e than one lease of dif	licated to the well ferent ownership	, outline each as	nd identify the he well, have t	ownership thereo	owners been cons	cing interest an colidated by col	d royally). mmunitization,
unitiza	tion, force-pooling, cto	c.? ING If s	newer is "ves" (type of consolid	iation			
If answer	is "no" list the owner	s and tract descrip	plions which ha	ve actually bee	n consolidated. (Use reverse side	DÍ	
this form	if neccessary able will be assigned i	to the well until a	Il interests have	been consolid:	ited (by commun	ilization, unitizati	on, forced-poo	ling, or otherwise)
or until a	non-standard unit, eli	minating such inte	erest, has been a	pproved by the	: Division.			
							OPERA	TOR CERTIFICATION
660'							contained he	by certify that the information rein in true and complete to the owledge and belief.
330'							Signatur	ng Mulle
							Printed Name George	Mullen
							Position Reg. A:	ffairs Specialist
	SEC	TION 30, 7	2.225., R	.33E., N	.M.P.M.		Company Mitche	ll Energy Corp.
					1		Date Octobe	r 21, 1993
					 		SURVI	EYOR CERTIFICATION
							on this plat actual surv supervison.	rtify that the well location shown was plotted from field notes of eys made by me or under my and that the same is true and the best of my knowledge and
· · · · · · · · · · · · · · · · · · ·							Date Survey 9/24 Signature &	193 120
							Professional	Surveyor,

6

1000

1500

2000

1980 2310 2640

660

330

0

990

1320 1650

500

0

BIGHORN4



WELL INFORMATION

BIGHORN 30 STATE #5 330 FWL, 660 FNL SECTION 30, T.22S., R.33E., N.M.P.M. MINIMUM BLOWOUT PREVENTER REQU

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 hy operated rams			
6a	Drilling spool with 2" min. 3" min choke line outlets			
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gate D Plug D	3-1/8″	
8	Gate valve-power opera	ted	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 D Plug D	1-13/16″	
14	Pressure gauge with nee	die valve		
15	Kill line to rig mud pump			2"

EXHIBIT # 1

Bighorn "30" State No. 5 Lea County, New Mexico



		OPTIONAL		
16	Flanged valve		1-13/16"	

CONTRACTOR'S OPTION TO FURNISH:

- 1.All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 3,000 psi, minimum.
- 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.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.
- 3.Controls to be of standard design and each marked, showing opening and closing position.
- 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.

- 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.
- 9.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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MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure



EXHIBIT 1-A Bighorn "30" State No. 5 Lea County, New Mexico

			MINI	NUM REQU	IREMENTS	3				
		3,000 MWP 5,000 MWP							10,000 MWP	
No.		I.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING	1.D.	NOMINAL	RATING
1	Line from drilling spool	1	3"	3,000		3″	5,000		3″	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
2	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 D Plug D(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		1	3,000			5,000			10,000
6	Gate □ Valves Plug □(2)	3-1/8"	1	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"	ļ	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	Gate D Valves Plug D(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	1	3″	1,000		3"	2,000
14	Remote reading compound standpipe pressure gauge	1		3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000	ļ	4*	2,000
17	Valves Gate (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.