Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies	ærgy, d		Form C-101 Revised 1-1-89					
DISTRICT 1 P.O. Box 1980, Hobbs, NM	88240	P.O. Box 208 nta Fe, New Mexico	8	- <u>3C-C</u>	35-3	on New Wells)		
<u>DISTRICT II</u> P.O. Drawer DD, Artesia, N			0,004 <b>20</b> 00	5. Indicate 7	5. Indicate Type of Lease STATE X FEE			
<u>DISTRICT III</u> 1000 Río Brazos Rd., Aziec	, NM 87410			6. State Oil VB-03	& Gas Lease N 74	lo.		
APPLICAT	ION FOR PERMIT TO	O DRILL, DEEPEN, O	R PLUG BACK					
1a. Type of Work:		······································		7. Lease Na	me or Unit Ag	eement Name		
DRILL b. Type of Well: OIL OAS WELL X WELL	X RE-ENTER	SINGLE	PLUG BACK	BIGHORN	"30" ST	ATE		
2. Name of Operator			······································	8. Well No.				
MITCHELL ENER	GY CORPORATION		<u> </u>		4			
3. Address of Operator P. O. BOX 400	0, THE WOODLAN	DS, TEXAS 77387-	4000	9. Pool Barr EAST RE		BONE SPRING)		
4. Well Location Unit Letter <u>E</u>	: <u>330</u> Feet Fro	om The <u>WEST</u>	Line and 19	980 Feet	From The _N	ORTH Lide		
Section 30	Townah	ip 22S Rat	age 33E	NMPM		EA County		
<i>{////////////////////////////////////</i>		//// 10. Proposed Depth	mmm	11. Formation	mm	12. Rotary or C.T.		
		9,300		BONE SPRING		ROTARY		
13. Elevations (Show whether 3737 GR	r DF, RT, GR, etc.) 14 B	ctor	16. Approx. D	bate Work will start				
17.	PRO	OPOSED CASING AN	D CEMENT PRO		<u> </u>			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	H SACKS OF	CEMENT	EST. TOP		
<b>17 1/2"</b> C	13 3/8"	54.5 <b>#</b>	500'	PREMIUM		SURFACE		
12 1/4"	8 5/8"	32 <b>#</b>	4800'	LITE + P	REMTUM	SURFACE		
7 7/8"	5 1/2"	17#	TD	<u>t.ite + 5</u>	0/50 POZ	7,500'		

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-production, 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.

I hereby certify that the inf	ormation above is true and complete to the best of my knowled		
SKINATURE	Seorce Mullen		DATE 10-20-93
TYPE OR PRINT NAME	George Mullen		713-377-5855 TELEPHONE NO.
(This space for State Use)	ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR		QCT 2 5 1993
APPROVED BY	;	TITLE	bhtel
CONDITIONS OF APPROVAL	L IF ANY:		

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

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DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

State of New Mexico

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

O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

# WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.	
	ENERGY Corr	poration		BIGHORN	30 STAT	ГЕ		#4	
	Section	Township		Range			County		
E	30	225.		33E	Ξ.	NMP)	м	LEA	<b>_</b>
Actual Footage Locati	on of Well:	· · · · ·		4.00					
330	feet from the	<b>IEST</b>	line and	198	30	feet from	n the	NORTH <sub>line</sub>	
Ground level Elev.		5 Formation		Pool				Dedicated Acres	age:
3737	Bone S	pring		East R	ed Tank	(Bone Spi	ing)	40	Acres
1. Outline t	he acreage dedicated	to the subject well by	colored pen	cil or hachure n	nar <b>ks on the</b> pl	at below.			
2. If more t	han one lease is dedi	cated to the well, outlin	e each and	identify the ow	nership thereol	f (both as to worl	cing interest and	royalty).	
3. If more t	han one lease of diff	erent ownership is dedi	cated to the	well, have the	interest of all c	wners been cons	olidated by com	munitization,	
unitizațio	on, force-pooling, etc.	.7			1				
	Yes	and tract descriptions v	is yes typ which have	e of consolidati actually been co	onsolidated. (l	Jse reverse side (	of		
shin farms if									
No allowab or until a po	le will be assigned to on-standard unit, elin	the well until all intere- unating such interest, h	sts have be as been app	en consolidated roved by the Di	(by convnunit ivision.	tization, unitizatio	on, forced-poolin	ig, or outerwise)	
								OR CERTIFIC	
							contained here	certify that th in in true and c	omplete to the
	ł						besi of my know	ledge and belief.	
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-0							Stor	ze Mull	en
980	ļ						Printed Name	0	
-							George 1	Mullen	
							Position		
								fairs Spec	ialist
							Company Mitrahall		
							Date	l Energy C	orp.
330								21, 1993_	
	SEC	TION 30, 7.2	2S., R	.33E., N.	M.P.M.				<u></u>
							SURVEY	OR CERTIFI	CATION
							I hereby certif	fy that the well i	location shown
		}					on this plat w	vas plotted from	field notes of
							actual surveys	made by me	or under my
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							belief.	<b>,</b> , .	
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0 330 660 9	90 1320 1650	1980 2310 2640	200		1000	500 0	BIGHOR	TA+ <del>7</del>	



WELL INFORMATION

BIGHORN 30 STATE #4 330 FWL, 1980 FNL SECTION 30, T.22S., R.33E., N.M.P.M.

#### 3,000 psi Working Pressure

3 MWP

### STACK REQUIREMENTS

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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	draulically		
6a	Drilling spool with 2" min. 3" min choke line outlets	kill line and		
6b	2" min. kill line and 3" mi outlets in ram. (Alternate			
7	Valve	Gate 🗆 Plug 🗆	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 □ Plug □	1-13/16″	
14	Pressure gauge with need	die valve		
15	Kill line to rig mud pump i	manifold	1	2″

	OP"	TIONAL	
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.
- 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:

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

#### CONFIGURATION A

Lea County, New Mexico



- 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.

#### MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure



# EXHIBIT 1-A Bighorn "30" State No. 4 Lea County, New Mexico

			MINI	NUM REQU	IREMENT	5				
		1		5,000 MWP			10,000 MWP			
No.		1.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
2	Cross 3"x3"x3"x2"	1		3,000			5,000			
-	Cross 3"x3"x3"x3"									10,000
3	Valves <sup>(1)</sup> Gate □ Plug □(2)	3-1/8"		3,000	3-1/8″		5,000	3-1/8"		10,000
4	Gate □ Valve 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	Gate □ Valves 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	Gate □ Valves 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		3-1/8"		3.000	3-1/8"		5,000	3-1/8"		10,000

Plug (2) (1) Only one required in Class 3M.

Valves

(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.

3-1/8"

# EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

3,000

3-1/8"

- 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.