					·			CBF
Form 9-331 C (May 1963)				BMIT IN 1	CATE		pproved. Bureau No. 4	42-R1425.
(1128) 1500)		ED STATES		Other instruct reverse al		31-11	5-95	. 895
	DEPARTMEN	r of the INT	FERIOR		ĺ	5. LEASE DESIGN	ATION AND SE	BIAL NO.
	GEOLO	GICAL SURVEY				LC-029388	(d)	
APPLICATIO	N FOR PERMIT	O DRILL, DE	EPEN, OR	PLUG B	BACK	6. IF INDIAN, AL	LOTTEE OR TRI	BE NAME
Ia. TYPE OF WORK	NLL 🛛	DEEPEN		PLUG BAG		7. UNIT AGREEM	BNT NAME	
	WELL OTHER		SINGLE	MULTIP Zone		S. FARM OR LEAS	SE NAMB	
2. NAME OF OPERATOR	WELL OTHER	<u></u>			<u>949</u>	Johnson "H	" Federa	11.
Marathon Oil	Company		<u> </u>			9. WELL NO.		
••••••••	Midland, Texas Report location clearly and	79702 in accordance with a	ny State require	ments.")	<u>3 '88 -</u>	10. FIELD AND P D T A M A N Undebignat	0 ed (Bone	
	FSL & 1980' FE	L	K	<u> </u>	. D.	11. SEC., T., R., M AND SURVEY	OR BLE. OR AREA	
At proposed prod. zo	-		1	ASTENA	OFFICE	Sec 11, T-	18-S. R-	-31-E
	AND DIRECTION FROM NEA	REST TOWN OR POST OF	FFICE	·····		12. COUNTY ON P		
	from Loco Hills	, New Mexico				Eddy	· · · · · · · · · · · · · · · · · · ·	Mexico
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OF LEASE	ST		S. NO. OF ACRES			F ACRES ASSIGNED		
(Also to Dearest dr 18. DISTANCE FROM PRO	ig. unit line, if any) 00	0' & 660'	960.26 PROPOSED DEP		20. ROTAR	40	 3	
TO NEAREST WELL, OR APPLIED FOR, ON TI	DRILLING, COMPLETED,	9'	8950	1		Rotary		
21. ELEVATIONS (Show W						22. APPROS. DA		
23.	<u>3739.3' GR</u>	ROPOSED CASING	AND CEMENT	ING PROGRA		lAs soon a	<u>s possit</u>)le
				G DEPTH	1	QUANTITT OF	CEMENT	<u></u>
BIZE OF HOLE	13 3/8"	48		750'	800	sxs Circul		
	0 5 (011	24, 32		700'		sxs Circu		
7 7/8"	51"	15.5	8,	950'	1350	sxs		
→ Bore Hole to	be 11" as per	Kevin Wils	son; Drlg	Engr				
Propose to dr	ill no deeper t	han 8950'.		° (518 7			
All casing wi Blowout preve	ll be cemented ntors will be a	in accordance s outlined in	e with reg Addition	ulations al Infor	and by mation	/ approved (See Exhib	m et hods. i⊄s).	i
							5-5-	77 FT
								0
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				tost 1 NL 9 4-1-	ID#1 API	ţ	تت	
							-	•
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an	E PROPOSED PROGRAM : If drill or deepen directions ny.	lly, give pertinent da	or plug back, ginta on subsurfac YAJJ	ve data on pr e locations an	resent produ nd measured	sctive some and pa and true vertical	coposed new p depths. Give	roductive e blowout
24.	J.P.		<i>(</i>			•		
SIGNED der	of D. River	TITLE	Dist. Drl	g Superi	ntender	1 <u>t</u> DATE	2-11-8	<u> </u>
(This space for Fed	eral or State office use)					-		
PERMIT NO.			APPROVAL D	ATE				
						···· 3	22.8	Ŷ
APPROVED BY CONDITIONS OF APPRO	VAL, IF ANY :	TITLE_				UATE		

*See Instructions On Reverse Side

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N IEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section Weil No. lease perator Johnson "B" Federal 5 Marathon Oil Company Bance County Township nut Letter Section Eddv 18 South 31 East 11 I Actual Footage Location of Well: East 1980 2260 South line and feet from the line teet from the POOL TAMANO BOLLE SPEING Dedinated Acreage: Producing Formation Ground Leve, Elev. Undesignat 40 3739.3 Acres Bone Spring 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 interests of all owners been consolidated by communitization, unitization, force-pooling.etc? If answer is "ves," type of consolidation . No. Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). 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 interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Terry Rivers Fristtion Dist. Drlg Superintendent HEYCO Comi my Hudson Fed Marathon Oil Company Date February 11, 1988 I hereby certify that the well location 1980 TOP. CONOCO on this plat was plotted from field 40 5 3739 of actual surveys made b my supervision, and that is true and correct to the best of my knowledge and belief. 2260 Date Surveyed February 2, 1988 **Registured Professional Engineer** and Surveyo Certificate No JOHN 676 RONALD J. EIDSON 3239 2000 1 500 1000 800 1320 1650 1980 2310 26 40 330 660 ...



EXHIBIT "A"

Johnson "B" Federal #5 BOP Stack Arrangement 13 3/8" Surface Casing



EXHIBIT "B"

Johnson "B" Federal #5 BOP Stack Arrangement 8 5/8" Intermediate Casing

MARATHON OIL COMPANY

JOHNSON "B" FEDERAL WELL NO. 5 ADDITIONAL INFORMATION Comply with Order 1

In conjunction with Form 9-331C, Application to drill subject well, Marathon Oil Company submits the following items of informations in accordance with BLM requirements:

1. Geologic Name of Surface Formation

Quaternary Alluvium

2. Estimated Tops of Important Geologic Markers

Rustler	800	Bone Spring	5760
Yates	2270	lst Sand	7605
Seven Rivers	2730	2nd Carb	7915
Queen	3370	2nd Sand	8215
Grayburg	3758	3rd Carb	8890
San Andres	4330		
Delaware	4625		

3. Estimated Depths of Anticipated Water, Oil or Gas Bearing Formations

Yates (Water)	2270	Bone Spring	5760
Seven Rivers (Water)	2730	lst Sand (Water & Oil)	7605
Queen (Water & Oil)	3370	2nd Carb (Water & Oil)	7915
Grayburg (Water & Oil)	3758	2nd Sand (Water & Oil)	8215
San Andres (Water & Oil)	4330	3rd Carb (Water & Oil)	8890
Delaware (Water & Oil)	4625		

4. Casing and Cementing Program

13 3/8" Surface to 750':	Cement to surface with 800 sxs Class "C" with 2% CaCl ₂
8 5/8" Intermediate to 2700':	Cement to surface with 1160 sxs Modified Lite followed by 200 sxs Class "C" with 2% CaCl ₂
5½" Production to 8950':	Cement to 2200' w/1350 sxs Class "H" Pozmix

5. Pressure Control Equipment (Exhibits A & B)

13 3/8" Surface:	11" 3000 psi working pressure annular preventor tested to 2000 psi
	11" 3000 psi working pressure pipe and blind rams tested to 3000 psi
8 5/8" Intermediate:	11" 3000 psi working pressure annular preventor tested to 3000 psi
	11" 3000 psi working pressure pipe rams and blind rams tested to 2000 psi

Page 2 Additional Information

6. Proposed Mud Program

0 - 750 Native; Mud Wt: 8.3 - 9.2, Viscosity 28-34 Sec 750 - 2,700 Brine Water; Mud Wt: 9.0 - 10.0, Viscosity 28-32 Sec 2,700 - 7,000 Cut Brine; Mud Wt: 8.6-8.8, Viscosity 28-32 Sec 7,000 - 8,950 Cut Brine; Mud Wt: 8.8 - 9.2, Viscosity 32-44 Sec

7. Auxiliary Equipment

A stabbing value will be kept on the floor to be used when the kelly is not in the string.

- 8. Testing, Logging, and Coring Programs
 - A. Coring Program:

1 Core - 120', starting at top of 2nd Bone Spring Carbonate

B. Testing Program:

1 DST in 2nd Bone Spring Carbonate

C. Logging Program:

TD to surface casing - GR-Sonic TD to Intermediate casing - LDT-CNL, DLL, Spectral GR

9. Abnormal Pressures, Temperatures or Potential Hazards

None are anticipated

10. Anticipated Starting Date:

As soon as possible



EXHIBIT "E"

Relative Location

of

Rig Components .

