Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN	TED STATES	RIOR	LICATE CLICATE LICATE	Budget Bureau N Expires August :	31, 1985
		F LAND MANAGEMEN			6. IF INDIAN, ALLOTTER	OR TRIBE MAMP
APPLICATION	N FUR PERMIT	TO DRILL, DEEP	EN, OR PLUG B		21-97571 18	Q
DR		DEEPEN	PLUG BAG	ak 🗆 🗍	7. UNIT AGREEMENT NA	×
b. TYPE OF WELL OIL C. WELL W	AB		INGLE NULTIP	×∎ [¬AR]	& RABM OR LEASE MAKE	<u> </u>
2. NAME OF OPERATOR					Sosa Federal	
Exxon Corp.	Attn: Pe	rmits Supervisor	RECEIV	'ED	9. WELL NO. 2	
D 0 Day 1	600, Midland,	TX 79702				VILDCAT
4. LOCATION OF WELL (B	eport location clearly an	IX /9/UZ d in accordance with any f	State requirements.)	'00 D	Brushy Draw	
630' F	SL and 900' FE	L of Sec. 15, (S	SESE)	09	11. BEC., T., R., M., OR BI AND SURVEY OR ARE	.
At proposed prod. son	ie		0. C.	D. 00		
14. DISTANCE IN MILES	AND DIRECTION PROM NE	AREAT TOWN OR POST OFFIC	ARTESIA, O	FRICE	Sec.15, T265 12. COUNTY OF PARISH), KZYE 13. STATE
	rom Malaga NM				Eddy	NM
15. DISTANCE FROM PROPU- LOCATION TO NEAREST PROPERTY OF LEARE I	Lease Line	900' 16. NO	D. OF ACRES IN LEASE	17. NO. 0 TO TH	F ACRES ASSIGNED HIS WELL	
18. DISTANCE FROM FROF	OBED LOCATION®		880	20. BOTAR	O CABLE TOOLS	
TO NEAREST WELL, D or Applied For, on the	RILLING, COMPLETED,	54' W to #1	5250'		tary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WOR	E WILL STARTS
GR 2933.5)				4-1-89	
		PROPOSED CASING ANI	CEMENTING PROGRAM	vi		
BILL OF HOLE	SIZE OF CABING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT	
<u> </u>	<u> </u>	24	<u>400'</u> 5150'	<u>16</u> 39		
					<u>v 10.</u>	
SURFACE CASING	SING, COLLAPSE	BURST 1.1, TENS 1.125, BURST 1,	SION 1.5 TENSION 1.5		Ровт I	- D -1
GENERAL REQUIR SPECIAL STIPULA ATTACHED					NL 2 3-3	API 31-89
sone. If proposal is to a preventer program, if any	drill or deepen direction y.	proposal is to deepen or p ally, give pertinent data o				
BIGNER Charles	otte Harpen	per Pe	ermits Superviso	or	2-15-	.89
(This space for Feder	ral or State office use)					
PERNIT NO.			APPROVAL DATE			
APPROVED BY	AL, IF ANY :	m fr	- ABUA DA DADADER CANDORAD REBOURCE AN	<u><u></u>.</u>	DATE2	2 89

*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.

Submit to Appropriate District Office State Lease-4 copies Fee Lease-3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

Operator Exxon Corporation					Lease				Well 1						
				SOSA FEDERAL					2						
Unit	P	Sect	10n 15		Townsl	ыр 26-	2	Range	0 0 F				County		
Actu	al Footag				11.	20-	-3		29-E			NMPM		EDDY	
ACLU	630			om the		OUTH	line	and	900	for a l	.	41.	EACT		
Grou	nd level						IIIIe	Pool	<u> </u>	UD.	from	LDe	EAST	line.	
1	2933.5			-	HERRY		N		BRUSHY	DRAW_		VARE		Dedicated 40	
								-11 1 1	· ·····				·	40	Acres
	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.	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.?							on,							
	Yes If answer is	"no".	∐ Hant th	NO IT 8	and trac	"yes", t t descri	ype of consolide	ation	heen ooneolig	inted (11-0 -0-				
	this form i	Deces	mry.)												
	No allowable or until a m	will b 10n-sta	e assi ndard	igned to ti unit, elin	he well u ninating	until all such int	interests have crest, has been	been consoli approved b	dated (by con y the Division	mmunitis n.	sation, 1	initizatio	n, forced-po	oling, or othe	rwise)
·	<u>.</u>												PERAT	OR CERT	IFICATION
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TYPE-SA BOP STACK

ANNULAR



COMPONENT SPECIFICATIONS

- Screwed or flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "A" section.
- 2. Tee with tapped bullplug, needle valve, and pressure gauge.
- Flanged plug or gate valve -- 2" minimum nominal dia. -- same working pressure as BCP stack.
- 4. Drilling spool. -- 3" choke and 2" kill line minimum nominal dia.
- 5. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
- 6. Flanged or screwed gate or plug valve -- 2" minimum nominal dia. -- same working pressure as BOP stack. NOTE: Valves are optional if trip tank is tied into Flowline Type.
- 7. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

NOTE :

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- A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
- B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
- C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

EXXON CORPORATION - SOSA FEDERAL #1 AND #2

Section 15, T26S, R29E Eddy County, New Mexico BLM Eight-Point Plan January 1989

1. The Estimated Tops of Important Geologic Markers

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<u> Formation</u>	<u>Tops</u>
Rustler	350'
Salado	850'
Castile	2650'
Bell Canyon	2950'
Cherry Canyon	3850'
Williamson Sand	5000'

2. The estimated depths at which the top and the bottom of anticipated water, oil, gas, and other mineral bearing formations are expected to be encountered.

	<u> Top </u>	<u>Bottom</u>	How Protected
Fresh Water	Surface	400'	Surface casing cemented to surface.
Williamson Sand (Hydrocarbons)	5000'	5150'	Production casing cemented to 2900'.

- 3. Minimum Specifications for Pressure Control Equipment
 - A. Wellhead and X-mas tree equipment:

"A" Section - 8 5/8" 8rd x 11" 3000 psi W.P. sweet Tubing Head - 5 1/2" 8rd x 2 7/8" 2000 psi W.P. sweet No X-mas tree required, well will be rod pumped

B. Blowout preventer equipment:

Туре	Pressure Rating	Installed on Casing
Type - SA BOP	2000 psi	8 5/8"

Additional preventers may be added and/or preventers with higher pressure ratings may be substituted depending on equipment provided by drilling contractor. Diagram of the preventer stack type is attached.

C. Testing:

<u>Operational testing</u> - an operational test consisting of closing the annular preventer on the drill pipe will be performed weekly.

 $\underline{Pressure\ testing}$ - Annular BOP will be tested to 200 psi (low pressure) and 1000 psi on the 8 5/8" casing upon installation.

Subsequent pressure tests of the BOP equipment will be conducted as follows:

- Upon any change in any component of the BOP Stack and/or choke manifold.
- 2. At least every thirty (30) days.

Subsequent pressure tests will be at 200 psi (low pressure) and 500 psi for the annular preventer on the 8 5/8" casing.

<u>Blow prevention drills</u> - a drilling crew proficiency test to perform the well shut-in procedures will be performed at least once each week with each crew.

D. BOP control unit:

Unit will be hydraulically operated and have one control station located on the rig floor.

- 4. Auxiliary Equipment and Proposed Casing Program
 - A. Auxiliary equipment:

Kelly cocks - upper and lower installed on kelly.

Safety valve - full opening ball type valve to fit each type and size of drill pipe in use will be available on the rig floor in the open position at all times for use when the kelly is not connected to the drill string.

B. Casing:

<u>String</u>	<u>Size /Weight/Grade</u>	<u>Depth Interval</u>
Surface	8 5/8 24 J55	0-400'
Production	5 1/2 14 J55	0-5150'

Substitutions regarding weight and grade might be required due to availability.

C. Cement:

Casing	<u>Depth</u>	<u>Cement Type</u>	Approximate <u>Cement Volume</u>	Top of Cement <u>(Gauge Hole)</u>
Surface Production	400' 5150'	Class "C" Class "C" + gel and Class "C"	165 ft ³ 390 ft ³	Surface 2900'

Calculated cement volume will be adequate to cover all hydrocarbon bearing formations.

- D. Casing test procedures:
 - Surface casing (8 5/8") 1000 psi test pressure.
 Production casing (5 1/2") 1500 psi test pressure.

5. Circulating Medium Characteristics

A. Type and anticipated characteristics of circulating medium:

Depth <u>Interval</u>	Weight <u>(ppg)</u>	FV <u>(Sec/Qt)</u>	Р V (Ср)	YP (#/ <u>100 SF)</u>	WL (cc/ <u>30 min)</u>	pH
0-400' 400-5150'	8.3-8.5 10-10.2				Control—	9.5-10.5

B. Quantities of mud and weighting materials:

A sufficient inventory of mud materials and treating equipment will be maintained to control mud properties adequately for well control and drilling requirements.

C. Mud system monitoring equipment:

<u>Trip tank</u> - tank will be used to keep hole full of fluid on trips and to monitor hole behavior on trips.

6. Anticipated Type and Amount of Coring, Testing, and Logging

Coring program: non anticipated. Drill stem tests: non anticipated. Logging program:

<u>From</u> 5150' Logs $\frac{T_{0}}{0}$ **GR-CNL-LDT**

- 7. Bottom Hole Pressure and Other Potential Hazards
 - No H_2S is anticipated. Α.
 - B. No abnormal pressure is anticipated.

Sosa Federal #1 and π_2 Eight-Point Plan

8. Other Facets of the Proposed Operation

Completion operations: perforate, stimulate, and production test the Williamson Sand interval based on electric logs and shows.

Contact W. F. Burchard at 915/688-7892 or Bob Grady at 915/688-7887 with any questions concerning this eight-point plan.

D.J. Burl -----

W. F. Burchard

Page 4 of 4

RMG01S/kh Attachment



