CONFIDENTIAL

	Form 3160-3						2770			50514 4555	0. /=D	
	(July 1992)			UNITE	ED STATES		SUBART IN TRIP			FORM APPRO OMB NO. 1004		
			DEPA		OF THE INTER	RIOR	reverse side)	IOHS OH		pires February		
					ND MANAGEMEN				5. LEASE D	ESIGNATION .	AND SERIAL NO.	
	to Type of Monk	APPLI	CATION	G 12	JIC 454	47						
	b. TYPE OF WELL	Drill X Deepen]			6. IF INDIAN, ALLOTTEE OR TRIBE NAME JIRATIVA Apathe 7. UNIT AGREEMENT NAME			
	Oil Well	Gas Well	X	Other		Single Zone	Multiple Zone		7. UNIT AG N/A	REEMENT NA	ME 2 (-2)	フ
	2. NAME OF OPERATO	OR .			.	0-/	,	<u> </u>		R LEASE NAM	<u> </u>	
		Mallon Oil	Compan	ıy	<i>O(</i>	3425				451-3SJ		
3. ADDRESS AND TELEPHONE NO. 9. API WELL NO.									£ , _	107		
1		Durango,)2	(970) 382-910	n (a)				- 0 39. ND POOL, OR		4/
/	4. LOCATION OF WEL	L (Report location	on clearly and	in accordance	e with any State requir			67X		Canyon, Sai		
	At surface	790' FNL a	and 2500	' FEL (N	W/NE) Unit B	ements. XX	JAN 2000	المحت	11. SEC., T.	, R., M., OR BI		
	At proposed prod. zone	790' FNL a	and 2500	'EEL (N	W/NE) Unit R	23	JAN ZOUED HECEVED	00)	AND SURVE	Y OR AREA		
				•	•	T-m(')	PECENDIN OR CON DIV	9	Sec. 3	T29N-R0	3///	
	14. DISTANCE IN MILE	S AND DIRECT	ION FROM N	EAREST TO	WN OR POST OFFICE	- K	OH DIST. 3	3	12. COUNT	Y OR PARISH	13. STATE	
	15. DISTANCE FROM F	DA MIIES E	ast of Bio	comfield	, New Mexico	Ten un Abrica			Rio Arrit	oa	NM	
	LOCATION TO NEARES		790)'		16. NO. OF AC	RES IN LEASE	117/ NO 110 THE	OF ACRES	ASSIGNED		
	PROPERTY OR LEASE	LINE, FT.				2,56	8 J. 11. 31 31 31 31 31 31 31 31 31 31 31 31 31	IIOIII	D VVELL	156	155.10	
	(Also to nearest drig. uni										(/),(/	
	18. DISTANCE FROM F TO NEAREST WELL, D				100'	19. PROPOSEI	DEPTH 1800'	20. RO	TARY OR CA	BLE TOOLS		
	OR APPLIED FOR, ON				100		1000			Rotary		
	21. ELEVATIONS (SHO	W WHETHER C	F, RT, GR, E		7124' GR	22. APPROX.DAT	É WORK WILL START		09/01			
	23.			PRO	POSED CASING	AND CEMEN	TING PROGRAM					
	SIZE OF HOLE		SIZE OF CAS	SING	WEIGHT PE		SETTING DEPT	Ή		JANTITY OF C		
	12-1/4" 7-7/8"		8-5/8" 4-1/2"			24#	500'				e 132.4	-/0
	1-110		4-1/2		14	1.7#	1800'				z w/additive:	Q.
							 		615 4 = 50 % mc			
	Mallon Oil Co. p	roposes to	drill this	well to a	an approximate	TD of 1800	in the San Jose	form	ation Th	is		
	well is placed of	n an existir	ia well ba	ad. Som	ie additional na	d extension	may be required	The	licarilla	Oil		
	and Gas Admin	istration na	is waived	i anv ned	cessity of re-on:	siting the we	ell pad as long as viously submitted	anv r	eauired			
	well APD. If pro	ductive. 4	-1/2" casi	ina will b	e cemented at	TD If non-	productive, the w	l unae	r ine initia	al Tod		
	and abandoned	ın a mann	er consis	stent with	n Federal regula	ations. Spe	cific programs as	per o	n-shore (geu Dil		
	and Gas Order I	No. 1 are d	utlined in	n the folk	owing attachmo	ents:		F				
	Drilling Program Exhibit 1: Blov	! w Out Prev	entor Fa	uinment	/Dlan	Evhibit D:	Drilling City La					
	Exhibit A: Loc	ation and I	Elevation	Plat	riali	Exhibit D: Exhibit E:	Drilling Site Lay Production Fac					
	Exhibit B: Roa	ids and Pi	pelines			Exhibit F:	H2S Contingen		ın			
		Mile Radi	•			Exhibit G:	Archaeology Re	eport				
							ductive zone and propose			. If proposal is		
	to drill or deepen direction 24	nally, give pertir	ent data on s	ubsurface lo	cations and measured	and true vertical de	epths. Give blowout preve	enter prog	ram, if any.			
		1	, []									
	SIGNED:	<u> </u>	\mathcal{U}_{\leftarrow}		TITLE:	Operations	Superintendent			DATE	07/30/99	
	Teri	y Lindema	in O								01/00/00	
	(This space for Federal o	nr State office ::e	e)									
	(····· opaco ioi i caciai c	oute office as	<i>-</i> ,									
	PERMIT NO.						APPROVAL D	ATE				
	Application approval doc	s not warrant or	nortify that the	a annlisant b	olde logal or assistant	hitle to the same in the same	in the modern to the second		-A:M - M			
	operations thereon.	S HOL WALLANL DI	ceruny mat the			uue to mose rights	in the subject lease which	would e	ntitle the appli	cant to conduct	t	
	CONDITIONS OF APPR	OVAL IF ANY	A	41.0	レーク							
	APPROVED BY	vid .	Site	lew	TITLE	Scisstfi	eld Magnerat	E	JAN	28 700	Ū	
	1 —		0									
			-		*See Instruction	ons On Rever	se Side					
	Title 18 LLS C Sect	ion 1001 m	kos it a sri	ma for any	r maraan lenassimah	مقيال بقالة بياسم						

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.

CONFIDENTIAL

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico Energy. Minerals & Natural Resources Department

Form C-102
Revised Febuary 21, 1994
Instructions on back

Submit to Appropriate District Office

OIL CONSERVATION DIVISION

Submit to App

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Axtec, N.M. 87410

PO Box 2088, Santa Fe, NM 87504-2088

DISTRICT IV

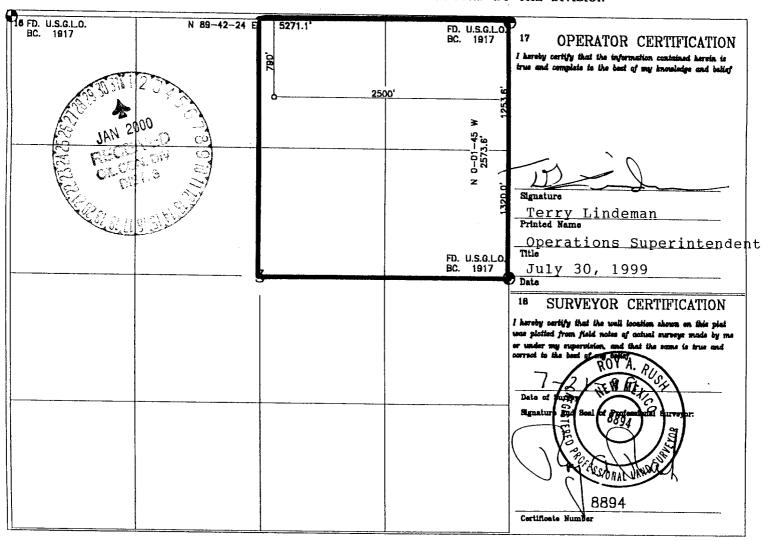
DISTRICT II P.O. Drawer DD, Artesia, N.M. 88211-0719

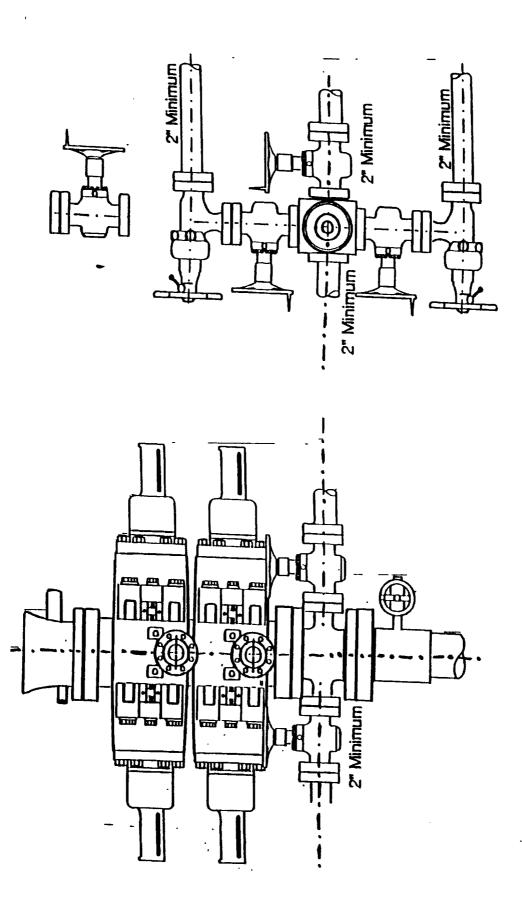
P.O. Box 2088
Santa Fe, NM 87504-2088

WELL LOCATION AND ACREACE DEDICATION DIAM

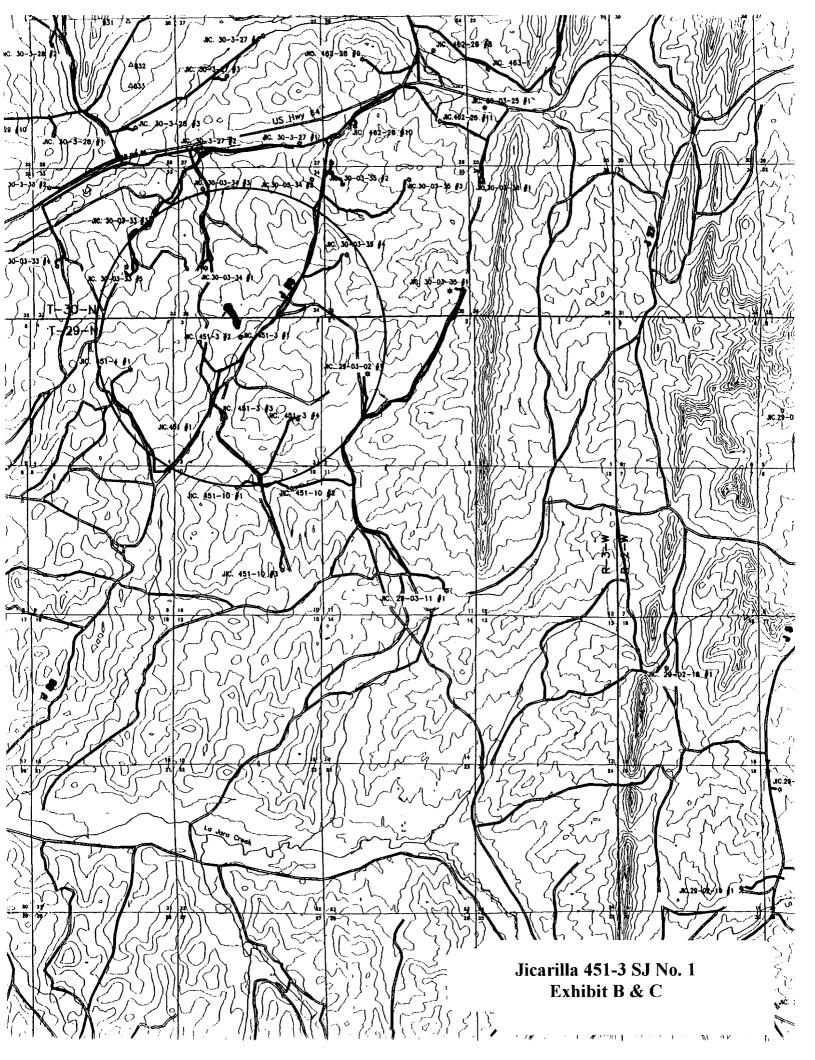
1 APPE	17 1		111111111111111111111111111111111111111		I THID NO	REAGE DED	ICATION FI	-4A.1			
マハーク	Number	5/5/17 Pool Code				Pool Name					
00.0	<u> </u>	<u> 4004</u>	/	96822	C	abresto Car	nyon; San	Jose	ext.		
Property C	1		• Well Num	ber							
a531.		Property Name JICARILLA 451-3 S.J.								1	
OGRID No			Operator Name								
0139		MALLON OIL COMPANY							* Mevation 7124		
					¹⁰ Surface	Location					
UL or lot no.	Section 3	Township 29-N	Range 3-W	Lot Idn	Feet from the 790	North/South line NORTH	Feet from the 2500	Kast/West EAST		y Arriba	
			11 Botte	om Hole	Location 1	f Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line Count	y	
Dedicated Acre		or Infill 14 (Consolidatio	n Code 100	rder No.		<u> </u>				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Jicarilla 451-3SJ No. 1



DRILLING PROGRAM

Attached to Form 3160-3 Mallon Oil Company Jicarilla 451-3SJ No. 1

790' FNL and 2500' FEL (NW/NE) Unit B

Sec. 3, T29N-R3W

Rio Arriba County, New Mexico

LEASE NUMBER: JIC 451

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose

Surface

Total Depth

1800'

3. Estimated depths of anticipated fresh water, oil, or gas:

San Jose

1500'

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 8-5/8" casing at 500' and circulating cement back to surface.

4. Proposed casing program:

Hole Size	Interval	Casing OD	Casing weight, grade, thread
12-1/4"	0-500'	8-5/8"	24 lb/ft, K55, ST&C
7-7/8"	0-1800'	4-1/2"	10.5 lb/ft K55 ST&C

Cement program:

8-5/8" surface casing:

Cemented to surface with Class B containing 2% CaCl₂, 0.25 lb/sk Cello Seal, slurry to be mixed at 15.6 lb/gal, yield 1.18 cu ft/sk Circulate cement to surface.

4-1/2" production casing: 50/50 Poz with 8 lbs/sk CPS, 5 lbs/sk Gilsonite, .4% FL-62, 3% salt/

5. Minimum specifications for pressure control (2M System):

The blowout preventor equipment (BOP) shown in Exhibit 1 will consist of a double ram-type (2000 psi WP) preventor. The unit will be hydraulically operated and the ram-type preventor will be equipped with blind rams on top and drill pipe rams on bottom. The BOP will be nippled up on the 8-5/8" surface casing and used continuously until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Pipe 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 2" 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, and choke lines and choke manifold with 2000 psi WP rating.

6. Types and characteristics of the proposed mud system:

The well will be drilled to TD with a combination of fresh water and fresh water polymer mud system. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity (sec)	Water loss (cc)
0-500'	FW	8.5	30-33	NC
500-1800'	FW (Gel polymo	er) 8.5 - 8.8	30-33	<10 cc

7. Auxiliary well control and monitoring equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full-opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- C. The drilling fluids systems will be visually monitored at all times.

8. Testing, logging, and coring program:

Drill stem tests:

None anticipated

Logging:

TD to surface casing, GR, CNL - FDC, DLL, MSFL

Coring:

None planned

9. Abnormal conditions, pressures, temperatures, and potential hazards:

No abnormal pressures or temperatures are anticipated. The proposed mud program will be modified to control excess pressure if abnormal pressures are encountered. The estimated bottom-hole pressure (BHP) is 250 psig. Hydrogen sulfide gas is anticipated in the San Jose formation and an $\rm H_2S$ drilling plan is attached.

10. Anticipated starting date: September 1, 1999

Anticipated completion of drilling operations: Expected duration of 6 days