CONFIDENTIAL

Condidential

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Form 3160-3							/	SUBMIT IN TRIPLI	CATE	FORM APPROV	/ED
(July 1992)		UNITED STATES				(Other instructions on			ns on	OMB NO. 1004-0136	
	DEPARTMENT OF THE INTERI					()R reverse side)				Expires February 28, 1995	
	BUREAU OF LAND MANAGEMENT							5. LEASE DESIGNATION AND SERIAL NO.			
	APPLI	ICATION	I FOR PE	RMIT TO DR	ILL	OR DEEP	EN			JIC 462	
1a. TYPE OF WOR	K Drill	X		Deepen [\neg		19 17.4	15500-		6. IF INDIAN, ALLOTTEE OF Jicarilla Apache	R TRIBE NAME
b. TYPE OF WELL								ر د از در ن ∑.	∆.M.¦	7. UNIT AGREEMENT NAM	E
Oil Well	Gas Well	X	Other			Single Zone	₩	iultiple Zone		N/A	
2. NAME OF OPER	ATOR Mallon O il	l Compa	ny						•	8. FARM OR LEASE NAME Jicariila 462-23 No	
3. ADDRESS AND	TELEPHONE NO.					(2)	* 1			9. APLWELL NO.	7/65/
	P.O. Box : Carlsbad,	NM 88	220	(505) 885-45	596				:	10. FIELD AND POOL, OR	
4. LOCATION OF W	VELL (Report locati	on clearly ar	d in accordance	e with any State req	uiren	nents.	n	Marie State Control	1 - 2	E. Blanco, Pictured	
At surface	1150' FSL	. and 10	00. FMF ((SW/SW) Un	ut M	4	DEC .	• 4 4		11. SEC., T., R., M., OR BLI AND SURVEY OR AREA	(
At proposed prod. zo	one 1150' FSL	and 10	00' FWL ((SW/SW) Un	nit M	1 (1)[[[]	acu	- 1638 	M	Sec. 23, T30N-R0	NΛ/
14. DISTANCE IN M	AILES AND DIRECT	TION FROM	NEAREST TO	WN OR POST OFF	ICE *	, 0/1/5	- (4:0)/	A. Tak	Rad	12. COUNTY OR PARISH	13. STATE
				, New Mexico			10 MGG	10 EN	W	Rio Arriba	NM
15. DISTANCE FRO	OM PROPOSED *					16. NO. OF AC	RESINLE	(SE)	17. NO.	OF ACRES ASSIGNED	
LOCATION TO NEA		15	510'						TO THIS	S WELL	
PROPERTY OR LEA	•				- 1	192	U			160	
(Also to nearest drig		OATION!				19. PROPOSE	D DEDTU		20. 00	TARY OR CARLE TOOLS	
18. DISTANCE FRO				3200'	-	19. PROPUSE	ODEPIH		20. KO	TARY OR CABLE TOOLS	
OR APPLIED FOR				32.00		4500'			Rotary		
21. ELEVATIONS (S			Ftc \	7211' GR		22. APPROX DATE WORK WILL START		L	08/25/98		
23.	onow when en	<i>Br</i> , 1(1, O)(,		POSED CASIN						00/20/00	
SIZE OF HOLE	GRADE	, SIZE OF C	_	WEIGHT				ETTING DEPT	Н	QUANTITY OF CE	EMENT
12-1/4"		8-5/8"						500'		Circulate to surface	
7-7/8"		5-1/2"			15.	.5# 4500			570 sks		
											·
				•		CON	IF IEDS	A TIAL		•	
Mallon Oil Company proposes to drill to a depth sufficient to test the Pictured Cliffs formation. 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 Federal regulations. Specific programs as per on-shore Oil and Gas Order No. 1 are outlined in the following attachments:											
Drilling Program Exhibit 1: Blow Out Preventor Equipment/Plan Exhibit D: Drilling Site Layout Exhibit A: Location and Elevation Plat Exhibit E: Production Facilities Exhibit B: Roads and Pipelines Exhibit F: H2S Contingency Plan Exhibit C: One Mile Radius Map Exhibit G: Environmental Assessment IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen, give data on present productive zone and proposed new productive zone. Karakasalish of the drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any											
IN ABOVE SPACE [DESCRIBE PROPO	SED PROG	RAM: If propo	sal is to deepen, giv	e dat	ta on present pr	oductive zon	ne and propose	d new pr	oductive zone. Horopasal is	30000
to drill or deepen dir	rectionally, give per	tinent data o	n subsurface lo	ocations and measur	red an	nd true vertical o	depths. Give	e blowout preve	enter pro	gram, if any.	<u> </u>
SIGNED:	Terry Lindem					Operation				DATE	08/11/98
(This space for Federal or State office use)											
PERMIT NO.				Service and Service Se				APPROVAL D	ATE	And the second s	
Application approva	does not warrant o	or certify that	the applicant	holds legal or equita	ble tit	tle to those right	s in the subi	iect lease which	h would e	entitle the applicant to conduct	ı

(original Signed) metitur A. VILLALOBOS TITLE Good Field May DATE

*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.

OKE

operations thereon.

APPROVED BY _

CONDITIONS OF APPROVAL, IF ANY:

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DRILLING PROGRAM

Attached to Form 3160-3

Mallon Oil Company

Jicarilla 462-23 No. 6

1150' FSL and 1000' FWL (SW/SW) Unit M

Sec. 23, T30N-R3W

Rio Arriba County, New Mexico

LEASE NUMBER: JIC462

1. Geologic name of surface formation: San Jose

2. Estimated tops of important geologic markers:

San Jose	Surface
Nacimiento	2600'
Ojo Alamo	3230'
Kirtland	3458'
Fruitland	3478'
Pictured Cliffs	3468'
Lower P.C.	4017
Total Depth	4500'

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

San Jose	1500'	Gas
Nacimiento	2600	Gas
Ojo Alamo	3230	Gas
Fruitland	3478	Gas
Pictured Cliffs	3768'	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"	0-4500'	5-1/2"	15.5 lb/ft, K55, LT&C

Cement program:

8-5/8" surface casing: Cemented to surface with 350 sks 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.

5-1/2" production casing: Lead slurry 300 sks 65/35 mixed at 13.4 lb/gal, 1.62 cu ft/sk, 30%

excess. Tail with 270 sks 50/50 POZ, containing 1/4 lb/sk Cello

Seal mixed at 14.15 lb/gal, 1.26 cu ft/sk, 30% excess.

District 1 P.O. Box 1980, Hobbs, N.M. 88241-1980

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

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

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV

(CALC. COR.)

N 89-37-18 E

5217 70

PO Box 2088, Santa Fe, NM 87504-2088

1000 Rio Brazos Rd., Aztec, N.M. 87410

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

☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code East Blanco, Pictured Cliffs Property Name Well Number JICARILLA 462-23 6 OGRID No. *Operator Name * Elevation 013925 MALLON OIL COMPANY 7211' ¹⁰ Surface Location UL or lot no. Section Township Range Feet from the North/South line Lot Idn Feet from the East/West line 23 30-N 1150 SOUTH 1000 WEST RIO ARRIBA ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Section Feet from the Township Range Lot Idn North/South line Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code "Order No. 160 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 (CALC. COR.) OPERATOR CERTIFICATION I hereby certify that the information contained herein is NON 13 1999 DINGO true and complete to the best of my knowledge and belief Signature Terry Lindeman Printed Name Operations Superintendent August 11, 1998 23 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat as plotted from field notes of actual surveys made by m Date of S 1000 20 1304 Certificate Number FD. STONE

