Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

Geol

Surf Appvl

BUREAU OF LAND N	5. Lease Serial No. MDA 701-98-0013	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name JICARILLA
Ia. Type of Work: DRILL REENTER	7. If Unit or CA Agreement, Name and No.	
	ROBERT BLAYLOCK	8. Lease Name and Well No. JIC 30-3-36 #4 9. API Well No.
MALLON OIL COMPANY 3a. Address	E-Mail: rblaylock@bhep.com 3b. Phone No. (include area code)	30-039-27828
350 INDIANA STREET, SUITE 400 GOLDEN, CO 80401	Ph: 720.210.1300 Fx: 720.210.1301	10. Field and Pool, or Exploratory PICTURED CLIFFS E Blanco
4. Location of Well (Report location clearly and in accorded	ince with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface NESW Lot K 1975FSL 202 At proposed prod. zone NESW Lot K 1975FSL 202	OFWL PROSVED	Sec 36 T30N R3W Mer NMP
4. Distance in miles and direction from nearest town or post 57 MILES EAST OF BLOOMFIELD	office* Off CONS. DIV.	12. County or Parish 13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2020 FEET	9600.00 LEIE 62 82 LEIE	17. Spacing Unit dedicated to this well 160.00 5 W 4
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file
1200 FEET - JIC. 30-3-36 #2	4000 MD	1318288
21. Elevations (Show whether DF, KB, RT, GL, etc. 7370 GL	22. Approximate date work will start 12/12/2003	23. Estimated duration 45-60 DAYS
	24. Attachments	
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No. 1, shall be attached to	this form:
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 	Item 20 above). em Lands, the 5. Operator certification	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the
25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY L. SCHNEEBECK Ph: 303.820	.4480 Date 11/12/2003
Title AGENT		
Approved by (Signature)	Name (Printed/Typed)	Date JUL 1 2 2004
Assistant Field Manager	Office	
Application approval does not warrant or certify the applicant ho operations thereon. Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subject le	ease which would entitle the applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 1 States any false, fictitious or fraudulent statements or representat	nake it a crime for any person knowingly and willfully t	
	who as to any matter within its jurisdiction.	Adjud
Additional Operator Remarks (see next page)	Engr	

Electronic Submission #24815 verified by the BLM Well Information System For MALLON OIL COMPANY, sent to the Rio Puerco Committed to AFMSS for processing by ANGIE MEDINA-JONES on 11/12/2003 ()

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

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

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

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

DISTRICT IV PO Box 2088, Santa Fe, NM 87504-2088 OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

☐ AMENDED REPORT

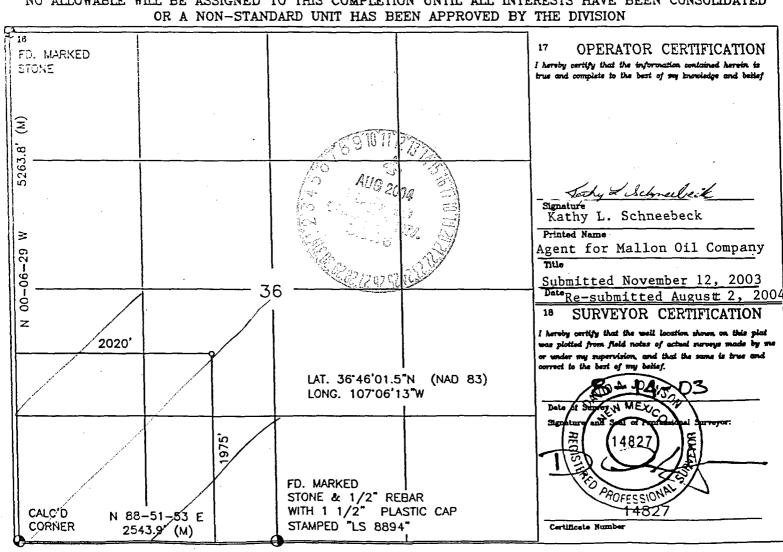
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-278	Z8 Pool Code 72400	*Pool Name E. Blanco/Pictured Cliffs	
*Property Code 24245 24 24	7	operty Name A 30-3-36	• Veil Number 4
OGRID No.	*0p	erator Name	* Elevation
013925	MALLON	OIL COMPANY	7370′

¹⁰ Surface Location

UL or lot no.	Section 36	Township 30—N	Range 3-W	Lot ktn	Feet from the 1975	North/South Nine SOUTH	Feet from the 2020'	East/West line WEST	RIO ARRIBA
11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Pedicated Acre	<u> </u>	ļ	13 Joint or	hill	³⁴ Consolidation (Code	15 Order No.	<u> </u>	

WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



		MALLON OIL COM				
		JICARILLA 30-3-3				
		1975' FSL, 2020				
	•	TWN: <u>30-N</u>	_, RNG:	3-W NOTE:	, NMPM	
ELE	VATION:	7370'		DAGGETT E	INTERPRISES, INC. IS	NOT LIABLE FOR PELINES. NEW MEXICO
				ONE CALL	TO BE NOTIFIED 48	HOURS PRIOR TO
		C _ 1251	ACCESS			
ELEV. A-A	۹,		C/L			
7400						
7390						
7380			· · · · · · · · · · · · · · · · · · ·			•
7370				All III III III III III III III III III		
7360					·	
7350						
7340						
ELEV. B-I	В,		C/L			
7400						
7390						
7380						
7370						
7360					7	
7350						Inc.
7340						}
ELEV. C-C	c'		C/L	·		Enterprises, and oil Field Sel
7400						terprise on Field
7390						End and
7380						
7370						Daggett Surveying
7360						ŏď
7350						
7340						
	DRAWN BY: BS	R.O.W.#: MN253	CADFILE: MN25	33CF8 DATE: 8/	5/03	ا سيسيدا

Daggett Enterprises, Inc. Surveying and Oil Fleid Services P. 0. Box 15068 Farmington, NM 87401 Phone (505) 326-1772 Fax (505) 328-6019



Mallon Oil Company Jicarilla 30-3-36 #4

1,975' FSL 2,020' FWL (NE/4 SW/4) Lot K

Sec. 36 T30N R3W

Rio Arriba County, New Mexico Lease: MDA 701-98-0013 Tract 4

CONFIDENTIAL

DRILLING PROGRAM (Per Rule 320)

This Application for Permit to Drill (APD) was initiated under the NOS process as stated in Onshore Order No. 1 and supporting Bureau of Land Management (BLM) documents. This NOS process includes an onsite meeting which was held on September 30, 2003 as determined by Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA) and Jicarilla Oil & Gas Commission (JOGC), and at which time the specific concerns of Mallon Oil Company (Mallon), BLM, BIA and JOGC were discussed.

MALLON RESPECTFULLY REQUESTS THAT ALL INFORMATION REGARDING THIS WELL BE KEPT CONFIDENTIAL.

SURFACE FORMATION – San Jose

GROUND ELEVATION – 7,370'

ESTIMATED FORMATION TOPS - (Water, oil, gas and/or other mineral-bearing formations)

Upper San Jose	Surface	Sandstone, shales & siltstones
Lower San Jose	1,731'	Sandstone, shales & siltstones
Nacimiento	2,400'	Sandstone, shales & siltstones
Ojo Alamo	3,292'	Sandstone, shales & siltstones
Kirtland	3,584'	Sandstone, shales & siltstones
Fruitland	3,716'	Sandstone, shales & siltstones
Pictured Cliffs	3,788'	Sandstone, shales & siltstones
Lewis	3,895'	Sandstone, shales & siltstones

Estimated depths of anticipated fresh water, oil, or gas: > Water-bearing

4,000'

Tertiary

TOTAL DEPTH

1 Of that y		
San Jose	surface	Gas
Nacimiento	2,400'	Gas
Ojo Alamo	3,292'	Gas/
Fruitland	3,716'	Gas
Pictured Cliffs	3,788	Gas

CASING PROGRAM

Depth	Hole Diameter	Casing Diameter	Casing Weight and Grade	Cement
0' - 250'	12-1/4"	8-5/8"	J-55 24# ST&C New	To surface (±175 sxs Class B)
0' - T.D.	7-7/8"	5-1/2"	J-55 15.5# LT&C New	TD to surface (±630 sxs lite or 65:35 poz and ±270 sxs 50:50 poz)*

^{*} Actual cement volume to be determined by caliper log.

Yields: Class B yield = $1.18 \text{ ft}^3/\text{sx}$

65:35 Poz yield = $1.62 \text{ ft}^3/\text{sx}$ 50:50 Poz yield = $1.26 \text{ ft}^3/\text{sx}$

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and protected.

PRESSURE CONTROL

BOPs and choke manifold will be installed and pressure tested before drilling out under surface casing (subsequent pressure test will be performed whenever pressure seals are broken), and then will be checked daily as to mechanical operating condition. BOP's will be pressure tested at least once every 30 days. Ram type preventors and related pressure control equipment will be pressure tested to 1,000 psi. Annular type preventor will be pressure tested to 50% of the rated working pressure, not to exceed 1,000 psi. All casing strings will be pressure tested to 0.22 psi/ft. or 1,000 psi, whichever is greater, not to exceed 70% of internal yield.

BOP to be either double gate rams or an annular preventor as per Onshore Order No. 2.

Statement on Accumulator System and Location of Hydraulic Controls

The drilling rig has not yet been selected for this well. Selection will take place after approval of this application. Manual and/or hydraulic controls will be in compliance with Onshore Order No. 2 for 2M systems.

A remote accumulator will be used. Pressures, capacities, location of remote hydraulic and manual controls will be identified at the time of the BLM supervised BOP test.

MUD PROGRAM

0' - 250' Fresh water – M.W. 8.5 ppg, Vis 30-33
250' - TD Fresh water - Low solids non-dispersed
M.W. 8.5 – 9.2 ppg
Vis – 28 – 50 sec
W.L. 15cc or less

Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kick" will be available at wellsite.

AUXILIARY EQUIPMENT

- A) A Kelly cock will be kept in the drill string at all times
- B) Inside BOP or stab-in valve (available on rig floor)
- C) Mud monitoring will be visually observed

LOGGING, CORING, TESTING PROGRAM

DIL-CNL-FDC-GR - TD - BSC (GR to surface) Logging:

Sonic (BSC to TD)

B) Coring: None

C) Testing: Possible DST - None anticipated. Drill stem tests may be run on shows of interest

ABNORMAL CONDITIONS

Pressures:

No abnormal conditions are anticipated

Bottom hole pressure gradient - 0.31 psi/ft

B)

Temperatures: No abnormal conditions are anticipated

C) H₂S: None is anticipated.

Estimated bottomhole pressure: 1,240 psi D)

ANTICIPATED START DATE

December 12, 2003

COMPLETION

The location pad will be of sufficient size to accommodate all completion activities and equipment. A string of 2-3/8" J-55 4.7#/ft tubing will be run for a flowing string. A Sundry Notice will be submitted with a revised completion program if warranted.

2-M SYSTEM

MALLON OIL COMPANY

ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS BOP PRESSURE TEST TO 1,000 PSI

