

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		CONFIDENTIAL		5. Lease Serial No. JIC 464
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		2. Name of Operator MALLON OIL COMPANY		6. If Indian, Allottee or Tribe Name JICARILLA
3a. Address 350 INDIANA STREET, SUITE 400 GOLDEN, CO 80401		3b. Phone No. (include area code) Ph: 720.210.1300 Fx: 720.210.1301		7. If Unit or CA Agreement, Name and No.
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NENW 660FNL 1050FWL At proposed prod. zone		10. Field and Pool, or Exploratory E. BLANCO/PICTURED CLIFFS		8. Lease Name and Well No. JIC 464/31 11
14. Distance in miles and direction from nearest town or post office* 55 MILES EAST OF BLOOMFIELD, NEW MEXICO		16. No. of Acres in Lease 2360.00		9. API Well No. 30-039-27731
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,050' - WEST LEASE LINE		18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1,300' - JICARILLA 464 #5		11. Sec., T., R., M., or Blk. and Survey or Area C Sec 31 T30N R3W Mer NMP
21. Elevations (Show whether DF, KB, RT, GL, etc.) 7138 GL		22. Approximate date work will start 03/30/2004		12. County or Parish RIO ARRIBA
		20. BLM/BIA Bond No. on file 1318288		13. State NM
		23. Estimated duration 45-60 DAYS		17. Spacing Unit dedicated to this well 160.00 NW 1/4 111.31

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) KATHY L. SCHNEEBECK Ph: 303.820.4480	Date 02/23/2004
Title AGENT		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed)	Date MAY 7 2004
Title Assistant Field Manager		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

Additional Operator Remarks (see next page)

Electronic Submission #28141 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 02/23/2004 ()

HOLD C194 FOR NSP order

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-27731	² Pool Code 72400	³ Pool Name East Blanco: Pictured Cliffs
⁴ Property Code 24245 34022	⁵ Property Name JICARILLA 464-31	⁶ Well Number 11
⁷ GRID No. 013925	⁸ Operator Name MALLON OIL CO.	⁹ Elevation 7138'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	31	30-N	3-W		660	NORTH	1050	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
¹² Dedicated Acres 111.31			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

¹⁶ FD. 2 1/2" BC 1917 GLO LOT 1 1050' S 89-38-18 E 4316.10' LAT.= 36-46-25 N. (NAD 83) LONG.=107-11-37 W LOT 2 LOT 3 LOT 4 FD. 3 1/2" BC 1917 GLO S 00-01-33 W 5303.7'		FD. MARKED STONE	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <u>Kathy L. Schneebeck</u> Signature Kathy L. Schneebeck Printed Name Agent for Mallon Oil Company Title February 20, 2004 Date
¹⁸ 31 MAY 2004 RECEIVED OIL CONSERV. DIV. DIST. 3			¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 12 DAVID A. JOHNSON Date of Survey Signature and Seal of Professional Surveyor: 14827 Certificate Number

Mallon Oil Company
Jicarilla 464-31 #11
660' FNL 1,050' FWL (NE/4 NW/4)
Sec. 31 T30N R3W
Rio Arriba County, New Mexico
Lease: Jicarilla Contract 464

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 January 20, 2004 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 – 7,138'

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

Upper San Jose	Surface	Sandstone, shales & siltstones
Lower San Jose	1,440'	Sandstone, shales & siltstones
Nacimiento	2,026'	Sandstone, shales & siltstones
Ojo Alamo	3,072'	Sandstone, shales & siltstones
Kirtland	3,307'	Sandstone, shales & siltstones
Fruitland	3,590'	Sandstone, shales & siltstones
Pictured Cliffs	3,644'	Sandstone, shales & siltstones
Lewis	3,714'	Sandstone, shales & siltstones

TOTAL DEPTH 4,000'

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

Tertiary

San Jose	surface	Gas
Nacimiento	2,026'	Gas
Ojo Alamo	3,072'	Gas
Fruitland	3,590'	Gas
Pictured Cliffs	3,644'	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

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

- A) 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.
- D) Estimated bottomhole pressure: 1,240 psi

ANTICIPATED START DATE

March 30, 2004

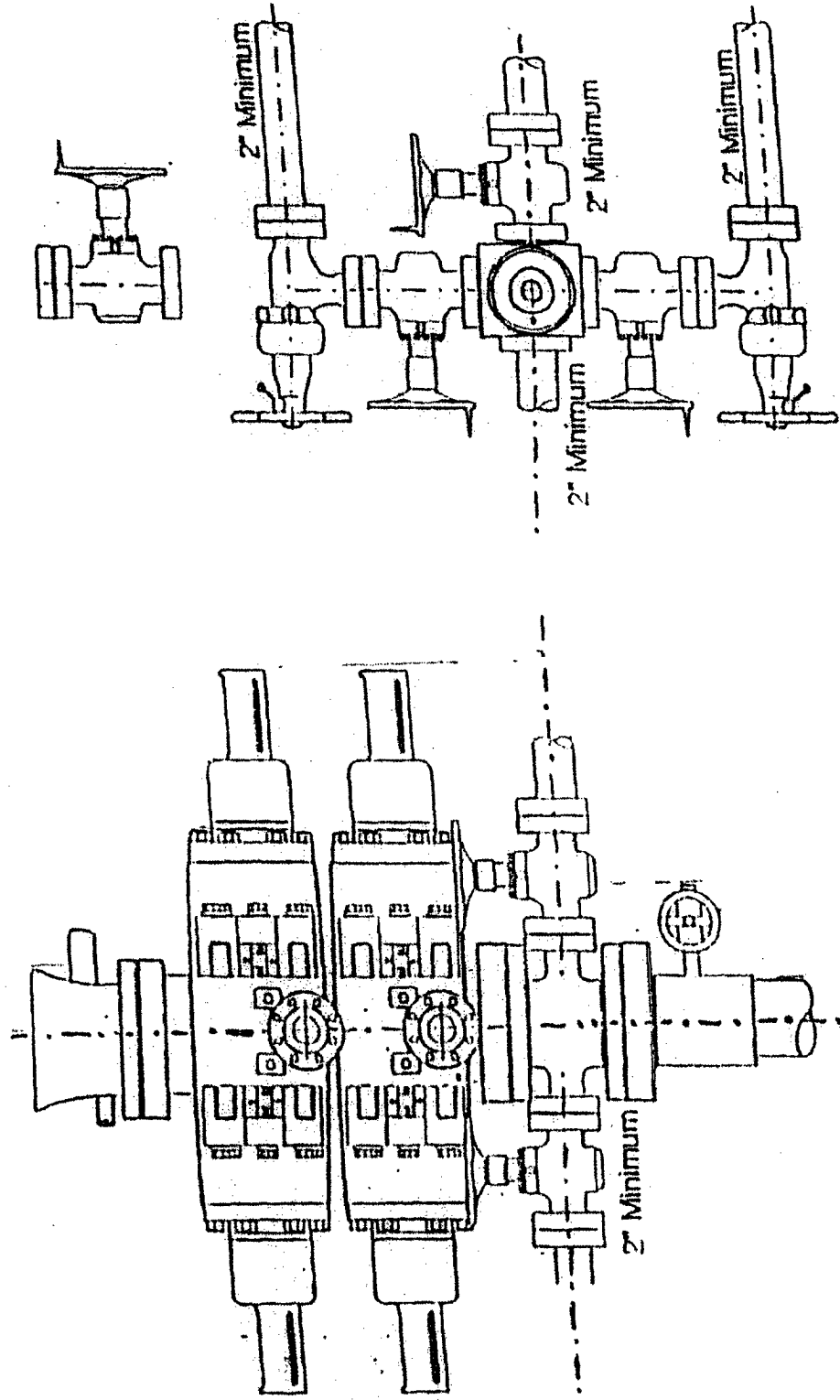
COMPLETION

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

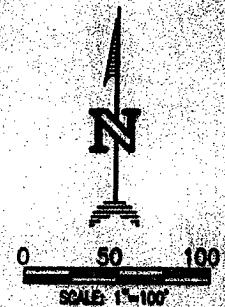
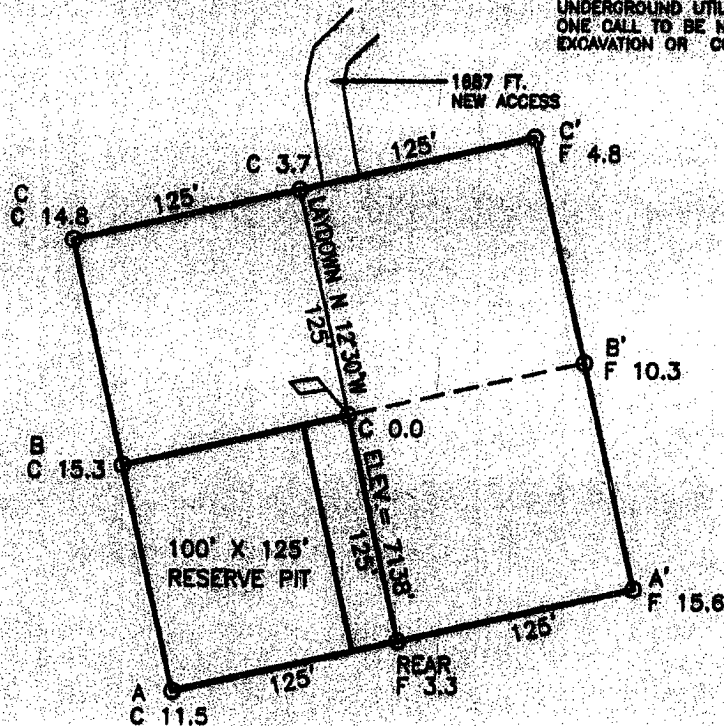
ANNULAR PREVENTOR MAY BE SUBSTITUTED FOR DOUBLE GATE PREVENTORS
BOP PRESSURE TEST TO 1,000 PSI



COMPANY: MALLON OIL COMPANY
 LEASE: JICARILLA 464-31 No. 11
 FOOTAGE: 860' FNL 1050' FWL
 SEC.: 31 TWN: 30-N RNG: 3-W NMPM
 ELEVATION: 7138'

NOTE:

DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR
 UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO
 ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO
 EXCAVATION OR CONSTRUCTION.



7120	-----	-----	-----	-----	-----
7110	-----	-----	-----	-----	-----
7100	-----	-----	-----	-----	-----

ELEV. C-C'	C/L				
7160	-----	-----	-----	-----	-----
7150	-----	-----	-----	-----	-----
7140	-----	-----	-----	-----	-----
7130	-----	-----	-----	-----	-----
7120	-----	-----	-----	-----	-----
7110	-----	-----	-----	-----	-----
7100	-----	-----	-----	-----	-----

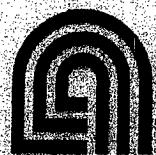
DRAWN BY: A.G.

R.D.W. 1/11/2007

CAD FILE: NM2076.RB

DATE: 12/15/03

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

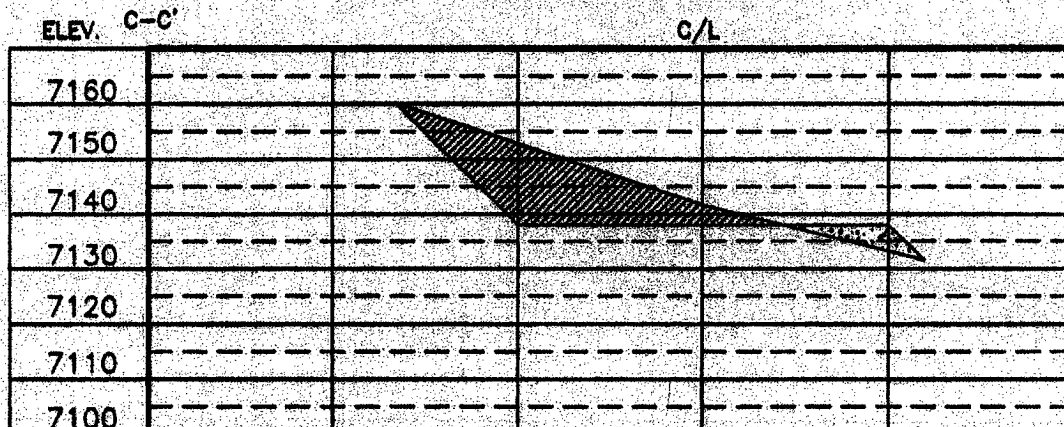
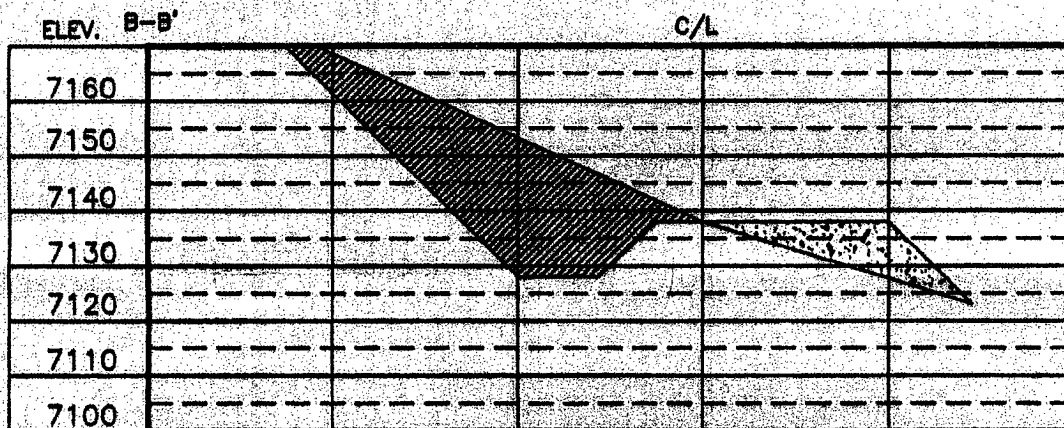
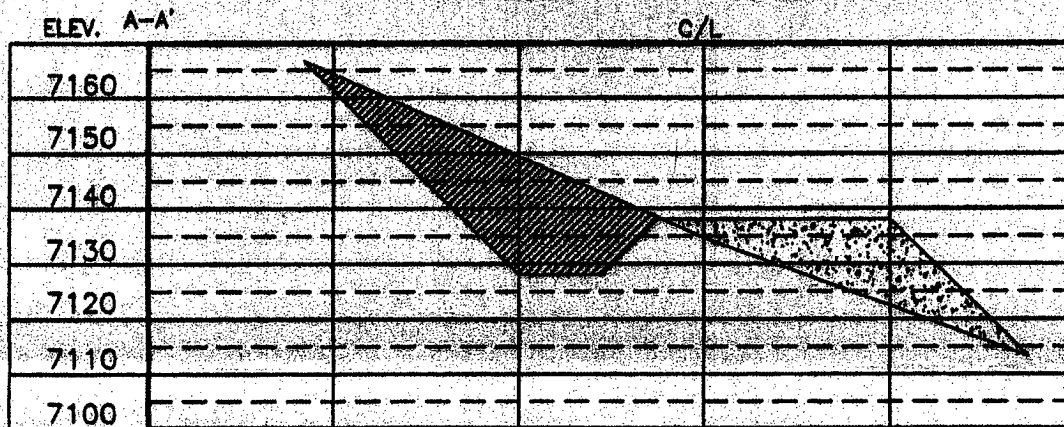


COMPANY: MALLON OIL COMPANY
 LEASE: JICARILLA 484-31 No. 11
 FOOTAGE: 660' FNL 1050' FNL
 SEC.: 31 TWN: 30-N RNG: 3-W NMPM
 ELEVATION: 7138'

NOTE:

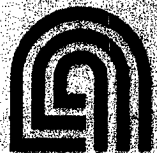
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 1687 FT.
 NEW ACCESS



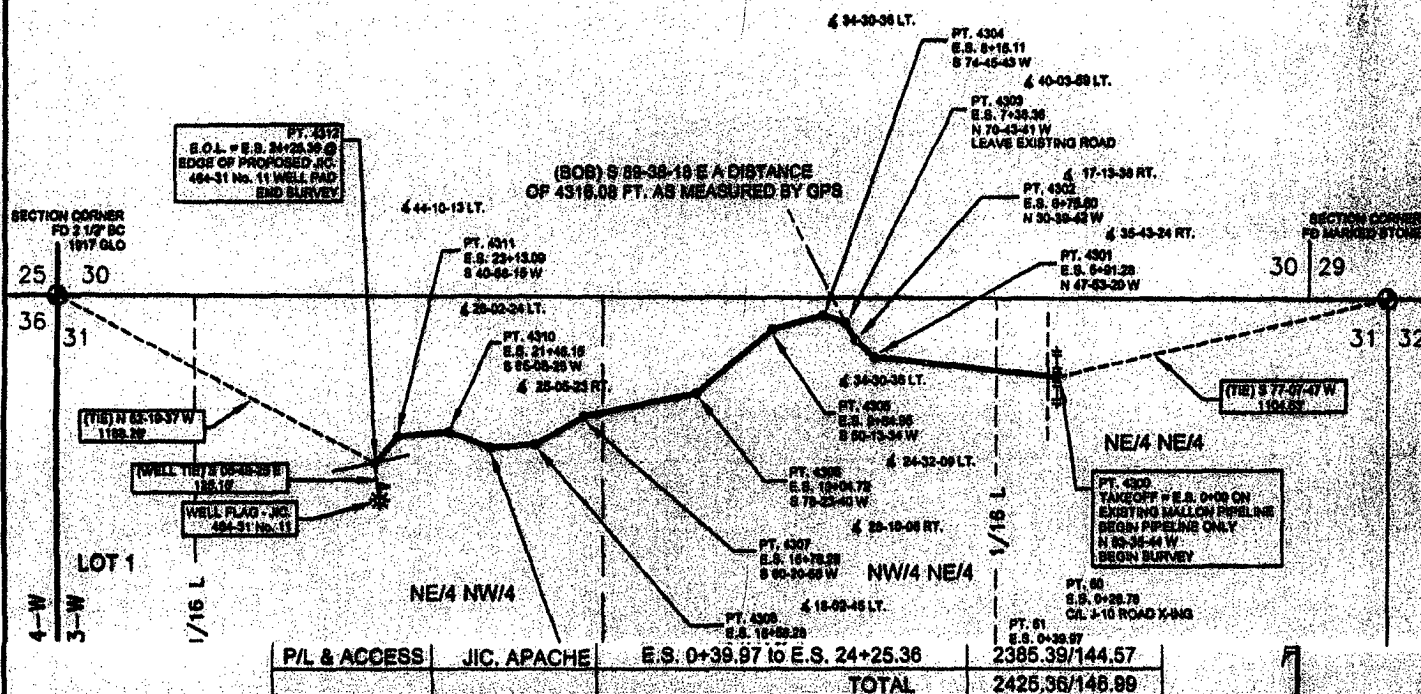
DRAWN BY: A.G. R.O.W. #44287 CADFILE:MN267CPS DATE: 12/15/03

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



**A PRELIMINARY SURVEY FOR
MALLON OIL COMPANY
JIC. 464-31 No. 11, P/L AND ACCESS**

NE/4 NE/4, NW/4 NE/4 AND NE/4 NW/4 OF SEC. 31 TOWNSHIP 30 NORTH, RANGE 3 WEST, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO



NOTES:

1) BASIS OF BEARING - FOUND BETWEEN MONUMENTS AT THE NORTHWEST CORNER AND THE NORTHEAST CORNER OF SECTION 31, T-30-N, R-3-W, N.M.P.M. LINE BEARS S 89-39-18 E A DISTANCE OF 4318.08

2) DATE OF SURVEY - 12-08-03

DAGGETT ENTERPRISES, INC. IS NOT RESPONSIBLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

I, DAVID A. JOHNSON, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY. THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

REVISION: 1 REV. BY: 1 DATE: 12-16-03

Daggett Enterprises, Inc.
Surveying and Oil Field Services
P. O. Box 15085, Farmington, NM 87401
Phone: (505) 325-1772 Fax: (505) 325-4818
REGISTERED LAND SURVEYOR
NEW MEXICO No. 14827