SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

UNITED STATES DEPARTMENT OF THE INTERIOR

| | NM-86863 | | | | | |
|--|--|---|--|--------------------------|--|--|
| APPL | ICATION FOR PI | 6. IF INDIAN, ALLOTTER OR TRIBE NAME | | | | |
| . TYPE OF WORK DR . TYPE OF WELL | ILL 🖺 | DEEPEN | 01.5[] - [| : [: | 77. UNIT AGREEMENT NAME | |
| WELL X | VELL OTHER | | NONE X SUPERIOR | | SE FARM OR LEASE NAME WELL NO. | |
| Morrion Oil | & Gas Corporati | on 14634 | | | Sarcio #1 1593/ | |
| ADDRESS AND TELEPHONE NO. | & Gas Corporati | on 14634 | | | 30 031 - 20381 | |
| | 40, Farmington, | | | | 10. FIELD AND POOL OF WILDCAT 963 | |
| At surtace | seport location clearly and | | State requirements.*) | | WildcatsELDADO-ENTROOR | |
| At proposed prod. son | 1650' fn1 & 1650 e | 'fwl (SENW) | | | Section 16,T15N, R6W, N | |
| DISTANCE IN MILES | AND DIRECTION FROM NEAR | EST TOWN OR POST OFFI | CE. | | 12. COUNTY OR PARISH 13. STATE | |
| | rth of San Mateo | | | | -Sandoval mK NM | |
| DISTANCE FROM PROP | DEED * | 16. N | O. OF ACRES IN LEASE | | OF ACRES ASSIGNED HIS WELL | |
| | LINE, FT. 1850's. unit line, if any! | | 1676.13 | _ | 40 | |
| DISTANCE PROM PROF. TO NEAREST WELL, D OR APPLIED FOR, ON TH | RILLING, COMPLETED. | /A | ROPOSED DEPTH | 20. ROTA | ART OR CABLE TOOLS | |
| | other DF, RT, GR, etc.) | /A | 3250' | <u> </u> | Rotary 22. APPROX. DATE WORK WILL START* | |
| 6736' GR | | | | | Fall, 1994 | |
| | | PROPOSED CASING AN | D CEMENTING PROGRA | м | | |
| SIZE OF HOLE | GRACE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | | QUANTITY OF CEMENT | |
| 12-1/4" | 8-5/8" J-55 | 24# | 240' | 150 s | sxs (177 cu.ft.) | |
| 7-7/8" | 5-1/2" J-55 | 15.5# | 3250' | 600 9 | sxs (1126 cu.ft.) | |
| hole surveys casing to TI 125 sxs neat | s will be run. D and cement in : | If well appears single stage wi .). Estimated | s productive, wi ith 475 sx lite top at surface. | ll run cement Will | Entrada formation. Open 5-1/2", 15.5# production (979 cu.ft) followed by perforate and stimulate SECEIVED NOV - 2 1994 | |
| rove space bescrib | F PROPOSED PROGRAM: If a | remonal is to deepen, give dat | ia on present productive zone | | DIST. 3 d new productive zone. If proposal is to drill or | |
| en directionally, give pert | nent data on subsurface location | s and measured and true vertices | cal depths. Give blowout preve | enter program, | if any. | |
| BIGNED A | - Il | TITLE | Operations Mana | iger | BATE 8/30/94 | |
| / Steve | rai or State office use) | | | | | |
| | | | | | | |
| PERMIT NO. | and the second of seconds that the second | licent holds legal or equitable t | | Icase which w | rould entitle the applicant to conduct operations thereon | |
| CONDITIONS OF APPROVAL | | AR | EA MANAGER | 47 | | |
| APPROVED BY | THE STATE OF THE S | SACODUS IITLE | 0.0.0.0.1 | | DATE | |
| 2 | | "See Instructions | On Reverse Side | | | |
| 04 | | t a - 0 - | and the company of the fitting of the company of th | 0.44.0 | TARREST THE ST. LAND CO. L. C. C. | |

District I PO Box 1988, Hobbs, NM 88241-1988 District [] PO Drawer DD, Artesia, NM 88211-8719

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 10, 1994 Instructions on back

Ceruficate Number

Submit to Appropriate District Office

OIL CONSERVATION DIVISION

| fatriet III 000 Rio Brazos Rd., Aztec, NM 87410 Natriet IV | | | PO Box 2088 Santa Fe, NM 87504-2088 | | | | | Fee Lease - 3 Cop | | |
|--|------------|--------------------|--|------------|----------------------|--------------------------------|---|---------------------------|---------------------|-----------------|
| Metrict 1V O Beg 2008, Se | ata Fe, NM | 875 84-2088 | | | | | | | AMENDED R | EPOR |
| | | WE | LL LO | | AND AC | REAGE DEDI | | | | |
| | | | 1 Pool Code | Pool Code | | | FOOL NAME FELDADO-ENTRADA COTO | | | |
| | | 671/ | ' Property Name | | | J-ENIX | · Well Number | | | |
| ' Property Code | | | Sa | arcio | , | | | 1 | | |
| OGRID No. | | | Operator Name | | | | | ' Elevation | | |
| 014634 | | Men | rion (| Oil & Gas | | | | | 6736' GR | |
| | | | | | | Location | ···· | , | | |
| UL or lot no. | Section | Township | Range | Lot ida F | 1650 | North/South fine | Feet from the 1650 | West | 1 | va 1 |
| | 16 | 15N | 6W | to II II I | | <u> </u> | | 1 11030 | Sando | |
| UL or lot so. | Section | Township | Range | | cot from the | If Different Fr | Feat from the | East/West & | as County | - |
| ² Dedicates Ac | <u> </u> | | operidetie | Code Orde | | | | <u> </u> | | |
| NO ALLO | WABLE | OR A | ASSIGNE NON-ST | D TO THIS | COMPLET NIT HAS B | ION UNTIL ALL BEEN APPROVED | BY THE DIVI | SION RATOR C | CERTIFICA | |
| 16 | 50' / | 1650' | | 6 | | | Signature Planted Name Steven Title Operat Date Au | S. Dunn ions Man gust 30, | a of my inomissic a | TION |

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

DISTRICT

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section A2 5A Operator Merrion Oil & Gas Corporation Sarcio Unit Letter Township Range County Section Mckinley 15N 6W F 16 **NMPM** Actual Footage Location of Well: 1650 West 1650 North feet from the feet from the line and Dedicated Acreage: Ground level Elev. Producing Formation Pool 6736 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. 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.? If answer is "yes" type of consolidation Yes If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. Fd. OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. 650 Signatu Printed Varne Position Company 1650 Date 6 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 supervison, and that the same is true and correct to the best of my knowledge and belief. 1,500 500 0 1000 330 660 1320 1650 1980 2310 2640 2000

MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

(Attachment to Form 3160-3)

SARCIO No. 1

1650' fnl & 1650' fwl (SENW) Section 16, T15N, R6W Sandoval, New Mexico

1. ESTIMATED FORMATION TOPS:

| <u>FORMATION</u> | DEPTH | | |
|------------------|-------|--|--|
| Hospah | 896' | | |
| Massive Gallup | 1006' | | |
| Greenhorn | 1616' | | |
| Dakota | 1706' | | |
| Morrison | 2028' | | |
| Entrada | 3046' | | |
| Total Depth | 3251' | | |
| | | | |

2. WELL CONTROL SYSTEM

A. BOP SYSTEM

Proposed blowout preventer system (schematic drawings attached) is a series 900 double ram with choke and kill manifold, and will be used in 2M service.

B. WORKING PRESSURE

Minimum required working pressure rating for BOP stack is 2000 psi. Rationale for this rating is as follows:

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Max anticipated bottomhole pressure (MABHP):

MABHP = 0.433 psi/ft * 3,500'
= 1,516 psi

Anticipated surface pressure (ASP):

ASP = MABHP - (0.22 psi/ft * TVD)
= 1,516 psi - (0.22 psi/ft * 3,500')
= 746 psi
```



