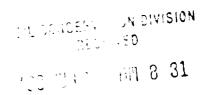
MERRION

OIL & GAS



CERTIFIED RETURN RECEIPT REQUESTED

June 9, 1993

Mr. William LeMay New Mexico Oil Conservation Division P. O. 2088 Santa Fe, New Mexico 87503

RE:

HIGH HOPES No. 1 1220' FNL & 1300' FEL Section 28, T20N, R5W McKinley, New Mexico

Dear Mr. LeMay:

This letter is to request administrative approval for a non-standard oil well located in the Ojo Encino Entrada Pool.

Merrion Oil & Gas Corporation plans to drill and complete the High Hopes No. 1, located 1220' FNL & 1300' FEL, McKinley County, New Mexico. The well is non-standard due to topographic considerations, the original location would have fallen in an arroyo 40 feet wide and 10 feet deep. To comply with the New Mexico Oil Conservation's rules, Merrion is submitting the following for your approval of this non-standard location:

- 1. Application for Permit to Drill
- 2: C-102 plat showing the location of this well;
- 3. Plat showing offset owners/operators;
- Affidavit of notification of offset owners/operators.

A copy of this application is being submitted to all offset owners/operators by certified mail with a request that they furnish your Santa Fe Office with a Waiver of Objection, and return one copy to this office.

Sincerely, Steven S. Dunn **Operations Manager**

INC.	by warves objection to Merrion On & Gas Corporation's application for a
non-standard location for their High F	lopes No. 1 well as pospoed.
By:	Date:
SSD/eg	
אסוט/כע	

Enclosures

XC: Well File Distribution: O+4 (BLM-F. ington; l- Well File)

SUBMIT IN TRI \TE* (Other instructious on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires August 31, 1985

Form 3160-3 (November 1983) (formerly 9-331C)

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO.

	NM-7409								
APPLICATION	6. IF INDIAN, ALLOTTER OR TRIBE NAME								
1a. TYPE OF WORK DRI b. TYPE OF WELL	LL X	DEEPEN		PLUG BAC	ж 🗆	7. UNIT AGEREMENT NAME			
WELL X	ELL OTHER		8. FARM OR LEASE NAME						
2. NAME OF OPERATOR						High Hopes			
	& Gas Corporatio	n				9. WELL NO.			
3. ADDRESS OF OPERATOR	0 B		97/0	10		1			
	O, Farmington, N					10. FIELD AND POOL, OR WILDCAT			
4. LOCATION OF WELL (K. At surface	eport location clearly and	in accordance wi	to aby S	tate requirements.")		Ojo Encino Entrada			
1220 At proposed prod. son	' FNL & 1300' FE	L (NENE)				11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA Continue 29 TOOM DELL			
14 DISTANCE IN MITTE	AND DIRECTION FROM NEAR	BOT TOWN OF BOS	T OFFICE			Section 28, T20N, R5W			
				•					
± 21 miles 5	outh of Counseld	rs, New Me		OF ACRES IN LEASE	17 80 (McKinley New Mexico			
LOCATION TO NEAREST PROPERTY OR LEASE 1	r .ine, ft.	1220'		640		HIS WELL			
(Also to nearest drig 18. DISTANCE FROM PROF		1220	19. ги	O4U	20. ROTA	40			
TO NEAREST WELL, D	RILLING. COMPLETED,			6040'		Rotary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)		·			22. APPROX. DATE WORK WILL START*			
6762' GR						July 15, 1993			
23.	P	ROPOSED CASI	NG ANI	CEMENTING PROGRA	.м				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P	POOT	SETTING DEPTH	1	QUANTITY OF CEMENT			
12-1/4"	9-5/8", J-55	36#/ft		240'	150 s	SXS			
8-3/4"	7", J-55	23#/ft		6040'	740 sxs (2 stages)				
surface casin press test to open hole log and cement 1 2.06 cu.ft.), Will circulat cement with 2 followed by top of cement the potential Additional dr	g with 150 sx (o 600 psi for s. If well app st Stage with 2 followed by 75 se 3-4 hrs between 150 sx (567 cu.f. 100 sx (122 cu.f. is at the surly productive in the surly production in the surly productive in the surly prod	Class B (1) 15 minutes ears produ 290 sx (59 sx (92 cu een stages t.) Class ft.)Class face. We ntervals. I details a proposal is to dee liv. give pertinen	77 cu ctive 7 cu ft.) Se B, 2 H wi will are a	.ft.) 2% CaCl ₂ . ill drill 8-3/4 , we will run 6 .ft.) Class B, Class H with cond stage too % Sodium Metasi th 2% gel (yie) perforate and s ttached.	Will' hold 6040 ft 2% Sold gell in Milicate ld 1.2 stimular resent procedures were sold measured.	ft of 9-5/8", 36#, J-55 I wait on cement 10 hrs, e to 6040 ft. Will run of 7", 23#, J-55 casing dium Metasilicate (yield (yield 1.22 cu.ft./sx). Mancos at ± 2850'. Will e (yield 2.06 cu.ft./sx), 2 cu.ft./sx). Estimated ate as necessary to test indicate some and proposed new productive d and true vertical depths. Give blowout			
PERMIT NO.	eral or State office use)			APPROVAL DATE					
CONDITIONS OF APPROV	VAL, IF ANY :	T1	TLE			DATE			

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION DISTRICT I P.O. Box 1980, Hobbs, NM 88240

P.O. Box 2088

Sama Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM \$8210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

MERRION OIL & GAS CORPORATION Bigh Hopes 1 1 20 N. Range 5 W. NMPM McKinley								
Use Larrary Secrete 20 N . Rapse 5 W . No. MCKinley	Operator MERRION	OIL & GAS (CORPORATION		Hi	gh Hopes		Well No.
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unitization, force-pooling, etc.? Yes			•	•		•		rking interest and royalty).
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MERRION OIL & GAS CORPORATION

DRILLING TECHNICAL PROGRAM

ATTACHMENT TO FORM 3160-3

HIGH HOPES NO. 1

1220' FNL & 1300' FEL (NENE)
Section 28, T20N, R5W
McKinley County, New Mexico

1. ESTIMATED FORMATION TOPS:

FORMATION	DEPTH	FORMATION	DEPTH
Fruitland	Surface	Greenhorn	4658'
Pictured Cliffs	423'	Graneros	4745'
La Ventana	1291'	Dakota	4862'
Menefee	1389'	Morrison	4967'
Point Lookout	2603'	Todilto	5823'
Mancos	2837'	Entrada	5858'
Gallup	3636'	Total Depth	6040'
Sanostee	4322'	•	

2. WELL CONTROL SYSTEM

- A. 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. Minimum required working pressure rating for BOP stack is 2000 psi.
- C. BOP pressure testing will be conducted at time of installation and prior to drillout of surface casing shoe. The BOP's will be activated at minimum on each trip for a bit and recorded in driller's log.

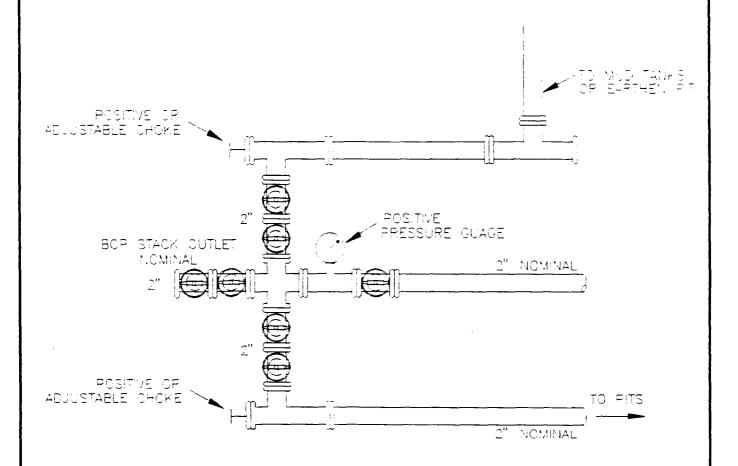
3. DRILLING MUD PROGRAM

- A. Surface hole will be drilled with fresh water gel system, lime added to provide viscosity as needed.
- B. A 8-3/4" hole will be drilled to total depth utilizing a low solids, non-dispersed gel-water mud system. Additives such as starch, cmc, soda ash and others will be used to control mud characteristics as necessary. No materials of a hazardous nature will be added to the drilling fluid in hazardous quantities.

Lost circulation materials will be stored on location, as necessary, for use in restoring lost circulation.

MERRION OIL AND GAS CORPORATION CHOKE MANIFOLD SCHEMATIC (ATTACHMENT TO DRILLING TECHNICAL PROGRAM)

HIGH HOPES #1 1,220' FNL & 1,300' FEL SECTION 28, T20N, R5W MCKINLEY COUNTY, N.M.



FER 2,000 PDI PATED WERKING PREDDUPE

SPREE KELLY SECK VALUE WITH HAMBLE AVAILABLE

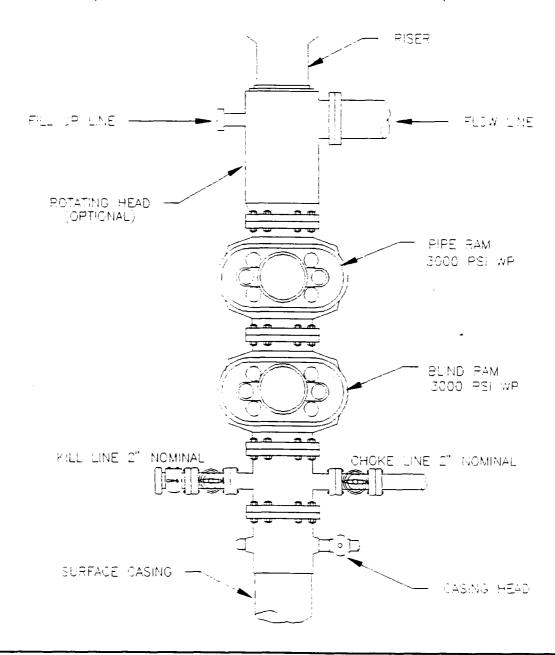
CAFETY MALUE HID DUBC TO FIT ALL DRILL STRINGS IN USE WILL BE AMAILABLE

ENG CTENE CUMM - DEFTWORKS. CATE 6-4-83

MERRION OIL & GAS CORPORATION FARMINGTON, N.M. (505) 327-9801

BLOWOUT PREVENTER SCHEMATIC FOR 2M SERVICE

(ATTACHMENT TO DRILLING TECHNICAL PROGRAM)



MERRION OIL & GAS WELL NAME

LOCATION

DATE: 6-4-93 ENG: STEVE DUNN DRFT: S.R.G.

HIGH HOPES #1

1,220' FNL & 1,300' FEL SECTION 28, T20N, R5W MCKINLEY COUNTY, N.M.

INTE	RVAL	MUD SYSTEM	WEIGHT _#/GAL_	VISCOSITY SEC/OT	WATER LOSS CC
Vert	0 - 210'	Gel-Lime	9.0	35-45	NA
Vert	240'-6020'±	Gel-Wtr ND	8.4-9.0	28-45	≤ 12

C. Mud trip monitoring will be done visually.

4. HAZARDS

- A. No abnormal pressure is anticipated. However, 2M BOPs will be used under surface casing to total depth. Normal pressure gradient is <0.38 psi/ft of depth in this area.
- B. Lost circulation is not expected to be a major problem in this area. However, lost circulation materials will be stored on location during drilling.
- C. No H₂S is expected to be encountered. However, should H₂S be found during drilling, detection and warning equipment will be installed.
- D. Unintentional hole deviation is not expected to be a problem. Single shot surveys giving hole inclination will be run a minimum of every 500 feet.

5. LOGGING AND TESTING

- A. An IES Induction Log will be run from TD to surface. A Compensated Density Log will be run to cover zones of interest. A sonic log may be run if warranted.
- B. Drill stem tests will be run as necessary to test hydrocarbon shows. Two tests are possible.
- C. No core is anticipated.
- D. Plans call for using a mud logging unit during drilling.

MERRION OIL AND GAS CORP. WELLBORE SCHEMATIC

HIGH HOPES #1

1,220' FNL & 1,300' FEL (NENE) SECTION 28, T20N, R5W MCKINLEY SOUNTY, NEW MEXICO

ENG: STEVE DUNN DRFT: S.R.G. DATE: 6-4-93

ELEVATION GL: 67621 AB: 67751

FORWATION TOPS: (KB)

SURFACE
423'
1291'
1389'
2603'
2837"
3636'
4322'
46581
4745'
4862′
4967'
5823'
5858'
6040 '

TOO @ SURFACE ECTH CASING STRINGS 100) 12 1/4" B.T SIZE 10 SURFACE 3 5/8" 36# @ 240" W/150 SX 1 18 3/4" BT SIZE 10 4 > 1 5) . STAGE TOOL @ 2850' 2ND STAGE - 375 SK (689 CU FT) 1 ۵ PROD - 7" 20 & 13 # @ 6040" +8 18T STAGE - 365 SK 683 CU FT 11 PBTD: 5980'

CAPACITIES:
12 1 14' - 2 5/8" ANNULUS
8 3 4 " + 7" ANNULUS
12 1/4" CH
8 3 4" CH
9 7 3" 33 0
7 20 5

 BBL/FT
 QUFT/F

 0.0558
 0.3131

 0.0268
 0.1503

 0.1458
 0.8134

 0.6744
 0.4176

 0.6773
 0.4341

 0.0405
 0.2073

 0.0394
 0.2210

MERRION OIL & GAS CORPORATION

SURFACE USE AND OPERATIONS PLAN

Pursuant to NTL-6

(ATTACHMENT TO FORM 3160-1)

HIGH HOPES NO. 1
1220' FNL & 1300' FEL (NENE)
Section 28, T20N, R5W
McKinley County, New Mexico

1. EXISTING ROADS

- A. The proposed well site and elevation plats are attached.
- B. Directions: From Counselors south on dirt access 21.5 miles to Ojo Encino School. Right at intersection past school. Two miles to Ojo Encino Field. Left thru Federal 21-4 location to High Hopes location.
- C. All roads to location are indicated on attached map.
- D. Improvement and maintenance: Maintenance will be performed as required to keep existing roads in same or better condition.

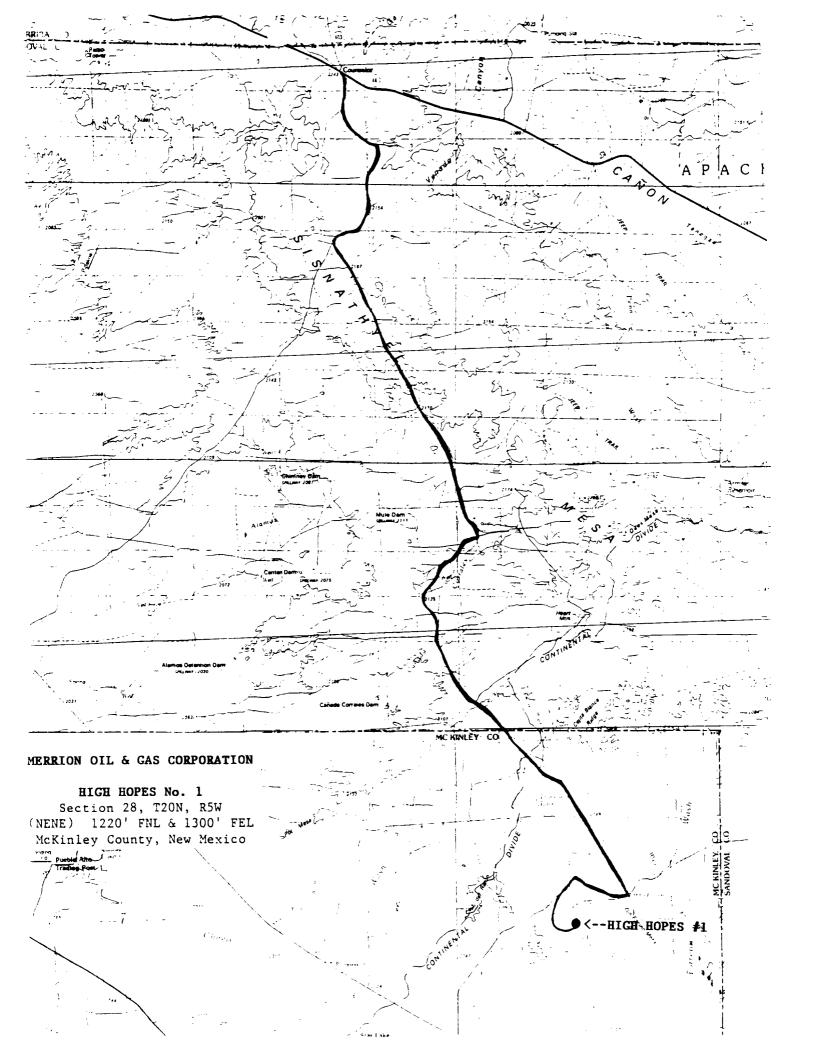
2. PLANNED ACCESS ROADS

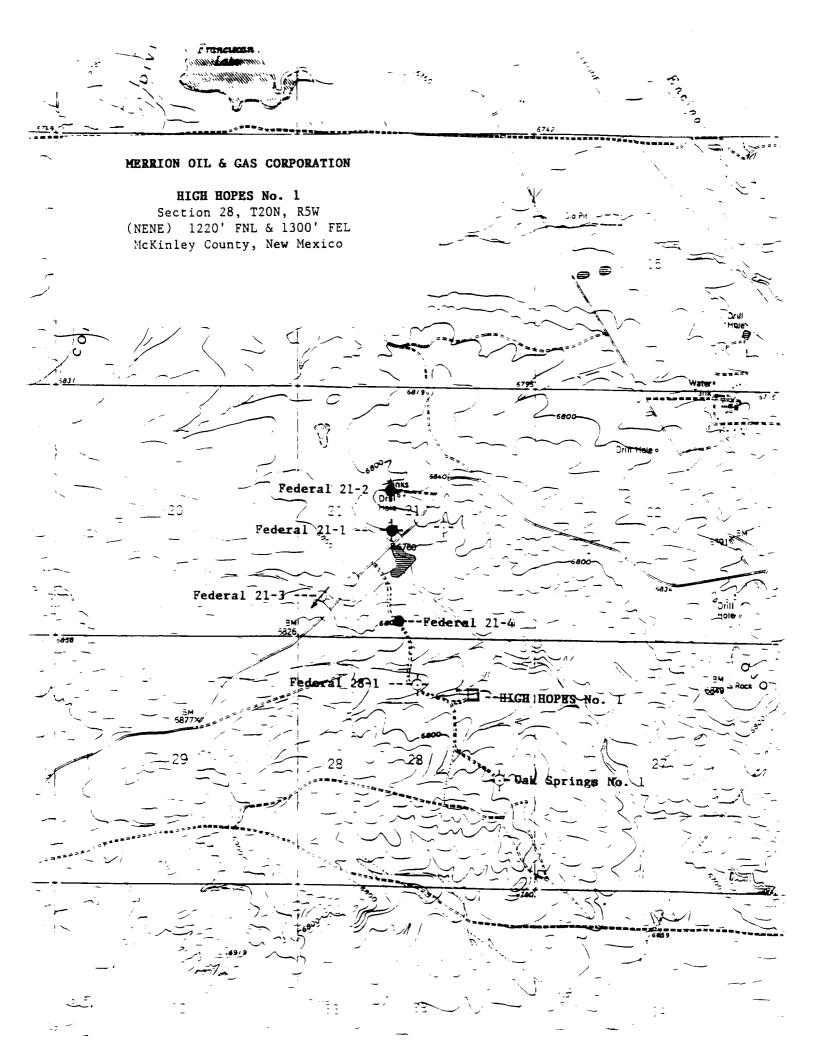
400 feet of new or upgraded access road may be required. (Shown on topographic map enclosed). New access road will have approximately a 14' running surface with a 4' to 1' grade ditch on both sides. Road will have no turnouts. Road surface will be constructed of existing materials.

3. LOCATION OF EXISTING WELLS

For all existing wells within one mile radius of location, see attached topographic map.

- A. There are no water wells within a one mile radius of this location.
- B. There are 5 abandoned well in this one mile radius..
- C. There are no temporarily abandoned wells.
- D. There is 1 disposal well.
- E. There are no wells presently being drilled.
- F. There is 1 producing well within this one mile radius.





MERRION OIL & GAS CORPORATION SURFACE USE AND OPERATIONS PLAN HIGH HOPES NO. 1

- G. There are no shut-in wells.
- H. There are no injection wells.
- I. There are no monitoring or observation wells for other uses.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. With a one mile radius of location, the following existing facilities are owned or controlled by lessee/operator:
 - 1) Tank Batteries:

On Federal 21-4 wellsite.

- 2) Production Facilities: On Federal 21-1 and Federal 21-4 wellsites.
- 3) Oil Gathering Lines: From Federal 21-4 to Federal 21-1 well.
- 4) Gas Gathering Lines: Chaco Slope Surface Gas Line
- 5) Injection Lines:

None

6) Disposal Lines:

From Federal 21-1 to Federal 21-3 well.

- B. If production is obtained, new facilities will be as follows:
 - 1) All production facilities will be located at the High Hopes No. 1 proposed location.
 - 2) A production flowline will be installed on location.
 - 3) Drill pad size will be approximately 300 feet long and 150 feet wide.
 - 4) No construction materials for battery site and pad will be necessary.
 - 5) Any necessary pits will be fenced on three sides during drilling and the fourth side upon completion.
 - 6) Rehabilitation whether well is productive or dry, will be made on all unused areas in accordance with BLM or appropriate agency recommendations.

MERRION OIL & GAS CORPORATION SURFACE USE AND OPERATIONS PLAN HIGH HOPES NO. 1

5. LOCATION AND TYPE OF WATER SOURCE

- A. The source of water will be Ojo Encino produced water at the central disposal facility for Ojo Encino, Section 21, T20N, R5W. A backup source is Johnson's Trading Post.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. CONSTRUCTION MATERIALS

- A. No construction materials are needed for drilling and access roads into the drilling location. The existing surface materials will be sufficient and will be provided by the Dirt Contractor as needed.
- B. No construction materials will be taken off Federal or Indian lands.
- C. No surface materials for construction of access roads are required.
- D. All major access roads presently exist as shown on topographic map.

7. HANDLING OF WASTE MATERIALS AND DISPOSAL

- A. Drill cuttings will be placed in the drill pit and covered, when appropriate.
- B. Drilling fluids will be disposed of in the drill pit.
- C. Any fluids recovered during drilling tests or while making production tests will be collected in a test tank if possible. If a test tank is not available during drilling, fluids will be handled in drill pit. Any excessive spills or oil, gas, salt waters or other noxious fluids will be cleaned up and removed.
- D. Latrine facilities will be provided for human waste.
- E. Garbage and non-flammable waste and salts and other chemical produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit if necessary. Drill fluids, water, drilling mud and tailings will be kept in drill pit. Drill pit will be fenced on three sides and the fourth side fenced upon removal of rig.
- F. After the rig moves out, location will be cleaned up and no dangerous materials will be left on location. Drill pit will be fenced on three sides during drilling and after drilling completely fenced until such time as the pit is buried.

MERRION OIL & GAS CORPORATION SURFACE USE AND OPERATIONS PLAN HIGH HOPES NO. 1

8. ANCILLARY FACILITIES

A. No air strip, camp or other facilities will be built during drilling of this well.

9. WELL SITE LAYOUT

A. Drill pad layout attached.

The drill pad layout is a diagram of the proposed rig and equipment reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be several trailers on site.

B. The reserve pit will be lined. Steel drilling pits will be used during drilling operations.

10. PLANS FOR RESTORATION

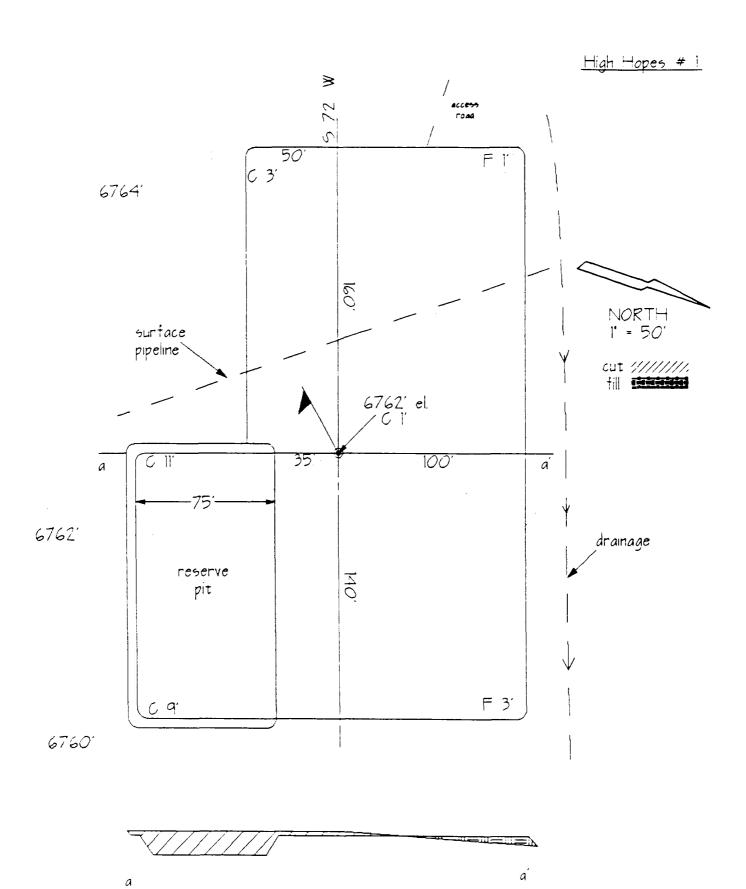
- A. Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils material will be fenced, buried, or hauled away as soon as practical after drilling and completion work is finished. If production is obtained, the unused area will be restored as soon as possible.
- B. Any banked soil material, if removal required, will be spread over the area. Revegetation will be accomplished by planting seed mix as per surface managing agencies requirements.
- C. Three sides of the reserve pit will be fenced during drilling operations. As soon as practical after drilling the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until burying and cleanup is accomplished.
- D. The rehabilitation operations will begin as soon as practical after the drilling rig is removed. Cleanup will be done as needed. Planting and revegetation is normally required to be done from July 15 to September 15, unless requested otherwise.

11. OTHER INFORMATION

A. Soil - Sandy/Loam.

Vegetation - Sagebrush, grasses and other native vegetation.

B. The primary surface use is for grazing. The surface is owned by the Bureau of Land Management.



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N ERRION OIL & GAS CORPORATION SURFACE USE AND OPERATIONS PLAN HIGH HOPES NO. 1

- D. Restrictions: None. Operator has all rights.
- E. Drilling is planned for on or about July 15, 1993. Drilling operations should be completed within 60 days.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Steven S. Dunn, Operations Manager Merrion Oil & Gas Corporation P. O. Box 840 Farmington, New Mexico 87499 Telephone: (505) 327-9801

13. CERTIFICATION

I hereby certify that I, or persons under by direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Merrion Oil and Gas Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

6-4-93

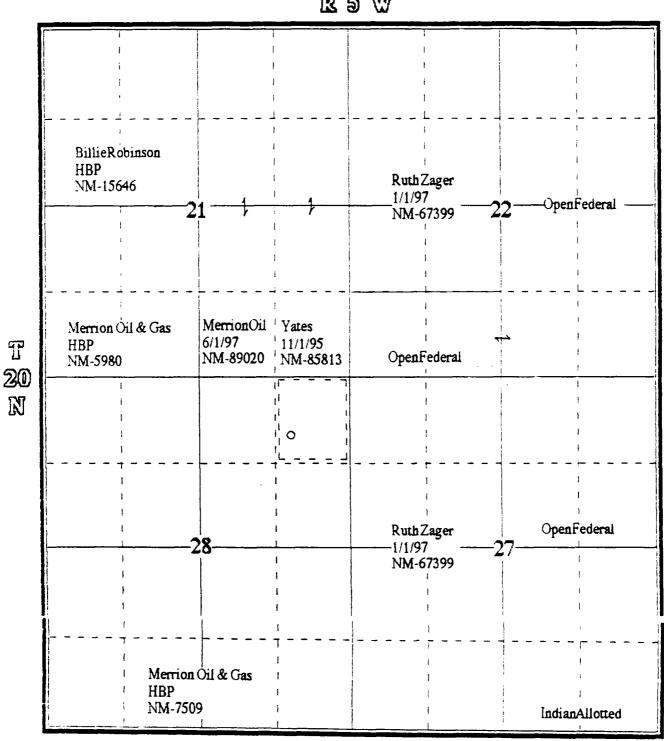
Date

Steven S. Dunn, Operations Manager

High Hopes #1 1220' FNL & 1300' FEL ENTRADA FORMATION McKinley County, New Mexico

6/9/93

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