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OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

MAR 23 1976

O.C.C.

ARTESIA OFFICE

30-015-21777

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE ☒	FEE ☐
5. State Oil & Gas Lease No.	
K-6600	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
DRILL ☒ DEEPEN ☐ PLUG BACK ☐		Nash Unit	
b. Type of Well		8. Farm or Lease Name	
OIL WELL ☒ GAS WELL ☐ OTHER ☐		Nash Unit	
2. Name of Operator		9. Well No.	
Mesa Petroleum Co.		4	
3. Address of Operator		10. Field and Pool, or Wildcat	
904 Gihls Tower West, Midland, TX 79701		Wildcat	
4. Location of Well		12. County	
UNIT LETTER <u>A</u> LOCATED <u>990</u> FEET FROM THE <u>north</u> LINE		Eddy	
AND <u>330</u> FEET FROM THE <u>east</u> LINE OF SEC. <u>13</u> TWP. <u>23S</u> RGE. <u>29E</u> NMPM			
19. Proposed Depth		19A. Formation	
5100'		Cherry Canyon	
20. Rotary or C.T.		Rotary	
21. Elevations (Show whether DT, KI, etc.)		22. Approx. Date Work will start	
3002 GR		Upon approval	
21A. Kind & Status Plug. Bond		21B. Drilling Contractor	
Blanket		To be determined	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2	13-3/8	48	300	350	Circ
11	8-5/8	24 & 32	3,300	900	Circ
7-7/8	5-1/2	14	5,100	200	4,000'

Propose to drill to 5100' with rotary tools. BOP's will not be used to drill 17 1/2" hole to 300'. After the 13-3/8" casing is run, cemented and bradenhead installed, 12" API 3000 psi WP BOP's (1 pipe, 1 blind, 1 annular bag type) will be utilized to total depth. Cement will be circulated to the surface on 13-3/8" and 8-5/8" casing strings in order to comply with Rule 111-A. Brine water will be used to drill the entire well with special attention given to maintaining brine at/or near saturated state while drilling the 12-1/4" hole to 3300'. See attached plan of development for details.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 7-6-76

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRO-
TIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Michael P. Houston Title Division Engineer Date Feb 23, 1976

(This space for State Use)

APPROVED BY W. A. Grasset TITLE SUPERVISOR, DISTRICT II DATE APR - 6 1976

CONDITIONS OF APPROVAL, IF ANY:

Cement must be circulated to

NO. 1 MFC 1 LMC 1 TIE 1 TWH 1 DHM 10-Partners 5-NMOC behind 13 3/8" & 8 7/8" casing

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator MESA PETROLEUM CO.			Lease Nash Unit		RECEIVED 4
Unit Letter A	Section 13	Township 23 South	Range 29 East	County Eddy FEB 18 1976	
Actual Footage Location of Well: 990 feet from the north line and 330 feet from the east line MESA - PDC					
Ground Level Elev. 3002.3	Producing Formation Cherry Canyon	Pool Wildcat	Dedicated Acreage 40 NE/4 NE/4 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

RECEIVED

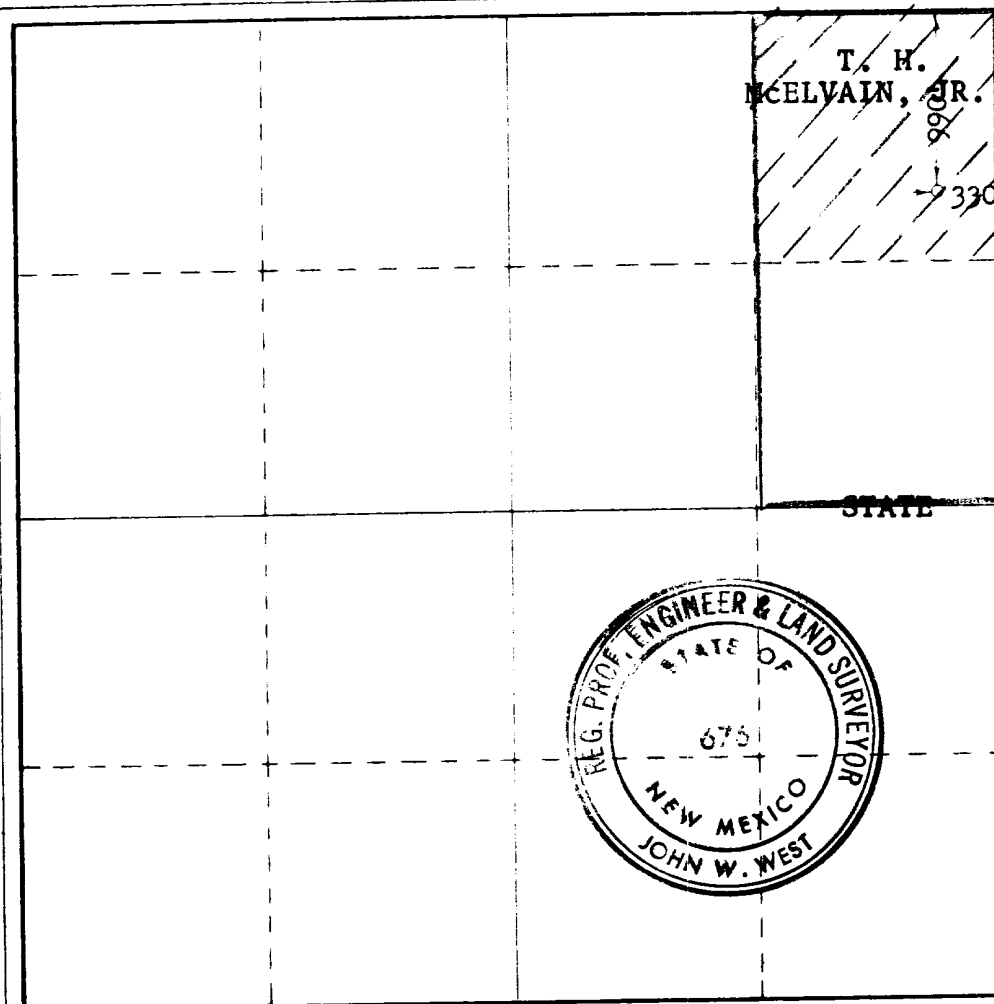
MAR 23 1976

☐ Yes ☐ No If answer is "yes," type of consolidation _____

**O. C. C.
ARTESIA, OFFICE**

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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 interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Michael P. Houston*

Michael P. Houston

Division Engineer

Mesa Petroleum Co.

February 20, 1976

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 knowledge and belief.

Date Surveyed

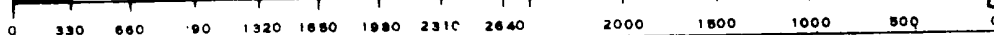
Feb. 15, 1975

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No.

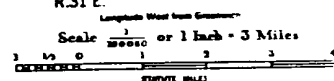
676

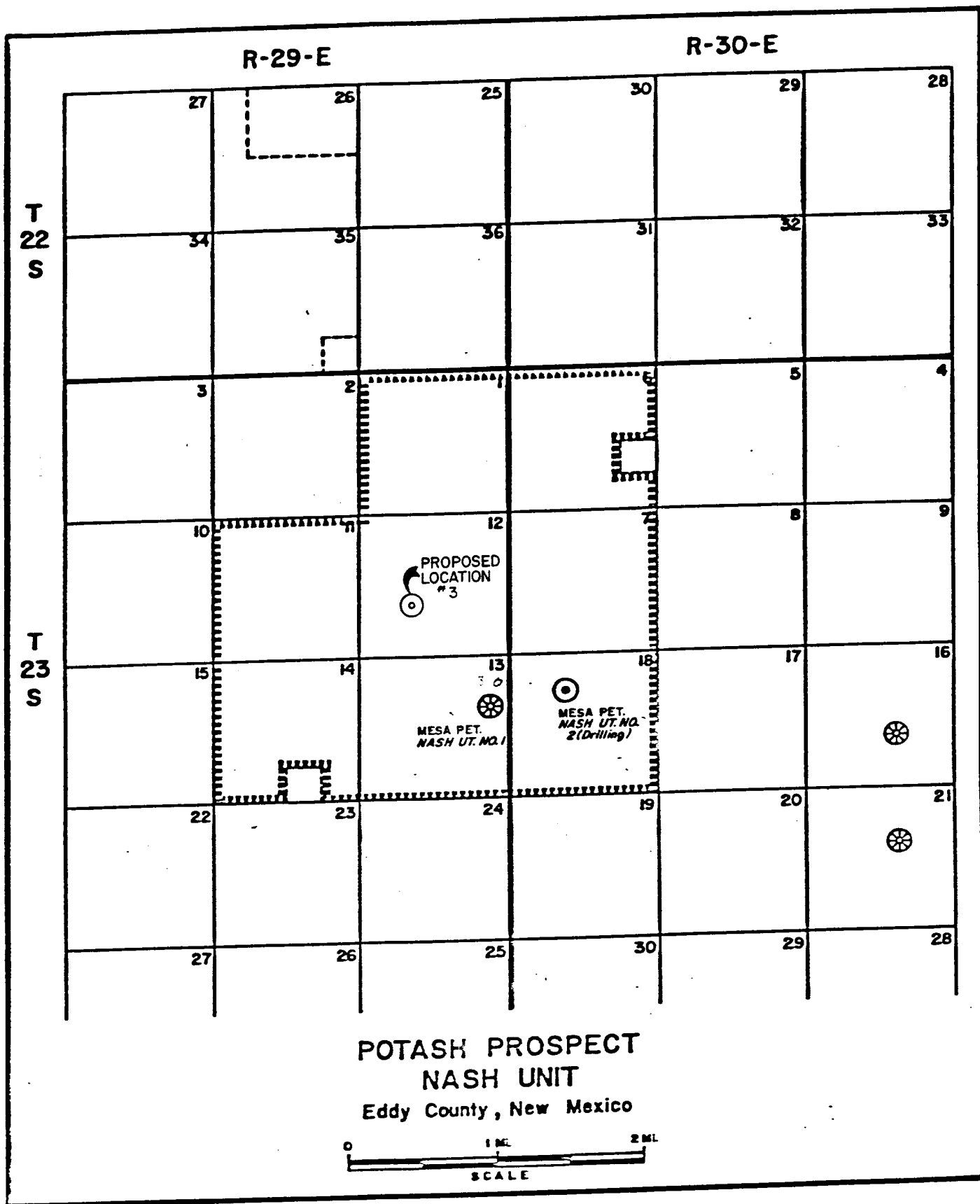


DEVELOPMENT PLAN

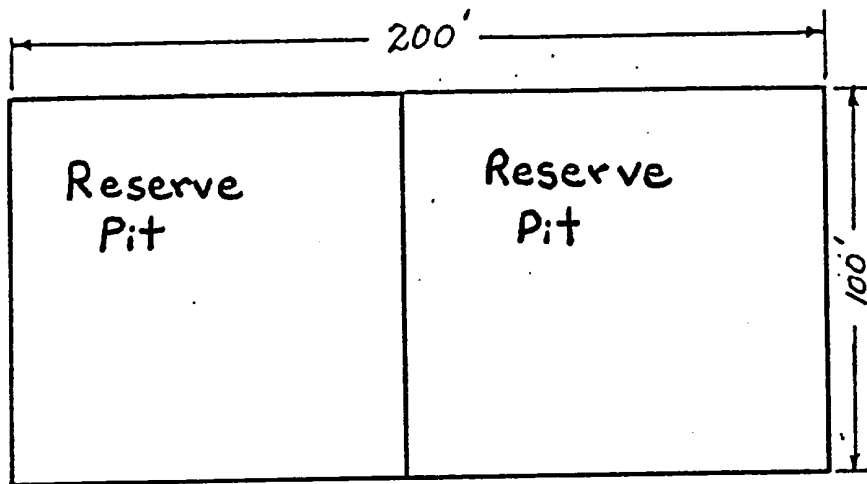
Mesa Petroleum Co.
Nash Unit #4
990' FNL & 330' FEL
Sec 13, T23S, R29E
Eddy County, New Mexico

1. Attached plant depicts existing road network. Access road between existing road and location will be approximately 100 yards.
2. There are no producing Cherry Canyon wells within one mile of the proposed location.
3. Battery facilities will be located at the well site.
4. Both brine and fresh water for drilling well will be obtained from nearest commercial source.
5. Earthen pits will be provided for containing drill cuttings and waste drilling fluid. These pits will be plastic lined. Pits will be backfilled and leveled after sufficient drying. Trash and garbage will be contained in a separate earthen pit and burned as practical, then later backfilled.
6. Approximately 1-3/4 acres will be required for the rig and pit location. The terrain at the well location is rolling with sparse native grass and scrub greasewood. Any top soil removed will be stockpiled for future use in restoring the disturbed area to original grade and contour. The disturbed area will be reseeded with appropriate grasses after completion.
7. Surface casing program: 13-3/8" OD 48# H-40 new casing will be set on bottom at approximately 300'. Cement will be circulated to the surface. A 12" - API 3000 psi WP bradenhead will be welded to the surface casing and 12" - API 3000 psi WP BOP's will be employed while drilling to approximately 3300'. BOP's will consist of 1 set of pipe rams, 1 set of blind rams, and Hydril.
8. Intermediate casing program: 8-5/8" OD 24# K-55 new casing will be set at approximately 3300'. Cement will be circulated to the surface. A 12" API 3000 psi WP BOP will again be used to drill to total depth. BOP's and choke and kill lines will be tested to working pressure prior to drilling out 8-5/8" casing shoe.
9. Production casing: 5 1/2" OD 14# K-55 casing will be set at 5100'.
10. The drilling rig will be equipped with safety devices such as kelly cock, drill pipe float, full opening stabbing valve, inside drill pipe BOP, etc. Operational tests will be run weekly and results noted on tour sheets.
11. Maximum anticipated bottom hole pressure is 2400 psi in the Cherry Canyon at approximately 4800' based on the offset wells. Drilling fluid of 9.8 PPG will be required to hydrostatically balance this formation pressure.
13. Brine and polymer brine gel mud will be used to drill to 5100'. Mud weight will probably not exceed 9.8 PPG.





N



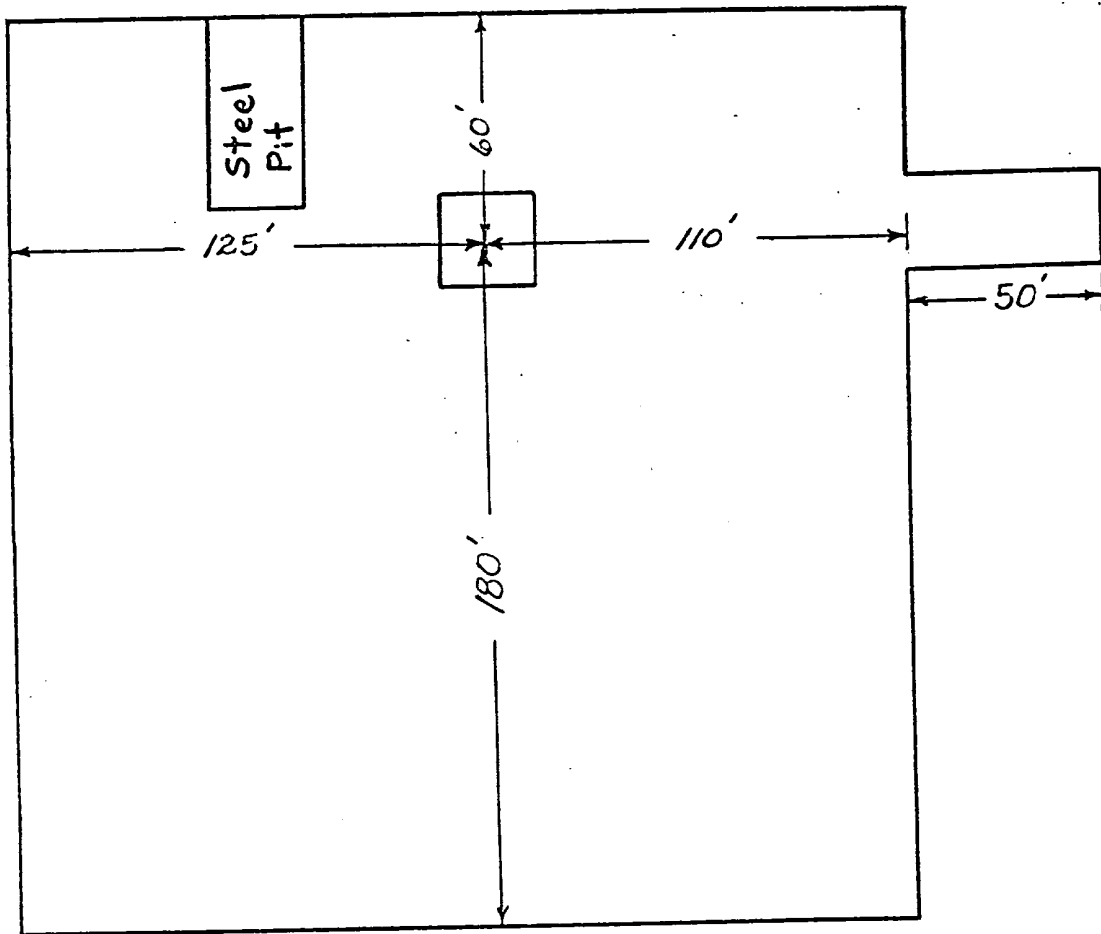
Burn Pit



Steel Pit

Steel Pit

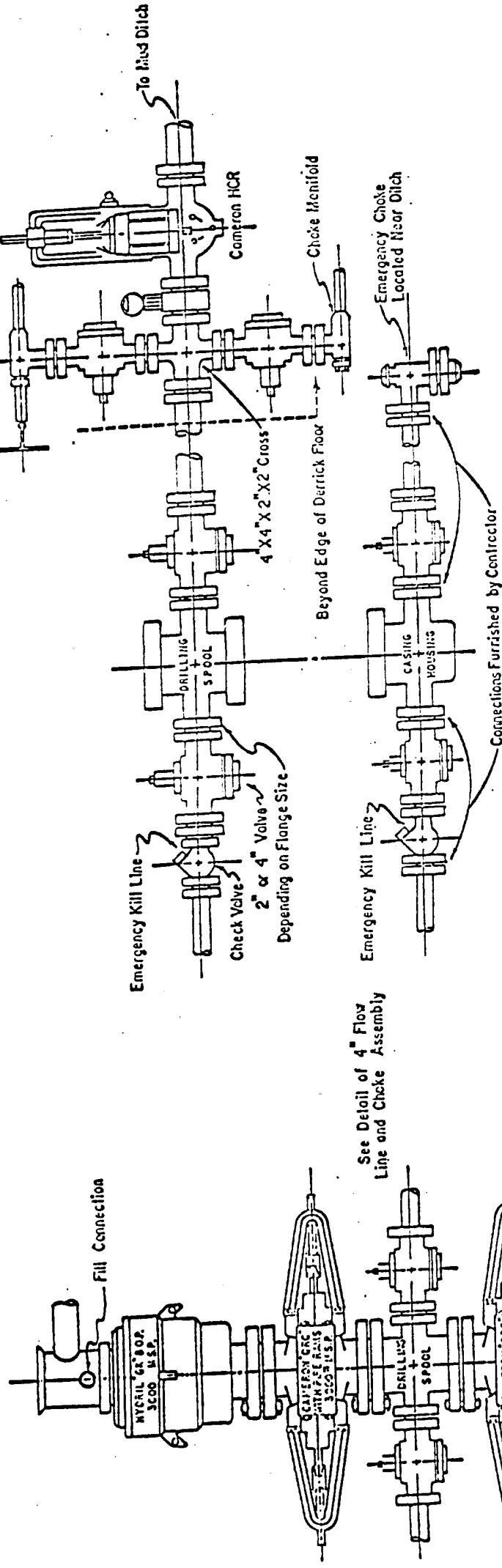
W



E

S

Blow-out-preventers hydril and choke manifold all 1500 Series.



5,000 PSI WORKING PRESSURE
KILL, CHOKE, AND FILL CONNECTIONS

API Series 1500 Flanges or Better
DETAIL OF 4" FLOW LINE CHOKE ASSEMBLY

Minimum assembly for 5,000 PSI working pressure will consist of three preventers.
The bottom and middle preventers may be Cameron.

5,000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP

Series 1500 Flanges or Better



March 30, 1976

RECEIVED

MAR 31 1976

J. C. C.
ARTESIA. OFFICE

New Mexico Oil Conservation Commission
Drawer DD
Artesia, New Mexico 88210

Attention: W. A. Gressett, Supervisor

Re: #4 Nash Unit, 5100' Cherry Canyon Test
990' FNL & 330' FEL
Section 12-23S-29E
Eddy County, New Mexico
Mesa OP 10-553-4

Gentlemen:

Furnished herewith for completion of your file are photocopies showing evidence of our mailing and addressee's receipt of notification concerning the captioned well. In compliance with NMOCC Order No. R-111, complete copies of our application for permit to drill data were furnished to each of the operators holding potash leases within a radius of one mile of the captioned well.

Very truly yours,

A handwritten signature in cursive script, reading 'Robert H. Northington', written over a horizontal line.
Robert H. Northington

RHN:hh

Enclosures

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

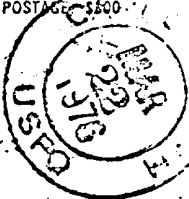
SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, and 3 on reverse side.
• Moisten gummed ends and attach to back of article.

RETURN
TO

Robert H. Northington
Mesa Petroleum Co.
904 Gihls Tower West
Midland, Texas 79701

PENALTY FOR PRIVATE
USE TO AVOID PAYMENT
OF POSTAGE \$300



RECEIVED

MAR 24 1976

MESA - REG

No.

655860

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO	International Minerals and Chemical Corp.	POSTMARK OR DATE	3-19-76
STREET AND NO.	P. O. Box 71		
P.O., STATE AND ZIP CODE	Carlsbad, New Mexico 88220		
RETURN RECEIPT	1. Shows to whom and date delivered	15¢	
SERVICES	2. Shows to whom, date and where delivered	35¢	
RESTRICTED DELIVERY	With restricted delivery	85¢	
SPECIAL DELIVERY (extra fee required)		50¢	

PS Form 3800 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL
Aug. 1975 3800 (See other side)
★ GPO : 1975-O-591-452

PS Form 3811, Jan. 1975

1. The following service is requested (check one).
☒ Show to whom and date delivered..... 15¢
☐ Show to whom, date, & address of delivery.. 35¢
☐ RESTRICTED DELIVERY..... 65¢
☐ Show to whom and date delivered..... 65¢
☐ RESTRICTED DELIVERY..... 85¢
☐ Show to whom, date, and address of delivery 85¢

2. ARTICLE ADDRESSED TO:
International Minerals and Chemical Corporation
P. O. Box 71
Carlsbad, New Mexico 88220

3. ARTICLE DESCRIPTION:
REGISTERED NO. 655860 INSURED NO. 655860
(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY MAR 22 1976
5. ADDRESS (Complete only if restricted delivery requested)
CARLSBAD, N.M.

6. UNABLE TO DELIVER BECAUSE:
CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

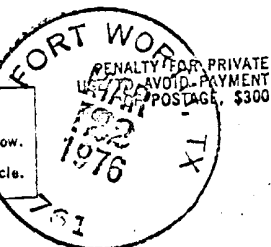
UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, and 3 on reverse side.
• Moisten gummed ends and attach to back of article.

RETURN
TO

Robert H. Northington
Mesa Petroleum Co.
904 Gihls Tower West
Midland, Texas 79701



RECEIVED

MAR 24 1976

MESA - REG

No.

655861

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO	Leland A. Hodges, Trustee	POSTMARK OR DATE	3-19-76
STREET AND NO.	200 Throckmorton Street		
P.O., STATE AND ZIP CODE	Fort Worth, Texas 76102		
RETURN RECEIPT	1. Shows to whom and date delivered	15¢	
SERVICES	2. Shows to whom, date and where delivered	35¢	
RESTRICTED DELIVERY	With restricted delivery	85¢	
SPECIAL DELIVERY (extra fee required)		50¢	

PS Form 3800 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL
Aug. 1975 3800 (See other side)
★ GPO : 1975-O-591-452

PS Form 3811, Jan. 1975

1. The following service is requested (check one).
☒ Show to whom and date delivered..... 15¢
☐ Show to whom, date, & address of delivery.. 35¢
☐ RESTRICTED DELIVERY..... 65¢
☐ Show to whom and date delivered..... 65¢
☐ RESTRICTED DELIVERY..... 85¢
☐ Show to whom, date, and address of delivery 85¢

2. ARTICLE ADDRESSED TO:
Leland A. Hodges, Trustee
200 Throckmorton Street
Fort Worth, Texas 76102

3. ARTICLE DESCRIPTION:
REGISTERED NO. 655861 INSURED NO. 655861
(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY MAR 22 1976
5. ADDRESS (Complete only if restricted delivery requested)
FORT WORTH, TX

6. UNABLE TO DELIVER BECAUSE:
CLERK'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL



EXPENSES FOR PRIVATE
USE TO BE PAID BY
MAILER OF POSTAGE, \$3.00
MAR 2 1976
ARTEZIA, N.M.

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, and 3 on reverse side.
• Moisten gummed ends and attach to back of article.

RETURN
TO

RECEIVED
MAR 24 1976
MESA-PBO
Robert H. Northington
Mesa Petroleum Co.
904 Gihls Tower West
Midland, Texas 79701

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, and 3 on reverse side.
• Moisten gummed ends and attach to back of article.

RETURN
TO

Robert H. Northington
Mesa Petroleum Co.
904 Gihls Tower West
Midland, Texas 79701

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.
• Complete items 1, 2, and 3 on reverse side.
• Moisten gummed ends and attach to back of article.

RETURN
TO

Robert H. Northington
Mesa Petroleum Co.
904 Gihls Tower West
Midland, Texas 79701

78 Form 3811, Jan. 1975

● SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one).
☒ Show to whom and date delivered 15¢
☐ Show to whom, date, & address of delivery 35¢
☐ RESTRICTED DELIVERY. Show to whom and date delivered 65¢
☐ RESTRICTED DELIVERY. Show to whom, date, and address of delivery 85¢

2. ARTICLE ADDRESSED TO: W.A. Gressett
New Mexico Oil Conservation Comm.
Drawer DD
Artesia, New Mexico 88210

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
655859

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY 3/23/76

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK: MAR 23 1976
CLERK'S INITIALS: NNU

☆ GPO : 1975-O-568-047

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

2. ARTICLE ADDRESSED TO:
Leland A. Hodges, Trustee
200 Throckmorton Street
Fort Worth, Texas 76102

3. ARTICLE DESCRIPTION:
REGISTERED NO. CERTIFIED NO. INSURED NO.
655861

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY MAR 22 1976

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK: MAR 22 1976
CLERK'S INITIALS: NNU

☆ GPO : 1975-O-568-047

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

REGISTERED NO. CERTIFIED NO. INSURED NO.
655860

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent

4. DATE OF DELIVERY MAR 22 1976

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE:

POSTMARK: MAR 22 1976
CLERK'S INITIALS: NNU

☆ GPO : 1975-O-568-047

10. 655859

RECEIPT FOR CERTIFIED MAIL—30¢ (plus postage)

SENT TO W. A. Gressett
New Mexico Oil Conservation Comm.
Drawer DD
Artesia, New Mexico 88210

POSTMARK OR DATE: 3-19-76

OPTIONAL SERVICES FOR ADDITIONAL FEES
1. Shows to whom and date delivered 15¢
With restricted delivery 65¢
2. Shows to whom, date and where delivered 35¢
With restricted delivery 85¢
SPECIAL DELIVERY (extra fee required) 50¢

SENT TO A. Hodges, Trustee
200 Throckmorton Street
Fort Worth, Texas 76102

POSTMARK OR DATE: 3-19-76

OPTIONAL SERVICES FOR ADDITIONAL FEES
1. Shows to whom and date delivered 15¢
With restricted delivery 65¢
2. Shows to whom, date and where delivered 35¢
With restricted delivery 85¢
SPECIAL DELIVERY (extra fee required) 50¢

SENT TO International Minerals and Chemical Corp.
Box 71
bad, New Mexico 88220

POSTMARK OR DATE: 3-19-76

OPTIONAL SERVICES FOR ADDITIONAL FEES
1. Shows to whom and date delivered 15¢
With restricted delivery 65¢
2. Shows to whom, date and where delivered 35¢
With restricted delivery 85¢
SPECIAL DELIVERY (extra fee required) 50¢

Mass Petroleum Co.

900 Lakes Lane West

Middlesex 19000

1700 1st Ave. Houston

Re: Wash Unit

#4 - P. 12-22-29

Eddy County, New Mexico

Further

The enclosed form is for reporting setting and cementing surface and intermediate casing in the subject well is marked for Record only.

The WOC time is not in accordance with Order R-111-A which states that the minimum WOC time be 24 hours.

All wells drilled in the patch area must be drilled in strict compliance with Order R-111-A.

If you have any questions concerning this or other matters feel free to call upon me.

REGISTERED MAIL
RETURN RECEIPT



March 19, 1976

RECEIVED

MAR 23 1976

O. C. C.
ARTESIA, OFFICE

New Mexico Oil Conservation Commission
Drawer DD
Artesia, New Mexico 88210

Attention: W. A. Gressett, Supervisor

Re: #4 Nash Unit, 5100' Cherry Canyon Test
990' FNL & 330' FEL
Section 13-23S-29E
Eddy County, New Mexico
Mesa OP 10-553-4

Gentlemen:

Mesa Petroleum Co., as operator of the Nash Unit, hereby applies for a permit to drill the captioned well. Ten copies each of N.M.O.C.C. Form C-101 and Form C-102 are enclosed for your consideration and distribution. In compliance with N.M.O.C.C. order #R-111 we have this date mailed (registered mail, return receipt) copies of these forms to each of the operators who hold potash leases within a radius of one mile of the captioned well. According to information reflected by plats furnished under Article IX, Paragraph (3) of order #R-111 and information obtained from State and Federal records in Santa Fe, the only potash operators within one mile of the captioned location are Leland A. Hodges, Trustee and International Minerals and Chemical Corporation.

The #4 Nash Unit will be the fourth test well drilled on the State and Federal Approved Nash Unit Area (14-08-0001-14168). We respectfully request your prompt and favorable consideration of the enclosed application, and if additional information in this regard is required please advise.

Very truly yours,

Robert H. Northington

RHN:hh

Enclosures

Copies: Leland A. Hodges, Trustee
International Minerals and Chemical Corporation
Supervisor, U.S.G.S., Roswell
Commissioner of Public Lands
Nash Unit Partners