

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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BLM

67 JUL 23 PM 2:50

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NMNM 029144

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Federal No. 21

9. API Well No.

30-045-24183

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan, NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

CONOCO INC.

3. Address and Telephone No.

10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4. Location of Well (Footage, Sec., T. R. M. or Survey Description)

315' FNL & 720' FWL
Sec. 9, T-27N, R-8W

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☒ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completions, Completion or Recompletion Report and Log)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is proposed to recomplete this well to the Basin Fruitland Coal Pool and then to downhole commingle with the Chacra as follows:

1. Set RBP @ 2895 over the Chacra completion.
2. Perforate Fruitland coal at 2788'-2804' and 2834'-2868' w/27 holes (1 shot every other foot).
3. Slickwater fracture perforations.
4. Pending approval to downhole commingle, retrieve RBP @ 2895' and commingle with the Chacra

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JUL - 3 1997

Non-standard drilling location approved by Administrative Order NSL-1141

OIL CON. DIST. 3

Since this will be the first Fruitland Coal completion in the W/2 of Sec. 9, an application requesting an unorthodox producing location (i.e. not a NE/4 or SW/4 location) for the Fruitland Coal has been filed with the OCD

14. I hereby certify that the foregoing is true and correct

Signed Jerry W. Hoover

Jerry W. Hoover

Title Sr. Conservation Coordinator

Date 6/19/97

(This space for Federal or State office use)

Approved by /s/ Duane W. Spencer

Title

Date 11 - 1 - 97

Conditions of approval if any:

Title 18 U.S.C. Section 1001, makes 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.

District IV
PO Box 2088, Santa Fe. NM 87504-2088

PO Box 2088
Santa Fe, NM 87504-2088

070 FARMINGTON, NM

Hold = -104 for
DD + NSL @ Form C

Form C-102

Revised February 21, 1994

instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

API Number 30-045-24183		2 Pool Code 71629		3 Pool Name Basin Fruitland Coal	
4 Property Code 003170		5 Property Name Federal			6 Well Number 21
7 OGRID No. 005073		8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			9 Elevation 6727' GR

UL orig no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	27N	8W		315	North	720	West	San Juan

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres W/320	13 Joint or Infill	14 Consolidation Code	15 Order No. Administrative Order NSL-1141
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Administrative Order NSL-1141

**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

315'

720'

RECEIVED

JUL 9 1937

OIL CON. DIV.

DIST. 3

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

John Moore

Signature

Jerry W. Hoover

Printed Name _____

Sr. Conservation Coordinator

Title

6/19/97

Date _____

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.

Date of Survey

Signature and Seal of Professional Surveyor.

Certificate Number

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OIL CONSERVATION DIVISION

RECEIVED

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

91 JUN 26 AM 10 22

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Conoco Inc.	Well API No. 30-045-24183
Address 3817 N.W. Expressway, Oklahoma City, OK 73112	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of: Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Recompletion <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>
Change in Operator <input checked="" type="checkbox"/>	Effective Date: 7-1-91
If change of operator give name and address of previous operator Mesa Operating Limited Partnership, P.O. Box 2009, Amarillo, Texas 79189	

II. DESCRIPTION OF WELL AND LEASE

Lease Name Federal	Well No. 31	Pool Name, including Formation Otero Chacara	Kind of Lease State, Federal or Fee (State)	Lease No. NM 029144
Location Unit Letter D : 315 Feet From The north Line and 720 Feet From The west Line Section 9 Township 27N Range 8W , NMPM, San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> Giant Refining, Inc.	Address (Give address to which approved copy of this form is to be sent) Box 338, Bloomfield, New Mexico 87413	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> El Paso Natural Gas	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1492, El Paso, Texas 79999	
If well produces oil or liquids, give location of tanks.	Unit D	Sec. 9
	Twp. 27N	Rge. 8W
	Is gas actually connected? yes	
	When ?	

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET			SACKS CEMENT		

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/M/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

W.W. Baker
Signature
W.W. Baker Administrative Supr.
Printed Name
5-1-91 Title
Date
(405) 948-3120 Telephone No.

OIL CONSERVATION DIVISION
MAY 03 1991

Date Approved
By **Barry D. Shum**
Title
SUPERVISOR DISTRICT #3

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

Operator MESA OPERATING LIMITED PARTNERSHIP	Well API No. 30-045-24183
Address P.O. BOX 2009, AMARILLO, TEXAS 79189	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input checked="" type="checkbox"/>
Effective Date: 7/01/90	

If change of operator give name
and address of previous operator

II. DESCRIPTION OF WELL AND LEASE

Lease Name FEDERAL	Well No. 21	Pool Name, Including Formation OTERO CHACRA	Kind of Lease State, Federal or Fee	Lease No. NM 029144
Location				
Unit Letter <u>D</u> : <u>315</u> Feet From The <u>north</u> Line and <u>720</u> Feet From The <u>west</u> Line				
Section <u>9</u> Township <u>27N</u> Range <u>8W</u> , NMPM, San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> GIANT REFINING CO.	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 12999, SCOTTSDALE, AZ 85267	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> EL PASO NATURAL GAS CO.	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 1492, EL PASO, TEXAS 79998	
If well produces oil or liquids, give location of tanks.	Unit D	Sec. 9
	Twp. 27	Rge. 8
	Is gas actually connected? Yes	When ?

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation
Division have been complied with and that the information given above
is true and complete to the best of my knowledge and belief.

Carolyn L. McKee
Signature
Carolyn L. McKee, Regulatory Analyst
Printed Name
7/1/90
Date
(806) 378-1000
Telephone No.

OIL CONSERVATION DIVISION

JUL 16 1990

Date Approved

By

SUPERVISOR DISTRICT #3

Title

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.

or other such changes.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.A.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
REGISTRATION OFFICE	

MAR 19 1986
OIL CONSERVATION DIVISION
SANTA FE
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 06-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Mesa Operating Limited Partnership	
Address P.O. Box 2009, Amarillo, Texas 79189	
Reason(s) for filing (Check proper box)	Other (Please explain)
<input type="checkbox"/> New Well <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Change in Ownership	Change in Transporter of: <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> casinghead Gas <input type="checkbox"/> Condensate

If change of ownership give name and address of previous owner: Mesa Petroleum Co., P.O. Box 2009, Amarillo, Texas 79189

II. DESCRIPTION OF WELL AND LEASE

Lease Name Federal	Well No. 21	Pool Name, including Formation Largo Chacra	Kind of Lease State, Federal or Fee Federal	Lease No. NM029144
Location Unit Letter <u>D</u> : <u>315</u> Feet From The <u>north</u> Line and <u>720</u> Feet From The <u>west</u> Line of Section <u>9</u> Township <u>27N</u> Range <u>8W</u> , NMPM, San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Permian Corporation	P.O. Box 1183/Houston, Texas 77001
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Co.	P.O. Box 1492/El Paso, Texas 79998
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	D 9 27 8 Yes

If this production is commingled with that from any other lease or pool, give commingling order number:

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Carolyn L. Cummings
(Signature)
Carolyn L. Cummings/Regulatory Clerk

February 14, 1986
(Date)

OIL CONSERVATION DIVISION

APPROVED Frank J. [Signature]
BY [Signature]
TITLE SUPERVISOR, DISTRICT 22

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Mesa Petroleum Co.

3. ADDRESS OF OPERATOR
P.O. Box 579 Flora Vista, N.M. 87415

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 315/N;720/W
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Reseeded ☒

SUBSEQUENT REPORT OF:

☐
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RECEIVED

OCT 14 1982

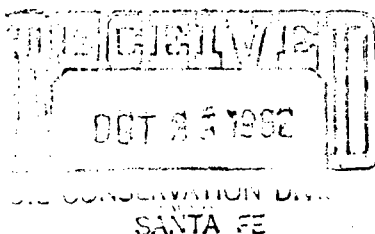
(NOTE: Report results of multiple completion or zone change on Form 9-330.)

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6727 GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Reseeded Pipeline right-of-way and location.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Charlie James TITLE Drilg.&Prod. Foreman DATE 9-30-82

(This space for Federal or State office use)

APPROVED BY RECEIVED FOR RECORD TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

OCT 17 1982

FARMINGTON DISTRICT
BY SPR

*See Instructions on Reverse Side

NMOCC

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR
Mesa Petroleum Co. ✓

3. ADDRESS OF OPERATOR
1660 Lincoln St., #2800 Denver CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 315' FNL & 720' FWL ✓
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) Name ChangeX

SUBSEQUENT REPORT OF:

☐
☐
☐
☐
☐
☐
☒
☐

U. S. GEOLOGICAL SURVEY (NOTE: Report results of multiple completion or zone change on Form 9-330.)

5. LEASE
NM 029144 ✓
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal ✓
9. WELL NO.
DGE ✓ 21
10. FIELD OR WILDCAT NAME
Undesignated Chacra
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9-T27N-R8W ✓
12. COUNTY OR PARISH
San Juan
13. STATE
New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6727' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was originally approved as a Basin Dakota gas well. However, once the well was cased and tested, the Dakota was found to be nonproductive. Therefore the Dakota perforations were squeezed with 150 sacks Neat cement, and the well was reperforated in the Chacra formation to test for productivity. The Chacra was tested and found to be economically productive, therefore the well was completed as a Chacra gas well. This necessitates changing the well name from the Federal 16E to the Federal #21.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John H. Benton TITLE Drlg. Engineer DATE August 24, 1981

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

ACCEPTED FOR RECORD

FARMINGTON COPY

*See Instructions on Reverse Side

AUG 31 1981
BY Gian Elliott

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

USGS - 4
State - 1
Form Approved
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other

2. NAME OF OPERATOR

Mesa Petroleum Co. ✓

3. ADDRESS OF OPERATOR

1660 Lincoln Street, Denver, CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 315' FNL & 720' FWL ✓

AT TOP PROD. INTERVAL: Same

AT TOTAL DEPTH: Same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

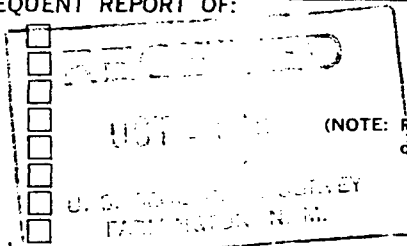
MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Correct date TD reached

SUBSEQUENT REPORT OF:



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

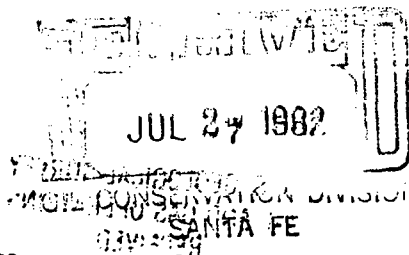
Correct date TD was reached is 4/3/81.

ACCEPTED FOR RECORD

SEP 28 1981

GRAND JUNCTION DISTRICT

BY [Signature]



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Div. Prod. Supvr. DATE 9/23/81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

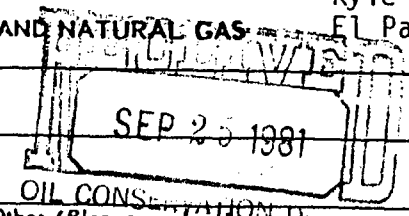
95

Chacra Flat
OIL CONSERVATION DIVISION
P. O. BOX 2080
SANTA FE, NEW MEXICO 87501

U.S. DEPARTMENT OF THE INTERIOR	
BUREAU OF LAND MANAGEMENT	
SANTA FE	
FILE	
U.S.U.B.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PADRATON OFFICE	
Operator	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

xc: USCG (5)
State (5)
T. L. Slife
Sharon Cavanaugh
Randy Nordsven
Kyle Stanley
El Paso Nat. Gas



Mesa Petroleum Company
Address
1660 Lincoln Street, #2800, Denver, CO 80264

Reason(s) for filing (Check proper box)

New Well	<input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>
		Dry Gas	<input type="checkbox"/>
		Condensate	<input type="checkbox"/>

Other (Please explain)
#16E Add

If change of ownership give name and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name Federal	Well No. 21	Pool name including Formation Undesignated Chacra	Kind of Lease State, Federal or Fee	Lease No. Federal NM 029144
Location Unit Letter D : 315 Feet From The North Line and 720 Feet From The West Line of Section 9 Township 27N Range 8W NMPM San Juan County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> Permian Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 1183, Houston Texas 77001					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/> El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 990, Farmington, N.M. 87401					
If well produces oil or liquids, give location of tanks.	Unit D	Sec. 9	Twp. 27N	Rge. 8W	Is gas actually connected? NO	When ASAP

If this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Re
		X	X					
Date Spudded 3/19/81	Date Compl. Ready to Prod. 8/03/81	Total Depth 7485'	P.B.T.D. 7014'					
Elevations (D) V, RT, GR, etc.) 6727' GR	Name of Producing Formation Chacra	Top Oil/Gas Pay 3864'	Tubing Depth 3808'					
Perforations			Depth Casing Shoe 7445'					

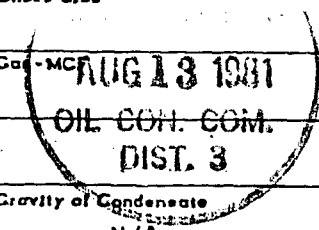
TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4"	8 5/8" - 24#	464'	265 sxs Class "B"
7 7/8"	5 1/2" - 15.5 & 17#	7445'	293 sxs 50/50 poz.
			300 sxs 65/35 poz
2 1/16"	2.25#	3808'	150 sxs 50/50 poz

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top of well for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF



GAS WELL

Actual Prod. Test - MCF/D 395	Length of Test 3 hours	Bbls. Condensate/MMCF None	Gravity of Condensate N/A
Testing Method (pilot, back pr.) Black Press	Tubing Pressure (Shut-in) 700 psig	Casing Pressure (Shut-in) 700 psig	Choke Size .750

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Robert A. Linton
(Signature)
Division Productions Supervisor
(Title)
August 3, 1981
(Date)

OIL CONSERVATION DIVISION
9-8-81
SEP 8 - 1981

APPROVED
BY *Frank T. Chay*
TITLE SUPERVISOR DISTRICT # 3

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the dev tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for use on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of circumstances.
Separate Forms C-104 must be filed for each pool in incompleated wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR

Mesa Petroleum Co.

3. ADDRESS OF OPERATOR

1660 Lincoln St., #2800 Denver CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 315' FNL & 720' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: same

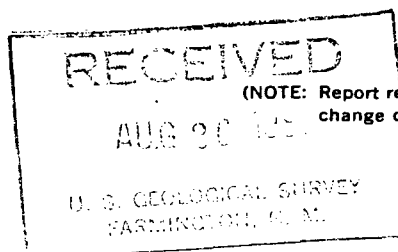
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

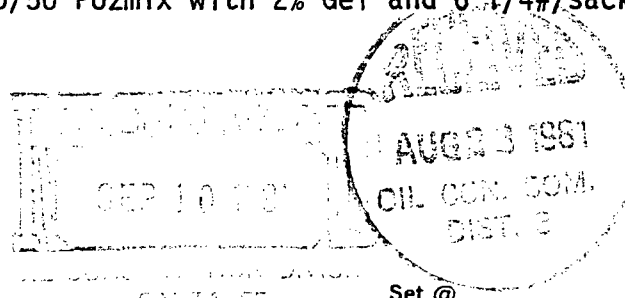
(other) Production Casing Report ☒



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 7 7/8" hole to total depth of 7485'. Ran 180 joints of new 5 1/2" 15.5#/ft. and 17#/ft STC production casing and set at 7445' KB. Cemented 1st stage with 20 bbls. flush, 293 sacks 50/50 Pozmix with 2% Gel. Cemented 2nd stage with 20 bbls. flush, 300 sacks 65/35 Pozmix with 6% Gel and 6 1/4#/sack gilsonite. Tailed in with 150 sacks 50/50 Pozmix with 2% Gel and 6 1/4#/sack gilsonite. Good circulation.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Randy Nordman TITLE Regulatory Coord. DATE August 24, 1981

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____ DATE _____

*See Instructions on Reverse Side

NMOCC

BY smn

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 029144																			
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESER. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																			
2. NAME OF OPERATOR Mesa Petroleum Co.		7. UNIT AGREEMENT NAME																			
3. ADDRESS OF OPERATOR 1660 Lincoln St., #2800, Denver, CO 80264		8. FARM OR LEASE NAME Federal																			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 315' FNL - 720' FWL At top prod. interval reported below same At total depth same		9. WELL NO. #16E-31																			
10. FIELD AND POOL, OR WILDCAT Undesignated Chacra		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 9 - T27N - R8W																			
14. PERMIT NO. 1		DATE ISSUED 3/31/81																			
12. COUNTY OR PARISH San Juan		13. STATE New Mexico																			
15. DATE SPURRED 3/19/81		16. DATE T.D. REACHED 4/04/81																			
17. DATE COMPL. (Ready to prod.) 8-03-81		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6727' GR																			
19. ELEV. CASINGHEAD 6727' GR		20. TOTAL DEPTH, MD & TVD 7485'																			
21. PLUG, BACK T.D., MD & TVD 7014' CIBP		22. IF MULTIPLE COMPL., HOW MANY* N/A																			
23. INTERVALS DRILLED BY ROTARY TOOLS 0-7485'		CABLE TOOLS N/A																			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Chacra - 3864' - 3994'		25. WAS DIRECTIONAL SURVEY MADE No																			
26. TYPE ELECTRIC AND OTHER LOGS RUN CND-CPL-ISFL		27. WAS WELL CORED No																			
28. CASING RECORD (Report all strings set in well)																					
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>8 5/8"</td><td>24#</td><td>464'</td><td>12 1/4"</td><td>265 sxs Class "B"</td><td>-0-</td></tr><tr><td>5 1/2"</td><td>15.5 & 17.0</td><td>7445'</td><td>7 7/8"</td><td>443 sxs 50/50 doz & 300 sxs 65/35 doz</td><td>-0-</td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	8 5/8"	24#	464'	12 1/4"	265 sxs Class "B"	-0-	5 1/2"	15.5 & 17.0	7445'	7 7/8"	443 sxs 50/50 doz & 300 sxs 65/35 doz	-0-
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29. LINER RECORD																					
<table border="1"><thead><tr><th>SIZE</th><th>TOP (MD)</th><th>BOTTOM (MD)</th><th>SACKS CEMENT*</th><th>SCREEN (MD)</th></tr></thead><tbody><tr><td>N/A</td><td></td><td></td><td></td><td></td></tr></tbody></table>				SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	N/A												
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)																	
N/A																					
30. TUBING RECORD																					
<table border="1"><thead><tr><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACKER SET (MD)</th></tr></thead><tbody><tr><td>2 1/16"</td><td>3808'</td><td>None</td></tr></tbody></table>				SIZE	DEPTH SET (MD)	PACKER SET (MD)	2 1/16"	3808'	None												
SIZE	DEPTH SET (MD)	PACKER SET (MD)																			
2 1/16"	3808'	None																			
31. PERFORATION RECORD (Interval, size and number)																					
3864-70', 2988-3994' 30" (14 holes)																					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																					
<table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>3864' - 3994'</td><td>1200 gal 7 1/2% HCL, 10,178 gal KCL w/N₂ (to quality w/30,00# 20-40 sd foam</td></tr></tbody></table>				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	3864' - 3994'	1200 gal 7 1/2% HCL, 10,178 gal KCL w/N ₂ (to quality w/30,00# 20-40 sd foam														
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33. PRODUCTION																					
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<table border="1"><thead><tr><th>DATE OF TEST</th><th>HOURS TESTED</th><th>CHOKE SIZE</th><th>PROD'N. FOR TEST PERIOD</th><th>OIL—BBL.</th><th>GAS—MCF.</th><th>WATER—BBL.</th><th>GAS-OIL RATIO</th></tr></thead><tbody><tr><td>7/30/81</td><td>3</td><td>.750</td><td>→</td><td>-0-</td><td>395</td><td>trace</td><td>--</td></tr></tbody></table>				DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	7/30/81	3	.750	→	-0-	395	trace	--		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO														
7/30/81	3	.750	→	-0-	395	trace	--														
<table border="1"><thead><tr><th>FLOW. TUBING PRESS.</th><th>CASING PRESSURE</th><th>CALCULATED 24-HOUR RATE</th><th>OIL—BBL.</th><th>GAS—MCF.</th><th>WATER—BBL.</th><th>OIL GRAVITY-API (COER.)</th></tr></thead><tbody><tr><td>90 psig</td><td>210 psig</td><td>→</td><td>-0-</td><td>3158</td><td>trace</td><td>N/A</td></tr></tbody></table>				FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COER.)	90 psig	210 psig	→	-0-	3158	trace	N/A				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COER.)															
90 psig	210 psig	→	-0-	3158	trace	N/A															
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented for test purposes only																					
35. LIST OF ATTACHMENTS C-104 w/ Deviation Record, C-122																					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																					
SIGNED <u>[Signature]</u> TITLE <u>Div. Production Supervisor</u> DATE <u>8-03-81</u>																					

*(See Instructions and Spaces for Additional Data on Reverse Side)

xc: USCG, State, T.L. Slife, Sharon Cavanaugh, Randy Nordsven, Kyle Stanley, El Paso Nat. Gas

NMOCC

INSTRUCTIONS

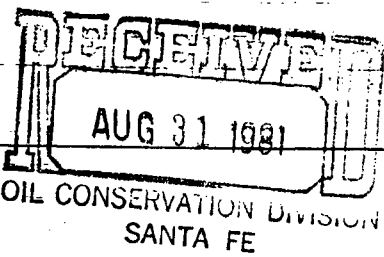
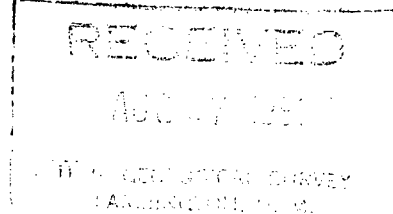
General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	1937					
Kirtland	2120					
Fruitland	2618					
Picture Cliffs	2858					
Lewis	2974					
Cliffhouse	4558					
Menefee	4600					
Pt. Lookout	4315					
Mancos	5397					
Greenhorn	7095					
Graneros	7160					
Dakota	7277					
Morrison	7453					

EL PASO NATURAL GAS COMPANY
POST OFFICE BOX 990
FARMINGTON, NEW MEXICO

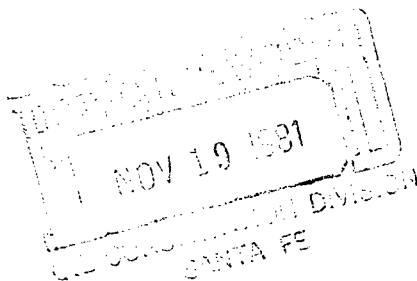
NOTICE OF GAS CONNECTION

DATE November 10, 1981

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR PURCHASE OF

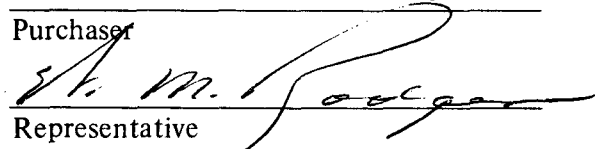
GAS FROM <u>Mesa Petroleum Co,</u>		<u>Federal #21</u>	
Operator		Well Name	
<u>93-935-01</u>	<u>32822-01</u>	<u>D</u>	<u>9-27-8</u>
Meter Code	Site Code	Well Unit	S-T-R
<u>Largo Chacra</u>		<u>El Paso Natural Gas Company</u>	
Pool		Name of Purchaser	
WAS MADE ON <u>November 4, 1981</u>		FIRST DELIVERY <u>November 5, 1981</u>	
Date		Date	
AOF <u>3,158</u>			
CHOKE <u>2,924</u>			

045-
F
PER



El Paso Natural Gas Company

Purchaser


Representative

Chief Dispatcher

Title

cc: Operator Amarillo
Oil Conservation Commission - 2
Proration - El Paso

File

All distances must be from the outer boundaries of the Section.

Operator Mesa Petroleum Co.		Lease Federal		Well No. 21
Unit Letter 315'	Section 9	Township 27N	Range 8W	County San Juan
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line				
Ground Level Elev. 6727	Producing Formation Chacra	Pool Undesignated Chacra	Dedicated Acreage: 160 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?

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

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 Division.

315' - 720' -

RECEIVED
SEP 14 1981
OIL CONSERVATION DIVISION
SANTA FE

CERTIFICATION
SEP 8 - 1981

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

Name
John Benton

Position

Company
Mesa Petroleum Co.

Date
August 24, 1981

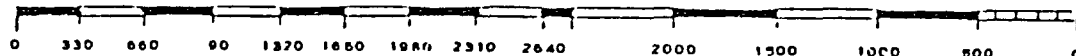
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

November 21, 1979

Date Surveyed
Fred B. Kerr Jr.

Registered Professional Engineer
and/or Land Surveyor

Certificate No.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well gas ☒ well other

2. NAME OF OPERATOR

Mesa Petroleum Co.

3. ADDRESS OF OPERATOR

1660 Lincoln St., #2800 Denver CO 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 315' FNL & 720' FWL

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

(other) Name Change ☒

SUBSEQUENT REPORT OF:

☐

☐

☐

☐

☐

☐

☒

☐

RECEIVED

AUG 26 1981

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

SEP 8 - 1981
OIL CON. COM.
DIST. 3

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well was originally approved as a Basin Dakota gas well. However, once the well was cased and tested, the Dakota was found to be nonproductive. Therefore the Dakota perforations were squeezed with 150 sacks Neat cement, and the well was reperforated in the Chacra formation to test for productivity. The Chacra was tested and found to be economically productive, therefore the well was completed as a Chacra gas well. This necessitates changing the well name from the Federal 16E to the Federal #21.

Subsurface Safety Valve: Manu. and Type

OIL CONSERVATION DIVISION
SANTA FE

Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED John W. Benton

TITLE Drlg. Engineer

DATE August 24, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD

*See Instructions on Reverse Side

AUG 31 1981

NMOCC

FARMINGTON DISTRICT
BY Dean Elliott

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

xc: USCG (5)
 State (5)
 T. L. Slife
 Sharon Cavanaugh
 Randy Nordstrom
 Kyle Stanley
 El Paso Nat. Ga

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 7-30-81		Sharon Cavanaugh Randy Nordstrom Kyle Stanley El Paso Nat. Ga	
Company MESA PETROLEUM CO.		Connection EL PASO NATURAL GAS			
Pool UNDESIGNATED CHACRA		Formation CHACRA		Unit	
Completion Date 7-30-81		Total Depth 7485.		Plug Back TD 7014.	
Elevation 6727.		Form or Lease Name FEDERAL			
Csg. Size 5.500	Wt. 0.	d 0.	Set At 5.	Perforations: From 3864. To 3994.	
Thq. Size 2.063	Wt. 3.2	d 1.751	Set At 3868.	Perforations: From 0. To 0.	
Type Well - Single - Freedomhead - G.G. or G.O. Multiple FLOWING; GAS				Packer Set At 0.	
Producing Thru TUBING		Reservoir Temp. °F 110.0 3929.		Mean Annual Temp. °F 88.0	
Baro. Press. - P _a 12.2		State NEW MEXICO			
L 3929.	H 3929.	G _g 0.700	% CO ₂ 0.	% N ₂ 0.	% H ₂ S 0.
Prover 0.		Meter Run 0.		Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI										
1.	1.75 X 0.750			210.	0.	78.	0.	0.	210.	78.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.74	0.	222.2	0.9831	1.1932	1.0234	2724.
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.33	338.	1.38	0.955	A.P.J. Gravity of Liquid Hydrocarbons	2.
2.					Specific Gravity Separator Gas	0.700
3.					Specific Gravity Flowing Fluid	0.700
4.					Critical Pressure	568. P.S.I.A.
5.					Critical Temperature	370. °R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	47.	222.	47.	455.	
2					
3					
4					
5					

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1001$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3158.$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0001$

Absolute Open Flow	2150	Mcf @ 15.025	Angle of Slope @	52	Slope, n	0.750
Remarks:						
Approved By Commission:		Conducted By:		Calculated By:		Checked By: <i>John W. Barton</i>

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ well ☐ other ☐
 2. NAME OF OPERATOR
MESA PETROLEUM CO.
 3. ADDRESS OF OPERATOR 80264
1660 LINCOLN, 2800 LINCOLN CENTER, DENVER, CO
 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
 AT SURFACE: 315' FNL & 720' FWL
 AT TOP PROD. INTERVAL:
 AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Commence drilling operations, set casing, and test BOP

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above well was spudded at 9:00 PM March 19, 1981. A 12-1/4" hole was drilled to 479'. Ran, set, and cemented 11 new joints of 8-5/8" 24#/ft. K-55 ST&C casing @ 464' with 265 sxs Class "B" cement containing 3% CaCl₂. Circulated 20 bbls slurry to surface. Nippled up BOP and tested to 1000² psi for 30 minutes - held OK.

100-20-1001
OIL & GAS DIVISION
SANTAFE

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Div. Drlg. Super. DATE March 24, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

NMOCC

ACCEPTED FOR RECORD

MAR 31 1981

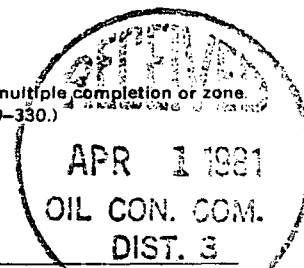
*See Instructions on Reverse Side

FARMINGTON DISTRICT

BY [Signature]

5. LEASE
NM 029144
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
FEDERAL
 9. WELL NO.
16E
 10. FIELD OR WILDCAT NAME
BASIN DAKOTA
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC. 9-T27N-R8W
 12. COUNTY OR PARISH 13. STATE
SAN JUAN NEW MEXICO
 14. API NO.
 15. ELEVATIONS (SHOW DF, KDB, AND WD)
6727' GI

(NOTE: Report results of multiple completion or zone change on Form 9-330.)



OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

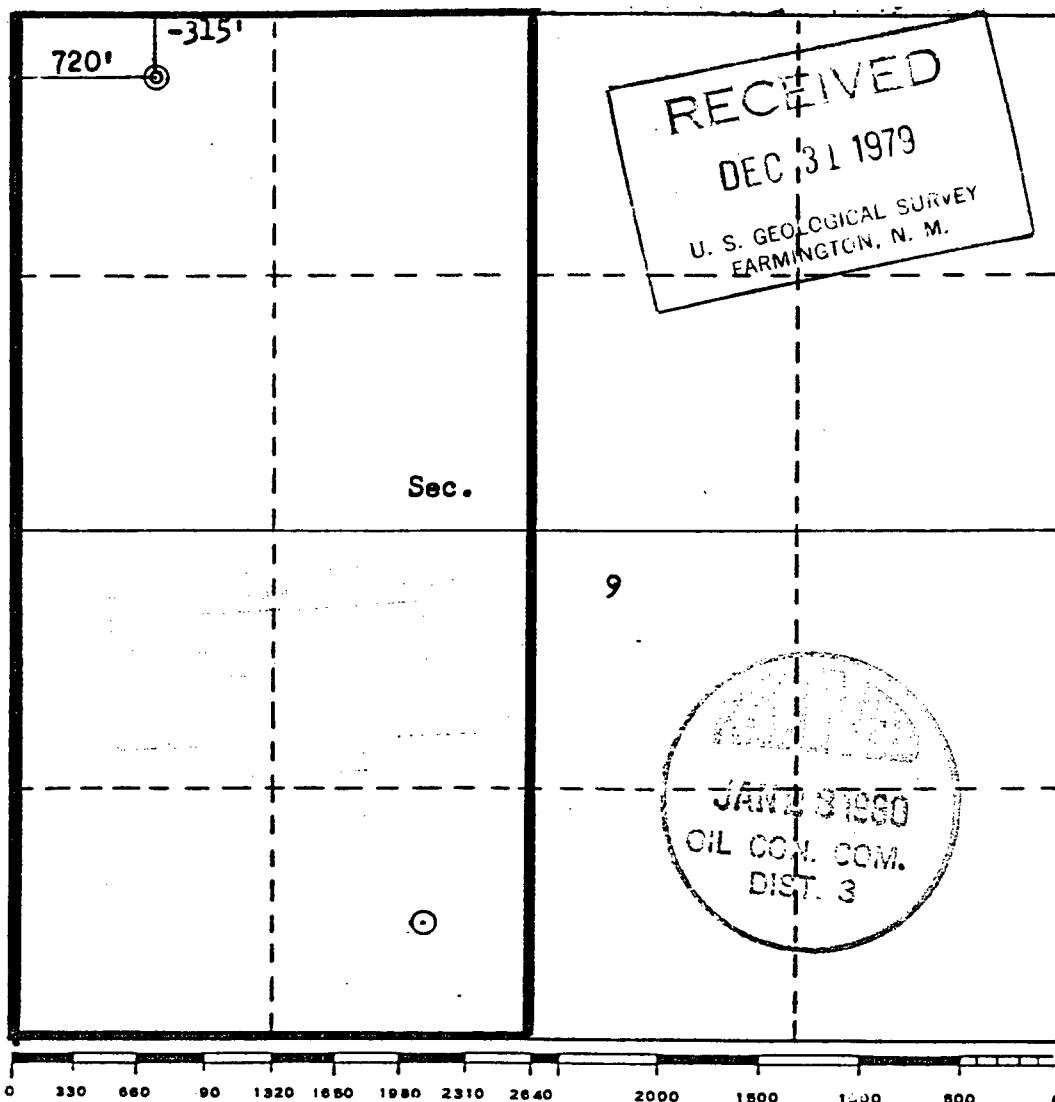
Operator MESA PETROLEUM COMPANY			Lease FEDERAL		Well No. 16-E
Unit Letter D	Section 9	Township 27N	Range 8W	County San Juan	
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line					
Ground Level Elev. 6727	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 320 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

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
JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM

Date
December 26, 1979

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

November 26, 1979
Registered Professional Engineer
and/or Land Surveyor
Fred B. Kern, Jr.
Certificate No. **3950**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MESA PETROLEUM CO.

3. ADDRESS OF OPERATOR

1600 Lincoln, 2800 Lincoln Center, Denver, Colorado 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

315'/N and 720'/W

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

7310

17. NO. OF ACRES ASSIGNED
TO THIS WELL

W/320

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6727' GL

22. APPROX. DATE WORK WILL START*

January 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
12 1/4	8 5/8	24	300	300	
7 5/8	5 1/2	15.5-17	7310	1000	

Gas under this lease is dedicated to a contract.

See attachments for details.

An application for nonstandard location has been filed.

RECEIVED
DEC 31 1979
U. S. GEOLOGICAL SURVEY.
FARMINGTON, N. M.JAN 28 1980
OIL CON. COM.
DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

JOHN ALEXANDER

TITLE

AGENT DAYS UNLESS

DATE December 26, 1979

(This space for Federal or State office use)

DRILLING COMMENCED.

PERMIT NO.

EXPIRES

APPROVAL DATE 4/28/80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

JAN 23 1980

L. B. Beck

All distances must be from the outer boundaries of the Section.

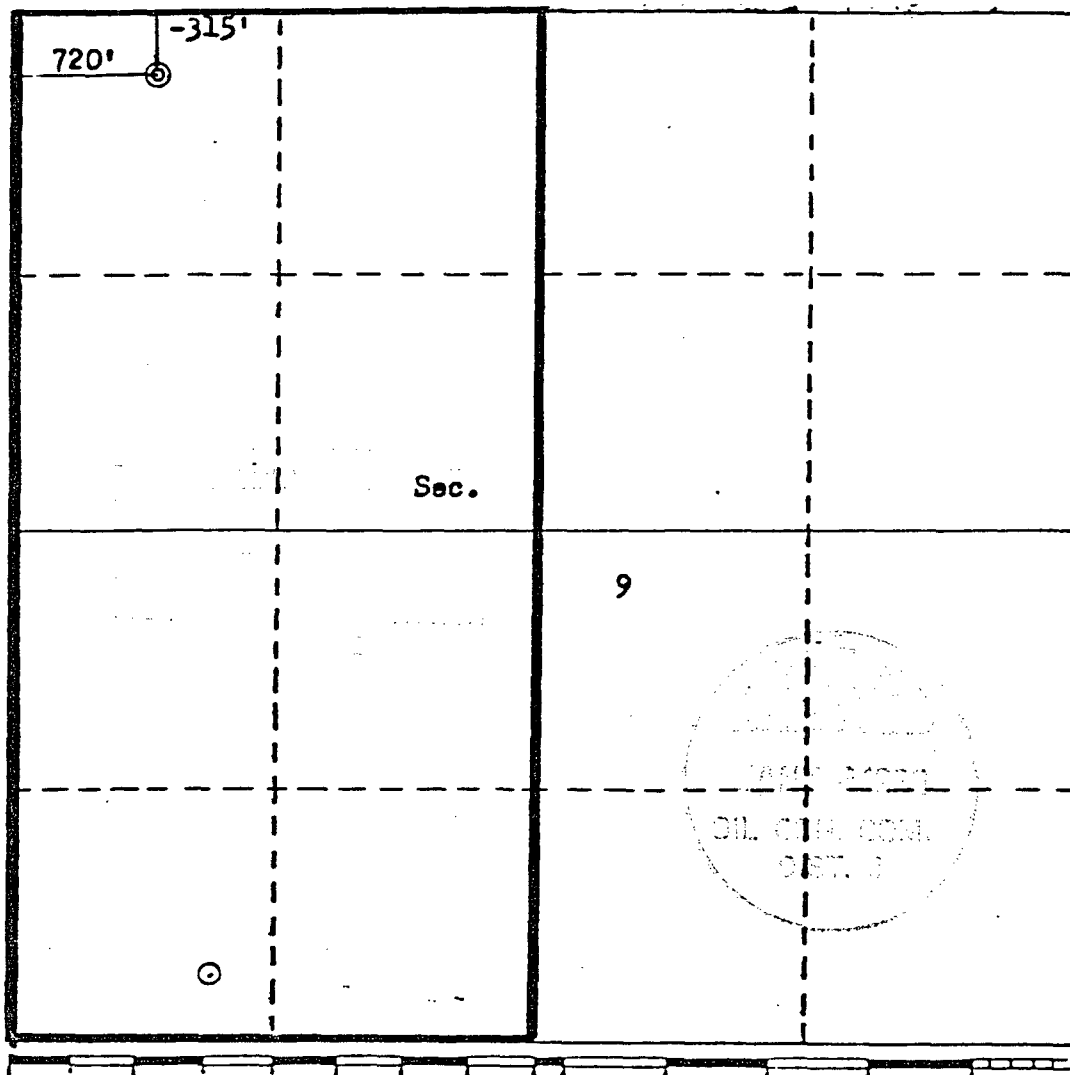
Operator MESA PETROLEUM COMPANY			Lease FEDERAL		Well No. 16-E
Unit Letter D	Section 9	Township 27N	Range 8W	County San Juan	
Actual Footage Location of Well:					
315 feet from the North line and		720 feet from the West line			
Ground Level Elev. 6727	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 320	Acres

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

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.

John Alexander
Name
JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM

Date
December 26, 1979

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

November 26, 1979

Registered Professional Engineer and/or Land Surveyor

Fred B. [Signature]
Fred B. [Signature]
Certification No. **11111**
NEW MEXICO



January 3, 1980

Mr. Joe D. Ramey, Director
Oil Conservation Division
Energy and Mineral Department
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Proposed Dakota gas infill well,
Mesa Petroleum Co., Federal #16-E,
located 315' FNL and 720' FWL of
Section 9, Township 27 North, Range 8 West,
San Juan County, New Mexico
Largo Canyon Prospect 0849

Dear Mr. Ramey:

According to Rule 104. F., the above location is considered as an unorthodox location, and the reason for this unorthodox location is because of extreme terrain difficulties.

This is a formal application for administrative approval of this unorthodox location. We have attached for your review a plat showing the locations of all wells in the offset locations and a copy of Form C-102, revised 10-1-78, and a vicinity map which reflects the topography. Mesa's well location is indicated by the red dot on the topography map. A plat showing the ownership of the Dakota gas rights is also attached.

All owners of the Dakota gas rights offsetting this location have been contacted by certified mail with the request that they waive any objections to this unorthodox location. We assume that there will be no objections.

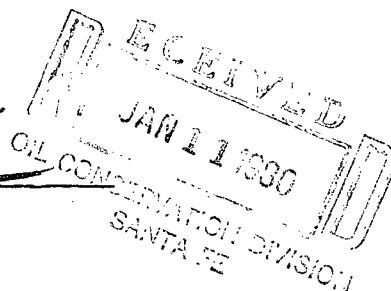
The letter to El Paso Natural Gas Company was mailed December 17, 1979. Letters to Tenneco, ARCO, and Great Lakes Chemical Corporation were mailed December 19, 1979.

Your approval is respectfully requested, and notification of your approval should be furnished to Mr. Jed W. Lemmons, Division Land Manager, Mesa Petroleum Co., 2800 Lincoln Center Building, 1660 Lincoln Street, Denver, Colorado, 80264.

Very truly yours,

MESA PETROLEUM CO.

By: 
Walter W. Sapp, Agent



WWS:cml

Enclosures

cc: Mr. Jed W. Lemmons,
Mesa Petroleum Co.

5

EPNC
FILAN #4
EPNC
FILAN #6

EPNC
FILAN #7

4

ARCO
Graham B. UN FED 5
TAMISCO
Dawson #11
Graham 1A

R&G DEQ.
Graham 32

3

ARCO
Graham B. UN FED 8
ARCO
Graham B. UN FED 6
AAA OPERATING CO.
FED. M. 1

8

EPNC
Schwerdt Fed. A 13
EPNC
Schwerdt Fed. A 5
EPNC
Schwerdt Fed. A 20

9

MESA
FED. 16
PROPOSED LOCATION
MESA
FED. 1
ARCO
Graham 8. UN FED. 1
MESA
FED. 16A
ARCO
Graham A. UN FED. 2
MESA
FED. 16
MESA
FED. 7
ARCO
Graham C. UN FED. 1A

10

W.C. Russell
Graham 33
R&G DEILLING
Graham 36
R&G DEILLING
Graham 30A

EPNC
RODANCE
D 2
EPNC
RODANCE
D 10

17

TAMISCO
EPNC
RODANCE 64
EPNC
RODANCE 15

16

EPNC
Schulte 1
EPNC
Schulte com G-13

15

ARCO
Graham UN FED. 3
ARCO
Graham UN FED. 2
AAA OPERATING CO.
FED. I. 1

SCALE: 2000,

TUN 27N-
ENG 8W
SAN JUAN CO,
N.M.

MESA PETROLEUM
OFF SET WELLS
TO PROPOSED
NON-STANDARD
LOCATION
FEDERAL 16E
315/N & 720/W
9-27N-8W
SAN JUAN CO, N.M.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO

P. O. BOX 2088

Form C-107
Revised 10-1-78

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

All distances must be from the outer boundaries of the Section.

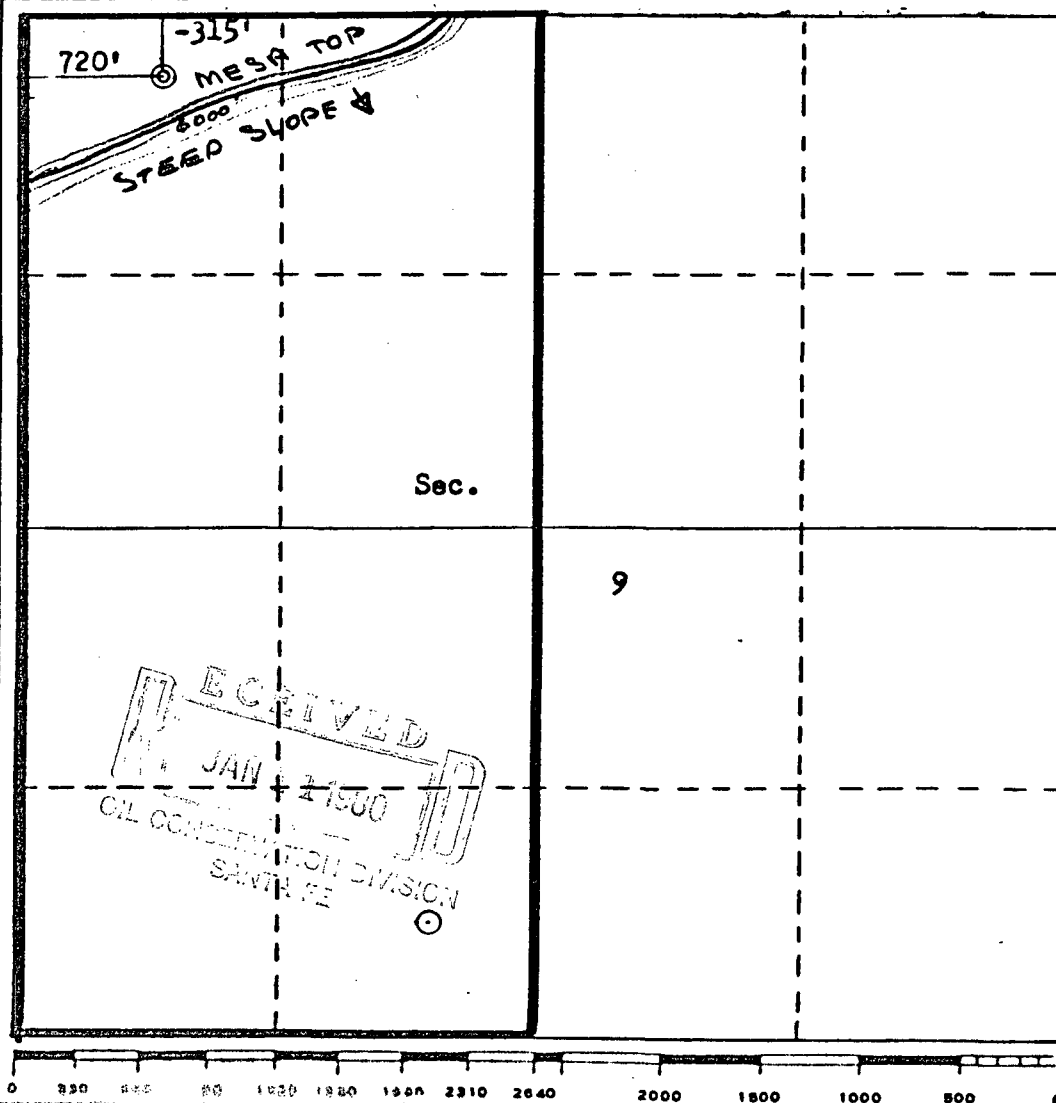
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CERTIFICATION

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

Name
JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM

Date
December 26, 1979

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

November 26, 1979

Registered Professional Engineer
and/or Licensed Surveyor

Fred B. Kerr Jr.

Certificate No. **3950**



PROPOSED DAKOTA GAS INFILL WELL, MESA PETROLEUM CO., FEDERAL #16-E, LOCATED 315' FNL AND 720' FNL OF SECTION 9
LARCO CANYON PROSPECT 0849

Township 27 North, Range 8 West, County San Juan, State New Mexico

