

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 Repon
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other _____
- Change of Plans
- New Construction
- Non-Routine Fracuring
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Repon results of multiple completion 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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OIL CON. DIST. 3

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

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 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.

*See Instruction on Reverse Side

District I
PO Box 1980, Hobbs. NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd. Aztec, NM 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

PO Box 2088
Santa Fe, NM 87504-2088

070 FARMINGTON, NM

Hand = -104 for
DD + NSL @

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

10 Surface Location

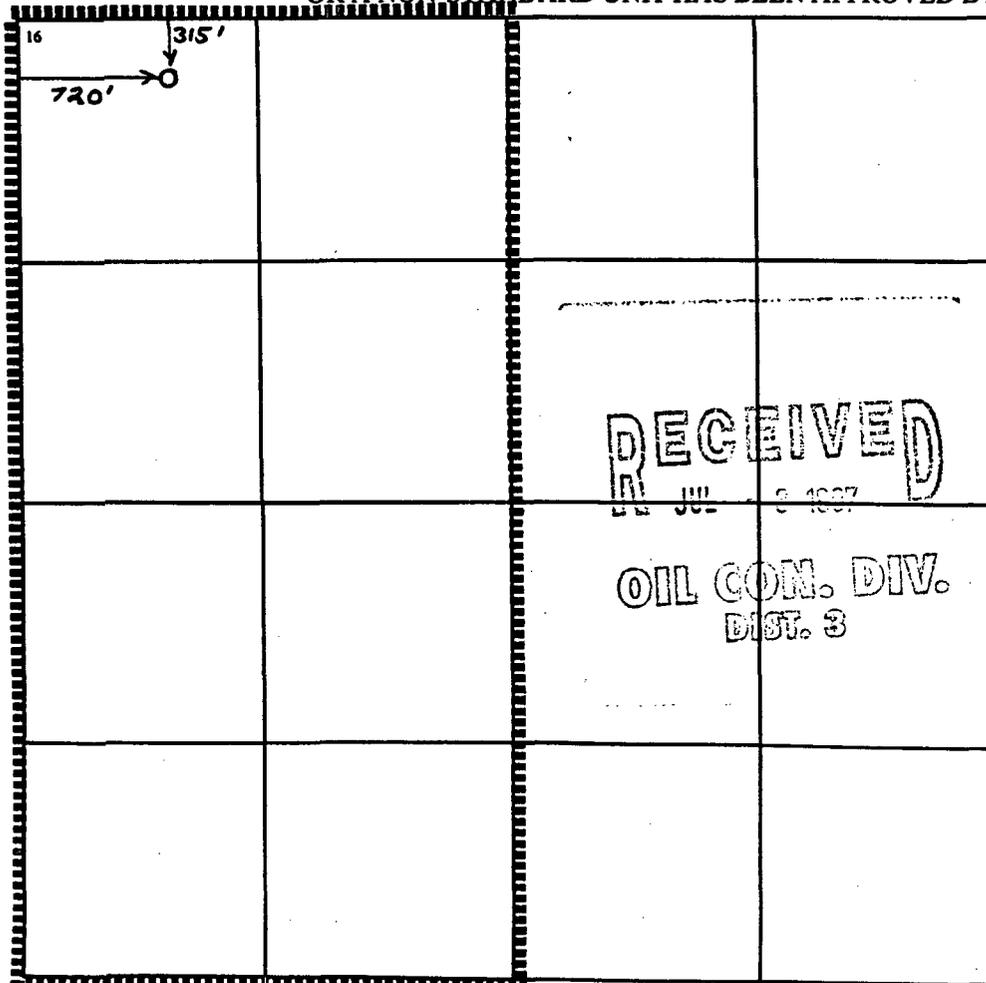
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	27N	8W		315	North	720	West	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres W/320	13 Joint or Infill	14 Consolidation Code	15 Order No. 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



17 OPERATOR CERTIFICATION

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

Jerry W. Hoover
Signature

Jerry W. Hoover
Printed Name

Sr. Conservation Coordinator
Title

6/19/97
Date

Date

18 SURVEYOR CERTIFICATION

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

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

RECEIVED
31 JUN 26 AM 10 22

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.

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

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
<input checked="" type="checkbox"/>								
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 - Bbla.	Water - Bbla.	

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbla. Condensate/MFCP	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 Date
(405) 948-3120 Telephone No.
Title
Telephone No.

OIL CONSERVATION DIVISION
MAY 03 1991

Date Approved _____
By **Bill D. Shoup**
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.

OIL CONSERVATION DIVISION RECEIVED
90 JUL 23 AM 10 12

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

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

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

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	D	: 315	Feet From The north	Line and 720
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"/>	Address (Give address to which approved copy of this form is to be sent)
GIANT REFINING CO.	P.O. BOX 12999, SCOTTSDALE, AZ 85267
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:

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.	G/MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	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.

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 *[Signature]*
SUPERVISOR DISTRICT #3
Title

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

- Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 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

MAR 19 1986
OIL CONSERVATION DIVISION
SANTA FE

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

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.A.	
LAND OFFICE	
TRANSPORTER	<input type="checkbox"/> OIL
	<input type="checkbox"/> GAS
OPERATOR	
REGISTRATION OFFICE	

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

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

FEB 19 1986

I.

Operator: Mesa Operating Limited Partnership

Address: P.O. Box 2009, Amarillo, Texas 79189

Reason(s) for filing (Check proper box):

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

Other (Please explain):

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 <u>Federal</u>	Well No. <u>21</u>	Pool Name, including Formation <u>Large Chacra</u>	Kind of Lease State, Federal or Fee <u>Federal</u>	Lease No. <u>NM029144</u>
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, <u>San Juan</u> 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"/>	<u>Permian Corporation</u>	Address (Give address to which approved copy of this form is to be sent)
		<u>P.O. Box 1183/Houston, Texas 77001</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	<u>El Paso Natural Gas Co.</u>	Address (Give address to which approved copy of this form is to be sent)
		<u>P.O. Box 1492/El Paso, Texas 79998</u>
If well produces oil or liquids, give location of tanks.	Unit <u>D</u> Sec. <u>9</u> Twp. <u>27</u> Rge. <u>8</u>	Is gas actually connected? <u>Yes</u> When _____

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 _____
BY Frank J. [Signature]
TITLE _____
SUPERVISOR, DISTRICT #2

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 well gas well 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:

RECEIVED

OCT 14 1982

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

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

5. LEASE
NM 029144
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal
9. WELL NO.
#21
10. FIELD OR WILDCAT NAME
Undesignated Chacra
11. SEC., T., R., M., OR BLK. AND SURVEY OR
D AREA9-27N-8W
12. COUNTY OR PARISH
San Juan
13. STATE
NM
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.)*

Reseeded Pipeline right-of-way and location.

OCT 25 1982

SANTA FE

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

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

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

(This space for Federal or State office use)

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

OCT 17 1982

FARMINGTON DISTRICT

*See Instructions on Reverse Side

BY FR

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 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

REC-6727' GL
AUG 20 1981
U. S. GEOLOGICAL SURVEY (NOTE: Report results of multiple completion or zone change on Form 9-330.)
FARMINGTON, N.M.

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 W. Benton TITLE Drig. 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

Handwritten initials

AUG 24 1981
OIL CONSERVATION DIVISION
SANTA FE DISTRICT
FARMINGTON, N.M.

FARMINGTON COPY

*See Instructions on Reverse Side

AUG 24 1981

BY Sean Elliott

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. ✓

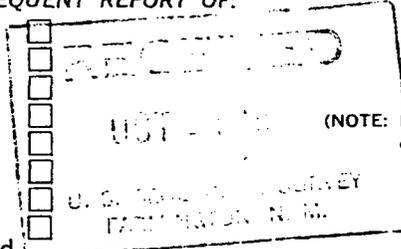
3. ADDRESS OF OPERATOR
1660 Lincoln Street, Denver, CO 80264

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*

SUBSEQUENT REPORT OF:



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

(other) Correct date TD reached

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.)*

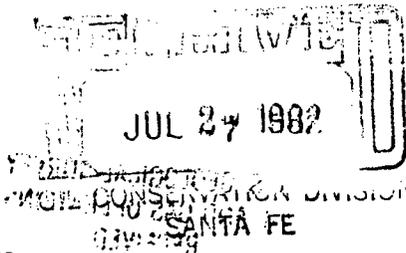
Correct date TD was reached is 4/3/81.

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:

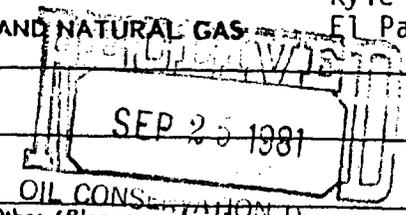
95

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

Revised 10-1-78
xc: USCG (5)
State (5)
T. L. Slife
Sharon Cavanaugh
Randy Nordsven
Kyle Stanley
El Paso Nat. Gas

NO. OF PERMITS	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.O.B.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	
Operator	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL 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 Federal NM	Lease No.	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 of Section <u>9</u>	Township <u>27N</u>	Range <u>8W</u>	, 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 <u>D</u> Sec. <u>9</u> Twp. <u>27N</u> Rge. <u>8W</u>	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. Res.
		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, RT, GR, etc.)	6727' GR	Name of Producing Formation	Chacra	Top Oil/Gas Pay	3864'	Tubing Depth	3808'	
Perforations						Depth Casing Shoe	7445'	

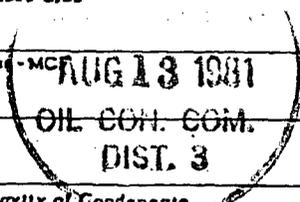
TUBING, CASING, AND CEMENTING RECORD

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 60% of total volume of load oil 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	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
395	3 hours	None	N/A
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size
Black Press	700 psig	700 psig	.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.

Paul A. Rison
(Signature)
Division Productions Supervisor
(Title)
August 3, 1981
(Date)

OIL CONSERVATION DIVISION
9-8-81
APPROVED SEP 8 - 1981
BY *Paul T. Chay*
SUPERVISOR DISTRICT # 3
TITLE

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 all wells 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 all recompleted 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

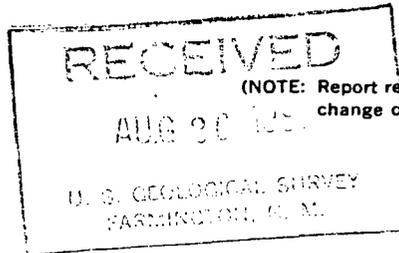
REQUEST FOR APPROVAL TO:

- 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



5. LEASE
NM 029144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
10E 21

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

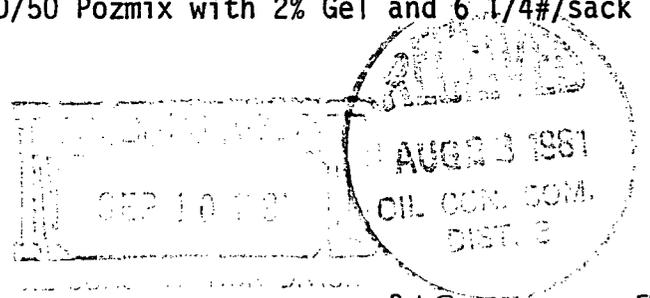
14. API NO.

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

(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 _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

NMOCC

BY Smm

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESERV. 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 and in accordance with any State requirements)*
 At surface 315' FNL - 720' FWL
 At top prod. interval reported below same
 At total depth same

14. PERMIT NO. _____ DATE ISSUED 3/31/81

5. LEASE DESIGNATION AND SERIAL NO.
NM 029144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

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

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

15. DATE SPUNDED 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 → 0-7485' CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Chacra - 3864' - 3994'

26. TYPE ELECTRIC AND OTHER LOGS RUN
CND-CPL-ISFL

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	464'	12 1/2"	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-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					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.

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)

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOWING WELL STATUS (Producing or shut-in) Shut-in

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	--
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
90 psig	210 psig	→	-0-	3158	trace	N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
Vented for test purposes only

TEST WITNESSED BY
C. James

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 [Signature] TITLE Div. Production Supervisor DATE 8-03-81

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
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		

RECEIVED
AUG 31 1981
OIL CONSERVATION DIVISION
SANTA FE

AUG 31 1981
OIL CONSERVATION DIVISION
SANTA FE

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH

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	

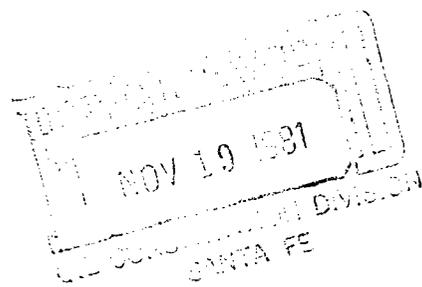
WAS MADE ON November 4, 1981,
Date

FIRST DELIVERY November 5, 1981
Date

AOF 3,158

CHOKE 2,924

045-
F
PER



El Paso Natural Gas Company
Purchaser
[Signature]
Representative
Chief Dispatcher
Title

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

File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

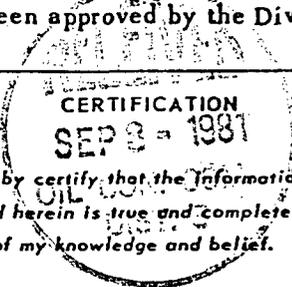
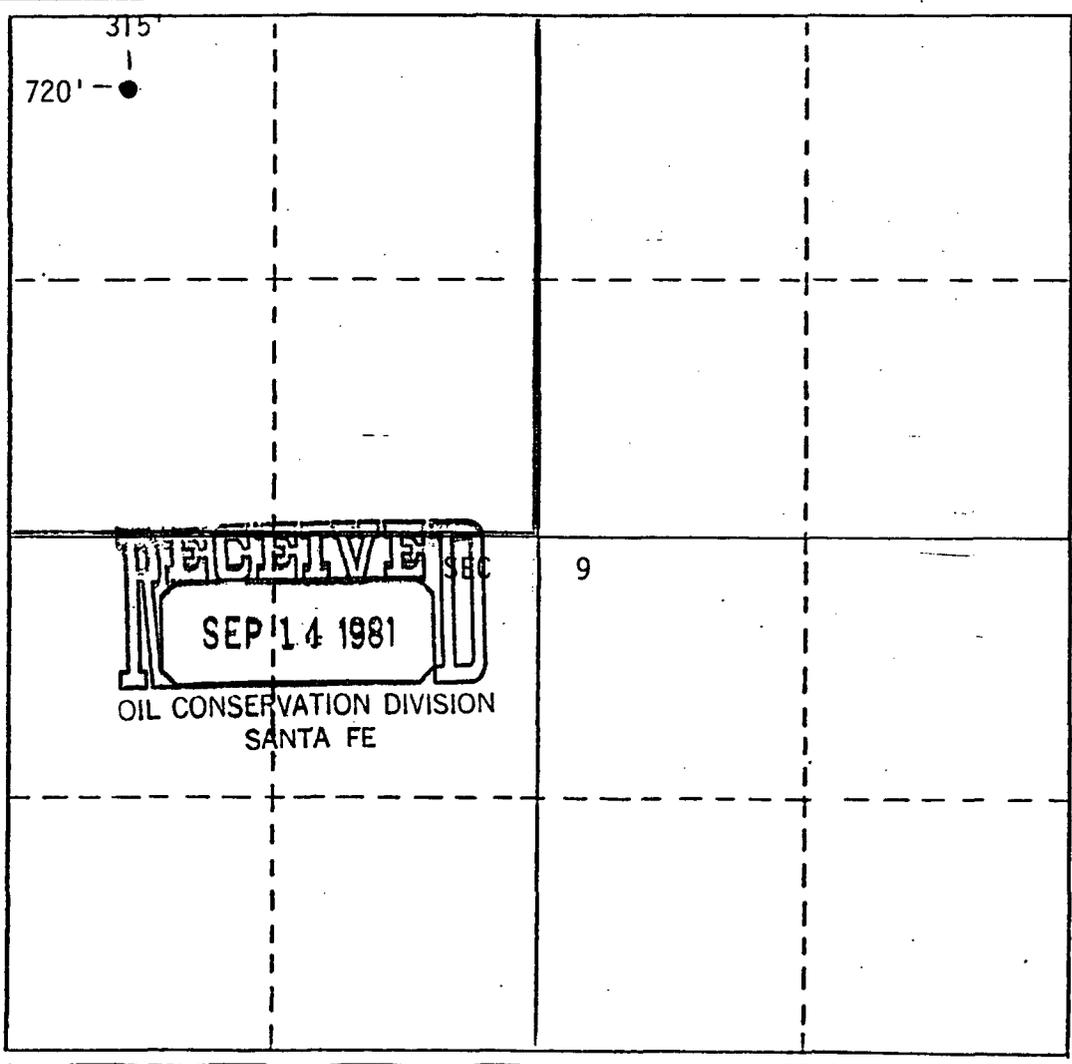
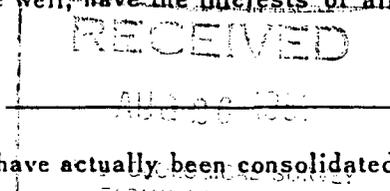
Operator Mesa Petroleum Co.		Lease Federal		Well No. 21
Unit Letter 315'	Section 9	Township 27N	Range 8W	County San Juan
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line				
Ground Level Elev. 6727	Producing Formation Chacra	Pool Undesignated Chacra	Dedicated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

1. Outline the acreage dedicated to the subject well by colored pencil or 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 Division.



Name
John Benton

Position

Company
Mesa Petroleum Co.

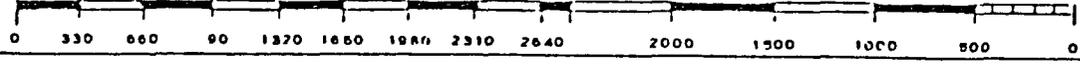
Date
August 24, 1981

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

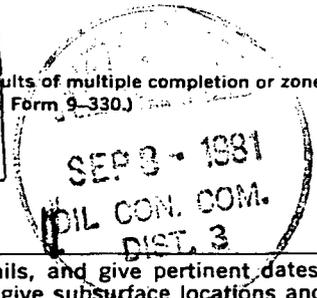
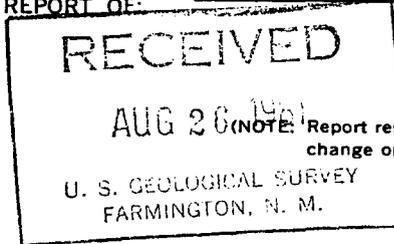
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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:

-
-
-
-
-
-
-
-



5. LEASE
NM 029144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
46E 21

10. FIELD OR WILDCAT NAME
Undesignated Chacra

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 9-T27N-R8W

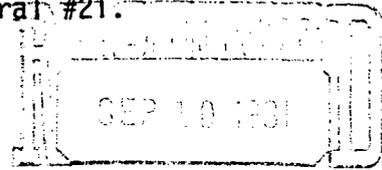
12. COUNTY OR PARISH | 13. STATE
San Juan | New Mexico

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 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

AUG 31 1981

*See Instructions on Reverse Side

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	
---------------------------------------------------------------------------------------------------------------------------	----------------------	--

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.	Farm or Lease Name FEDERAL
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Csg. Size 5.500	Wt. 0.	d 0.	Set At 5.	Perforations: From 3864. To 3994.	Well No. 16E
--------------------	-----------	---------	--------------	--------------------------------------	-----------------

Tbg. Size 2.063	Wt. 3.2	d 1.751	Set At 3868.	Perforations: From 0. To 0.	Unit Sec. Twp. Rys. 9-27N-8W
--------------------	------------	------------	-----------------	--------------------------------	---------------------------------

Type Well - Single - Freedomhead - G.C. or G.O. Multiple FLOWING GAS	Packer Set At 0.	County Santa Fe
-------------------------------------------------------------------------	---------------------	--------------------

Producing Thru TUBING	Reservoir Temp. °F 110.0 3929.	Mean Annual Temp. °F 88.0	Baro. Press. - P _e 12.2	State NEW MEXICO
--------------------------	-----------------------------------	------------------------------	---------------------------------------	---------------------

L 3929.	H 3929.	Gg 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.		Temp. °F
SI									700.	80.	158.0
1.	1.75 X 0.750			210.	0.	78.	0.	0.	210.	78.	2.0
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.74	0.	222.2	0.9861	1.1952	1.0234	2724.
2.							
3.							
4.							
5.							

NO.	R	Temp. °R	T	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	0.30	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	P.S.I.A. 668. P.S.I.A.
5					Critical Temperature	R 370. R

NO.	P _e ²	P _w ²	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.1001$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.0001$
1	47.	222.	47.	433.		
2						
3						
4						
5						

Absolute Open Flow 2150 Mcfd @ 15.025	Angle of Slope @ 50 SANTA FE Slope, n 750
Remarks:	

Approved By Commission:	Conducted By:	Calculated By:	Checked By: John W. Barton
-------------------------	---------------	----------------	-------------------------------

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

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
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*

-
-
-
-
-
-
-
-

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

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

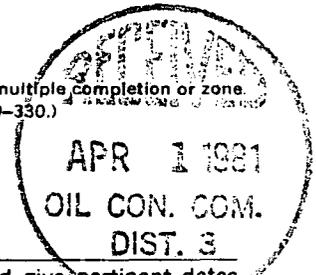
12. COUNTY OR PARISH
SAN JUAN

13. STATE
NEW MEXICO

14. API NO.

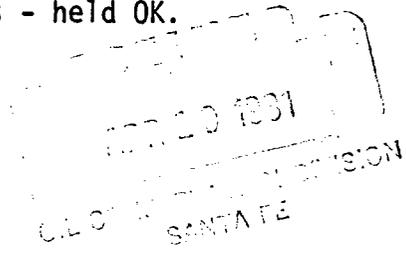
15. ELEVATIONS (SHOW DF, KDB, AND WD)
6727' GI

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



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.



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

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 COMPANY

3. ADDRESS OF OPERATOR
1660 Lincoln, 2800 Lincoln Cntr, Denver, Co 80264

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 315' N & 720' W
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) extend drilling date

SUBSEQUENT REPORT OF:

RECEIVED
FEB 20 1981
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

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
9-27N-8W

12. COUNTY OR PARISH
San Juan

13. STATE
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DEPTH, KDB, AND WD)
6727' G.L.

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.)*

Operator requests an extension of the drilling commencement date for the subject well. Drill operation will start by March 15, 1981.

RECEIVED
MAR 09 1981
OIL CONSERVATION DIVISION
SANTA FE

APPROVED TO JULY 25, 1981

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED John Alexander TITLE Agent DATE 2/24/81

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL IF ANY:
APPROVED
FEB 27 1981
Bruce W. Hamdy
DISTRICT ENGINEER

*See Instructions on Reverse Side

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

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

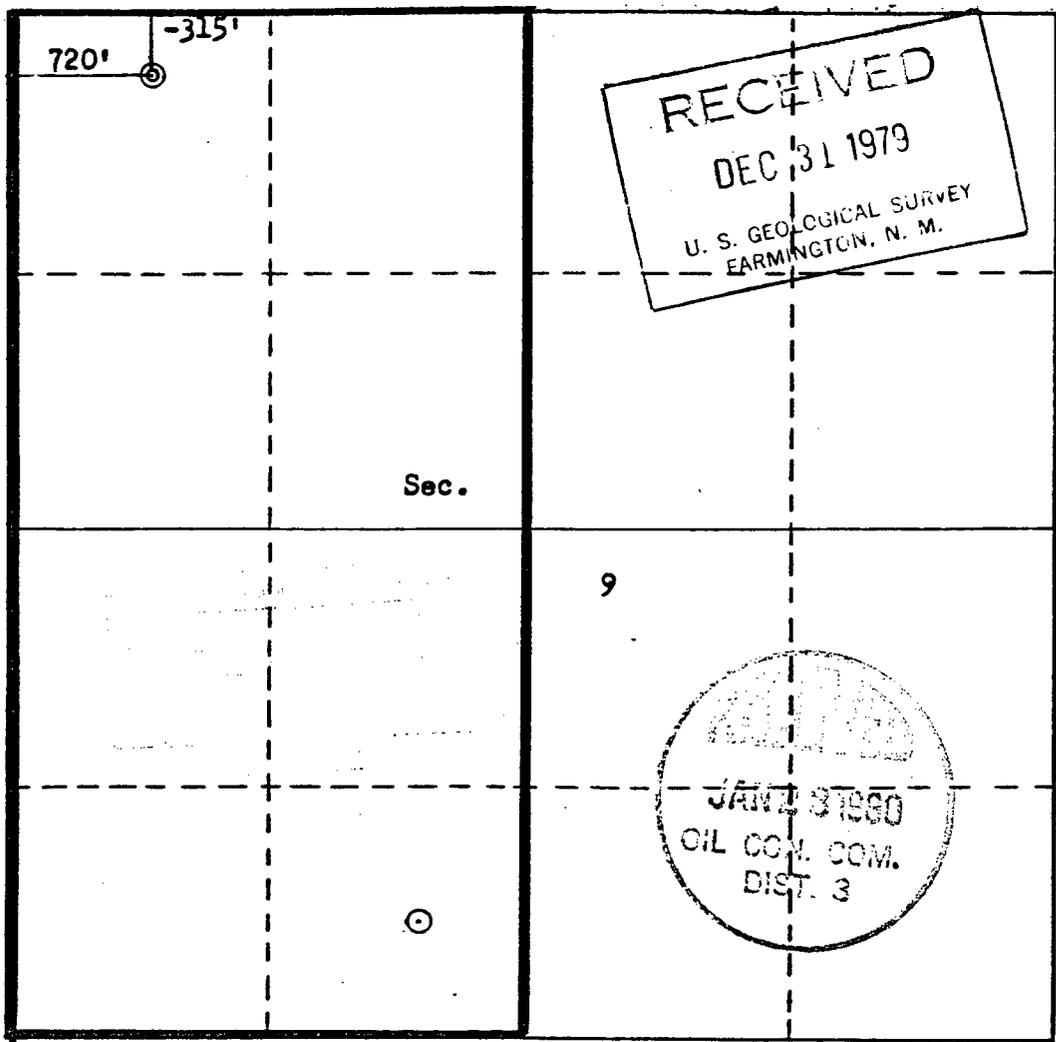
Operator MESA PETROLEUM COMPANY		Lease FEDERAL		Well No. 16-E	
Unit Letter D	Section 9	Township 27N	Range 8W	County San Juan	
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line					
Ground Level Elev. 6727	Producing Formation Dakota		Pool Basin Dakota	Dedicated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

John Alexander

Name
JOHN ALEXANDER

Position
AGENT

Company
MESA PETROLEUM

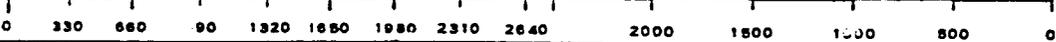
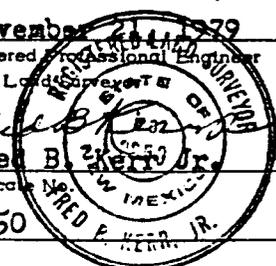
Date
December 26, 1979

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 of
Fred B. Kern, Jr.

Certificate No.
3950



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24183

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*

5. LEASE DESIGNATION AND SERIAL NO.
 NMC29144

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 FEDERAL

9. WELL NO.
 16E

10. FIELD AND POOL, OR WILDCAT
 BASIN DAKOTA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 9-27N-8W

12. COUNTY OR PARISH
 SAN JUAN

13. STATE
 NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE
 320

17. NO. OF ACRES ASSIGNED TO THIS WELL
 W/320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
 7310

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.

RECEIVED
 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 4/28/80

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

ok Fresh
 held 6-104 for N.S.L.

NMOCC

RECEIVED
 JAN 23 1980
 [Signature]

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

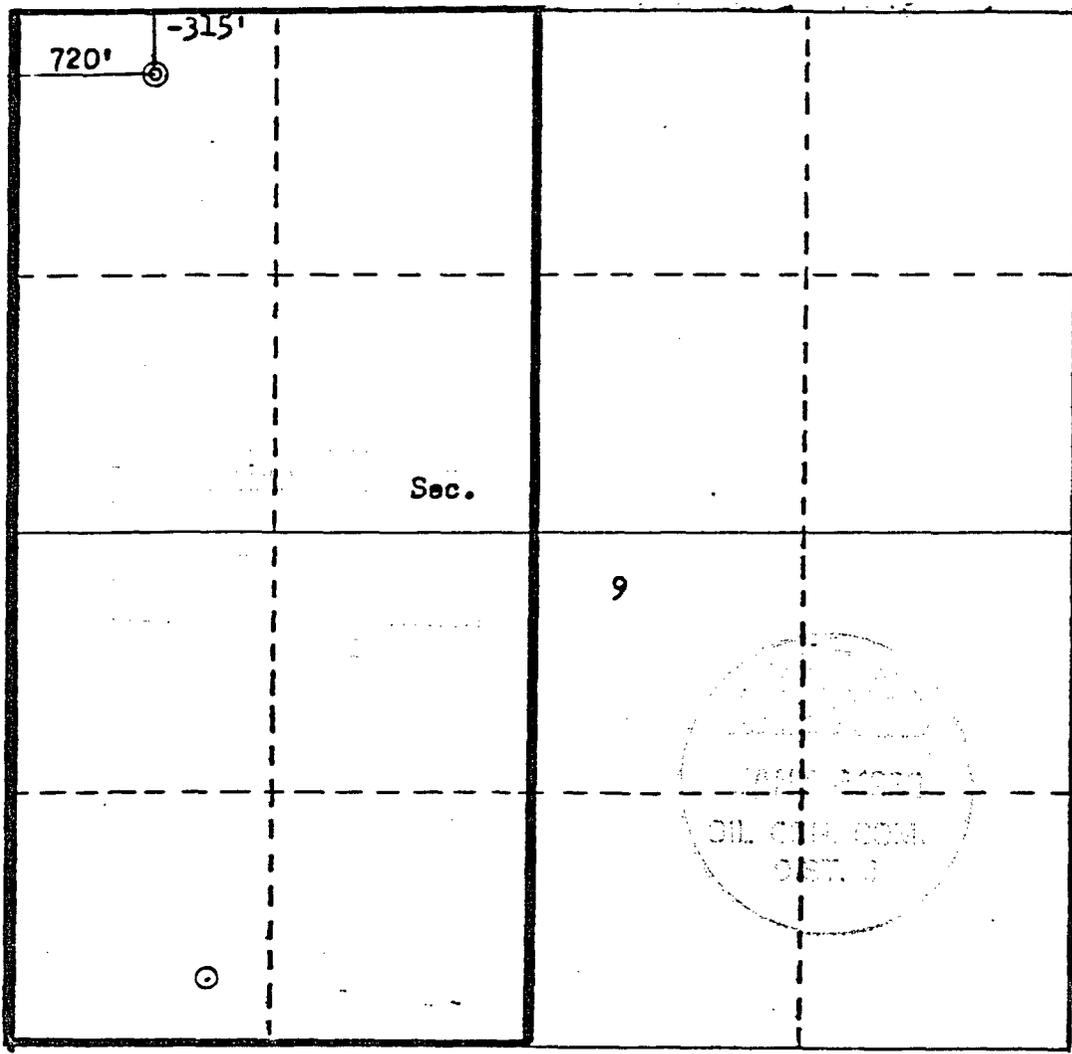
Operator MESA PETROLEUM COMPANY		Lease FEDERAL		Well No. 16-E
Unit Letter D	Section 9	Township 27N	Range 8W	County San Juan
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line				
Ground Level Elev. 6727	Producing Formation Dakota	Pool Basin Dakota	Dedicated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

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. [Number]
NEW MEXICO



SHAFFER HYDRAULIC BLOWOUT PREVENTERS
(Patented)

TYPE LWS PREVENTERS—8", 3000 Lb. & 5000 Lb.—10", 5000 Lb.
12", 3000 Lb.—13 5/8", 5000 Lb.—16", 3000 Lb.

PARTS AND DIMENSIONAL ILLUSTRATIONS

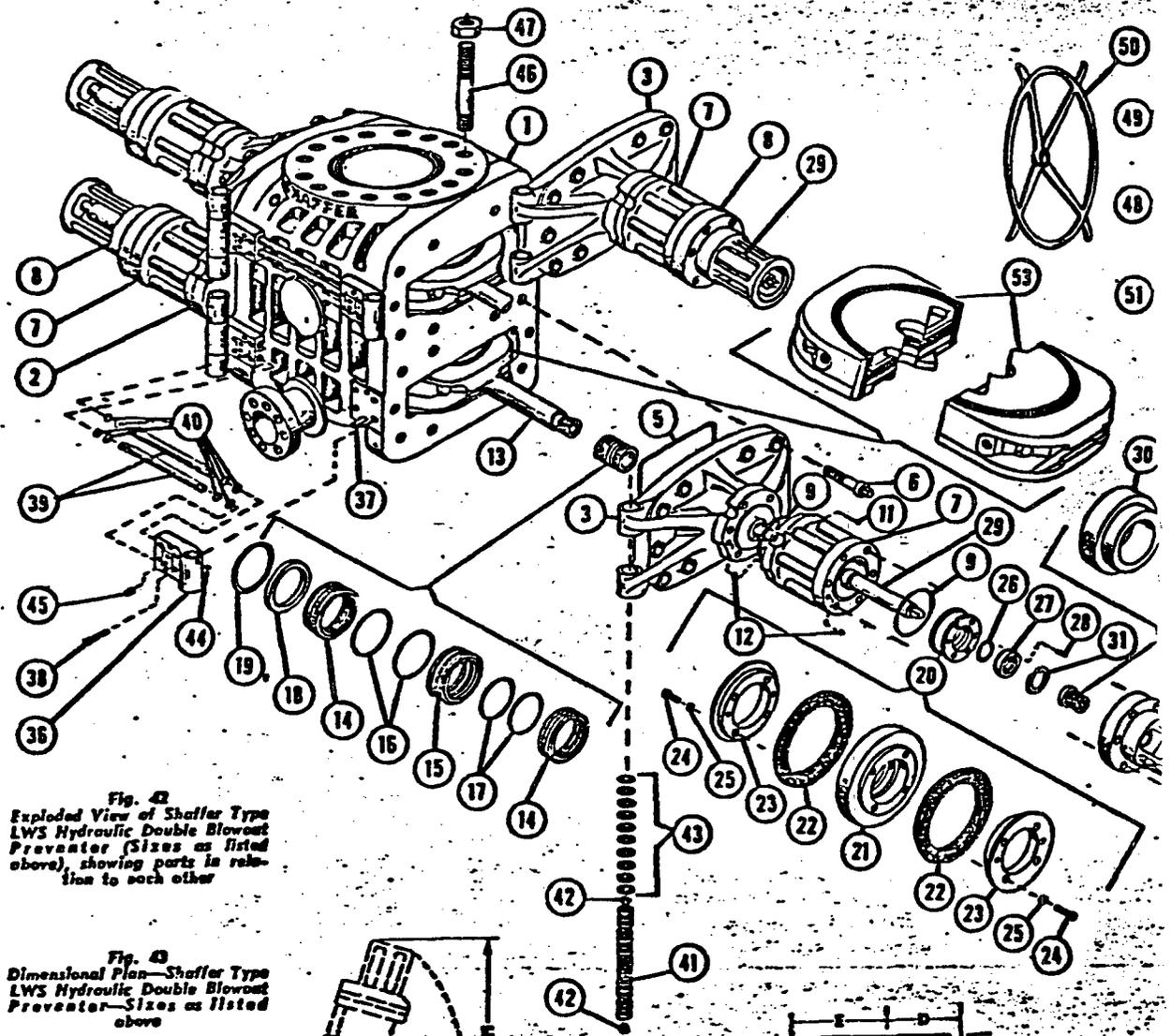


Fig. 42
Exploded View of Shaffer Type LWS Hydraulic Double Blowout Preventer (Sizes as listed above), showing parts in relation to each other

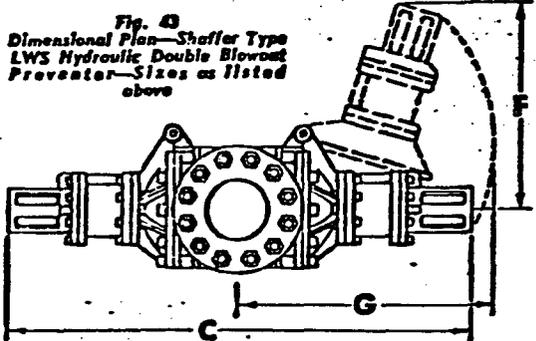


Fig. 43
Dimensional Plan—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

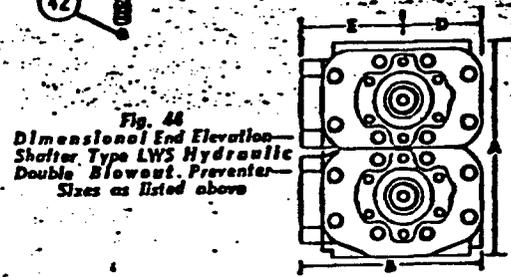


Fig. 44
Dimensional End Elevation—Shaffer Type LWS Hydraulic Double Blowout Preventer—Sizes as listed above

- STANDARD ACCESSORIES
- (50) 4 Hand
 - (48) 1 Door
 - (49) 1 Cylinder Wrench
 - (51) 4 Universal

DIMENSIONAL AND ENGINEERING DATA ON ABOVE SIZES OF TYPE LWS PREVENTERS
Refer to Figs. 43 and 44

Size	Max. Service Press. Rating psi	Test Press. psi	Vertical Rise	Max. Ram Size	Approx. Weight Lbs.		A				B	C	D	E	F	G	Closing Rate
					Studded Flange		Height										
					Single	Double	Single		Double								
							Studded Flange	Bolted Flange	Studded Flange	Bolted Flange							
8"	3,000	6,000	8"	7"	2,900	2,900	29 1/2"	41 1/2"	25 1/2"	78 1/2"	11 1/2"	14 1/2"	22"	48"	5.8 to 1		
10"	4,000	10,000	11"	8 1/2"	5,600	7,000	34 1/2"	50 1/2"	28 1/2"	78 1/2"	11 1/2"	14 1/2"	22"	48"	5.8 to 1		
12"	3,000	6,000	13 1/2"	10 1/2"	6,300	6,300	34 1/2"	47 1/2"	31 1/2"	82 1/2"	13 1/2"	18 1/2"	22"	54"	5.50 to 1		
13 5/8"	4,000	10,000	13 1/2"	10 1/2"	6,800	9,700	36 1/2"	49 1/2"	33 1/2"	87 1/2"	14 1/2"	18 1/2"	22"	54"	5.50 to 1		
16"	3,000	6,000	16 1/2"	13 1/2"	8,500	8,500	42"	51"	38"	106 1/2"	16 1/2"	20 1/2"	22"	60"	5.50 to 1		



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
Walter W. Sapp, Agent



WWS:cml

Enclosures

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

<p>5</p> <p>EDNG FILAN #4 EDNG FILAN #6</p> <p>EDNG FILAN #7</p>	<p>ARC0 Graham B UNW FED 5 TEANICO Dawson #11</p> <p>ARC0 GREAT LAKES Graham 1A</p> <p>ARC0 Graham B UNW FED 5 Graham 1A</p>	<p>ARC0 Graham B UNW FED 8</p> <p>ARC0 Graham B UNW FED 6 AAA OPERATING CO. FED. M /</p>
<p>8</p> <p>EDNG Schwerdt Feder A 20</p> <p>EDNG Schwerdt Feder A 23</p>	<p>MESA FED. 13 PROPOSED LOCATION</p> <p>MESA FED. 14 Graham C UNW FED. 1</p> <p>MESA FED. 15A ARC0 Graham A UNW FED 2</p>	<p>W.C. Russell Graham S3 R&G Drilling 9 Graham 30 R&G Drilling 9 Graham 30A</p>
<p>17</p> <p>EDNG RORANCE D 2</p> <p>EDNG RORANCE G4</p>	<p>EDNG Schulte 1</p> <p>EDNG Schulte com G-13</p>	<p>ARC0 OKNARD UNW FED. 3 ARC0 OKNARD UNW FED. 2 AAA OPERATING CO FED I /</p>

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

SCALE: 2000,
 TUN 27N-
 ENG 8W
 SAN JUAN CO,
 N.M

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107
Revised 10-1-78

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

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

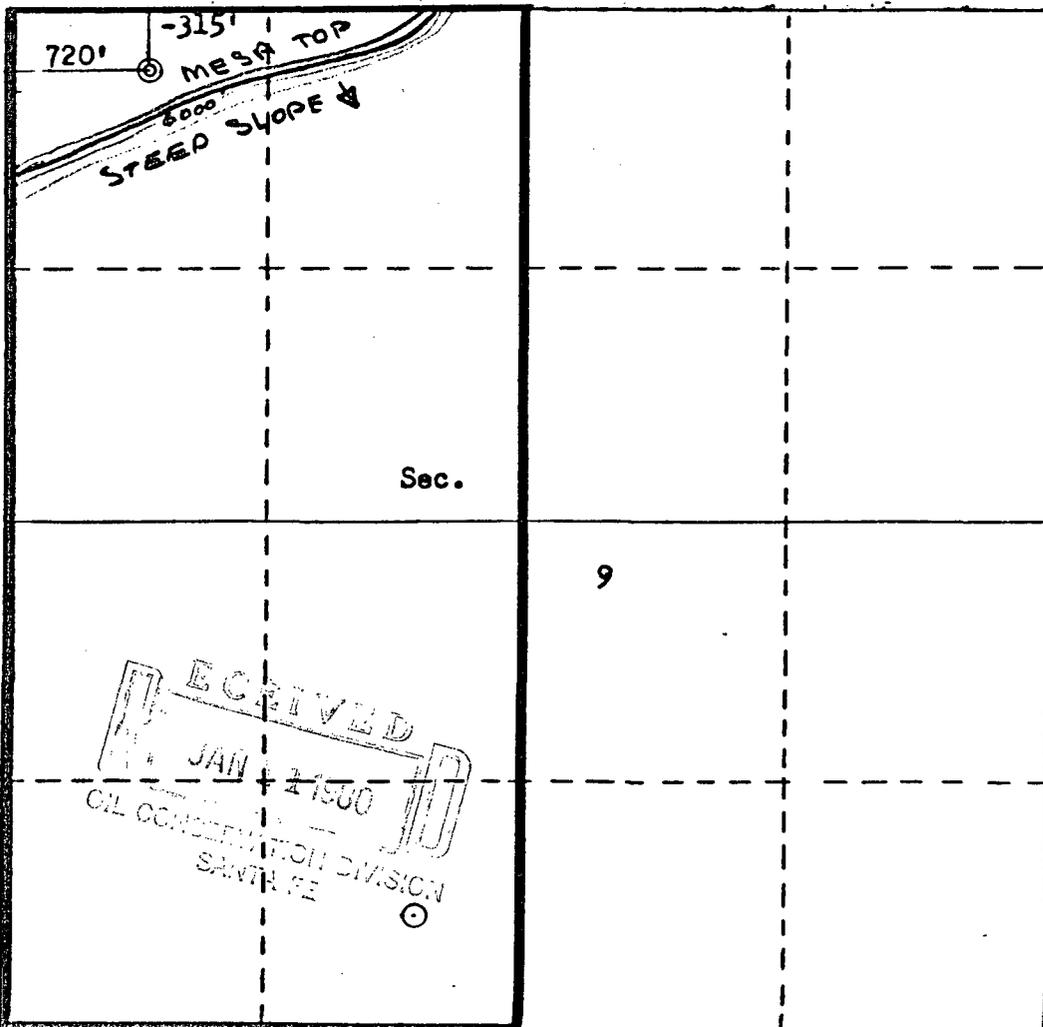
Operator MESA PETROLEUM COMPANY			Lease FEDERAL		Well No. 16-E
Unit Letter D	Section 9	Township 27N	Range 8W	County San Juan	
Actual Footage Location of Well: 315 feet from the North line and 720 feet from the West line					
Ground Level Elev. 6727	Producing Formation Dakota		Pool Basin Dakota		Dedicated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

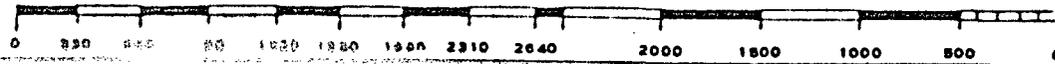
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

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 Licensed Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
Certificate No. **3950**

RECEIVED
JAN 4 1980
OIL CONSERVATION DIVISION
SANTA FE





Vicinity Map for
MESA PETROLEUM COMPANY #16-E FEDERAL
315'FNL 720'FWL Sec 9-T27N-R8W
SAN JUAN COUNTY, NEW MEXICO

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

