

3R - 65

REPORTS

DATE:

4/3/1987



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

April 3, 1987

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. S.E. Reynolds
State Engineer
State Engineer Office
Bataan Memorial Building
Santa Fe, New Mexico 87503

RE: Department of Interior's Progress Report No. 13 "Quality of Water, Colorado River Basin"

Dear Mr. Reynolds:

I appreciate the opportunity to comment on the references to the oil and gas industry contained in the subject report. In June 1986, the Bureau of Reclamation contacted the Oil Conservation Division concerning a number of areas with high TDS flows. These flows were identified as wells that were either leaking or improperly plugged or abandoned.

In July 1986, the Bureau of Reclamation supplied the location, rate of flow, and TDS of the three high TDS flows they observed and attributed to the oil industry (correspondence enclosed). The following is a summary of the results of our investigation into each location, arranged in the order as in the Bureau's letter.

- a) There is no well in Section 29, T32N, R19W. A well in Section 32 was observed to have water ponded near it which had come from the well. This well was identified as Mesa Petroleum, Navajo 32 No. 1, that was plugged and abandoned on February 17, 1969. The well was reported to have been subsequently turned over to the Navajo Nation for use as a stock well. The Oil Conservation Division has no records on this well after 1969.
- b) The two wells in Section 18, T29N, R9W were identified as the Amoco Candelaria Gas Community No. 1 and the Amoco Valencia Gas Community "B" No. 1M. There was no flow observed at the surface and both wells passed a bradenhead mechanical integrity test this past year. There is a private gas line in the area that is supplied by the wells. Field personnel have stated that in the past, this line has had numerous leaks.

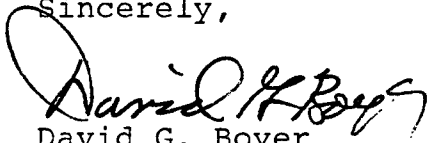
c) There is no well identified in Section 26, T31N, R20W.

There may be additional wells in BOR's San Juan River Unit that may be contributing to the salt load of the river. As these wells are reported or identified by Oil Conservation Division field personnel, corrective action is taken.

The Bloomfield Refinery, located adjacent to Hammond Ditch, continues to have crude oil and/or petroleum product atop shallow ground water at the site. Three additional monitoring wells have been drilled, but drilling of a recovery well and additional off-site wells has been delayed due to the reluctance of one land owner to consent to the drilling. Since seepage of oil from the site into the ditch only occurs when the ditch is empty and ground water levels in adjacent soil and permeable materials are higher, the refinery has kept the ditch full of fresh water this winter.

Even if all floating oil is removed, fluctuating ditch water levels will continue to have an impact on oil saturated soil. The only permanent solution is lining the ditch in the area of the refinery. If the ditch was lined, I believe that given the refinery's location, the remaining discharges to the subsurface from the refinery's permitted unlined ponds or land application area would have little or no effect on either salinity in the San Juan River, or on protectable ground water resources. As other refineries and natural gas plants are permitted, the Oil Conservation Division ensures that their discharges to the subsurface will not cause or aggravate salinity problems.

Sincerely,



David G. Boyer
Hydrogeologist/Environmental Bureau Chief

DGB/cr

cc: OCD-Aztec
R.L. Gold, BOR, Durango

Enclosure



United States Department of the Interior

BUREAU OF RECLAMATION

UPPER COLORADO REGION
DURANGO PROJECTS OFFICE

P.O. BOX 640
DURANGO, COLORADO 81302-0640

IN REPLY
REFER TO: 710
123.8

JUL - 2 1986

Mr. Roger Anderson
Oil and Gas Commission
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

As a result of your telephone conversation with Jack Generaux, I am providing you the following information on flowing wells:

- a) Well in T32N, R19W, sec. 29 or 32 flowing .06 to .08 ft³/sec. at 6,270 mg/l T.D.S.
- b) Well in T29N, R9W, sec. 18 NWNESW with standing water at 34,000 micromhos specific conductance.
- c) Seep or well in T31N, R20W, sec. 26 NWNWNE with a small flow at 3,440 mg/l T.D.S.

We believe these may be abandoned wells. If you have additional information on these or other wells that may be discharging salty water or have any questions, please contact Jack at 303-247-0247.

Sincerely yours,

W. Martin Roche

ACTING FOR Rick L. Gold
Projects Manager

Attachment



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

January 29, 1987

Mr. David G. Boyer
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Dave:

Herewith is a copy of the Department of the Interior's Progress Report No. 13, "Quality of Water Colorado River Basin." Your attention is invited to the discussion of the San Juan River Unit at pages VII-28 and 29, because some oil industry problems are discussed there.

Best regards,

Sincerely,

A handwritten signature in dark ink, appearing to read "S. E. Reynolds", written over a horizontal line.

S. E. Reynolds
State Engineer

SER:pt
Attachment

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JAN 31 1987
STATE ENGINEER
SANTA FE, N.M.

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TRANSPORTER	OIL	
	GAS	/
OPERATOR	/	
PRODUCTION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

Operator AMOCO PRODUCTION COMPANY		
Address 501 Airport Drive, Farmington, New Mexico 87401		
Reason(s) for filing (Check proper box)		Other (Please explain)
New Well <input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/>	
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>	

If change of ownership give name and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name Candelaria Gas Com	Well No. 1	Pool Name, including Formation Aztec Pictured Cliffs Ext.	Kind of Lease State, Federal or Fee	Lease No. Fee
Location Unit Letter <u>K</u> ; <u>1730</u> Feet From The <u>South</u> Line and <u>625</u> Feet From The <u>West</u> Line of Section <u>18</u> Township <u>29N</u> Range <u>9W</u> , NMPM, <u>San Juan</u> County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
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 Company	Box 990, Farmington, New Mexico 87401
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Pge. Is gas actually connected? When
	No

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'tv.	Diff. Res'tv.
		X	X					
Date Spudded 12-21-73	Date Compl. Ready to Prod. 1-17-73	Total Depth 2185'	P.B.T.D. 2131'					
Perforations (DF, RKB, RT, CR, etc.) 556' Gr., 5568' KB	Name of Producing Formation Pictured Cliffs	Top Oil/Gas Pay 1970'	Tubing Depth 2042'					
Perforations Perf 1972-78' & 1998-2019' w/1 SPF			Depth Casing Shoe 2166'					

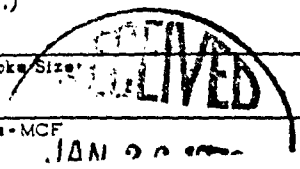
TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12-1/4"	8-5/8"	216'	200 sx
6-3/4"	4-1/2"	2166'	475 sx
	1.66" OD	2042'	

TEST DATA AND REQUEST FOR ALLOWABLE 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)

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

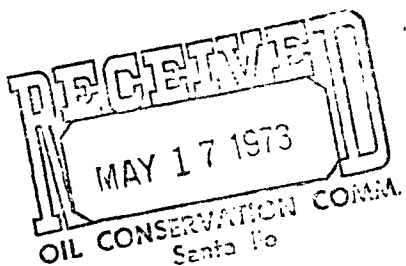


EL PASO NATURAL GAS COMPANY
POST OFFICE BOX 990
FARMINGTON, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE May 10, 1973

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

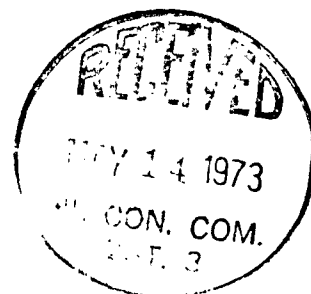
GAS FROM Amoco Production Company Candelaria Gas Com. #1
Operator Well Name87-602-01 11878-8 "K" 18-29-9
Meter Code Site Code Well Unit S-T-RAztec Pictured Cliff
PoolEl Paso Natural Gas Company
Name of PurchaserWAS MADE ON April 30, 1973,
DateFIRST DELIVERY May 8, 1973
DateAOF 1,432CHOKE 1,056El Paso Natural Gas Company
Purchaser

Original Signed By W. M. Rodgers

Representative

Chief Dispatcher
Titlecc: Operator Farmington & Denver
Oil Conservation Commission - 2
Proration - El Paso

File



5-24-73-29

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SANTA FE	1
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U.S.G.S.	
LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fed. <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

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 "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER- 2. Name of Operator AMOCO PRODUCTION COMPANY 3. Address of Operator 501 Airport Drive, Farmington, New Mexico 87401 4. Location of Well UNIT LETTER K, 1730 FEET FROM THE South LINE AND 625 FEET FROM THE West LINE, SECTION 18 TOWNSHIP 29N RANGE 9W NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) 5552' ungraded Gr.	7. Unit Agreement Name 8. Farm or Lease Name Candelaria Gas Com 9. Well No. 1 10. Field and Pool, or Wildcat Aztec Pictured Cliffs Fr. 12. County San Juan
--	--

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>

SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Set 4-1/2" casing

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

On December 29, 1972, the 4-1/2" casing was set at 2166' with 400 sacks Class "C" 50-50 Pozmix with 6% Gel and 2 pounds Tuf Plug per sack with 75 sacks "C" Neat. The cement circulated.



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

SIGNED J. Arnold Smith TITLE Area Engineer DATE December 29, 1972
APPROVED BY Emmy C. Currier TITLE SUPERVISOR DIST. #3 DATE JAN 1 1973
CONDITIONS OF APPROVAL IF ANY:

NO. OF COPIES RECEIVED	5
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SANTA FE	1
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LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

30-045-21147
Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		8. Farm or Lease Name Candelaria Gas Com	
2. Name of Operator AMOCO PRODUCTION COMPANY		9. Well No. 1	
3. Address of Operator 501 Airport Drive, Farmington, New Mexico		10. Field and Pool, or Wildcat Aztec Pictured Cliffs	
4. Location of Well UNIT LETTER <u>K</u> LOCATED <u>1730</u> FEET FROM THE <u>South</u> LINE AND <u>625</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>18</u> TWP. <u>29N</u> RGE. <u>9W</u> NMPM		12. County San Juan	
19. Proposed Depth 2200'		19A. Formation Pictured Cliffs	
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 5552' ungraded Gr.	
21A. Kind & Status Plug. Bond Statewide		21B. Drilling Contractor Aztec Well Service	
22. Approx. Date Work will start December 1972			

PROPOSED CASING AND CEMENT PROGRAM

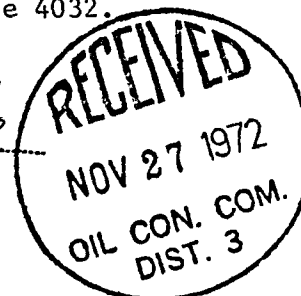
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	200'	200	Surface
6-3/4"	4-1/2"	9.5#	2200'	400	Surface

Well will be drilled with rotary tools and mud to a depth of 2200'. Casing will be run and cemented as above. Open hole logs will be run to determine completion procedure. Copies of Well Location and Dedication Plat are attached. Copies of logs will be submitted upon completion.

Non-Standard Unit of 169.34 acres approved by NMOCC Order R-3609, Lease 4032.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 2-26-73



Lots 2, 3 & 4 & E/2 SW Sec 18

& Lot 1 & NE NW Sec 19 - 29N-9W

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Area Superintendent Date November 22, 1972

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DIST. #3 DATE NOV 27 1972

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION CO. INC.
WELL LOCATION AND ACREAGE DECISION PLAT

All distances must be from the outer boundary of the section.

Amoco Production Company		Candelaria Gas Com		1
Section K	18	Township 29N	Range 9W	County San Juan

1. The Role of the State in the Development of Weil:

1730	from the South	Line and	625	from the West	Line
5542	ungraded	Producing Formation	Pool	Aztec	Pictured Cliffs
		Pictured Cliffs			169.30

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.) _____

To the extent will be assigned to the well until all interests have been consolidated (by communization, unitization, free pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Board.

A map showing sections 18 and 19. Section 18 is labeled "Sec 18" and contains a small rectangular area labeled "600" and "1". Section 19 is labeled "Sec 19" and contains a small rectangular area labeled "600" and "Cor.". A dashed horizontal line runs across the middle of the map.

CERTIFICATION

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

Name

L. O. Spear, Jr.

Position.

Area Superintendent

Company

AMOCO PRODUCTION COMPANY

November 22, 1972

I hereby certify that the well location shown on this plat was plotted with the same care as all other 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 30.07.2004

November 9, 1942

NMOCD *Angie*

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

DISTRIBUTION	
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TRANSPORTER	OIL GAS
OPERATION	
PERMITS OFFICE	

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MAY 26 1982

FARMINGTON
DIST. CT

Amoco Production Company

Address

501 Airport Drive, Farmington, NM 87401

Reason(s) for filing (Check proper box)

New Well ☐

Recompletion ☐

Change in Ownership ☐

Change in Transporter of:

Oil ☐

Casinghead Gas ☐

Dry Gas ☐

Condensate ☒

Other (Please explain)

DDM

If change of ownership give name
and address of previous owner

WF

DESCRIPTION OF WELL AND LEASE

Lease Name Valencia Gas Com "B"	Well No. 1M	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Fee	Lease
Location				
Unit Letter K : 1670 Feet From The South Line and 1560 Feet From The West				
Line of Section 18 Township 29N Range 9W , NMPM, San Juan Co				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	
Gary Energy Corp.	El Paso Natural Gas Company	
Address (Give address to which approved copy of this form is to be sent) P. O. Box 489 Bloomfield, NM 87413		Address (Give address to which approved copy of this form is to be sent) P. O. Box 990, Farmington, NM 87401
If well produces oil or liquids, give location of tanks.	Unit K	Sec. 18
	Twp. 29N	Rte. 9W
Is gas actually connected?		When

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.
		X	X					
Date Logged 12-17-81	Date Compl. Ready to Prod. 3-26-82	Total Depth 6552'		P.B.T.D. 6494'				
Elevations (D, RT, CR, etc.) 5537' GL	Name of Producing Formation Dakota.	Top Oil/Gas Pay 6338'		Tubing Depth 6432'				
Perforations 6338'-6346', 6396'-6408', 6412'-6426', 6456'-6458'				Depth Casing Shoe 6552'				

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	410'	810 sx
12-1/4"	9-5/8"	2404'	600 sx
8-3/4"	7"	6552'	880 sx
	2-3/8"	6432'	

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 24 hours for this depth or be for full 24 hours)

Date First New Oil Ran 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
2549	3 hours		
Testing Method (print, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-103
Revised 10-1-78

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OPERATOR	

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>

5. State Oil & Gas Lease No.

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 "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL ☐ GAS WELL ☒ OTHER ☐

Name of Operator

Amoco Production Company

Address of Operator

501 Airport Dr., Farmington, NM 87401

Location of Well

UNIT LETTER K 1670 FEET FROM THE South LINE AND 1560 FEET FROM
THE West LINE, SECTION 18 TOWNSHIP 29N RANGE 9W NMPM.

7. Unit Agreement Name

8. Farm or Lease Name

Valencia Gas Com "B"

9. Well No.

1M

10. Field and Pool, or Wildcat

Basin Dakota/Blanco MV

15. Elevation (Show whether DF, RT, GR, etc.)

5537' GL

12. County

San Juan

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐PLUG AND ABANDON ☐REMEDIAL WORK ☐ALTERING CASING ☐TEMPORARILY ABANDON ☐COMMENCE DRILLING OPNS. ☐PLUG AND ABANDONMENT ☐PULL OR ALTER CASING ☐CHANGE PLANS ☐CASING TEST AND CEMENT JOB ☐OTHER Completion Operations ☒OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Completion operations commenced on 3-1-82. Total depth of the well is 6552' and the new plugback depth is 6494'. Perforated intervals from 6456'-6458' with 4 spf, 6412'-6426', 6396'-6408' with 2 spf, a total of 84 .5" holes. Perforated intervals 6338'-6346' (next day due to misfire problems) with 2 spf, a total of 16 .5" holes. Fraced the Dakota interval with 92,000 gallons of frac fluid and 288,000 pounds of 20-40 sand. Perforated Mesaverde intervals from 4327'-4328' with 4 spf, a total of 4 .5" holes. Cemented with 243 sx class "B" neat cement. Perforated Mesaverde intervals from 3664'-3665' with 4 spf, a total of 4 .5" holes and squeezed off with 200 sx Class "B" neat cement. Perforated Mesaverde intervals from 4270'-4278', 4290'-4296', 4305'-4312', 4320'-4328' with 2 spf, a total of 58 .5" holes. Fraced Mesaverde intervals 4270'-4328' with 51,000 gallons of frac fluid and 73,000 pounds of 20-40 sand. Perforated intervals 3664'-3674', 3688'-3700', 3710'-3732', 3736'-3746', 3786'-3794', 3884'-3892', 3918'-3926' with 2 spf, a total of 156 .5" holes. Frac Mesaverde intervals 3926'-3664' with 137,000 gallons of frac fluid and 196,000 pounds of 20-40 sand. Landed 2-3/8" Dakota tubing at 6432' and 2-1/16" Mesaverde tubing at 4318'. Released the rig on 3-26-82.

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

SIGNED E. E. LawsonTITLE Dist. Admin. Supvr.DATE 4/14/82

SUPERVISOR DISTRICT #3

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

APR 19 1982

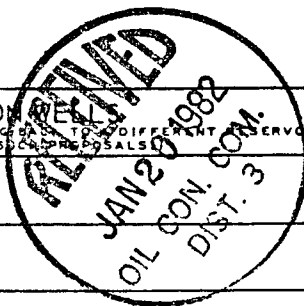
OIL CONSERVATION DIVISION

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

Form C-103
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
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LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease	
State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name	
Valencia Gas Com "B"	
9. Well No.	
1M	
10. Field and Pool, or Wildcat	
Basin Dakota/Blanco MV	
12. County	
San Juan	



SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A WELL IN A DIFFERENT RESERVOIR.
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS)

OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
1. Name of Operator		
Amoco Production Company		
2. Address of Operator		
501 Airport Drive, Farmington, NM 87401		
3. Location of Well		
UNIT LETTER <u>K</u>	<u>1670</u> FEET FROM THE <u>South</u> LINE AND <u>1560</u> FEET FROM	
THE <u>West</u> LINE, SECTION <u>18</u>	TOWNSHIP <u>29N</u>	RANGE <u>9W</u> NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)

5537' G.L.

12. County
San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Spud and Set Casing</u> <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Spudded a 17-1/2" hole on 12-17-81 and drilled to 410'. Set 13-3/8" 48 pound surface casing at 410' on 12-19-81, and cemented with 810 sx of Class "B" neat cement containing 2% CaCl₂. Circulated 35 sacks of cement to the surface. Drilled a 12-1/4" hole to 2405'. Set 9-5/8" 32.30 pound intermediate casing at 2404' on 2-27-81, and cemented with 500 sx of Class "B" neat cement containing 65:35 POZ, 6% gel, 2 pound medium tuf plug per sack, and .8% fluid loss additive. This was tailed in 100 sx of Class "B" neat cement. Drilled a 8-3/4" hole to a TD of 6552'. Set 7" 26 pound production casing at 6552' on 1-10-82, and cemented in two stages as follows:

1) Cement with 240 sx of Class "B" neat cement containing 50:50 POZ, 6% gel, 2 pound medium tuf plug per sack, and .8% fluid loss additive. This was tailed in with 100 sx of Class "B" neat cement.

2) Cement with 440 sx of Class "B" neat cement containing 65:35 POZ, 6% gel, 2 pound medium tuf plug per sack, and .8% fluid loss additive. This was tailed in with 100 sx of Class "B" neat cement. No cement was circulated to the surface. Cement top is 750' below the surface.

The DV tool was set at 4417'.

The rig was released on 1-10-82.

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

SIGNED [Signature] TITLE Dist. Admin. Supvr. DATE JAN 13 1982

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT #3 DATE JAN 20 1982

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

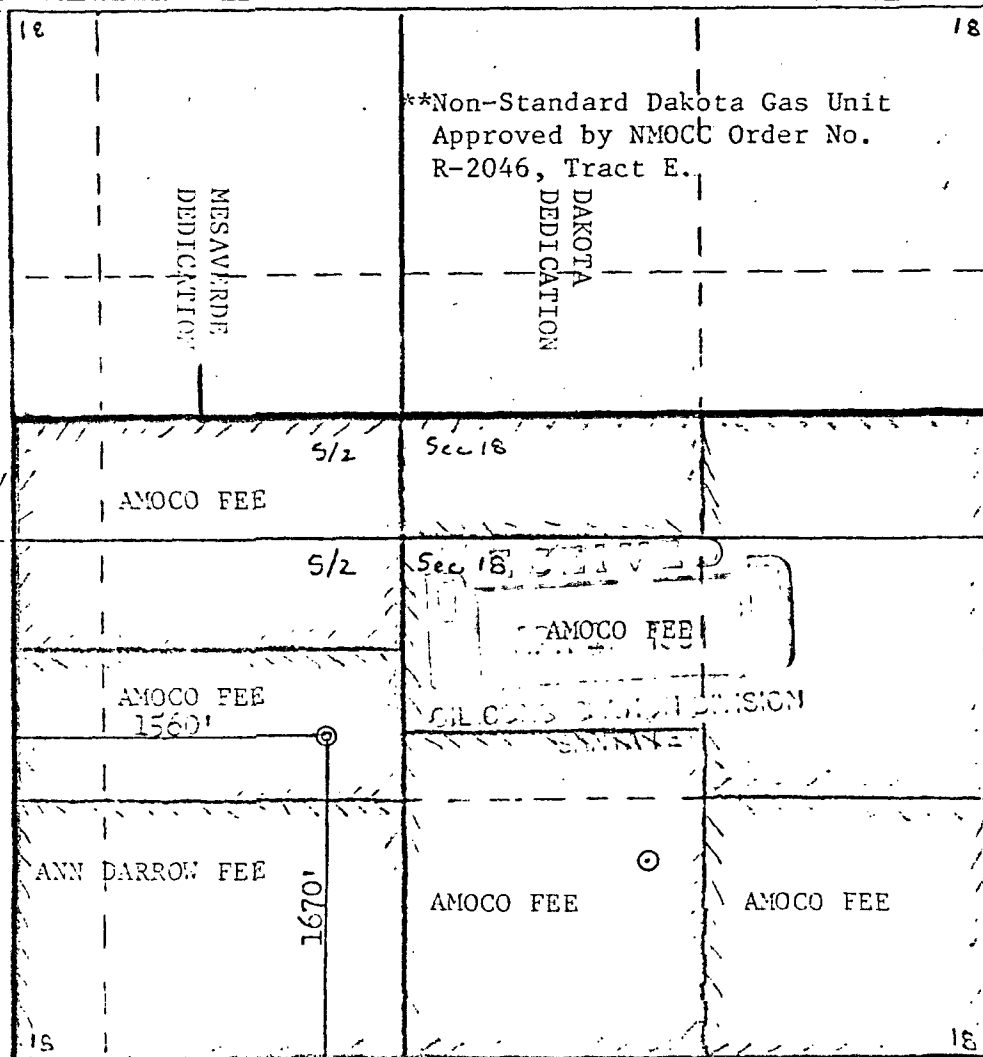
Operator AMOCO PRODUCTION COMPANY			Lease VALENCIA GAS COM "B"		Well No. 1M
Unit Letter K	Section 18	Township 29N	Range 9W	County San Juan	
Actual Footage Location of Wells: 1670 feet from the South line and 1560 feet from the West line					
Ground Level Elev: 5537	Producing Formation Dakota / Mesaverde		Pool Basin Dakota/Blanco Mesaverde	Dedicated Acreage: 330.98/330.98 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 Communitization

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.

Wayne L. Peterson

Name
W. L. PETERSON
Position
DISTRICT ENGINEER
Company
AMOCO PRODUCTION COMPANY
Date
3/23/81

MAR 26 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.

Date Surveyed
March 19, 1981
Registered Professional Engineer and Land Surveyor
Fred R. [Signature]
Certificate No. **3950**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on reverse side)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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole	5. LEASE DESIGNATION AND SERIAL NO. 14-20-0503-9802
2. NAME OF OPERATOR Mesa Petroleum Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR Box 234, Farmington, N. M.	7. UNIT AGREEMENT NAME Navajo 32
4. LOCATION OF WELL (Report location clearly, and in accordance with any State requirements.* See also space 17 below.) At surface 600' fs1 1980' fw1	8. FARM OR LEASE NAME Navajo 32
	9. WELL NO. 1
	10. FIELD AND POOL, OR WILDCAT Wildcat
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T32N, R12W
14. PERMIT NO.	12. COUNTY OR PARISH 13. STATE San Juan N. M.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5094' Gr.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

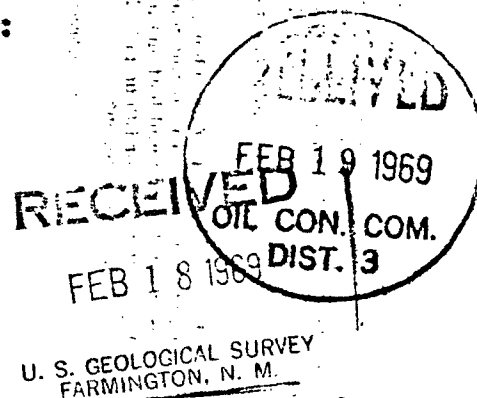
WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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 plugged and abandoned in the following manner:

1. Spotted 30 sx. cement 6700' to 6800'.
2. Spotted 30 sx. cement 6300' to 6400'.
3. Spotted 30 sx. cement 3500' to 3600'.
4. Spotted 30 sx. cement 2600' to 2700'.
5. Spotted 90 sx. cement 600' to 750'.
6. 10 sx. surface plug.
7. Erected dry hole marker ~~N.M.~~ and cleaned up location.



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

SIGNED Original signed by T. A. Dugan TITLE EngineerDATE 2/17/69

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-9802

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo 32

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA

/Sec. 32, T32N, R19W

12. COUNTY OR PARISH 13. STATE

San Juan

N. M.

1. OIL WELL ☐ GAS WELL ☐ OTHER **Dry Hole**

2. NAME OF OPERATOR

Mesa Petroleum Company

3. ADDRESS OF OPERATOR

Box 234, Farmington, N. M.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

600' fs1 1950' fw1

14. PERMIT NO.

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

5094' Gr.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

Propose to plug and abandon this well as follows:

1. Spot 30 sx. cement 6700' - 6800'.
2. Spot 30 sx. cement 6300' - 6400'.
3. Spot 30 sx. cement 3500' - 3600'.
4. Spot 30 sx. cement 2600' - 2700'.
6. Spot 90 sx. cement 600' - 750'.
6. 10 sx. cement surface plug.

Erect dry hole marker and clean up location.



RECEIVED

DEC 24 1968

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

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

SIGNED

Original signed by T. A. Dugan

TITLE

Engineer

DATE

12/20/68

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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 ☐ GAS WELL ☐ DRY ☒ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Mesa Petroleum Company

3. ADDRESS OF OPERATOR

Box 234, Farmington, N. M.

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

At surface

At top prod. interval reported below

660' fsl 1980' fwl

At total depth

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

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH

13. STATE

San Juan

N. M.

15. DATE SPUNDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

11/20/69

12/19/69

P & A 12/20/69

5094' Gr.

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

6670'

P & A

→

0-6870'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL
SURVEY MADE.

P & A

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

Schlumberger IES & Density

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	43#	102'	17 3/4"	225 sx.	None

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		None				None	

31. PERFORATION RECORD (Interval, size and number)

None

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

None

FEB 19 1969

OIL CON. COM.
DIST. 3

33.* PRODUCTION

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or
shut-in)

None

P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

Original signed by T. A. Dugan

Engineer

SIGNED

TITLE

DATE

2/17/69

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

INSTRUCTIONS

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 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.

Item 29: "Sucks 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.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
<u>LOG TOPS</u>		
Greenhorn	510'	
Graneros	575'	
Dakota	618'	
Norrison	756'	
Chinle	2664'	
De Chelly	3565'	
Organ Rock	3832'	
Honoker Trail	5311'	
Ismay	6124'	
Desert Creek	6242'	
Akai	6435'	
Barker Creek	6705'	
Pinkerton Trail	6810'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on re-
verse side)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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. 11-20-403-902	
2. NAME OF OPERATOR KavaJo		6. IF INDIAN, ALLOTTEE OR TRIBE NAME KavaJo	
3. ADDRESS OF OPERATOR 1000 1/2, Farmington, N. M.		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 500' 1st 1380' 2nd		8. FARM OR LEASE NAME KavaJo	
14. PERMIT NO.		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3694' Gr.		10. FIELD AND POOL, OR WILDCAT KavaJo	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 32, T32N, R10E	
		12. COUNTY OR PARISH San Juan	
		13. STATE N. M.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

- Spud 7 A.M., 11/20/68, drilled 17 3/4" hole to 188', ran 6 jts. 13 3/8" O.D., 401, 31 ST&C csg. set at 182' and cemented with 225 sx. Class "A" 2% Cacl. P.O.B. 5 A.M., 11/21/68 - good cement returns to surface.
- Drilled 11" hole to 2717'. Encountered small amount water at 2615'.
- Reduced hole to 7 7/8" - drilled to total depth of 5780'.
- Ran D.S.T. #1, 6370' - 6395'. G.T.S. in 5 min. - gas gauged 45 MCF at end of test. Recovered 210' gas cut and. I.H. 3145 psi - I.F. 80 psi - I.S.I. 1517 psi - F.F. 80 psi - F.S.I. 1597 psi - F.H. 3145 psi.
- Ran D.S.T. #2, 6750' - 6870' - weak blow throughout test. Recovered 100' black sulfur water and mud emulsion. I.H. 3412 psi - I.F. 107 psi - I.S.I. 1932 psi - F.F. 161 psi - F.S.I. 886 psi - F.H. 3412 psi.

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

SIGNED Original signed by T. A. Dagen

TITLE

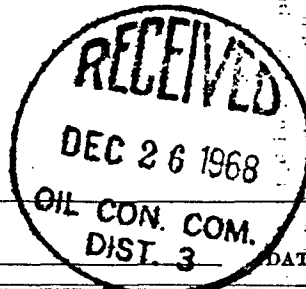
Engineer

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



DATE

DEC 24 1968

*See Instructions on Reverse Side

U.S. GEOLOGICAL SURVEY

9-351
(May 1963)SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.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 Company

3. ADDRESS OF OPERATOR

Box 234, Farmington, N. M. 87401

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

At surface

At proposed prod. zone

660' fsl 1980' fwl

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

12 miles north - northeast Shiprock, N. M.

15. DISTANCE FROM PROPOSED*

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

660'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

6900'

20. ROTARY OR CABLE TOOLS,

Rotary

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

5374' Gr.

22. APPROX. DATE WORK WILL START*

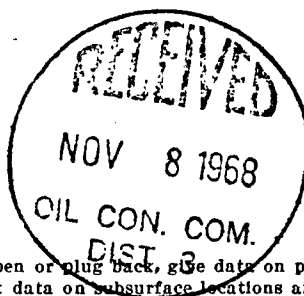
11/15/68

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8"	43#	180'	200 SX.
11"	8 5/8"	24#	2200'	500 SX.
7 7/8"	4 1/2"	10.5#	6900'	750 SX.

Mesa plans to drill 11" hole through the Entrada formation. If large water flow is encountered, we plan to set 8 5/8" csg. If water flow is not encountered we will not set 8 5/8" csg., but reduce size of hole to 7 7/8" and drill well to T.D. Mesa will drill-stem test the Desert Creek formation and if commercial production is found, run 4 1/2" csg., perf. and complete well.



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NOV 7 1968

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

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 Original signed by T. A. Dugan

TITLE Engineer

DATE 11/6/68

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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

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

All distances must be from the outer boundaries of the section

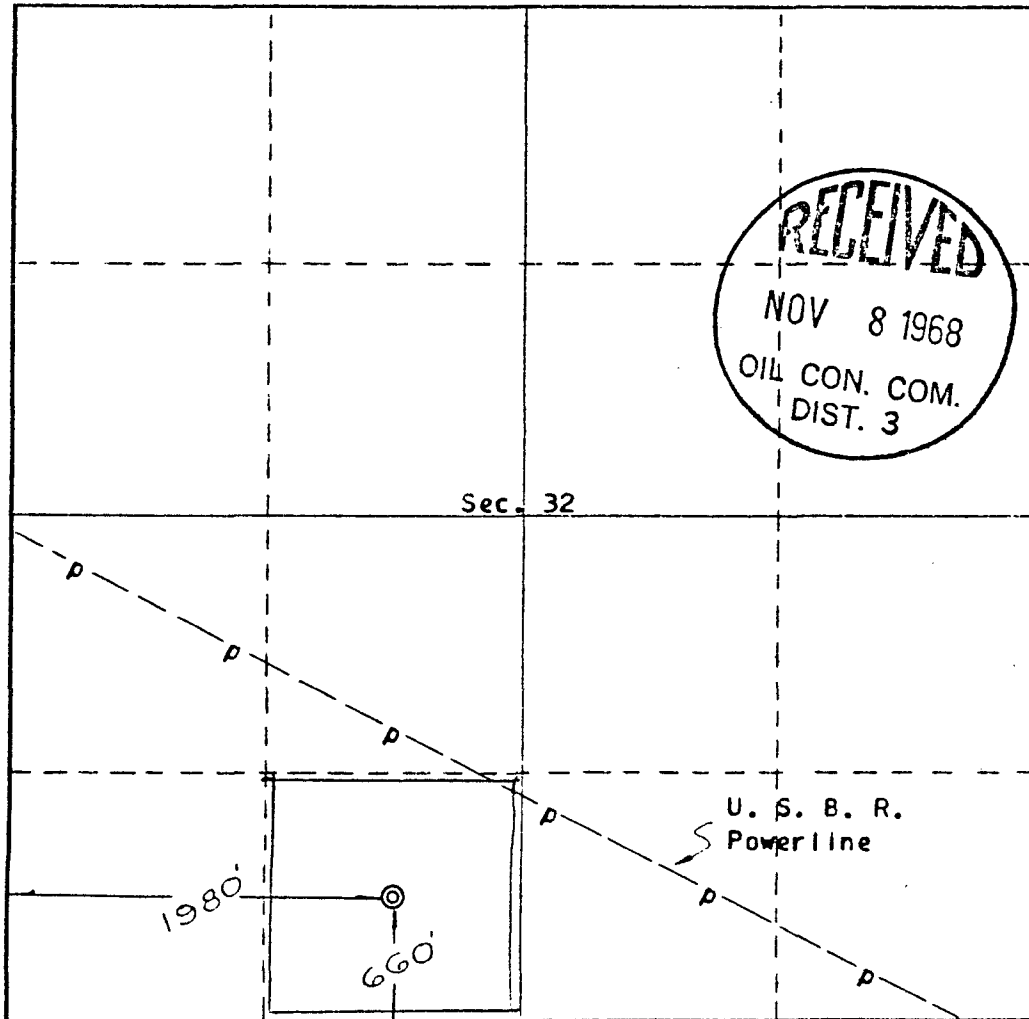
Operator MESA PETROLEUM CO.			Lease Navajo 8-2		Well No. 1-33
Unit Letter N	Section 32	Township 32 North	Range 19 West	County San Juan	
Actual Footage Location of Well: 660 feet from the South line and 1980 feet from the West line					
Ground Level Elev. 5094, ungr.	Producing Formation Pennsylvanian Desert Creek	Pool Wildcat	Dedicated Acreage: 40 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.

Original signed by T. A. Dugan

Name Thomas A. Dugan
Position Engineer
Company Mesa Petroleum Co.
Date 11/6/68

<p>I hereby certify that the well location shown on this plan 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.</p>
--

Date Surveyed October 9, 1968
Registered Professional Engineer and/or Land Surveyor

E. A. Edwards
Certificate No. **3602**

