

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency

Jicarilla Tribal

Allottee

Lease No. Jicarilla Tribal
Contract 146

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Jicarilla Contract 146

Farmington, New Mexico July 10, 19 61

Well No. 13 is located 1650 ft. from S line and 1590 ft. from E line of Section 9

NW/4 SE/4 of Section 9 T-25-N R-7-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Dakota Rio Arriba
(Field) (County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is ft. (To be reported later)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill Jicarilla Contract 146 No. 13 to an approximate total depth of 7500' with rotary tools to evaluate Dakota prospects. Stimulation and completion will be as indicated upon reaching total depth. The following casing program is proposed:

SIZE	DEPTH	CEMENT	REMARKS
8-5/8"	300'	400 sacks	Test - Circulate
4-1/2"	7500'	875 sacks	Production string will be cemented by 2-stage method with stage tool set about 100' below

base of Chaco. First stage will have sufficient cement to fill 300-500' above top of Gallup. Second stage will have sufficient cement to fill 300' above top of Pictured Cliffs. A copy of any survey taken will be submitted upon completion of well. Copies of location plat attached.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address P. O. Box 400
Farmington, New Mexico
Attn: L. O. Spear, Jr.

ORIGINAL SIGNED BY
R. M. Bauer, Jr.

By
Title Senior Petroleum Engineer

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Average Dedication Plat

Date _____

Section A.

Operator **PAN AMERICAN PETROLEUM CORPORATION** Lease **JICARILLA CONTRACT 146**
 Well No. **13** Unit Letter **J** Section **9** Township **25 NORTH** Range **5 WEST**, N8W1E
 Located **1650** Feet From **the SOUTH** Line **1550** Feet From **the EAST** Line
 County **MIO ARRIBA** G. L. Elevation to Report **Water** Dedicated Average **320** Acres
 Name of Producing Formation **Galata** Pool **Basin Dakota**

1. Is the Operator the only owner in the dedicated average within the plat below?
 Yes ☐ No ☐
2. If the answer to question one is "No", give the names of all owners who have been involved by communication, agreement or otherwise? Yes ☐ No ☐ If answer is "Yes", Type of Consolidation:
3. If the answer to question two is "No", list all owners and their respective interests below:

Owner

Land Description



Section B.

Note: All distances must be from outer boundaries of section.

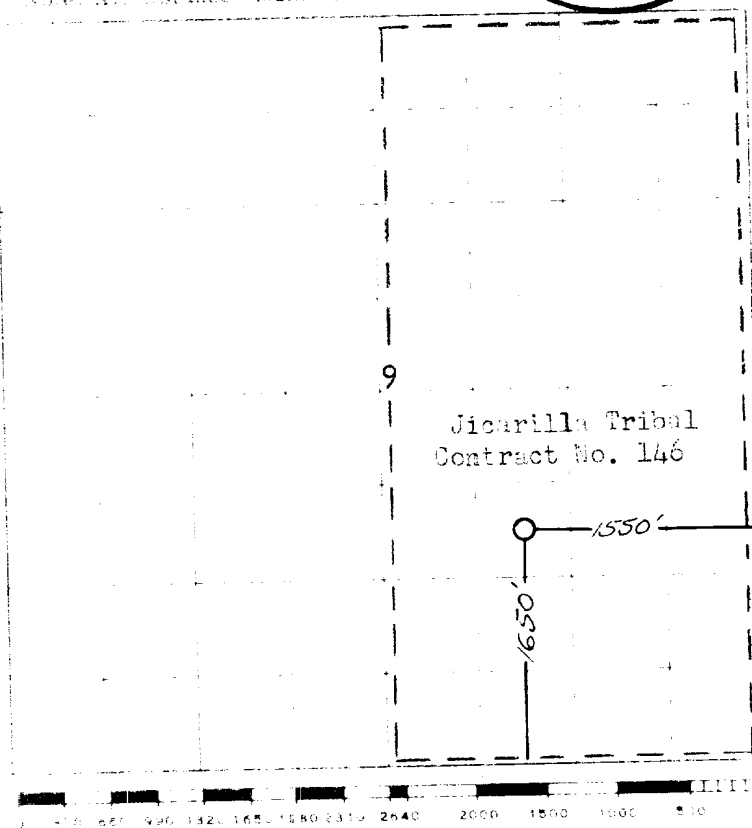
This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Pan American Petroleum Corp.
 (Operator)

R. L. Bauer, Jr. *R. L. Bauer Jr.*
 (Representative)

Box 470, Farmington, New Mexico
 (Address)

Ref: GLO plat dated 4 November 1882



Scale 1 inch = equal 1 mile

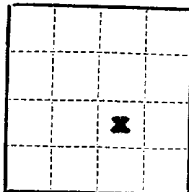
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed: **5 July 1961**

James P. Leese
 Registered Professional Engineer and/or Land Surveyor
James P. Leese N. Mex. Reg. No. **1463**
San Juan Engineering Company

(Seal)

Farmington, New Mexico



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Jicarilla Tribal

Allottee _____

Lease No. **Jicarilla Tribal**
Contract 146

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF 8-5/8"	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Jicarilla Contract 146

Farmington, New Mexico August 2, 1961

Well No. **13** is located **1650** ft. from **SW** line and **1550** ft. from **E** line of sec. **9**

NW/4 SE/4 of Section 9 T-25-N R-5-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Basin Dakota Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **6761** ft. (RDB)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 12-1/4" hole July 19, 1961. Set 8-5/8" casing at 503' with 375 sacks cement. Circulated Cement. Tested casing with 500 psi for 20 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 503'. Resumed drilling operations.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Pan American Petroleum Corporation**

Address **P. O. Box 480**

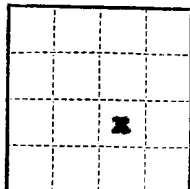
Farmington, New Mexico

Attn: **L. O. Speer, Jr.**

ORIGINAL SIGNED BY

By **R. M. Bauer, Jr.**

Title **Senior Petroleum Engineer**



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Jicarilla Tribal
Allottee Jicarilla Tribal
Lease No. Contract 146

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	4-1/2" <input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

RECEIVED
AUG 15 1961

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Jicarilla Contract 146

Farmington, New Mexico

U. S. GEOLOGICAL SURVEY
August 11, 1961

Well No. 13 is located 1650 ft. from [S] line and 1550 ft. from [E] line of sec.

NW/4 SE/4 of Section 9 T-25-N R-5-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Basin Dakota

Rio Arriba

New Mexico

(Field)

(County or Subdivision)

(State or Territory)

AUG 16 1961

OIL CON. COM.
DIST. 3

The elevation of the derrick floor above sea level is 6761 ft. (RDS)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 4-1/2" casing at 7295' with DV tool at 3999'. First stage cemented with 350 sacks containing 6 percent gel and 1-1/2 pounds medium Taf Plug per sack with 100 sacks neat cement on bottom. Tested casing with 3900 psi for 15 minutes, which held with no indication of pressure drop. Waited on cement 4 hours. Second stage cemented with 350 sacks containing 6 percent gel. Tested casing with 3000 psi for 15 minutes, which held with no indication of pressure drop. Resumed drilling operations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address P. O. Box 480

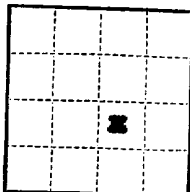
Farmington, New Mexico

Attn: L. O. Speer, Jr.

ORIGINAL SIGNED BY

By L. O. Speer, Jr.

Title Area Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Jicarilla Tribal
Allottee Jicarilla Tribal
Lease No. Contract 146

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
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NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Jicarilla Contract 146

Farmington, New Mexico August 29, 1961

Well No. 13 is located 1650 ft. from SW line and 1550 ft. from E line of sec. 9

NE 1/4 SE 1/4 of Section 9 T-25-N R-5-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Badin Dakota Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

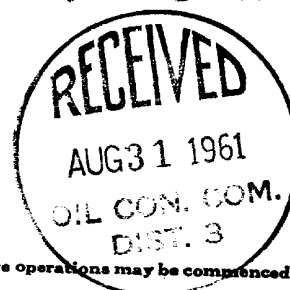
The elevation of the derrick floor above sea level is 6761 ft. (RDB)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

Total depth 7295', plug back depth 7256'. Run correlation log and perforated Graneros with 6 shots per foot 7191-7196' and 7210-7215'. Fracked with 33,700 gallons water containing 1 percent Calcium Chloride and 5 pounds Halliburton WB-4 per 1000 gallons and 30,000 pounds sand. Pressures were: breakdown 2100-1900 psi; maximum treating 3000 psi; minimum treating 2050 psi; average 2950 psi. Average injection rate 26 barrels per minute.

Potential test to be reported on final log.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

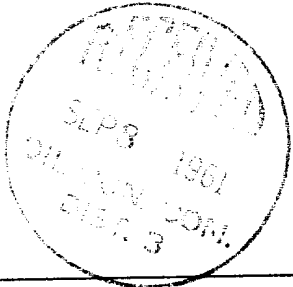
Address P. O. Box 400

Farmington, New Mexico

Attn: L. O. Spear, Jr.

ORIGINAL SIGNED BY
By R. M. Bauer, Jr.

Title Senior Petroleum Engineer

NUMBER OF COPIES RECEIVED DISTRIBUTION		NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO		FORM C-110 (Rev. 7-60)
CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS		FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE		
Company or Operator Pan American Petroleum Corporation		Lease Jicarilla Contract 146		Well No. 13
Unit Letter J	Section 9	Township T-25-N	Range R-5-W	County Rio Arriba
Pool Basin Dakota			Kind of Lease (State, Fed Fee) Federal	
If well produces oil or condensate give location of tanks		Unit Letter J	Section 9	Township T-25-N
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)		
Plateau, Inc.		Box 567, Bloomfield, New Mexico		
Is Gas Actually Connected? Yes _____ No _____				
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input checked="" type="checkbox"/>		Date Connected	Address (give address to which approved copy of this form is to be sent)	
El Paso Natural Gas Company			Box 990, Farmington, New Mexico	
If gas is not being sold, give reasons and also explain its present disposition:				
REASON(S) FOR FILING (please check proper box)				
New Well <input checked="" type="checkbox"/> Change in Ownership <input type="checkbox"/> Change in Transporter (check one) Other (explain below) _____ Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Casing head gas <input type="checkbox"/> Condensate <input type="checkbox"/>				
				
Remarks Completed September 5, 1961, as shut in Basin Dakota Field Gas Well.				
The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.				
Executed this the 7th day of September , 19 61 .				
OIL CONSERVATION COMMISSION		By		
Approved by Original Signed Emory C. Arnold		ORIGINAL SIGNED BY L. O. SPEER		
Title		Title Administrative Clerk		
Date		Company Pan American Petroleum Corporation		
Date		Address Box 480, Farmington, New Mexico Attn: L. O. Speer, Jr.		

NUMBER OF COPIES RECEIVED		4
DISTRIBUTION		
SANTA FE		
FILE		
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
PRODUCTION OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR ~~WELL~~ - (GAS) ALLOWABLE

New Well
~~RECOMPLETION~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.023 bara at 60° Fahrenheit.

Farmington, New Mexico September 7, 1961
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:
Pan American Petroleum Corporation-Jicarilla Contract, Well No. 13, in NW 1/4 SE 1/4,
(Company or Operator)
J, Sec. 9, T. 25N, R. 5W, NMPM, Basin Dakota Pool
Unit Letter
Rio Arriba

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

County: Date Spudded: July 19, 1961 Date Drilling Completed: August 7, 1961
Elevation: 6749' (GL) Total Depth: 7295' PBID: 7256'
Top Oil/Gas Pay: 7171' Name of Prod. Form: Dakota

PRODUCING INTERVAL - Perforated Graneros with 6 shots per foot
7191-7196' and 7210-7215'.

Perforations: Open Hole: - - Depth: 7295' Depth Tubing: 7190'

OIL WELL TEST -

Natural Prod. Test: bbls. oil, bbls. water in hrs, min. Choke Size
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): bbls. oil, bbls. water in hrs, min. Choke Size

GAS WELL TEST -

Natural Prod. Test: MCF/Day; Hours flowed
Method of Testing (pitot, back pressure, etc.):

Test After Acid or Fracture Treatment: 1400 MCF/Day; Hours flowed 3 hours
Choke Size 3/4" Method of Testing: Pitot Tube Measurement

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 33,700 gallons water and 30,000 pounds sand. (300 gallons MCA)

Casing Tubing Date first new Press. oil run to tanks

Oil Transporter: Plateau, Inc.

Gas Transporter: El Paso Natural Gas Company

Remarks: Completed September 5, 1961, as Shut In Basin Dakota Field Gas Well. Preliminary test September 5, 1961, flowed 1400 MCF per day, tubing pressure flowing 120 psi, casing pressure flowing 410 psi.

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

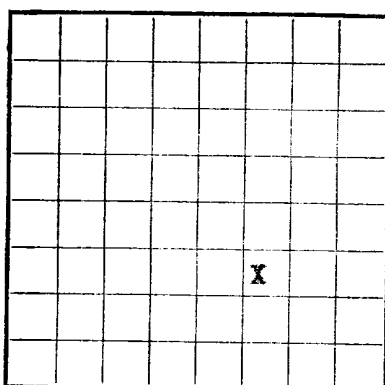
Approved: _____ 19 _____
Pan American Petroleum Corporation
(Company or Operator)

OIL CONSERVATION COMMISSION

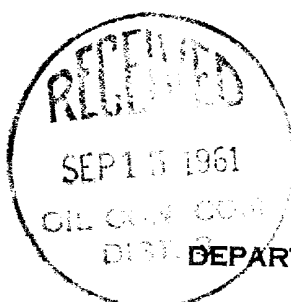
ORIGINAL SIGNED BY
By: L. R. TURNER (Signature)

Title: Administrative Clerk
Send Communications regarding well to:
Name: Pan American Petroleum Corporation
Box 480, Farmington, New Mexico
Address: Attn: L. O. Spear, Jr.

By: _____
Title: _____



LOCATE WELL CORRECTLY



U. S. LAND OFFICE

SERIAL NUMBER Contract 146LEASE OR PERMIT TO PROSPECT
Jicarilla Tribal

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Pan American Petroleum Corporation Address Box 480, Farmington, New MexicoLessor or Tract Jicarilla Contract 146 Field Basin Dakota State New MexicoWell No. 13 Sec. 9 T. 25N R. 5W Meridian N.M.P.M. County Rio ArribaLocation 1650 ft. [N] of 3 Line and 1550 ft. [W] of 2 Line of Section 9 Elevation 6761 RDB

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

ORIGINAL SIGNED BY

R. M. Bauer, Jr.

Date September 11, 1961Title Senior Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling July 19, 1961 Finished drilling September 5, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7191 to 7196 No. 4, from _____ to _____No. 2, from 7210 to 7215 No. 5, from _____ to _____

No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of steel	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8"</u>	<u>22.7#</u>	<u>51</u>	<u>Amoco</u>	<u>2701</u>	<u>Galvne</u>				<u>Surface</u>
<u>4-1/2"</u>	<u>9.5#</u>	<u>8RT</u>	<u>CPGI</u>	<u>7521</u>	<u>Galvne</u>				<u>Oil String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>503'</u>	<u>375</u>	<u>Halliburton</u>	<u>1 plug</u>	
<u>4-1/2"</u>	<u>7295'</u>	<u>600</u>	<u>Halliburton</u>	<u>2 plug</u>	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0' feet to 7295 feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as SI Basin Dakota Field DATESGas well September 5, 1961 Put 300 barrels in waiting on pipeline connection September 5, 1961

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment.

Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 1400 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 1925 (SIDP)

EMPLOYEES

_____, Driller Leon Vestal_____, Driller Stilks Friddy_____, Driller Jerry L. Dooley_____, Driller H. D. Davis

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>2940</u>	<u>2940</u>	<u>Undifferentiated sands and shales</u>
<u>2940</u>	<u>3020</u>	<u>80</u>	<u>Pictured Cliffs sands and shales</u>
<u>3020</u>	<u>3825</u>	<u>805</u>	<u>Lewis shale</u>
<u>3825</u>	<u>3870</u>	<u>45</u>	<u>Chacra sand</u>
<u>3870</u>	<u>4604</u>	<u>734</u>	<u>Lewis shale</u>
<u>4604</u>	<u>5365</u>	<u>761</u>	<u>Menefee shads, shales coals including Cliffhouse and Point Lookout zones.</u>
<u>5365</u>	<u>6205</u>	<u>840</u>	<u>Mancos shale</u>
<u>6205</u>	<u>6750</u>	<u>545</u>	<u>Callup sands and shales</u>
<u>6750</u>	<u>7090</u>	<u>340</u>	<u>Sanastee sands and shales</u>
<u>7090</u>	<u>7170</u>	<u>80</u>	<u>Greenhorn sands and shales</u>
<u>7170</u>	<u>7295</u>	<u>125</u>	<u>Graneros pay sand</u>

(1000 ft. from E log)

		X	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency _____

Jicarilla Tribal

Allottee _____

Lease No. Jicarilla Tribal
Contract 146

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Report of Potential Test</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Jicarilla Contract 146

Farmington, New Mexico September 29, 1961

Well No. 13 is located 1650 ft. from S line and 1550 ft. from E line of sec. 9

NW/4 SE/4 of Section 9 T-25-N R-5-W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Basin Dakota Rio Arriba New Mexico
(Field) (County or Subdivision) (State or Territory)

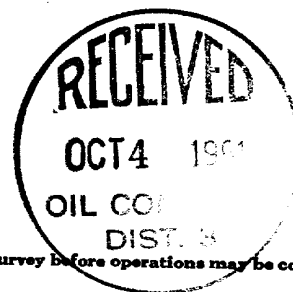
The elevation of the derrick floor above sea level is 6761 ft. (RDS)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This is to report the following potential test:

Potential test September 27, 1961, flowed 1297 MCF per day through 3/4" choke after 3 hours. Absolute open flow potential 1357 MCF per day. Shut in casing pressure after 22 days 1916 psig.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Pan American Petroleum Corporation

Address P. O. Box 480

Farmington, New Mexico

Attn: L. O. Spear, Jr.

ORIGINAL SIGNED BY

By R. M. Bauer, Jr.

Title Senior Petroleum Engineer

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Basin Dakota Formation Dakota County Bio Arriba
Initial X Annual _____ Special _____ Date of Test September 27, 1961
Company Pan American Petroleum Corp. Lease Jicarilla Contract 146 Well No. 13
Unit J Sec. 9 Twp. 25N Rge. 5E Purchaser El Paso Natural Gas Company
Casing 4-1/2" Wt. 9.5 I.D. 4.090 Set at 7295 Perf. 7191-7196 ~~75~~ 7210-7215
Tubing 2-3/8" Wt. 4.7 I.D. 1.995 Set at 7190 Perf. open ended To _____
Gas Pay: From 7190 To 7217 L 7190 xG 0.700 est-GL 5033 Bar.Press. 12
Producing Thru: Casing _____ Tubing X Type Well Single-Gas
Date of Completion: 9-5-61 Packer None Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. 146 F

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Shut-in	22 days				1719		1916		
1.	2 inch	3/4 inch	126		60 est	101	60 est	454	50 est	3 hrs
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		138	1.000	0.9258	1.015	1297
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1928 P_c 3,717,184

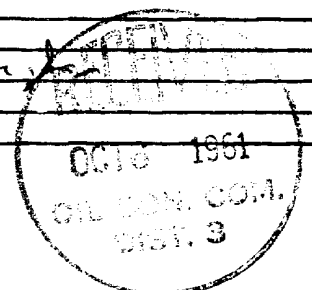
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.						217,156	3,500,028		
2.									
3.									
4.									
5.									

Absolute Potential: 1357 MCFPD; n 0.75COMPANY Pan American Petroleum CorporationADDRESS Box 480, Farmington, New MexicoAGENT and TITLE R. H. Bauer, Jr. Senior Petroleum Engineer

WITNESSED _____

COMPANY _____

REMARKS _____



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressability factor.
- n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

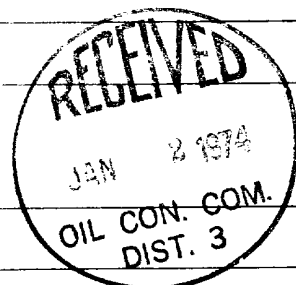
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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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

If change of ownership give name
and address of previous owner



II. DESCRIPTION OF WELL AND LEASE

Lease Name Jicarilla Contract 146	Well No. 13	Pool Name, including Formation Basin Dakota	Kind of Lease State, Federal or Fee Federal	Lease No. Jic. Contract 146
Location Unit Letter J 1650 Feet From The South Line and 1550 Feet From The East Line of Section 9 Township 25N Range 5W , NMPM, Rio Arriba 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"/> Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 108, Farmington, New Mexico 87401	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corporation	Address (Give address to which approved copy of this form is to be sent) 501 Airport Drive, Farmington, New Mexico 87401	
If well produces oil or liquids, give location of tanks.	Unit J	Sec. 9
	Twp. 25N	Rge. 5W
	Is gas actually connected? Yes	When 1-25-62

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 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
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

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

Original Signed by
G. L. FULTON
(Signature)

Area Administrative Supervisor
(Title)

December 23, 1973
(Date)

OIL CONSERVATION COMMISSION

FEB 7 1974

APPROVED _____, 19____

BY **Original Signed by A. R. Kendrick**

TITLE **PETROLEUM ENGINEER DIST. NO. 3**

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

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I.

NO. OF COPIES RECEIVED	
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LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

Operator

Amoco Production Company

Address

501 Airport Drive, Farmington, NM 87401

Reason(s) for filing (Check proper box)

New Well ☐

Change in Transporter of:

Recompletion ☐Oil ☐Dry Gas ☐Change in Ownership ☐Casinghead Gas ☐Condensate ☒

Other (Please explain)

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Jicarilla Contract 146	Well No. 13	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee Federal	Lease No. Jicarilla Con. 146
Location Unit Letter <u>J</u> ; <u>1650</u> Feet From The <u>South</u> Line and <u>1550</u> Feet From The <u>East</u> Line of Section <u>9</u> Township <u>25N</u> Range <u>5W</u> , NMPM, <u>Rio Arriba</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"/> Giant Industries, Inc.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 256, Farmington, NM 87401	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> Northwest Pipeline Corporation	Address (Give address to which approved copy of this form is to be sent) P.O. Box 90, Farmington, NM 87401	
If well produces oil or liquids, give location of tanks.	Unit <u>J</u>	Sec. <u>9</u>
	Twp. <u>25N</u>	Rge. <u>5W</u>
Is gas actually connected?		When

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'
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 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/MM	Gravity of Condensate
Testing Method (piston, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

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 above is true and complete to the best of my knowledge and belief.

Original
E. E. SVO

(Signature)

District Administrative Supervisor

(Title)

OIL CONSERVATION DIVISION

APPROVED

BY

Original Signed by FRANK T. CHAVEZ

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 deepened well, this form must be accompanied by a tabulation of the deviated 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 ownership, lease number, or transporter or other such change in compliance with RULE 1104.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT 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 checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 146
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, New Mexico 87401		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 1650' FSL & 1550' FEL		8. FARM OR LEASE NAME Jicarilla Contract 146
14. PERMIT NO.		9. WELL NO. 13
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6761' RDB, 6749' GL		10. FIELD AND POOL, OR WILDCAT Basin Dakota
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 SE/4 Section 9, T-25-N, R-5-W
		12. COUNTY OR PARISH Rio Arriba
		13. STATE New Mexico

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) Present Status	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>	(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.)*

The reservoir pressure of Jicarilla Contract 146 No. 13 has decreased to the point where it will not flow against line pressure. The well is opened to line pressure monthly. Amoco Production Company is now reviewing the possibility of completing in the Mesaverde or Pictured Cliffs.

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

Original Signed by
SIGNED R. E. [Signature] TITLE Area Engineer DATE October 31, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

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TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GASOperator
Amoco Production CompanyAddress
501 Airport Drive, Farmington, N.M. 87401

Reason(s) for filing (Check proper box)

New Well	<input type="checkbox"/>	Change in Transporter of:		Other (Please explain)
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 checked="" type="checkbox"/>	

If change of ownership give name
and address of previous owner

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Jicarilla Contract 146	13	Basin Dakota	State, Federal or Foreign	Jicarilla
Location				Contract
Unit Letter	J	: 1650 Feet From The South Line and 1550 Feet From The East		14
Line of Section	9	Township 25N	Range 5W	County
			N.M.P.M.	Rio Arriba

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)
Plateau, Inc.	P.O. Box 489, Bloomfield, N.M. 87413
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Northwest Pipeline Corporation	P.O. Box 90
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit J Sec. 9 Twp. 25N Rge. 5W	Farmington, New Mexico 87401

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 Resrv.	Diff. Res
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (D, RT, CR, 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

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top of well for this depth or be for full 24 hours)

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

RECEIVED
OCT 1983

GAS WELL

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

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.


(Signature)District Administrative Supervisor
(Title)September 28, 1983
(Date)

OIL CONSERVATION DIVISION

APPROVED

BY

TITLE

This form is to be filed in compliance with N.M.C.A. 19-1-104. If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the deviate tests taken on the well in accordance with N.M.C.A. 19-1-104. All sections of this form must be filled out and signed only for wells on new and recompleted wells. Fill out only Sections 1, 10, 11, and 12 for the purpose of well name or number, or transportation of other such change of name. Separate forms (1-104) must be filed for each pool in a completed well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 146

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 146

9. WELL NO.

13

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

NW/SE Sect 9, T25N, R5W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

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

At surface

1650' FSL X 1550' FEL

RECEIVED

14. PERMIT NO.

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

6761' RDB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Open new pay zone & stimulate

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(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.)*

Amoco Production Company requests approval to rework the above referenced well according to the attached procedure.

Completion Report to be submitted upon
completing the work.

APPROVED

RECEIVED

APR 06 1984

OIL CON. DIV.

DIST. 3

M. MILLENBACH
AREA MANAGER

Acting

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

SIGNED

Original

B. L.

TITLE Administrative Supervisor

DATE 3-26-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

*See Instructions on Reverse Side

OPERATIONS TO BE PERFORMED: (Circle One)

Recompletion

Repair

Service

LEASE AND WELL Jicarilla Contract 146 #13FIELD Basin DakotaFORMATION DakotaLOGS ILSP, GR, SonicLOCATION Sec. 9, T25N, R5WGR Correlation LogCOMP. DATE 8/7/61EL: 6761 (KB)TD: 7295PBD: 7256CSG: 8-5/8" 22.4 # @ 503'4-1/2" 11.6 # J-55 @ 7295'COMP. INT. 7191-7196, 7210-7215'ORIG. STIM. 33,700 gals X 30,000 # SandIP 1297 mcf/dCURRENT PROD. INT. 7191-96, 7210-15'PURPOSE: Deepen to Main Dakota and stimulate.

SDB

DHS

GOM

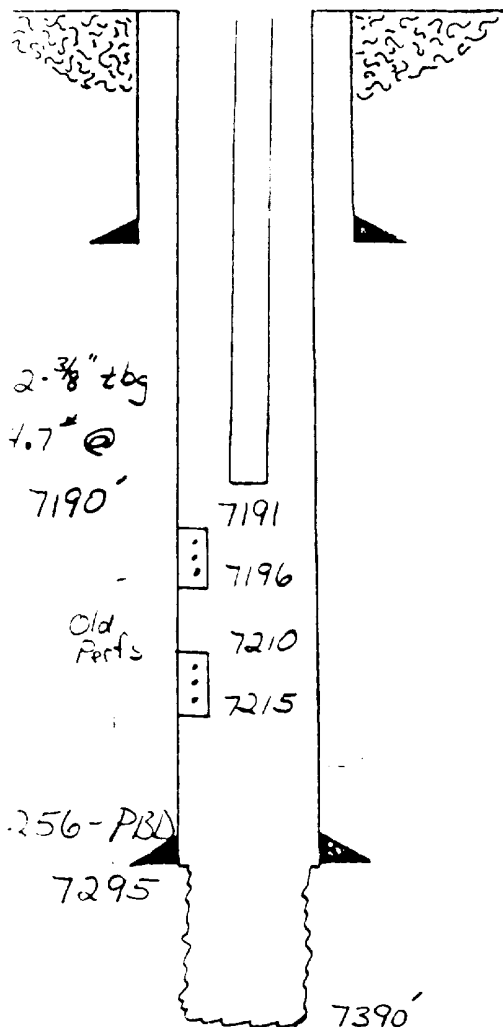
5/PERMITTING DESK (TWE, RWO, ZFF)

ENGR

FILE

WELLBORE SKETCH

PROCEDURE



1. TOH with 2-3/8" tbg.
2. Set retrievable BP at 7150' and pressure test to 3000 psi.
3. Retrieve BP at 7150'.
4. TIH with tubing and 3-7/8" bit. Drill out to a depth of 7390' (KB) with mud.
5. TOH with bit and tubing.
6. Log open-hole with induction-gamma ray log.
7. TIH with packer and 2-7/8" tbg. Set packer at 7240'.

DISTRICT SUPERINTENDENT

DISTRICT ENGINEER

DISTRICT FOREMAN

ENGINEER

Morris Bell

DATE

3/26/84

7. Frac Main Dakota down 2- $\frac{7}{8}$ " tubing with 90,000 gallons of 20 pound gelled water with 2% KCl containing 1 gallon surfactant per 1000 gallons and 120,000 pounds of 20-40 mesh sand at 25 BPM as follows:

A. Pump 15,000 gals. pad.

B. Pump 30,000 gals. @ 1.0 lpm

C. Pump 45,000 gals. @ 2.0 lpm

D. Underflush with 43 bbls. of 2% KCl water.

8. Release packer and TOH to 7150'. Shut well in overnight.

9. TOH with 2- $\frac{7}{8}$ " tbg and packer.

10. TH with 2- $\frac{3}{8}$ " production string and clean up frac.

11. Land tbg @ 7290' and return to production.

Notes:

1. Max treating pressure on tbg is 7500 psi.
2. During frac, pressure up backside to 1800 psi. Do not exceed 1 BPM down backside.
3. Do not exceed TD of 7390' (KB). The Lower Dakota is water productive.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
501 Airport Drive, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1650' FSL X 1550' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DT, RT, GR, etc.)
6761' RDB

5. LEASE DESIGNATION AND SERIAL NO.
Jicarilla Contract 146

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Jicarilla Contract 146

9. WELL NO.
13

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW/SE Sec. 9, T25N, R5W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)			

(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.)*

Amoco Production Company request approval to P X A the subject well according to the attached procedure.

RECEIVED

JUL 30 1984

OIL CON. DIV.
DIST. 3

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

SIGNED B. D. Shaw

TITLE Administrative Supervisor

(This space for Federal or State office use)

APPROVED BY _____

CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

APPROVED, 1984
AS AMENDED

DATE JUL 26 1984
/s/ J. Stan McKee

J. M. MILLENBACH
AREA MANAGER

NMOCC
*See Instructions on Reverse Side

FARMINGTON DISTRICT WORKOVER

DATE: 7/19/84

OPERATIONS TO BE PERFORMED: (CIRCLE ONE)

RECOMPLETION REPAIR SERVICE

LEASE AND WELL Jicarilla Contract 146 No. 13

FIELD Basin Dakota

FORMATION Dakota

LOGS IL, Sonic, GR, SP, GR Neutron

LOCATION SE/4, Sec 9, T25N, R5W

Rio Arriba County, New Mexico

COMP. DATE 8/7/61 EL: 6761 (KB)

TD: 7295' PBD: 7256'

CSG: 8-5/8" 22.4 # @ 503' : 4-1/2" 9.5 # @ 7299'

COMP. INT. 7191-96, 7210-15'

ORIG. STIM. 33,700 gals x 30,000#

IP 1297 mcf/d

CURRENT PROD. INT. None

PURPOSE: PXA

WJH TKA TWE GOM MCH RWO 5/PERMITTING DESK 2DF ENGR FILE
 DHS RGH BVD GMK

WELLBORE SKETCH

PROCEDURE

1. MIRUSU.

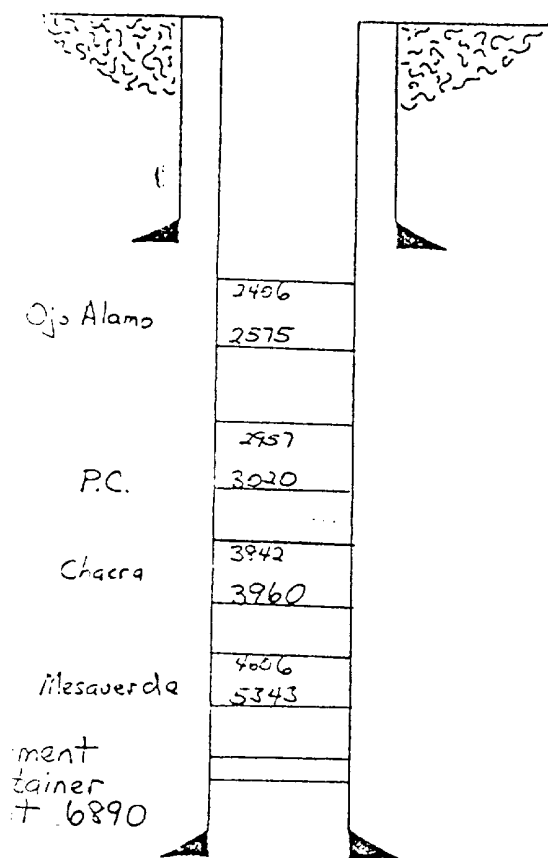
2. TIH with 2-3/8" tubing and cement retainer. Set retainer at 6890' and cement squeeze with 100 sx of Class B Neat.

3. TOH with 2-3/8" tubing to 5400' and spot 60 sx of Class B Neat.

4. TOH with 2-3/8" tubing to 4050' and spot 25 sx of Class B Neat.

5. TOH with 2-3/8" tubing to 3100' and spot 15 sx of Class B Neat with 2% CaCl₂. TOH with tubing.

6. Run cement bond log from 2700-2200'. Make two (2) log runs. One log run is to made without casing pressured. The second CBL run is to be made with casing pressured to 1500 psi.



DISTRICT MANAGER W. H. Bell

DISTRICT ENGINEER Jim Ottomery

DISTRICT FOREMAN T. W. Emery

ENGINEER Morris Bell

DATE 7/19/84

7. If CBL indicates good cement from 2575-2405',
TIH with 2- $\frac{3}{8}$ " tubing to 2650' and spot 22
SX of Class B Neat.

If CBL indicates no cement from 2575-2405',
perforate with 1 JSPF at 2600' and
perforate with 1 JSPF at 2370' TIH with
2- $\frac{3}{8}$ " tubing and cement retainer. Set retainer
at 2395' and establish circulation around
retainer. Cement with 90 SX of Class B Neat.

8. TOH to 550' and spot 22 SX of Class B Neat

9. TOH with 2- $\frac{3}{8}$ " tubing.

10. Cut-off well and install PxA marker

11. Release Rig.

BUREAU OF LAND MANAGEMENT
Caller Service 4104
Farmington, New Mexico 87499

Attachment to Notice of
Intention to Abandon

Re: Permanent Abandonment

Well: 13 Jia. Contr. 146

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. The Farmington office (telephone (505) 325-4572) is to be notified in sufficient time for a representative to witness all plugging operations.
3. Blowout prevention equipment is required.
4. In addition to normal filling of pits and cleanup of location, additional surface restoration work may be required, i.e. ripping of pad and/or access road, reseeding, etc. We have asked the Surface Management Agency for the surface restoration requirements for this well and we should be able to furnish you these requirements within 30 days. After plugging the well and before making final clean-up, you should contact this office unless you have already been advised as to what additional surface restoration work is required.
5. The following modifications to your plugging program are to be made (when applicable):

Place Cement outside of the 4 1/2" casing from 550' to 450', either by braden head squeeze or through perforations at 550'.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

Office Hours: 7:45 A.M. to 4:30 P.M.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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.)

5. LEASE DESIGNATION AND SERIAL NO.
Jicarilla Contract 146

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 146

9. WELL NO.

13

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

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

NW/SE Sec. 9, T25N, R5W

12. COUNTY OR PARISH 13. STATE

Rio Arriba

NM

1. OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

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

At surface

1650' FSL X 1550' FEL

RECEIVED

AUG 11 1984

14. PERMIT NO.

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

6761' RDB

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 PLANE

X

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 perti-
nent to this work.)*

Amoco Production Company requests approval to revise the PXA procedure dated
7-19-84 for the subject well. See attached revisions.

RECEIVED
AUG 21 1984
OIL CON. DIV
DIST. 3

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

SIGNED

B. D. Shaw

TITLE Administrative Supervisor

DATE August 9, 1984

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

DATE

AUG 15 1984

JOHN S. McKEE

M. MILLENBACH

AREA MANAGER

*See Instructions on Reverse Side

FARMINGTON DISTRICT WORKOVER

DATE: 8/9/84

OPERATIONS TO BE PERFORMED: (CIRCLE ONE) RECONNECTION REPAIR SERVICE
 LEASE AND WELL Jicarilla Contract 146 No. 13 FIELD Basin Dakota
 FORMATION Dakota LOGS 14, Sonic, GR, SP, GR Neutron
 LOCATION SE/4, Sec 9, T25N, R5W Rio Arriba County, New Mexico
 COMP. DATE 8/7/61 EL: 6761 (KB) TB: 7295' PBD: 7256'
 CSG: 8-5/8" 22.4 # @ 503' : 4-1/2" 9.5 # K-55 @ 7299'
 COMP. INT. 7191-96, 7210-15' ORIG. STIM. 33,700 gals x 30,000 #
 IP 1297 MCF CURRENT PROD. INT. None
 PURPOSE: PxA

WJH TKA TWE GOM MCH
 (DHS) (RGH)
 BVD
 GMK

5/PERMITTING DESK

2DF

RECEIVED

AUG 21 1984

OIL CON. DIV.
 DIST. 3

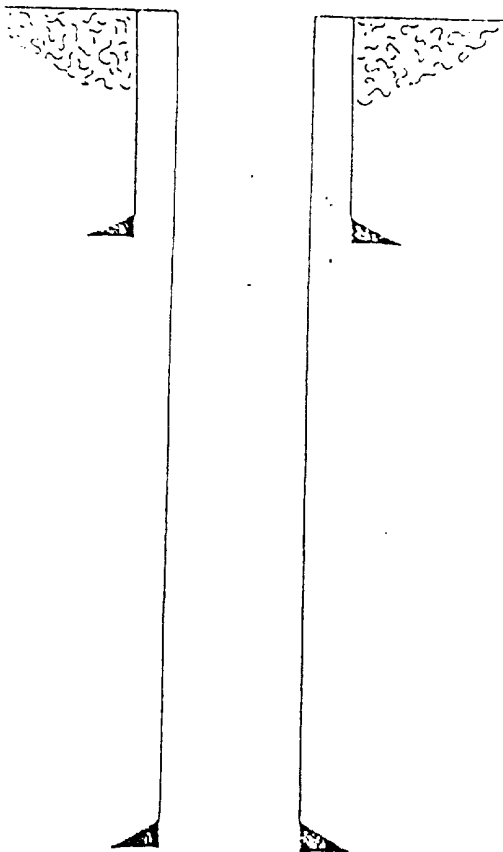
WELLBORE SKETCH

PROCEDURE

Please revised procedure dated
 7/19/84 to reflect the following
 changes:

Step 6 - Run cement bond log
 from 2700-2200' and 550-450'. Make
 two log runs. One log is to be made
 without casing pressured. The 2nd log
 will be made with casing pressured
 to 1500 psi.

Step 8 - If CBL indicates good cement
 from 550-450', TIH with tubing to
 550' and spot 22 sx of Class
 B Neat. If CBL indicates no cement
 from 550-450' perforate with 1 JSPPF
 at 550' and with 1 JSPPF at 450'.
 TIH with 2-3/8" tubing and cement retainer.
 Set retainer at 465' and establish circulation
 around retainer. Cement with 50 sx Class B Neat.



DISTRICT MANAGER

DISTRICT ENGINEER

DISTRICT FOREMAN

ENGINEER

DATE

Jim Gattaway

Lee Gattaway

Morris Bell

8-9-84

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT TO THE BUREAU OF LAND MANAGEMENT
(Other instructions on reverse side)
DEC 15 1984

Budget Bureau No. 1004-0135
Expires August 31, 1985

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.)

6. LEASE DESIGNATION AND SERIAL NO.
Jicarilla Contract 146

8. IF INDIAN, ALLOTTEE OR TRIBE NAME
Jicarilla Apache

7. UNIT AGREEMENT NAME

9. FARM OR LEASE NAME

Jicarilla Contract 146

10. WELL NO.
113

11. FIELD AND POOL, OR WILDCAT
Basin Dakota

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

NW/SE Sec. 9, T25N, R5W

13. COUNTY OR PARISH
Rio Arriba

14. STATE
NM

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

Amoco Production Company

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, NM 87401

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

1650' FSL X 1550' FEL

15. PERMIT NO.

16. ELEVATIONS (Show whether dr., rt., gr., etc.)
6761' RDB

17.

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) ☐

FILL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON ☐

CHANGE PLANE ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT ☒

18. 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.)

Moved in and rigged up service unit on 8/9/84. Tripped in with cement retainer and set at 6880'. Squeezed 118 cu. ft. Class B cement below 6880', then spotted plugs across the following intervals: 5400' - 4600', 4050' - 3720', 3100' - 2900', 2650' - 2360'. Pressure tested to 1500 psi. Perforated 451' - 450', 551' - 550', 2 jspf, .38" in diameter, for a total of 4 holes. Set a cement retainer at 465' and squeezed with 59 cu. ft. Class B through perforations to 550'. Installed dry hole marker and release the rig on 8/14/84.

RECEIVED

DEC 18 1984

OIL CON. DIV.
DIST. 3

RECEIVED

SEP 18 1984

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

hereby certify that the foregoing is true and correct

Original Signed By

B. D. Shaw

TITLE Administrative Supervisor

(This space for Federal or State office use)

PROVED BY

CONDITIONS OF APPROVAL IF ANY:

TITLE

proved as to plugging of the well bore.
ability under bond is retained until
surface restoration is completed.

Operators on Reverse Side

OPERATOR

U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or States any false, fictitious or fraudulent statements or representations.

APPROVED
AS AMENDED

DATE DEC 11 1984

M. MILLENBACH
FOR AREA MANAGER

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

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 checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Contract 146
2. NAME OF OPERATOR Amoco Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache
3. ADDRESS OF OPERATOR 501 Airport Drive, Farmington, NM 87401		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 1650' FSL X 1550' FEL		8. FARM OR LEASE NAME Jicarilla Contract 146
14. PERMIT NO.		9. WELL NO. #13
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6761' RDB		10. FIELD AND POOL, OR WILDCAT Basin Dakota
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/SE Sec. 9, T25N, R5W
		12. COUNTY OR PARISH Rio Arriba
		13. STATE NM

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*

XX

(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.)*

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RECEIVED

SEP 18 1984

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

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

SIGNED

Original Signed By
R. D. Shaw

TITLE

Administrative Supervisor

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY

Approved as to plugging of the well bore.
Liability under bond is retained until
surface restoration is completed.

Comments on Reverse Side

APPROVED
DATE 9/15/84
AS AMENDED

DATE DEC 11 1984

M. MILLENBACH
AREA MANAGER