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FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
OPERATOR	3
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-105
Effective 1-1-65

I. Operator
AKCO Oil and Gas Company, Division of Atlantic Richfield Company
Address
1860 Lincoln Street, Suite 501, Denver, Colorado 80295
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) Effective 4/1/79
Assumed name for formerly
Atlantic Richfield Company.

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Horseshoe Gallup Unit	25	Horseshoe Gallup	State, Federal or Fee Fed. 14-08	0001-8200
Location Unit Letter: H ; 1980 Feet From The North Line and 417 Feet From The East Line of Section 29 Township 31N Range 16W , NMPM, San Juan County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Water Injection Well		
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)	
If well produces oil or liquids, give location of tanks.	Unit	Sec. Twp. Rge.
		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'tv.	Diff. Res'tv.
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 2MCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shot-in)	Casing Pressure (shot-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.

Accounting Supervisor

March 9, 1979

OIL CONSERVATION COMMISSION

APPROVED MAR 12 1979

BY Original Signed by A. R. Kendrick
SUPERVISOR DIST. A

TITLE

This form is to be filed in compliance with RULE 1104.
If this is 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 conditions.
Separate forms C-104 must be filed for each pool in multi-pool completed well.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-734

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Horseshoe Gallup Unit

8. FARM OR LEASE NAME

Horseshoe Gallup

9. WELL NO.

25

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup

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

Sec. 29, T-31N, R-16W

12. COUNTY OR PARISH 13. STATE

San Juan

N.M.

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 ☒ Injection Wells
2. NAME OF OPERATOR
ARCO Oil and Gas Company, Division of Atlantic Richfield Co.
3. ADDRESS OF OPERATOR
1816 E. Mojave, Farmington, New Mexico 87401
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1980' FNL, 417' FEL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5984' GL

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 COMPLETION ☐

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.)*

ARCO Oil and Gas Company respectfully requests approval of long term shut-in status on this well. At this time, under the current waterflood operation, ARCO cannot economically operate the subject well. An ongoing study to determine the feasibility of CO₂ flooding for the Horseshoe Gallup Field is underway, which may yield significant additional oil recovery. Implementation of a CO₂ flood would require the workover of existing wells, and the drilling of new wells. For this reason, ARCO proposes that this well be maintained in the long term shut-in status so that the wellbore will be available, should it be needed as part of a future CO₂ flood. This plan eliminates the economic waste of potentially usable wellbores, and promotes conservation.

RECEIVED
BLM MAIL ROOM
7 JUL - 1 PM 3:09
FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

RECEIVED
JUL 14 1987
OIL CON. DIV.
DIST. 3

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

SIGNED Burt Purine

TITLE Production Supervisor

DATE 6/30/87

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

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

8. LEASE DESIGNATION AND SERIAL NO.
14-20-603-734

9. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT ASSIGNMENT NAME
HORSESHOE GALLUP UNIT

6. FARM OR LEASE NAME
HORSESHOE GALLUP

5. WELL NO.

25

10. FIELD AND POOL, OR WILDCAT
HORSESHOE GALLUP

11. SEC., T., R., M., OR S.E. AND
SURVEY OR AREA

SEC 29, T-31N, R-16W

12. COUNTY OR PARISH
SAN JUAN

13. STATE
NM

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Injection Well

2. NAME OF OPERATOR
ARCO Oil and Gas Company, Div. of Atlantic Richfield Co.

3. ADDRESS OF OPERATOR
1816 E. Mojave, Farmington, New Mexico 87401

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

1980'FNL, 417'FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether by, ft., or etc.)
5984' GL

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 COMPLETION

ABANDON*

CHANGE PLANE

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.)*

ARCO Oil and Gas Company respectfully requests approval for extension of long term shut-in status on this well. Over the past two years, ARCO has reactivated several previously uneconomic long term shut-in wells and found commercial production. In addition, an ongoing CO2 feasibility study is underway which may yield significant additional oil recovery. Implementation of a CO2 flood would require the workover of existing wells, and the drilling of new wells. For these reasons, ARCO proposes that this well be maintained in the long term shut-in status so that the wellbore will be available, should future production tests indicate commercial production or should it be needed as part of a future CO2 flood. This plan eliminates the economic waste of potentially usable wellbores and promotes conservation.

RECEIVED

JAN 02 1990

OIL CON. DIV.

DIST. 3

THIS APPROVAL EXPIRES SEP 01 1990

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

SIGNED D. Coyne

TITLE Sr. Prod Supr

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

DATE 08/30/89

DEC 04 1989
DATE

AREA MANAGER
FARMINGTON RESOURCE AREA

*See Instructions on Reverse Side

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

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. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-734	
2. NAME OF OPERATOR ARCO Oil & Gas Company, Division of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo	
3. ADDRESS OF OPERATOR 1816 E. Mojave, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME Horseshoe Gallup Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface		8. FARM OR LEASE NAME Horseshoe Gallup	
		9. WELL NO. 25	
		10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup	
		11. SEC., T., R., N., OR S.E., AND SUBST. OR AREA Sec. 29, T-31N, R-16W	
14. PERMIT NO.	15. ELEVATIONS (Show whether SP, ST, GR, etc.) 1980' FNL & 417' FEL 5980' GR	12. COUNTY OR PARISH San Juan	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 COMPLETION
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 pertinent to this work.)*

ARCO Oil and Gas Company respectfully requests approval for extension of long term shut-in status on this well. At this time, under the current waterflood operation, ARCO cannot economically operate the subject well. An ongoing study to determine the feasibility of CO₂ flooding for the Horseshoe Gallup Field is underway, which may yield significant additional oil recovery (a CO₂ Pilot Project is planned to begin later this year as part of the study to assess CO₂ flooding potential). Implementation of a CO₂ flood would require the workover of existing wells, and the drilling of new wells. For this reason, ARCO proposes that this well be maintained in the long term shut-in status so that the well-bore will be available, should it be needed as part of a future CO₂ flood. This plan eliminates the economic waste of potentially usable wellbores, and promotes conservation.

THIS APPROVAL IS FOR:

RECEIVED

AUG 22 1988

OIL CON. DIV.

DIST. 3

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

SIGNED

[Signature]

TITLE Production Supervisor

DATE 6/24/88

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

AUG 1988

[Signature]

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other Injection Well

2. Name of Operator

ARCO Oil and Gas Company, Div. of Atlantic Richfield Co.

3. Address and Telephone No.

1816 E. Mojave, Farmington, New Mexico 87401 (505) 325-7527

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

1980'FNL, 417'FEL

SEC 29, T-31N, R-16W

5. Lease Designation and Serial No.

14-20-603-734

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA, Agreement Designation

HORSESHOE GALLUP UNIT

8. Well Name and No.

HORSESHOE GALLUP // 25

9. API Well No.

3004510393

10. Field and Pool, or Exploratory Area

HORSESHOE GALLUP

11. County or Parish, State

SAN JUAN

NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Long Term SI	<input type="checkbox"/> Dispose Water

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

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

ARCO Oil and Gas Company respectfully requests approval for extension of long term shut-in status on this well. ARCO continues to find ways to reactivate previously uneconomic long term shut-in wells and has returned several to production as market conditions and production allowed. As you are aware, ARCO is selling it's working interest in the Horseshoe Gallup Unit and the new owners are very interested in reactivating long term shut-in wells especially with the recent increase in oil prices. For these reasons, ARCO proposes that this well be maintained in the long term shut-in status so that the wellbore will be available, should future production tests indicate commercial production. This plan eliminates the economic waste of potentially usable wellbores and and promotes conservation.

RECEIVED
OCT 17 1990

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

Signed Daniel Cojane

Title Sr. Prod Supr

OIL CON. DIV.]

Date 09/07/90

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

ACCEPTED FOR RECORD

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions on Reverse Side

FARMINGTON RESOURCE AREA

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

OIL CONSERVATION DIVISION

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

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

I.		Well API No.
Operator Vantage Point Operating Company		3004510393
Address 5801 E. 41st, suite 1001, Tulsa, Oklahoma 74135		
Reason(s) for Filing (Check proper box) <input checked="" type="checkbox"/> Other (Please explain)		
INJECTION WELL		
New Well <input type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Operator <input checked="" type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		
If change of operator give name and address of previous operator ARCO Oil and Gas Company, P.O. Box 1610, Midland, Texas 79702 a Division of Atlantic Richfield Company		

II. DESCRIPTION OF WELL AND LEASE		Lease No.
Lease Name Horseshoe Gallup Unit	Well No. 25	14-20-603-734
Pool Name, Including Formation Horseshoe Gallup		Kind of Lease State, Federal or Fee
Location Unit Letter <u>H</u> : <u>1980'</u> Feet From The <u>N</u> Line and <u>417'</u> Feet From The <u>E</u> Line Section <u>29</u> Township <u>31 N</u> Range <u>16 W</u> , NMPM, San Juan County		

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS		Address (Give address to which approved copy of this form is to be sent)				
Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>						
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)					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	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		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion - (X)									
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth					
Perforations				Depth Casing Shoe					
TUBING, CASING AND CEMENTING RECORD									
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT					

V. TEST DATA AND REQUEST FOR ALLOWABLE		OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)	
Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

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

VI. OPERATOR CERTIFICATE OF COMPLIANCE		OIL CONSERVATION DIVISION	
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.		Date Approved <u>FEB 27 1991</u>	
Signature <u>Deborah L. Greenwich</u>		By <u>James J. Smith</u>	
Printed Name <u>Deborah L. Greenwich - Production Asst.</u>		Title <u>SUPERVISOR DISTRICT #3</u>	
Date <u>1-19-91</u>		Telephone No. <u>918-664-2100</u>	

- INSTRUCTIONS: This form is to be filed in compliance with Rule 1104
- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
 - 2) All sections of this form must be filled out for allowable on new and recompleted wells.
 - 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 - 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

771302
10-11-68
OFFICE OF
THE JUDGE

THE JUDGE
OFFICE
10-11-68

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

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

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or reentry
to a different reservoir.

Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.

14-20-603-734

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

Horseshoe Gallup Unit

8. Well Name and No.

Horseshoe Gallup Unit # 25

9. API Well No.

3004510393

10. Field and Pool, or Exploratory Area

Horseshoe Gallup

11. County or Parish, State

San Juan, New Mexico

1. Type of Well
☐ Oil ☐ Gas ☒ Other Water Injection Well

2. Name of Operator
Vantage Point Operating Company

3. Address and Telephone No.
5801 E. 41st Street, Suite 1001, Tulsa, OK 74135 918-664-2400

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

1980' FNL & 417' FEL 29-T31N-R16W

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

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other LTSI

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

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

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

Vantage Point Energy requests approval for extension of long term shut-in status on this well. Vantage Point assumed operations on the Unit during January, 1991, and has since activated nineteen wells. Vantage Point is viewing the feasibility of returning additional wells to active status when the economics are favorable. Also, this Unit has potential for CO2 flooding and for drilling additional wells to tighten the injection pattern. Extension of LTSI status would keep this wellbore available for future projects and would eliminate economic waste and promote conservation.

SEP 01 1992

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

Signed

Jeff L. Pandey

Title

Sr. Production Engineer

Date

8/20/91

This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

[Signature]

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the U. S. any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

VANTAGE
HORSESHOE GALLUP
INJ # 025
H-29-31N-16W

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2519
~~XXXXXXXXXXXX~~

APPLICATION OF THE ATLANTIC REFINING
COMPANY FOR A UNIT AGREEMENT, A PRES-
SURE MAINTENANCE PROJECT AND THE
RECLASSIFICATION OF TWO WELLS, SAN
JUAN COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on March 28, 1962, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 18th day of April, 1962, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, The Atlantic Refining Company, seeks approval of the Horseshoe-Gallup Unit Agreement covering 20,925.58 acres, more or less, of Federal, State, Indian and fee lands in Townships 30 and 31 North, Ranges 16 and 17 West, San Juan County, New Mexico.

(3) That approval of the proposed Horseshoe-Gallup Unit Agreement will, in principle, tend to promote the conservation of oil and gas and the prevention of waste.

(4) That the applicant further seeks permission to institute the Horseshoe-Gallup Unit Pressure Maintenance Project in the Horseshoe-Gallup Oil pool by the injection of water into the Gallup formation through 112 wells within the proposed project area.

(5) That the applicant proposes that an administrative procedure be established whereby said pressure maintenance

project may be expanded for good cause shown, and whereby additional wells in the project area may be converted to water injection.

(6) That Special Rules and Regulations for the operation of The Atlantic Refining Company Horseshoe-Gallup Unit Pressure Maintenance Project should be promulgated and, for operational convenience, such rules should provide certain flexibility in authorizing the production of the project allowable from any well or wells in the project in any proportion, provided that no well in the project area which directly or diagonally offsets a well outside the project area producing from the same common source of supply should be allowed to produce in excess of top unit allowable for the Horseshoe-Gallup Oil Pool until such time as the well has experienced a substantial response from water injection. When such a response has occurred, the well should be permitted to produce up to two times top unit allowable for the Horseshoe-Gallup Oil Pool. Production of such well at a higher rate should be authorized only after notice and hearing.

(7) That the applicant further seeks the reclassification of its Ute-Federal Well No. 1, located in the SW/4 SW/4 of Section 36, Township 31 North, Range 16 West, and its Navajo-Lowe-Federal Well No. 1, located in the NE/4 NE/4 of Section 2, Township 30 North, Range 16 West, all in San Juan County, New Mexico; from Verde-Gallup Oil Pool wells to Horseshoe-Gallup Oil Pool wells.

(8) That the Verde-Gallup Oil Pool should be contracted by the deletion of the NE/4 NE/4 of Section 2, Township 30 North, Range 16 West, and the SW/4 SW/4 of Section 36, Township 31 North, Range 16 West, all in San Juan County, New Mexico.

(9) That the Horseshoe-Gallup Oil Pool should be extended to include the SE/4 SE/4 of Section 35, Township 31 North, Range 16 West, San Juan County, New Mexico, in addition to the above-described acreage to be deleted from the Verde-Gallup Oil Pool.

IT IS THEREFORE ORDERED:

(1) That the Horseshoe-Gallup Unit Agreement is hereby approved.

(2) That the Plan under which the unit area shall be operated shall be embraced in the form of a unit agreement for the development and operation of the Horseshoe-Gallup Unit Area and such plan shall be known as the Horseshoe-Gallup Unit Agreement Plan.

(3) That the Horseshoe-Gallup Unit Agreement Plan is hereby approved in principle as a proper conservation measure; provided however, that notwithstanding any of the provisions contained in

said unit agreement, this approval shall not be considered as waiving or relinquishing, in any manner, any right, duty or obligation which is now, or may hereafter be, vested in the Oil Conservation Commission of New Mexico relative to the supervision and control of operations for the exploration and development of any lands committed to the said Horseshoe-Gallup Unit, or relative to the production of oil and gas therefrom.

(4) (a) That the unit area shall be:

NEW MEXICO PRINCIPAL MERIDIAN

TOWNSHIP 30 NORTH, RANGE 16 WEST

Sections 2 through 6: All
Section 7: NE/4
Sections 8 and 9: All
Section 10: NW/4
Section 16: That portion of the N/2 NW/4
lying east of the Navajo
Indian Reservation

TOWNSHIP 31 NORTH, RANGE 16 WEST

Section 17: SW/4
Section 18: W/2 and SE/4
Sections 19 through 22: All
Section 25: SW/4
Sections 26 through 35: All
Section 36: W/2 and W/2 SE/4

TOWNSHIP 30 NORTH, RANGE 17 WEST

Section 1: NE/4

TOWNSHIP 31 NORTH, RANGE 17 WEST

Sections 13 through 15: All
Section 16: E/2
Section 22: NW/4 and E/2
Sections 23 through 25: All
Section 26: E/2 and NW/4
Section 35: NE/4
Section 36: All

comprising 20,925.58 acres, more or less.

(b) That the unit may be enlarged or contracted as provided in said Plan, provided however, that administrative approval for expansion or contraction of the unit area must also be obtained from the Secretary-Director of the Oil Conservation Commission.

(5) That the unit operator shall file with the Commission an executed original or executed counterpart of the Horseshoe-Gallup Unit Agreement within 30 days after the effective date thereof. In the event of subsequent joinder by any party or

expansion of the unit area, the unit operator shall file with the Commission within 30 days of such action counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.

(6) That this order shall become effective upon the approval of said unit agreement by the Commissioner of Public Lands for the State of New Mexico and by the Director of the United States Geological Survey and shall terminate ipso facto upon the termination of said unit agreement. The last unit operator shall notify the Commission immediately in writing of such termination.

(7) That the applicant is hereby authorized to institute the Horseshoe-Gallup Unit Pressure Maintenance Project in the Horseshoe-Gallup Oil Pool, San Juan County, New Mexico, by the injection of water into the Gallup formation through 112 wells located within the project area as hereinafter-described.

(8) That Special Rules and Regulations governing the operation of The Atlantic Refining Company Horseshoe-Gallup Unit Pressure Maintenance Project, San Juan County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE ATLANTIC REFINING COMPANY
HORSESHOE-GALLUP UNIT PRESSURE MAINTENANCE PROJECT

RULE 1. The project area of The Atlantic Refining Company Horseshoe-Gallup Unit Pressure Maintenance Project, hereinafter referred to as the Project, shall comprise the following-described acreage in San Juan County, New Mexico:

NEW MEXICO PRINCIPAL MERIDIAN

TOWNSHIP 30 NORTH, RANGE 16 WEST

Section 2: All
Section 3: All
Section 4: All
Section 5: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 6: N/2 NE/4, SE/4 NE/4
Section 8: N/2 NE/4, SE/4 NE/4
Section 9: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 10: NW/4
Section 16: NE/4 NW/4

TOWNSHIP 31 NORTH, RANGE 16 WEST

Section 19: S/2, NW/4, S/2 NE/4
Section 20: S/2
Section 21: S/2
Section 22: S/2 SW/4
Section 26: S/2
Section 27: S/2, NW/4, S/2 NE/4, NW/4 NE/4

TOWNSHIP 31 NORTH, RANGE 16 WEST - CONTINUED

Section 28: All
Section 29: All
Section 30: All
Section 31: N/2, SE/4, N/2 SW/4, SE/4 SW/4
Section 32: All
Section 33: All
Section 34: All
Section 35: All
Section 36: W/2 SW/4

TOWNSHIP 31 NORTH, RANGE 17 WEST

Section 13: SW/4, S/2 SE/4, NW/4 SE/4, SW/4 NW/4
Section 14: All
Section 15: NE/4, N/2 NW/4, SE/4 NW/4, N/2 SE/4,
SE/4 SE/4
Section 23: NE/4, N/2 NW/4, SE/4 NW/4, N/2 SE/4,
SE/4 SE/4
Section 24: All
Section 25: N/2, SE/4, NE/4 SW/4
Section 36: NE/4 NE/4

RULE 2. The allowable for the Project shall be the sum of the allowables of the several wells within the project area, including those wells which are shut-in, curtailed, or used as injection wells. Allowables for all wells shall be determined in a manner hereinafter prescribed.

RULE 3. Allowables for injection wells may be transferred to producing wells within the project area, as may the allowables for producing wells which, in the interest of more efficient operation of the Project, are shut-in or curtailed because of high gas-oil ratio or are shut-in for any of the following reasons: pressure regulation, control of pattern or sweep efficiencies, or to observe changes in pressures or changes in characteristics of reservoir liquids or progress of sweep.

RULE 4. The allowable assigned to any well which is shut-in or which is curtailed in accordance with the provisions of Rule 3, which allowable is to be transferred to any well or wells in the project area for production, shall in no event be greater than its ability to produce during the test prescribed by Rule 6, below, or greater than the current top unit allowable for the pool during the month of transfer, whichever is less.

RULE 5. The allowable assigned to any injection well on a 40-acre proration unit shall be top unit allowable for the Horse-shoe-Gallup Oil Pool.

RULE 6. The allowable assigned to any well which is shut-in or curtailed in accordance with Rule 3, shall be determined by a 24-hour test at a stabilized rate of production, which shall be

the final 24-hour period of a 72-hour test throughout which the well should be produced in the same manner and at a constant rate. The daily tolerance limitation set forth in Commission Rule 502 I (a) and the limiting gas-oil ratio (2,000 to 1) for the Horseshoe-Gallup Oil Pool shall be waived during such tests. The project operator shall notify all operators offsetting the well, as well as the Commission, of the exact time such tests are to be conducted. Tests may be witnessed by representatives of the offsetting operators and the Commission, if they so desire.

RULE 7. The allowable assigned to each producing well in the Project shall be equal to the well's ability to produce or to top unit allowable for the Horseshoe-Gallup Oil Pool, whichever is less, provided that any producing well in the project area which directly or diagonally offsets a well outside the project area producing from the same common source of supply shall not produce in excess of two times top unit allowable for the pool. Each producing well shall be subject to the limiting gas-oil ratio (2,000 to 1) for the Horseshoe-Gallup Oil Pool, except that any well or wells within the project area producing with a gas-oil ratio in excess of 2,000 cubic feet of gas per barrel of oil may be produced on a "net" gas-oil ratio basis, which net gas-oil ratio shall be determined by applying credit for daily average gas injected, if any, into the Horseshoe-Gallup Oil Pool within the project area to such high gas-oil ratio well. The daily adjusted oil allowable for any well receiving gas injection credit shall be determined in accordance with the following formula:

$$A_{adj} = \frac{TUA \times F_a \times 2,000}{\frac{P_g - I_g}{P_o}}$$

where:

- A_{adj} = the well's daily adjusted allowable
- TUA = top unit allowable for the pool
- F_a = the well's acreage factor
- P_g = average daily volume of gas produced by the well during the preceding month, cubic feet
- I_g = the well's allocated share of the daily average gas injected during the preceding month, cubic feet
- P_o = average daily volume of oil produced by the well during the preceding month, barrels

In no event shall the amount of injected gas being credited to a well be such as to cause the net gas-oil ratio, $\frac{P_g - I_g}{P_o}$, to

be less than 2,000 cubic feet of gas per barrel of oil produced.

RULE 8. Credit for daily average net water injected into the Horseshoe-Gallup Oil Pool through any injection well located within the project area may be converted to its gas equivalent and applied to any well producing with a gas-oil ratio in excess of two thousand cubic feet of gas per barrel of oil. Total credit for net water injected in the project area shall be the gas equivalent volume of the daily average net water injected during a one-month period. The daily average gas equivalent of net water injected shall be computed in accordance with the following formula:

$$E_g = (V_{w \text{ inj}} - V_{w \text{ prod}}) \times 5.61 \times \frac{P_a}{15.025} \times \frac{520^\circ}{T_r} \times \frac{1}{Z}$$

where:

- E_g = Average daily gas equivalent of net water injected, cubic feet
- $V_{w \text{ inj}}$ = Average daily volume of water injected, barrels
- $V_{w \text{ prod}}$ = Average daily volume of water produced, barrels
- 5.61 = Cubic foot equivalent of one barrel of water
- P_a = Average reservoir pressure at mid-point of the pay zones of Horseshoe-Gallup Oil Pool in project area, psig + 12.01, as determined from most recent survey
- 15.025 = Pressure base, psi
- 520° = Temperature base of 60°F expressed as absolute temperature
- T_r = Reservoir temperature of 87°F expressed as absolute temperature (547°R)
- Z = Compressibility factor from analysis of Horseshoe-Gallup gas at average reservoir pressure, P_a , interpolated from compressibility tabulation below:

Reservoir Pressure	Z	Reservoir Pressure	Z	Reservoir Pressure	Z
50	.9725	300	.8325	550	.6560
100	.9465	350	.8030	600	.6135
150	.9215	400	.7710	650	.5655
200	.8885	450	.7220	700	.5220
250	.8600	500	.6900	750	.4630
				800	.3935

RULE 9. Each month the project operator shall, within three days after the normal unit allowable for Northwest New Mexico has been established, submit to the Commission a Pressure Maintenance Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project as well as the total Project allowable. The aforesaid Pressure Maintenance Project Operator's Report shall be filed in lieu of Form C-120 for the Project.

RULE 10. The Commission shall, upon review of the report and after any adjustments deemed necessary, calculate the allowable for each well in the Project for the next succeeding month in accordance with these rules. The sum of the allowables so calculated shall be assigned to the Project and may be produced from the wells in the Project in any proportion except that no well in the Project which directly or diagonally offsets a well outside the Project producing from the same common source of supply shall produce in excess of two times top unit allowable for the Pool.

RULE 11. The conversion of producing wells to injection, the drilling of additional wells for injection, and expansion of the project area shall be accomplished only after approval of the same by the Secretary-Director of the Commission. To obtain such approval, the Project operator shall file proper application with the Commission, which application, if it seeks authorization to convert additional wells to injection or to drill additional injection wells shall include the following:

(1) A plat showing the location of proposed injection well, all wells within the project area, and offset operators, locating wells which offset the project area.

(2) A schematic drawing of the proposed injection well which fully describes the casing, tubing, perforated interval, and depth showing that the injection of gas or water will be confined to the Gallup formation.

(3) A letter stating that all offset operators to the proposed injection well have been furnished a complete copy of the application and the date of notification.

The Secretary-Director may approve the proposed injection well if, within 20 days after receiving the application, no objection to the proposal is received. The Secretary-Director may grant immediate approval, provided waivers of objection are received from all offset operators.

Expansion of the project area may be approved by the Secretary-Director of the Commission administratively when good cause is shown therefor.

(9) That the applicant's Ute-Federal Well No. 1, located in the SW/4 SW/4 of Section 36, Township 31 North, Range 16 West, and Navajo-Lowe-Federal Well No. 1, located in the NE/4 NE/4 of Section 2, Township 30 North, Range 16 West, all in San Juan County, New Mexico, are hereby reclassified from Verde-Gallup Oil Pool wells to Horseshoe-Gallup Oil Pool wells.

(10) That the Verde-Gallup Oil Pool, as heretofore classified, defined and described, is hereby contracted by the deletion of the SW/4 SW/4 of Section 36, Township 31 North, Range 16 West, and the NE/4 NE/4 of Section 2, Township 30 North, Range 16 West, all in San Juan County, New Mexico.

(11) That the Horseshoe-Gallup Oil Pool, as heretofore classified, defined and described, is hereby extended to include the above-described acreage deleted from the Verde-Gallup Oil Pool and the SE/4 SE/4 of Section 35, Township 31 North, Range 16 West, San Juan County, New Mexico.

(12) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

EDWIN L. MECHEM, Chairman

S E A L

E. S. WALKER, Member

esr/

A. L. PORTER, Jr., Member & Secretary