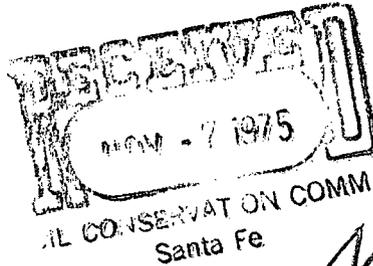
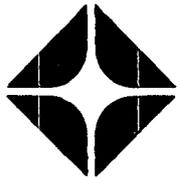


North American Producing Division
Rocky Mountain District
1860 Lincoln St. — Suite 501
Denver, Colorado 80203
Telephone 303 573-4049

W. A. Walther, Jr.
District Production & Drilling
Superintendent



November 5, 1975

NSL-134

Mr. Joe D. Ramey, Secretary - Director
Oil Conservation Commission, State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

4 wells

Rule 11 R 2210-A

Re: Horseshoe Gallup Unit
San Juan County, New Mexico

*Due upon receipt of
approval from Aztec*

Dear Mr. Ramey:

Atlantic Richfield Company, Operator of the Horseshoe Gallup Unit, and pursuant Case No. 5236, Order No. R-2210-A, hereby requests administrative approval to drill four (4) infill Gallup formation producing wells at unorthodox locations. As set forth in Order No. R-2210-A, the following are enclosed:

1. (a) Copy of Certified Location Plat, each well.
(b) Copy of Application for Permit to Drill, each well.
(c) Map showing the Unit boundary, all existing wells, and location of the four (4) proposed wells.
2. Schematic drawing for each well, based on current information.

Atlantic Richfield Company is the Operator of all offset locations, therefore, notification to offset operators is not required.

Your administrative approval is respectfully requested.

Very truly yours,

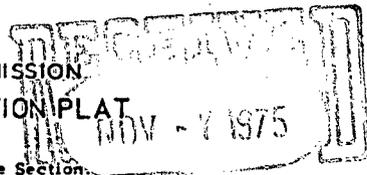
W. A. Walther, Jr.
W. A. Walther, Jr.

Encls.

well locations

<i>land well # 287</i>	1450' FNL & 1250' FWL	24-31N-17W
<i>" 288</i>	200' FNL & 200' FWL	25-31N-17W
<i>" 289</i>	1335' FNL & 1250' FWL	32-31N-16W
<i># 290</i>	312' FSL & 323' FWL	33-31N-16W

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT



Form C-102
Supersedes C-128
Effective 1-4-65

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

Operator Atlantic Richfield Company		Lease Horseshoe Gallup Unit		OIL CONSERVATION UNIT No. Santa Fe 287	
Unit Letter E	Section 24	Township 31 North	Range 17 West	County San Juan	
Actual Footage Location of Well: 1450 feet from the North line and 1250 feet from the West line					
Ground Level Elev. 5830	Producing Formation Gallup	Pool Horseshoe Gallup		Dedicated Acreage: NA - Unitized	

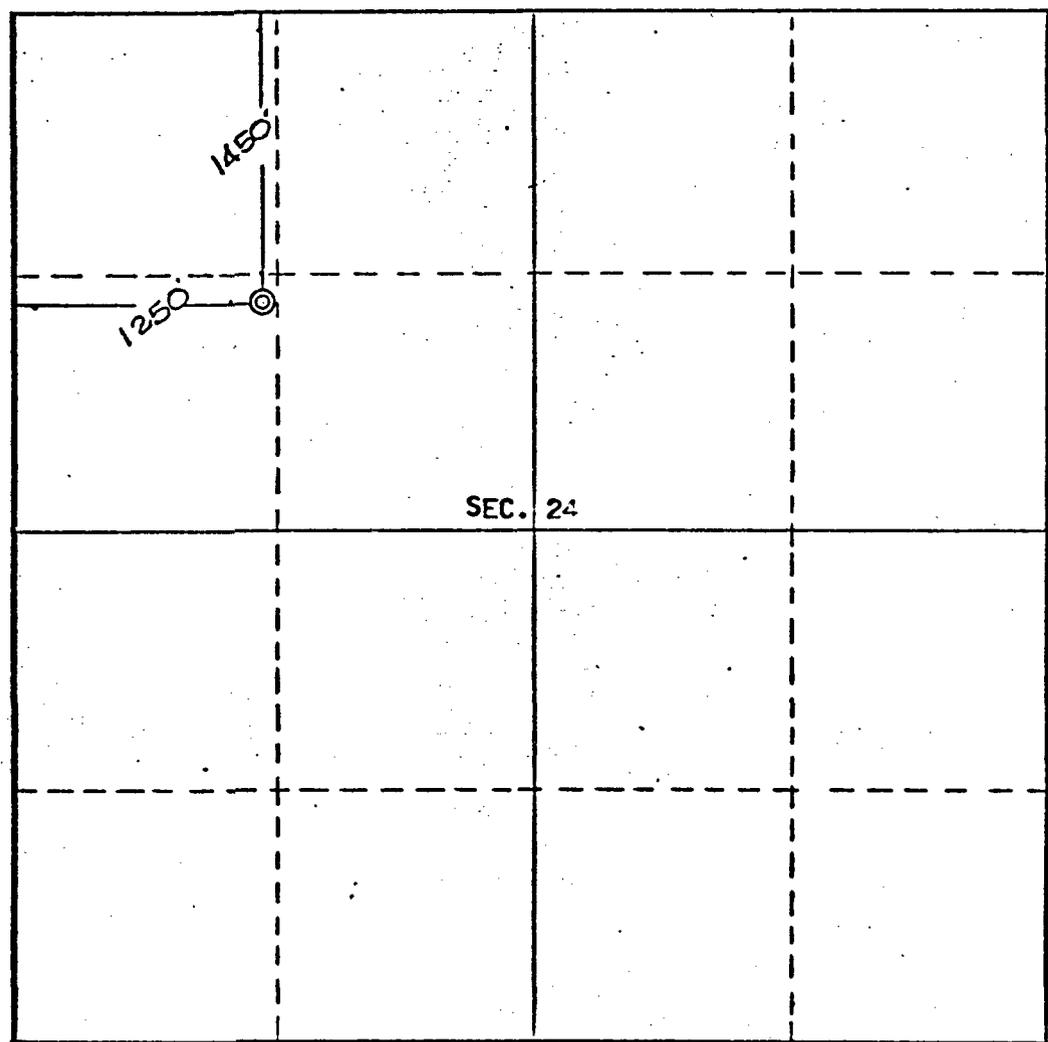
Re: Order No. R-2210-A

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

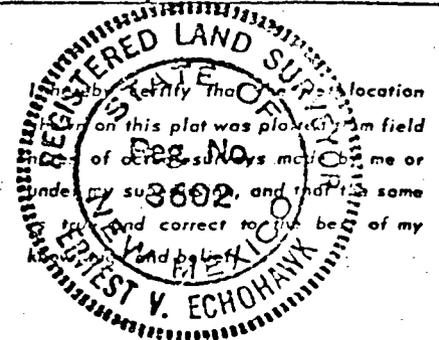
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

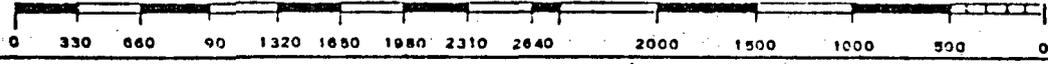
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name W. A. Walther, Jr.
Position W. A. Walther, Jr.
Dist. Prod. & Drlg. Supt.
Company ATLANTIC RICHFIELD COMPANY
Date Oct. 28, 1975



Date Surveyed October 7, 1975
Registered Professional Engineer and/or Land Surveyor

E. V. Echohawk
Certificate No. 3602
E.V. Echohawk LS



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

NOV - 7 1975

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. LEASE DESIGNATION AND SERIAL NO.
11-20-603-2022

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

7. UNIT AGREEMENT NAME
Navajo

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

8. FARM OR LEASE NAME
Horseshoe Gallup Unit

2. NAME OF OPERATOR
Atlantic Richfield Company

9. WELL NO.
Horseshoe Gallup Unit

3. ADDRESS OF OPERATOR
501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

10. FIELD AND POOL, OR WILDCAT
287

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
Unit "E" - 1450' f/North & 1250' f/West lines Sec. 24

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Sec. 24-31N-17W

At proposed prod. zone
Approx same

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

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx 3 mi East & 11 Mi NE from Shiprock, N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
1190' f/Tr. 13 line

16. NO. OF ACRES IN LEASE
Tr. 13 - 1442.48 Ac.
Unit - 13, 527.60 Ac.

17. NO. OF ACRES ASSIGNED TO THIS WELL
N/A - Unit

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
721' f/well #90

19. PROPOSED DEPTH
1550'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5830'GL

22. APPROX. DATE WORK WILL START*
When appl rec'd

23. PROPOSED CASING AND CEMENTING PROGRAM
Est. 11/5/75

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	120'	120 sx (Cnt to surface)
7-7/8"	5-1/2"	14#	T.D.	225 sx

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops: Upper Gallup 1330', Lower Gallup 1445'. Will set 8-5/8" casing at approx 120' and cement to surface; drill 7-7/8" hole to T.D. and log; if productive, set 5-1/2" casing with sufficient cement to protect all zones. Productive zone(s) will be perforated, treated if necessary, and well completed.

Re: New Mexico Oil Conservation Commission Order No. A-2210 and R-2210-A

Attachments: Certified Location Plat
Pertinent Drilling Information
Development Plan f/Surface Use w/ att.

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

24. SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 10/28/75
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

Elevation 5830' GL



8-5/8" OD Casing set at 120' and cemented to surface

2-3/8" OD EUE tubing

Upper Gallup - Perforated as indicated from logs.

Lower Gallup - Perforated as indicated from logs.

5-1/2" OD casing set at total depth with sufficient cement to protect all zones.

1550' Estimated total depth.

HORSESHOE GALLUP UNIT, WELL NO. 287
Unit "E" - 1450' f/North line and
1250' f/West line of
Section 24-31N-17W.
San Juan County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Superseded by C-128
Effective 1-1-65

RECEIVED
NOV - 7 1975
Well No. 288
SAN JUAN COUNTY
CONSERVATION COMM.

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

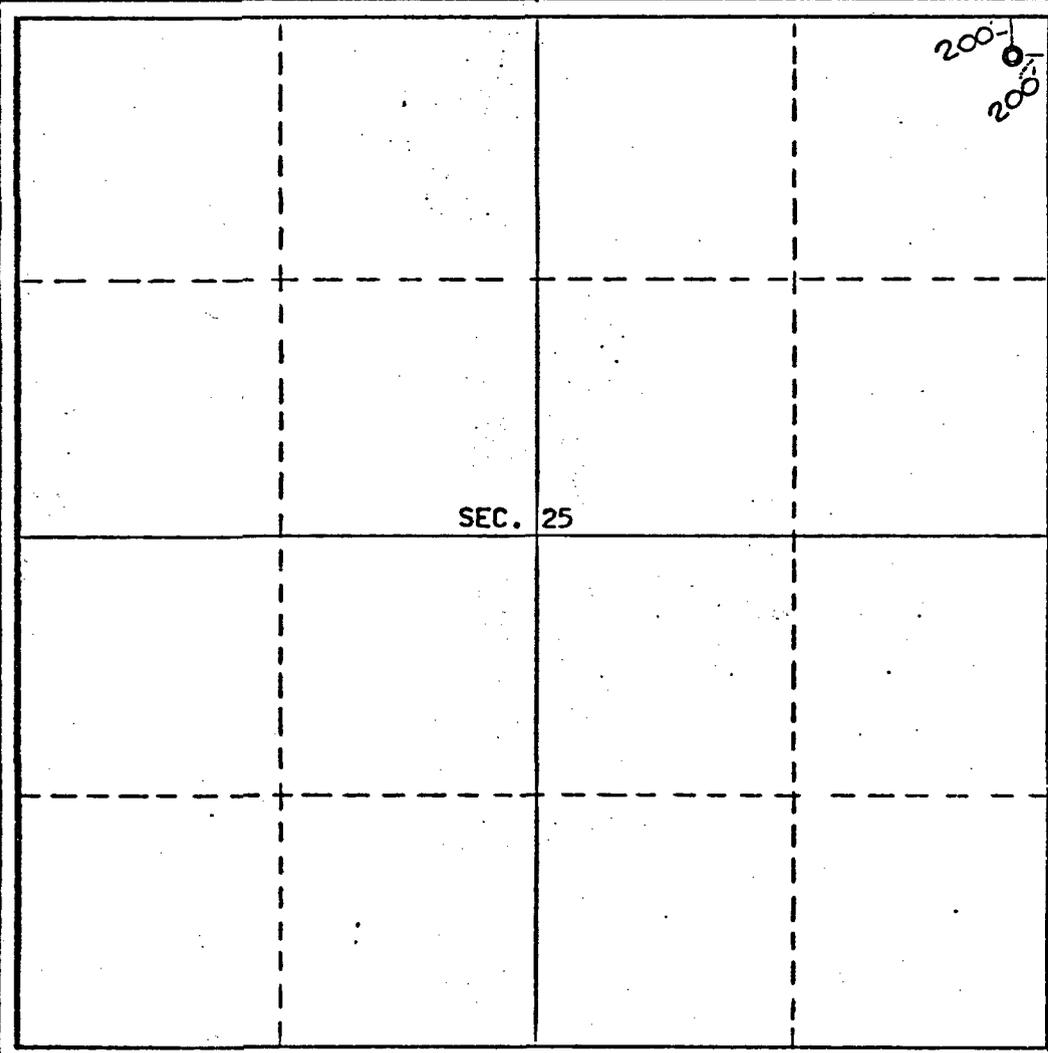
Operator Atlantic Richfield Company		Lease Horseshoe Gallup Unit		Well No. 288
Unit Letter A	Section 25	Township 31 North	Range 17 West	County San Juan
Actual Footage Location of Well: 200 feet from the North line and 200 feet from the East line				
Ground Level Elev. 5749	Producing Formation Gallup	Pool Horseshoe Gallup	Dedicated Acreage: NA- Unitized	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name: *W. A. Walther, Jr.*

Position: **W. A. Walther, Jr.**

Dist. Prod. & Drlg. Supt.

Company: **ATLANTIC RICHFIELD COMPANY**

Date: **Oct. 28, 1975**

Registered Land Surveyor Seal: **STATE OF NEW MEXICO**
 Registered Professional Engineer and/or Land Surveyor
 V. ECHOHAWK
 Reg. No. 3602

Date Surveyed: **October 7, 1975**

Certificate No. **3602**
E.V. Echohawk LS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

(Other instructions on reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. LEASE DESIGNATION AND SERIAL NO. 11-20-603-2037

2. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo

3. UNIT AGREEMENT NAME Horseshoe Gallup Unit

4. FARM OR LEASE NAME Horseshoe Gallup Unit

5. WELL NO. 288

6. FIELD AND POOL, OR WILDCAT Horseshoe Gallup Unit

7. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Section 25-31N-17W

8. COUNTY OR PARISH San Juan 9. STATE New Mexico

10. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approx 3 mi east & 10 mi NE f/ Shiprock, N.M.

11. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 200' f/Tr.15 line

12. NO. OF ACRES IN LEASE Tr.15 - 600 Ac.

13. NO. OF ACRES ASSIGNED TO THIS WELL NA - Unitized

14. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 650' f/#119

15. PROPOSED DEPTH 1650'

16. ROTARY OR CABLE TOOLS Rotary

17. ELEVATIONS (Show whether DF, RT, GR, etc.) 5749' GL

18. APPROX. DATE WORK WILL START* When appl rec'd

19. PROPOSED CASING AND CEMENTING PROGRAM Est. 11/5/75

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	120'	120 sx (Cmt to surface)
7-7/8"	5-1/2"	14#	T.D.	225 sx

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops: Upper Gallup 1415', Lower Gallup 1530'. Will set 8-5/8" CD casing at approx 120' and cement to surface; drill 7-7/8" hole to T.D. and log; If productive, set 5-1/2" CD casing with sufficient cement to protect all zones. Productive zone(s) will be perforated, treated if necessary, and well completed.

Re: New Mexico Oil Conservation Commission Order No. R-2210 and R-2210-A

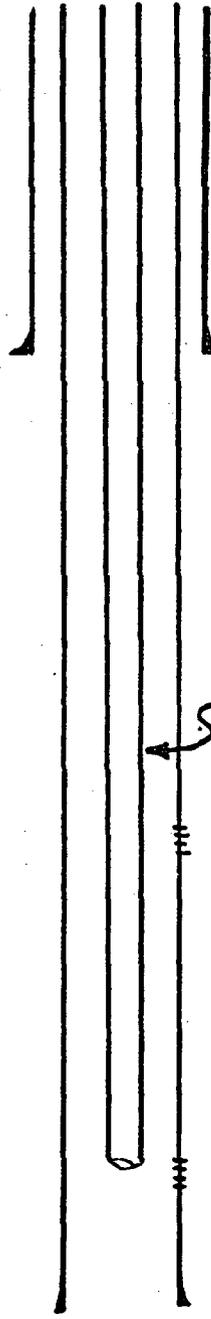
Attachments: Certified Location Plat
Pertinent Drilling Information
Development Plan For Surface Use w/ Att.

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

34. SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 10/28/75
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Elevation 5749'



8-5/8" OD Casing set at 120' and cemented to surface

2-3/8" OD EUE tubing

Upper Gallup - Perforated as indicated from logs.

Lower Gallup - Perforated as indicated from logs.

5-1/2" OD casing set at total depth with sufficient cement to protect all zones.

1650' Estimated total depth.

HORSESHOE GALLUP UNIT, WELL NO. 288
Unit "A" - 200' f/ North line and
200' f/ East line of
Section 25-31N-17W
San Juan County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

RECEIVED
NOV - 2 1975

All distances must be from the outer boundaries of the Section

Operator Atlantic Richfield Company		Lease Horseshoe Gallup Unit		Well No. 289
Unit Letter E	Section 32	Township 31 North	Range 16 West	County San Juan

Actual Footage Location of Well:
1335 feet from the **North** line and **1250** feet from the **West** line

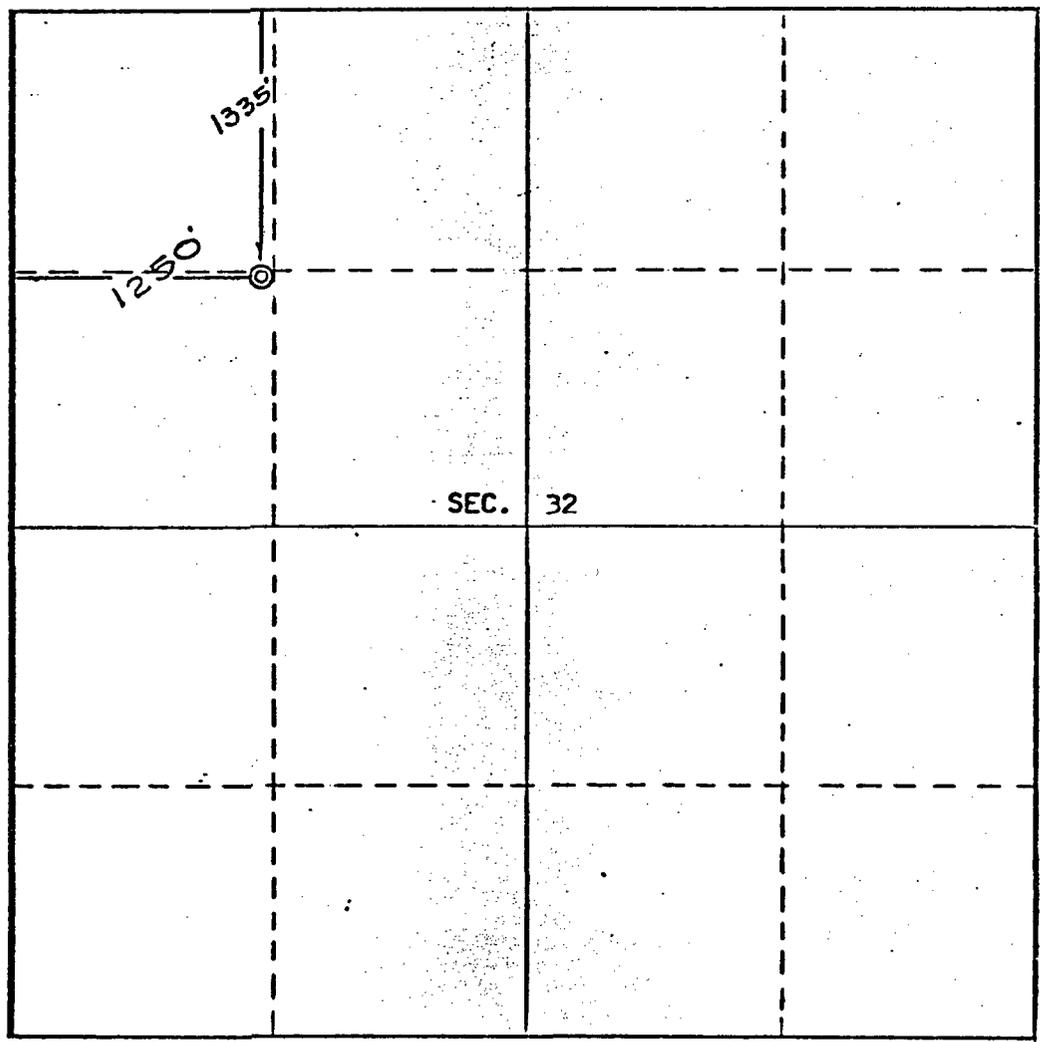
Ground Level Elev. 5390	Producing Formation Gallup	Pool Horseshoe Gallup	Dedicated Acreage: NA-Unitized Acres
-----------------------------------	--------------------------------------	---------------------------------	------------------------------------------------

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

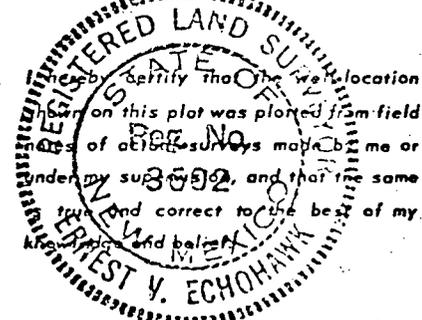
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

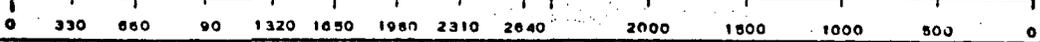
Name W. A. Walther, Jr.
 Position Dist. Prod. & Drlg. Supt.
 Company ATLANTIC RICHFIELD COMPANY
 Date Oct. 28, 1975



Date Surveyed
October 7, 1975

Registered Professional Engineer
and/or Land Surveyor

E. Y. Echohawk
 Certificate No. **3602**
E. Y. Echohawk LS



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Atlantic Richfield Company

3. ADDRESS OF OPERATOR
 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 Unit "E" - 1335' f/North & 1250' f/West lines Sec. 32
 At proposed prod. zone
 Approx same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx 3 mi east and 9 mi NE from Shiprock, New Mexico

5. LEASE DESIGNATION AND SERIAL NO.
 11-20-603-734

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Navajo

7. UNIT AGREEMENT NAME
 Horseshoe Gallup Unit

8. FARM OR LEASE NAME
 Horseshoe Gallup Unit

9. WELL NO.
 289

10. FIELD AND POOL, OR WILDCAT
 Horseshoe Gallup

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 32-31N-16W

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 3945' f/Tr. 12 line

16. NO. OF ACRES IN LEASE
 Tr. 12 - 2044.14 Ac
 Unit - 13,527.80 Ac

17. NO. OF ACRES ASSIGNED TO THIS WELL
 NA - Unitized

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 828' f/#44

19. PROPOSED DEPTH
 1335'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5390' GL

22. APPROX. DATE WORK WILL START*
 When appl rec'd
 Est. 11/5/75

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	21#	120'	120 sx (Ont to surface)
7-7/8"	5-1/2"	11#	T.D.	225 sx

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops are: Upper Gallup 1115', Lower Gallup 1215'. Will set 8-5/8" OD casing at approx 120' and cement to surface; drill 7-7/8" hole to T.D. and log; if productive, set 5-1/2" casing with sufficient cement to protect all zones. Productive zone(s) will be perforated, treated if necessary, and well completed.

Attachments: Certified Location Plat
 Pertinent Drilling Information
 Development Plan for Surface Use w/ att.

Re: New Mexico Oil Conservation Commission Order No. R-2210 and R-2210-A

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

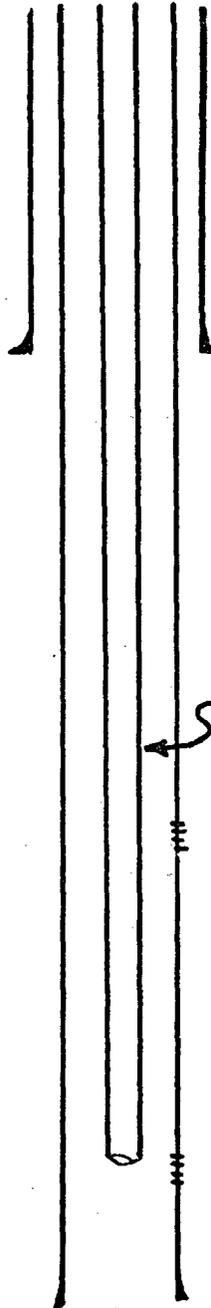
24. SIGNED W. A. Halther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 10/28/75
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Elevation 5390'



8-5/8" OD Casing set at 120' and cemented to surface

2-3/8" OD EUE tubing

Upper Gallup - Perforated as indicated from logs.

Lower Gallup - Perforated as indicated from logs.

5-1/2" OD casing set at total depth with sufficient cement to protect all zones.

1335' Estimated total depth.

HORSESHOE GALLUP UNIT, WELL NO. 289
Unit "E" - 1335' f/ North line and
1250' f/ West line of
Section 32-31N-16W
San Juan County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

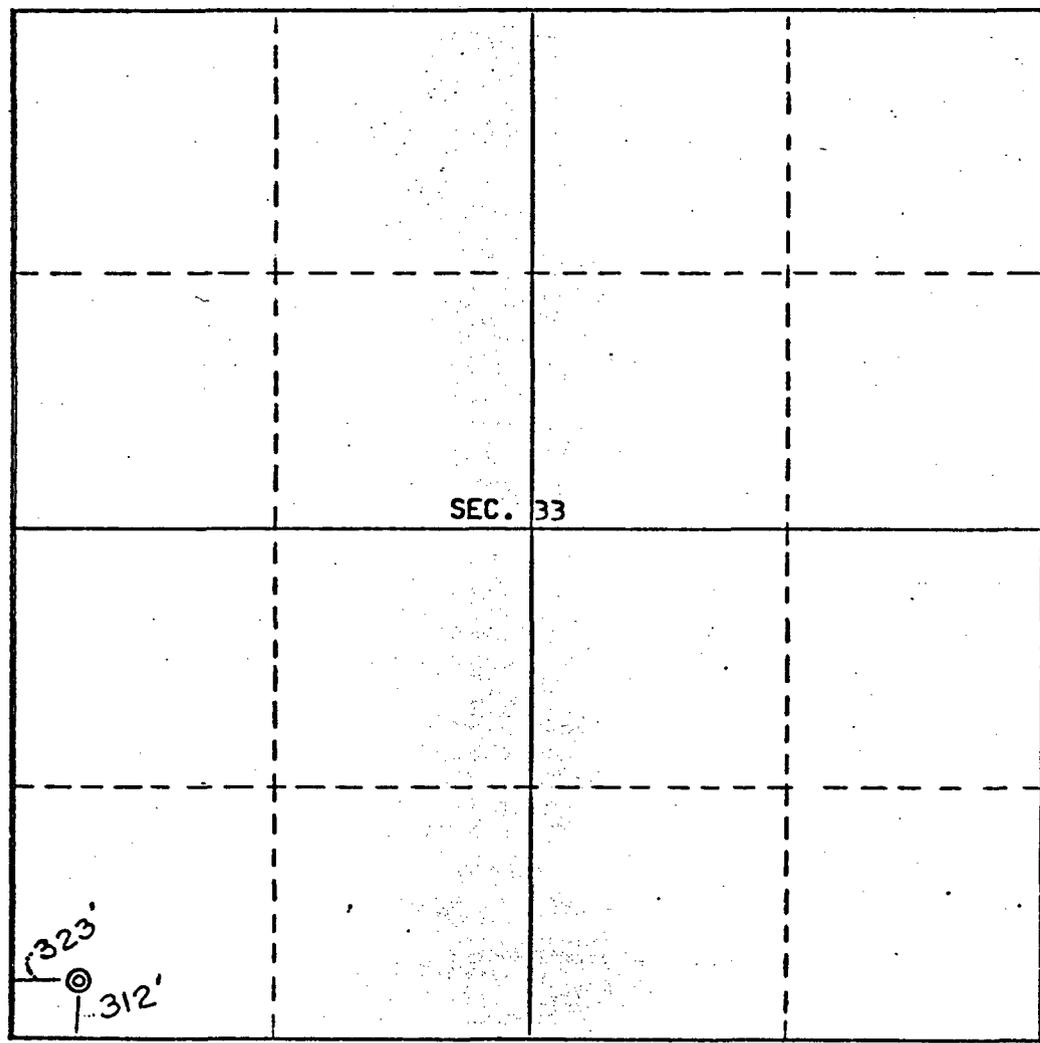
Operator Atlantic Richfield Company		Lease Horseshoe Gallup Unit		Well No. 290
Unit Letter M	Section 33	Township 31 North	Range 16 West	County San Juan
Actual Footage Location of Well: 312 feet from the South line and 323 feet from the West line				
Ground Level Elev. 5331	Producing Formation Gallup	Pool Horseshoe Gallup	Dedicated Acreage: NA - Unitized Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

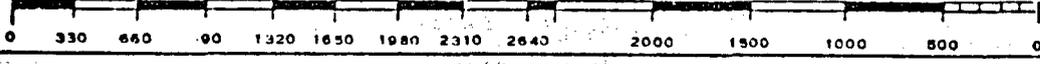
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name W. A. Walther, Jr.
 Position Dist. Prod. & Drlg. Supt.
 Company ATLANTIC RICHFIELD COMPANY
 Date Oct. 28, 1975

REGISTERED LAND SURVEYOR
 I hereby certify that the well location shown on this plat was plotted from 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.
 E. V. ECHOHAWK

Date Surveyed October 7, 1975
 Registered Professional Engineer and/or Land Surveyor

E. V. Echohawk
 Certificate No. 3602
E.V. Echohawk LS



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NOV - 7 1975

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK ^{South Co}

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Atlantic Richfield Company

3. ADDRESS OF OPERATOR
 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface
 Unit "M" - 312' f/South and 323' f/West lines Sec. 33
 At proposed prod. zone
 Approx same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx 3 mi east and 10 mi NE from Shiprock, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 312' f/Tr.12 line

16. NO. OF ACRES IN LEASE
 Tr.12 - 2044.14 Ac
 Unit - 13,527.80 Ac

17. NO. OF ACRES ASSIGNED TO THIS WELL
 N/A - Unitized

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 570' f/#208

19. PROPOSED DEPTH
 1310'

20. ROTARY OR CABLE TOOLS
 Rotary

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 Unit

9. WELL NO.
 290

10. FIELD AND POOL, OR WILDCAT
 Horseshoe Gallup

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
 Section 33-31N-16W

12. COUNTY OR PARISH
 San Juan

13. STATE
 New Mexico

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5331'

22. APPROX. DATE WORK WILL START*
 When appl rec'd
 Est. 11/5/75

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	120'	120 sx (Cmt to surface)
7-7/8"	5-1/2"	14#	T.D.	225 sx

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops are: Upper Gallup 1085'; Lower Gallup 1190'. Will set 8-5/8" OD casing at approx 120' and cement to surface; drill 7-7/8" hole to T.D. and log; if productive, set 5-1/2" casing w/ sufficient cement to protect all zones; productive zone(s) will be perforated, treated if necessary, and well completed.

Attachments: Certified Location Plat
 Pertinent Drilling Information
 Development Plan for Surface Use w/ att.

Re: New Mexico Oil Conservation Commission Order No. R-2210 and R-2210-A

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

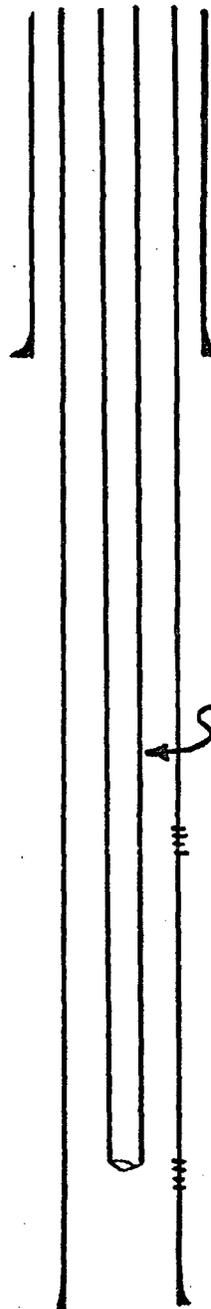
24. SIGNED W. A. Walther, Jr. TITLE Dist. Prod. & Drlg. Supt. DATE 10/28/75
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Elevation 5331'



8-5/8" OD Casing set at 120' and cemented to surface

2-3/8" CD EUE tubing

Upper Gallup - Perforated as indicated from logs.

Lower Gallup - Perforated as indicated from logs.

5-1/2" OD casing set at total depth with sufficient cement to protect all zones.

1310' Estimated total depth.

HORSESHOE GALLUP UNIT, WELL NO. 290
Unit "M" - 312' f/ South line and
323' f/ West line of
Section 33-31N-16W
San Juan County, New Mexico