AtlanticRichfieldCompany

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





4 wells Mr. Joe D. Ramey, Secretary - Director Oil Conservation Commission, State of New Mexico P. 0. Box 2088 Santa Fe, New Mexico 87501

Rule 11 R 2210-A

Re: Horseshoe Gallup Unit San Juan County, New Mexico

Dear Mr. Ramey:

Due upon receiped of

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:

- - (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.
- 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, Jp.

Will weekers

Encls.

Uned well # 287 1450' FNL \$ 1250' FWL 24-31N-17W 200 FNL & 200' FEL 25-3/N-17W 1335'FNL 1 1250'FWL 32-31 N= 16 W

> 312 FS6 8 323 FW6 33-31N-16W # 290

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLA

Form C-102 Supersedes C-128 Effective 14-65

All distances must be from the outer boundaries of the Section

Operator					Lease				Well No.
AtlanticR				-			allup U	nitSanta Fo	
Unit Letter	Section		Township	83 m A 4	Rang		County	C	
E		4.15-11-	31	North		17 West	1	San Juan	
Actual Footage Loca			Ma			^		West	
1450	feet	from the	North	line and	125	U fee	t from the		line
Ground Level Elev.		Producing For			Pool	h C-	77	1.	Dedicated Acreage:
5830		Gall				seshoe Ga			NA - Unitized Acres Re: Order No. R-2210
1. Outline the	е асг	eage dedica	ited to the	subject we	ell by col	ored pencil o	r hachure	marks on the	Re: Order No. R-2210 plat below.
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interest an	id roy	alty).							•
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If answer	is "n	o," list the	owners an	d tract desc	riptions v	which have a	ctually be	en consolida	ted. (Use reverse side of
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Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

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Atlantic ich:	11910 Company						287	
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	Approx same						Sec. 24-31N-	-
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(Also to nearest dri	g. unit line, if any)	(3 - 11/12 020 527 02778			A - Unit	
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	30'GL	• •					When appl re	
l.	1	PROPOSED CASING	AND	CEMENTING	PROGRA	A.	Est. 11/5/75	
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7-7/8 ¹¹	5-1/2"	71/#		T.D.		225		
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	e proposed program: If drill or deepen directions y.							
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W. A.	Halther, Jr./	m-				-3		-, 1, 2
frame space for 1906	eral of State office use)							
PREMIT NO		<u> </u>	_`	APPROVAL DATE				
•	•				•			
APPROVED BY		TITLE					DATE	
, CONDITIONS OF APPROV	AL, 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 PL

All distances must be from the outer boundarie. Lease Horseshoe Gallup Unit AtlanticRichfieldCompany Unit Letter Section Township County () CSameDuanTION COMM. 31 North 17 West Actual Footage Location of Well: 200 East North Ground Level Elev. **Producing Formation** Dedicated Acreage: NA- Unitized Horseshoe Gallup 5749 Gallup 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? Unitization If answer is "yes," type of consolidation __ X Yes 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 200 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief W. A. Waltner, Jr. Dist. Prod. & Drlg. Supt. ATLANTIC RICHFIELD COMPANY Oct. 28 SEC. ED LAND 9 sup3002 and that the same Date Surveyed October 7, 1975 Registered Professional Engineer and/or Land Surveyor Certificate No. E.V.Echohawk LS

1000

660

1370 1550 1980 2310 2640

SIZE OF HOLE

12-1*/*և"

SUBMIT IN TRIPLICATE*

Form approved. Budget Bureau No. 42-R1425.

(Other instructions on

UNITED STATES - reverse side) [DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SESIAL NO. **GEOLOGICAL SURVEY** 11:-20-603-2037 IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Navajo Is, TIPE OF WORK T. WHIT AGREEMENT NAME DEEPEN [] PLUG BACK U DRILL 2 Santa l'e Horseshoe Gallum Unit MULTIPLE Bingle Zone \square S. FARM OR LEASE NAME WELL 3 2. NAME OF OPERATOR Horseshoe Gallup Unit 9. WELL NO. Atlantic Michfield Company ADDRESS OF OPERATOR 288 10. FIELD AND POOL, OR WILDCAT 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Horseshoe Callup Hain 11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA Unit "A" - 200 f/North & 200 f/East lines Sec. 25 At proposed prod. zone Section 25-31N-17W Approx same 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE Approx 3 md east & 10 mi NE f/ Shiprock, N.M. San Juan New Mexado 16. No. of acres in Lease Tr.15 - UCO Ac. Unit - 13.527.80
19. PROPOSED DEPTH 15. DISTANCE FROM PROPOSED* 200' 1/Tr.15 line PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 17. NO. OF ACRES ASSIGNED TO THIS WELL NA - Unitized 20. BOTARY OR CABLE TOOLS

18. DISTANCE FROM PROPOSED LOCATION® TO NEAREST WELL, DRILLING, COMPLETED, 650 1/#119 OR APPLIED FOR, ON THIS LEASE, FT. . lotary 16501 21. BLEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 57491 GL When appl rec'd 23 Est. 11/5/75 PROPÒSED CASING AND CEMENTING PROGRAM QUANTITY OF CEMENT

7-7/8" 5-1/2" 110# 225 sx T.D. 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"OD casing at approx 120' and cement to surface; drill 7-7/09 hole to T.D. and log; If productive, set 5-1/2"CD casing

with sufficient cement to protect all zones. Froductive zone(s) will be perforated,

SETTING DEPTH

1201

120 sx (Cmt to surface)

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

Attachments: Certified Location Plat

SIZE OF CASING

8-5/8"

treated if necessary, and well completed.

Pertinent Drilling Information

Development Plan For Surface Use w/ Att.

WEIGHT PER FOOT

21世

EN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive sone. 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,

(This space for Federal or State office use) PERMIT NO. APPROVAL DATE	BIONED Wawallh	ls for	TITLE Dist. Prod. & Drlg. Supt.	DATE 10/28/75
APPROVAL DATE	• •	hcé use)		
APPROVED BY	•			DATE

Elevation 57491

8-5/8"CD 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 GAILUP 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

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Operator Atlantic	RichfieldComp	pany		rseshoe G	allup Ur	kseryation (it enta Fe	289 .
Unit Letter	Section	Township	Range		County		
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Actual Footage Loc		1 a 4 b		1		Was+	
1335 Ground Level Elev.	Producing For	orth line and	1250 Pool	fee	et from the	West	line dicated Acreage:
5390	Gallup	1	-	eshoe Gal	luo	1 -	A_1(mi+11
							a. Urder B-2210 A
1. Outline th	e acreage dedica	ited to the subject we	ii by cold	orea pencii c	or nachure	marks on the p	plat below.
9 If more th	an one lease is	dedicated to the well	outline	each and ide	entify the c	ownership ther	enf (both as to working
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dated by c	ommunitization,	unitization, force-poolir	ng. etc?		••		•
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X Yes	☐ No If a	nawer ta yea, type of	COURDING		OT VOIOT		
If answer	is "no." list the	owners and tract descr	riptions w	hich have a	ctually bee	en consolidate	d. (Use reverse side of
	f necessary.)		•		,		
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1500

b. TYPE OF WELL

NAME OF OPERATOR

2. ADDRESS OF OPERATOR

15. DISTANCE FROM PROPOSED*

BUBMIT IN TRIPLICATE (Other instructions on

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

UNITED STATES		e) ".;;		
DEPARTMENT OF THE I	NTERIOR CONTRACT	:23 i	5. LEASE DESIGNATION	ND BERLAL NO
GEOLOGICAL SURVI	NIERIOR	ا با حمر بيوسد.	<u> 1120-603-7</u>	34
APPLICATION FOR PERMIT TO DRILL, I	DEEPEN, OR PLUGIBA	ACKON	MG. IF INDIAN, ALLOTTEE	OR TRIBE NAME
. TIPE OF WORK	sonia Fo		avajo	
DRILL 🔀 DEEPEN [PLUG BAC	K 🔲 ∤	7. UNIT AGREEMENT NA	ME
TIPE OF WELL		1	<u> Horseshoe Ga</u>	llup Unit
OIL GAS WELL OTHER	SINGLE X MULTIPLE ZONE		8. FARM OR LEASE NAM	E
NAME OF OPERATOR			Horseshoe Ga	llup Unit
Atlantic Michfield Company		. [9. WELL NO.	
ADDRESS OF OPERATOR			289	
501 Lincoln Tower Bldg., 1860 Lincoln	St., Danver, Colol 8	0203	10. FIELD AND POOL, OF	WILDCAT
LOCATION OF WELL (Report location clearly and in accordance wit At surface	h any State requirements.*)		Horseshoe Ga	
Unit "E" - 1335' f/North & 1250' f/We	st lines Sec. 32	İ	11. SEC., T., R., M., OR B AND SURVEY OR ARI	
At proposed prod. zone		ı	Section 32-3	111_1 <i>6</i> 1
Approx same				
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POS		İ	12. COUNTY OR PARISH	13. STATE
Approx 3 mi east and 9 mi NE from Ship	rock, New Mexico		San Juan	New Nexico
LOCATION TO NEAREST 3945! f/Tr.12 line	16. NO. OF ACRES IN LEASE Tr. 12 - 2011.11 AC		F ACRES ASSIGNED	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)	Unit - 13.527.60 Ac		- Unitized	
DISTANCE FROM PROPOSED LOCATION®	19. PROPOSED DEPTH	20. ROTAR	RY OR CABLE TOULS	· · · · · · · · · · · · · · · · · · ·
TO NEAREST WELL, DRILLING, COMPLETED, 281 1/4 11	13351	Rot	ary	

21. BLEVATIONS (Show wh	ether DF, RT, GR, etc.)	53901 GL		22. APPROX. DATE WORK WILL STAET. When appl rec'd
23.		PROPOSED CASING AND	CEMENTING PROGR	1004 1976 198
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/l:"	8-5/8"	21#	1201	120 sx (Cut to surface)
7-7/8"	5-7/2"	1).#	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 preductive, but 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

EN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive sone and proposed new productive some. 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, Dist. Prod. & Drlg. Supt. 10/28/75 alther. (This space for Federal or State office use) PERMIT NO. APPROVED BY CONDITIONS OF APPROVAL, IF ANY:

Blevation 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-1/2 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Horseshoe Gallup Unit AtlanticRichfieldCompany Unit Letter Township County. San Wdan 31 North 16 West 33 Actual Footage Location of Well: 323 West South feet from the line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Acreage: Horseshoe Gallup NA - Unitized Acres 5331 Gallup 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the Pidt below. R-2210-A 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? Unitization If answer is "yes," type of consolidation _ X Yes 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 Dist. Prod. & Drlg. Company ATIANTIC RICHFIELD CC:PANY SEC. WED LAND SU heady certify that Shown on this plat was plotted from field anderies sur sur sera and that the same save and correct to the best of my knowledge and bettel ECHONICAL Date Surveyed October 7, 1975 Registered Professional Engineer and/or Land Surveyor E. V. Och Certificate No.3002 E.V.Echohawk LS 660

12-1/4"

7-7/8"

MIT IN TRIPLICATE?	٠.٠	44	Form a	pproved		
MIT IN TRIPLICATES	1	į	Budget	Bureau	No.	42-R142
reverse aldel	ίŧ	- 6	t.			

QUANTITY OF CEMENT

120 sx (Cmt to surface)

225 sx

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		GEOLO	GICAL SURV	EY		≤ 14116	- 7 197	14-20-603	3-734
APPLICATIO	ON FOR I	PERMIT	TO DRILL, I	DEEPEN,	OR I	PUG-E	ACKN	G. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK				_		Sa	no Ee	Navajo 7. Unit agreement n	
D	RILL 🗷		DEEPEN		PL	.UG BA	CK 📙		
OIL X	GAS WELL	OTHER		BINGLE ZONE	<u>-</u>	MULTIP ZONE	LE	Horseshoe Ga	
2. WAME OF OPERATOR			1				 -	Horseshoe Ga	linit.
Atlantic di	chfield C	ompany						9. WELL NO.	TTAP OILLO
3. ADDRESS OF OPERATO	R							290	
501 Iincoln	Tower Bl	dg., 18	60 Lincoln	St., De:	nver,	Colo.	80203	10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL At surface								Horseshoe Ga	
Unit "M" -	312' f/S	outh an	d 323 f/vie	st line	s Sec	. 33		11. SEC., T., R., M., OR E AND SURVEY OR AR	LK. EA
At proposed prod.	tone	x same						Section 33-3	31N-16H
14. DISTANCE IN MILE	S AND DIRECTIO	ON FROM NEA	REST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH	13. STATE
Approx 3 m	i east ar	id 10 mi	NE from Sh	iprock,	New 1	exico		San Juan	New Mexic
15. DISTANCE FROM PRO- LOCATION TO NEAR PROPERTY OR LEAS (Also to pearest of	OPOSED* EST 312 E LINE, FT.	f/Tr.		Tr.12 Unit -	261:4	· LEASE	TO T	of acres assigned his well. - Unitized	
18. DISTANCE FROM PE			. 1	19. PROPOS	ED DEPTE	i	-	RY OR CABLE TOOLS	
TO NEAREST WELL OR APPLIED FOR, ON		1PLETED, 5	70! f /#208	13	101		िर्ध	tary	
21. ELEVATIONS (Show	whether DF, R7	, GR, etc.)						22. APPROX. DATE WO	RK WILL START
		•	5331					When appl re	ec¹d
23.			PROPOSED CASI	NG AND CE	MENTIN	G PROGRA	AM	Est. 11/5/75	<u> </u>
SIZE OF HOLE	SIZE O	F CASING	WEIGHT PER F	00Т	SETTING	DEPTH	1	QUANTITY OF CEMEN	T

SUB

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 5-3/2" cosing w/ sufficient cement to protect all zones; productive zone(s) will be perforated, treated if necessary, and well completed.

320°

T.D.

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

8-5/8"

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

214

114

RONED Wall	1.0+11.	201		Diet Deed 1 Dee	- C	30/00/25
This space for Federal or	oner - Jr.	+++W	TITLE	Dist. Prod. & Drl	No Supto DAT	10/20/15
		•				
ERMIT NO.				APPROVAL DATE		

Blevation 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.

HORSESHŒ 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