AtlanticRichfieldCompany

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

W. A. Walther, Jr. Operations Manager

June 7, 1976



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

Re: Horseshoe Gallup Unit San Juan County, New Mexico NSL-776
Due upon receipt of approval from lagree

Dear Mr. Ramey:

Rule 11, R-2210-A

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 seven (7) 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 seven (7) 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, (r.)

Encls. HGU 291 50'FNL \$ 50'FEL Sec 23 } T31N, R17W

292 2474'FSL \$ 2463'FEL Sec 24 } T31N, R17W

293 1260'FNL \$ 1470'FWL Sec 30

294 1378'FSL \$ 1330'FEL Sec. 30 } T31N, R16W

295 50'FNL \$ \$0'FEL Sec. 31

296 1350'FSL \$ 1250'FEL Sec 3 2

297 1550'FSL \$ 1250' FEL Sec 4, T30 N, R16W

COMDITIONS OF APPROVAL, IF ANY :

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

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

			All dista	nces must be fro	om the out	er boundaries o	of the Section	•	
Operator Atla	ntic	Richfiel	d Compa	ny	Lease				Well No. 291
Unit Letter	Sectio	23	Township	31	Rang	17	County	~ San Ju	an
Actual Footage Loc 50			orth	line and	5(0 ,	et from the	East	line
round Level Elev. 5873		Producing For	mation Tup		Pool	Horsesho)	Dedicated Acreage: NA - Unitized Acres
1. Outline th	e acre	age dedica	ted to the	subject we	ll by co	lored pencil	or hachure	marks on th	Re. Order No. R-221
2. If more the			dedicated	to the well	, outline	each and id	lentify the	ownership tl	nereof (both as to working
				wnership is d , force-poolin		to the well	, have the	interests of	all owners been consoli-
X Yes				yes," type of		dation Un	itizatio	n	
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sion.									
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			SEC.	23		<u> </u>		141	ED LAND Sing
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1000000	1				dragostic te la	- Andrews of the offi		Certificate !	10.3602 F.V.Fchohawk I.S

Elevation 58731 - GL, Ungraded

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 GALIUP UNIT, Well No. 291
Unit "A" - 50' f/North' & 50' f/East lines
Section 23-31N-17W
San Juan County, New Mexico

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425,

UNITED STATES

OFPARTMENT OF THE INTERIOR

	PLIANTMENT	01 1112 111121		y*	5. LEASE DESIGNATION	N AND SERIAL, NO.
	GEOLO	SICALSURVEY		•	11:-20-603-	20 37
APPLICATION	I FOR PERMIT T	ONDRILL DEEP	EN. OR PLUG B	ACK	6. IF INDIAN, ALLOTTI	EE OR TRIBE NAME
la. TYPE OF WORK	1:-7		,		Navajo	-
DRI	LL 🗷 🕌 HIM .	3 DEEBEN/	PLUG BAC	K 🗌	7. UNIT AGREEMENT	
D. TYPE OF WELL		Company & Same	INGLE TO MULTIPI	ar (~)	Horseshoe Ga	allup Unit
WELL A WI	ELL OTHER	ATION COMINI- ZO	NE Z ZONE		.1	
2. NAME OF OPERATOR		ta Fo			Horseshoe Ga	allup Unit
Atlantic lichi 3. ADDRESS OF OPERATOR	ield Company			*****	292	
	ower Bldg., 1860		Denver Colo 8	0203	10. FIELD AND POOL,	OR WILDCAT
4. LOCATION OF WELL (Re	eport location clearly and	in accordance with any S	State requirements.	0203	Horseshoe Ga	allun
At surface	1741 f/South & 2	1.631 P/R+ 74.	C Ol		11. SEC., T., R., M., OR AND SURVEY OR	•
At proposed prod. zone		1403. 1/East 11	nes sec. 24			
	Approx. same				Sec. 24-31N.	•
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC	E.		12. COUNTY OR PARIS	H 13. STATE
	See attached ma				San Juan	New Mexico
	sep* 166 f/Tr.	15 line $T_{r}^{16. NG}$	15 - 880.00 Ac.	17. NO. 0	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	. unit line, if any)	Unit	- 13,527.80 Ac	N	/A Unit	
18. DISTANCE FROM PROPO TO NEAREST WELL, DI	RILLING, COMPLETED,	-,]	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	is lease, ft. My SE S	Sec. 24 1	5301	Rota	Ty 22. APPROX. DATE W	
3). BLEVATIONS (Show whe			•		When appls	
5707 GI					Rd & loc est	
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SILE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT
12-1/4"	8-5/8"	21,#	1201	125	sx (Cmt to su	rface)
7- 7/8"	5-1/2"	11#	T.D	225	sx	
Upper Gallu 120' and ce casing w/s treated if	Pertinent Dr Development	Gallup 1415'. c drill 7-7/8" t to protect all well completed, vation Commissi cation Plat illing Informat Plan for Surface	Will set 8-5/8 hole to T.D.; 1 ll zones. Produ ion Order No. R- tion be Use w/ att.	B"OF su log; i: uctive	rface casing f productive, zone(s) will	at approx. set 5-1/2"OI
	Archaeologic	al Clearance Re	eport			
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	: PROPOSED PROGRAM: If p drill or deepen directiona y.					
24.	A 1 11/	1,				
SIGNED W. A.	NWalther Jr. 2	TITLE C	perations Manag	er	DATE6/	l ₄ /76
(This space for Fede	ral or State office use)	اربهر				
PERMIT NO.	•		APPROVAL DATE			
	* <u>-</u>	•	v v			
CONDITIONS OF APPROV	AI PERANT	TITLE	<u> </u>		DATE	
-Auritings of VLIKOA	AU, 15 AGI.			-		

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

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

Operator			Leo			Well No.
Atla	ntic Richfiel	d Compan	y			292
Unit Letter	Section	Township	 	Range	County	
J	24	3	1	17	San Juan	1
Actual Footage Loc	•		***************************************	•		
2474	feet from the Sot	ith	line and	2463 tee	t from the East	line
Ground Level Elev.	Producing For		Poo		0-11-	Dedicated Acreage:
5707	<u> </u>	allup		Horseshoe	Gallup	NA - Unitized Acres
1. Outline th	e acreage dedica	ted to the	subject well l	by colored pencil o	r hachure marks on t	Re: Order No. R-2210 the plat below.
	an one lease is nd royalty).	dedicated	to the well, or	ıtline each and ide	ntify the ownership	thereof (both as to working
	n one lease of dommunitization,		•		have the interests o	of all owners been consoli-
X Yes			res;" type of co		itization	
LN Ics			co, type or co	·		
		owners and	l tract descript	ions which have ac	ctually been consolie	dated. (Use reverse side of
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				!	1 1	W. A. Walther, Jr.
	.		•	1	Operat	tions Manager
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Elevation 5707: - GL, Ungraded

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.

1530: Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 292
Unit "J" - 2474' f/South & 2463' f/East lines
Section 24-31N-17W
San Juan County, New Mexico

SUBMIT IN TRIPLICATE® (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES (Other Instruct reverse side)
DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK APPLICATION FOR PERMIT TO DRILL DEEPEN OR PLUG BACK THE OF WORK DRILL DEEPEN OR PLUG BACK AND A PROPERTY OF THE WORK		DEPARTMEN	T OF THE IN	ITEF	RIOR		5. LEASE DESIGNATION AND SERIAL NO.
Name of the content		GEOLO	GICAL SURVE	Y			14-20-603-734
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At Section 1 to 1 to 1 to 1 to 1 to 1 to 1 to 1	b. Tipe of Well	us CT	DEEPEN	- ð]	MIO NED		7. UNIT AGREEMENT NAME Horseshoe Gallup Unit
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501 Lincoln Tower Bidg., 1860 Lincoln St., Denver, Colo., 80203 10. Filling and Foot, on Wildcare Beauty of the Science of the Color o		field Company	CONS	ERVIN	((
Horseshoe Callup As surface Unit "C" - 2260' f/North & 1h70' f/Nest lines Sec. 30 At proposed prod. 2006 Approx. Same Emprance from Proposed prod. 2006 Approx. Same See attached maps Sentrance from Proposed prod. 2006 f/Tr.12 line Fr. 12 - 2601 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr. 13 - 260 f/Tr.12 line Fr	ADDRESS OF OPERATOR		015 1.0.	Saff			293
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Approx. same Ap	LOCATION OF WELL (R. At surface	eport location clearly an	d in accordance with	any S	tate requirements.*)		l
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See attached maps See attached maps Beaution to marker 12601 f/Tr.12 line fr.12 - 20lii.lil Ac Tr.18	ze proposed prod. 2011	▲	e		•		Sec. 30-31N-16W
6. DEFENCE FROM PROPOSED 12601 f/Tr.12 line 16. No. or ASSESSIVE FLASH 1.00	f. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE	; *		12. COUNTY OR PARISH 13. STATE
Above Space to decide the unit line. It any any approved to the second of the content of the con			maps				
TREASE TWELL PRECIOUS COMPLETED. **APPENDATIONS** (Show whether DF, RT, GR, etc.) **SECTIONS** (Show whether DF, RT, GR, etc.) **SECTIONS** (Show whether DF, RT, GR, etc.) **SECTIONS** (Show whether DF, RT, GR, etc.) **PROPOSED CASING AND CEMENTING PROGRAM **THE OF ROLE** SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH CHARACTER (P2) **SIZE OF ROLE** SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH COLANITY OF CEMENT PER FOOT 12-1/h" 8-5/8" 21# 120! 120 sx (Cmt to surface) **THE OF ROLE** SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH CHARACTER (P2) **THE OF ROLE** SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH COLANITY OF CEMENT PER FOOT SETTING DEFTH CHARACTER (P2) **SIZE OF ROLE** SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH CHARACTER (P2) **SIZE OF CASING WEIGHT PER FOOT SETTING DEFTH COLANITY OF CASING THE APPROVALED OF THE	PROPERTY OR LEASE I	INE, FT.				TO T	HIS WELL
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PROPOSED CASING AND CEMENTING PROGRAM Nd & loc est 7/1/76.	TO NEAREST WELL, D OB APPLIED FOR, ON TH	rilling, completed. Is lease, pt. in NE N	W Sec.30	19	5101	Ro	tary tools
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Upper Gallup 1300', Lower Gallup 1h00'. Will set 8-5/8" surface casing at approx 120 and cement to surface; drill 7-7/8" hole to T.D.; log; if productive, set 5-1/2" OD ca 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 R-2210 & R-2210-A Attachments: Certified Location Plat Pertinent Drilling Information Development Plan for Surface Use w/ att. Archaeological Clearance Report ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blows retenter program. If any. SIGNED Walltham Title Operations Manager Date 6/11/76 TITLE Operations Manager Date 6/11/76	•				*		
Archaeological Clearance Report ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive needs. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowderenter program, if any. BIGNED Was Walther, Jr. Operations Manager DATE 6/1/76 (This space for Federal or State office use) PERMIT NO. APPROVAL DATE	Upper Gallup and cement twith sufficitreated if r	o 1300', Lower to surface; dri lent cement to necessary, and tico Oil Conser Certified Lo Pertinent Dr	Gallup 1400' 11 7-7/8" ho protect all well complet vation Commi cation Plat illing Infor	zone zone ced. issic	Vill set 8-5/8" to T.D.; log; inces. Productive on Order No. %	surfa f prod zone(ce casing at approx 120 uctive, set 5-1/2"OD cass) will be perforated,
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new production. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowderenter program, if any. SIGNED W. A. Walther, Jr., Title Operations Manager DATE 6/4/76 (This space for Federal or State office use) PERMIT NO					▼		
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	(This space for Fede	Walther, Jr	m			~;>~ *	UNIE
	Bedween Po						
APPROVED BY	FEBRIT NU.			:	APPROVAL DATE		
	APPROVED BY	; :	## P ## 4	<u>:</u>	•		

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

All distances must be from the outer boundaries of the Section

		741 41 11 11 11 11		e outer boundaries o	· ····· bection.		
Sperator A + 1 > n	tic Dichfiold	Company	Leas	e	•		Well No.
Unit Letter	tic Richfield Section	Township		Range	County		293
C	30	31		16	1	an Juan	
Actual Footage Loc	ation of Well:		L		·•		
1260		rth	line and		et from the	West	line
Ground Level Elev. 5625	Producing For		Pool	Horseshoe	Gallup		estei Aerestei - Unitized (1988)
	e acreage dedica		biect well by				
2. If more the interest ar	an one lease is and royalty).	dedicated to	the well, out	lline each and id	entify the o	wnership thereo	of (both as to working
	ommunitization, ı	mitization, for	ce-pooling. e				owners been consoli-
this form i No allowat	is "no," list the f necessary.)ole will be assign	owners and tra	act descriptio	ons which have a	ctually bee	en consolidated.	(Use reverse side of tization, unitization, coved by the Commis-
	. ! 1			1		CEI	RTIFICATION
	260		•	1		tained herein is	that the information con- true and complete to the vledge and belief.
1470	 	-	· — — -	 		Operations	A. Walther, Jr. Manager
	i i i			1 		Date	CICHFIELD COMPANY
		SEC. 30				indir of this property of the	plat was plotted from field sylvays made by me or vision, and that the same prect to the best of my
	1 1 1 1		: :			Date Surveyed May 20, Registered Profes and/or Land Surve	976 Blonal Engineer
0 330 660	90 1320 1650 198	0 2310 2640	2000	1	500 0	Certificate No.36	<u>Strohaule</u> 02 V.Echohawk LS

Elevation 5625' GL - Ungraded

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.

1510' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 293
Unit "C" - 1260' f/North & 1470' f/West lines
Section 30-31N-16W
San Juan County, New Mexico

APPROVED BY .

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425. (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

UNITED STATES DEPARTMENT OF THE INTERIOR

	GEOLO	GICAL SURVEY	the factor of the same of the		111-20-603-7	34
APPLICATION	I FOR PERMIT T	O DRILL, DEEP	EN/OR PLUG B	<u>ACK</u>	1	E OR TRIBE NAME
1a. TYPE OF WORK	LL 🖾	DEEDEN Dag	PLUG BAC	v 🗀	Navajo	NAME
b. TYPE OF WELL		DEEPEN 176	PLUG BAC	к Ш	Horseshoe Ga	
OIL X GA	S OTHER	JUN	INGLE MULTIPE DNE ZONE		8. FARM OR LEASE NA	ME OFFI
2. NAME OF OPERATOR	₹	CONSERVATION FO			Horseshoe Ga	llup Unit
Atlantic Rich	field Company	CONSCIUM FO			9. WELL NO.	
		_		2000	294 10. FIELD AND POOL,	OB WILLDOW
4. LOCATION OF WELL (Re	port location clearly and	In accordance with any	Denver, Colo. (State requirements.*)	30203	l	
At surface	78' f/South & 3				Horseshoe Ga	BLE.
At proposed prod. zone		330	nes sec. Jo		_	
	Approx same				Sec. 30-31N-	
	ND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC	E.		12. COUNTY OR PARISE	1
	attached maps	30 3. LIC V	0.00.40000.19.7.000	10 112	San Juan	New Mexic
LOCATION TO NEAREST PROPERTY OR LEASE L			2 of acres in trass ac	TO T	HIS WELL	
(Also to nearest drlg 18. DISTANCE FROM PROP	. unit line, if any)	Unit	- 13,527.80 Ac		- Unit	
Mo Merchan Tinte of	SILLING, COMPLETED, SE SEASE, FT. W. SE	· · · · · · · · · · · · · · · · · · ·	90 t	Rot		
21. ELEVATIONS (Show whe			<i>,</i>	1000	22. APPROX. DATE W	ORK WILL START
51,77 t G	L. Ungr.				When appl re	
23.		ROPOSED CASING AN	D CEMENTING PROGRA	M	Est 7/1/76	
BIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	
12-1/4"	8-5/8"	2\u#	120	120	sx (Cmt to su	
7-7/8"	5-1/2"	1l:#	T.D.	225		111111111111111111111111111111111111111
	i	•	ł			• •
Upper Gallu 120' and ce 5-1/2"OD ca be perforat	up 1180', Lower ament to surface sing w/ sufficied, treated if	Gallup 1290'. e; drill 7-7/8 lent cement to necessary and	t to test the Gaussian Will set 8-5/8" hole to T.D.; protect all zone well completed.	OD sur log;	rface casing a if productive, roductive zone	t approx
Ra: New Ma	xico Oil Conser	rvation Commiss	ion Order No. R	-2210 (& R-2210-A	••
Attachments	Development	ocation Plat rilling Informa Plan for Surfa cal Clearance R	ce Use w/ att.			,
	drill or deepen directiona		ping back, give data on pr on subsurface locations an			
SIGNED WA	Walther Jr.	TITLE_	Operations Manag	ger	DATE6/	11.7/76
(This space for Feder	ral or State office use)	m				•
PREMIT NO.			APPROVAL DATE			

Form C-102 Supersedes C-128 Effective 1-1-85

E.V.Echohawk LS

All distances must be from the outer boundaries of the Section. Well No. Serate 294 Atlantic Richfield Company Section Township Range County Tait Le 16 San Juan 31 Actual Cootage Location of Well: /330 +325 1378 East South feet from the line and feet from the Ground .evel Elev. Producing Formation Dedicated Acreage: NA - Unitized Gallup Horseshoe Gallup 5477 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the prat below. No. R-2210-2. 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 No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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. Næme Position W. A. Walther Operations Manager Company ATLANTIC RICHFIELD COMPANY Butter D TY CONTRACTOR SEC. shown on this plat was plotted from field acts of acrost, surveys made by me or andering sup & Opp, and that the some and correct to rihe best of my The ECHOTON Date Surveyed May 20, 1976 Registered Professional Engineer and/or Land Surveyor Certificate No.3602

1500

1000

1320 1650 1960 2310 2640

Elevation 5477 GL - Ungraded

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.

1390' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 294
Unit "J" - 1378' f/South % 1325' f/East lines
Section 30-31N-16W
San Juan County, New Mexico

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

• '	DEPARTMENT	OF THE INTER	RIOR		5. LEASE DESIGNATION	AND SERIAL NO.
•	GEOLO	GICAL SURVEY	- Control of the Cont		14-20-603-7	34
APPLICATION	Y FOR PERMIT T	O DRILL, DEÉP	EN OR PLUG B	ACK	6. IF INDIAN, ALLOTTER	OR TRIBE NAME
a. TYPE OF WORK		- ACOME	HII		lavajo	
		O DEEPEN 🔲	PLUG BAC	CK 📙	7. UNIT AGREEMENT N	
	us 🗍	91912	INGLE WULTIP	LE [Horseshoe Ga	
. FAME OF OPERATOR	ELL OTHER	1011	COVE ZONE		Horseshoe Ga	-
Atlantic Rich	field Company	MOITATION	J -		9. WELL NO.	Trup orac
. ADDRESS OF OPERATOR	1,	COMP CONTO FO			295	
501 Lincoln To	field Company ower Bldg., 186	Tincoln St.,	Denver, Colo. 8	30203	10. FIELD AND POOL, O	R WILDCAT
At surface	eport rocation cicarry and		state requirements.		Horseshoe Ga	
Unit "A" - 50	' f/North & 50'	f/East lines S	ec. 31		11. SEC., T., R., M., OR E AND SURVEY OR AR	LK. EA
At proposed prod. zon	Approx same				Sec. 31-31N-	76W
I. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST OFFIC	E.		12. COUNTY OR PARISH	
	See attach	ed maps			San Juan	New Mexico
DISTANCE FROM PROPO LOCATION TO NEAREST	SED. 2301 t/Tr.	72 Jine 16. NO	O. OF ACRES IN LEASE	17. No. 0	OF ACRES ASSIGNED	1
PROPERTY OR LEASE I (Also to nearest drig	INE, FT.	Tr.1	2 - 26lili.1li Ac	1	N/A - Unit	
B. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION 862	f/#52 in 19. Pi	6 - 13.527.80 Ac	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IS LEASE, PT. NE NE S	ec. 31 13	3701	Rot	cary	
. ELEVATIONS (Show who					When appl re	
	30' GL, Ungr.				Est 7/1/76	
•	P	ROPOSED CASING ANI	CEMENTING PROGRA	M	Drlg after #	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMEN	
12-1/\(\hat{h}\)!	8-5/8"	2կ#	120'		Sx (Cmt to sur	face)
7-7/8"	5-1/2"	1l#	T.D.	225	sx	
Upper Gall 120' and c casing w/ treated if	drill well to up 1155', Lower ement to surface sufficient cemes necessary, and	Gallup 1265'. e; drill 7-7/8 nt to protect a well completed	Will set 8-5/8 hole to TD; 1 all zones. Prod	8"OD su log; i: ductive	urface casing a f productive, s e zone(s) will	et approx
Re: New M	lexico Oil Conse	rvation Commiss	sion Order No.	R-2210	& R-2210-A	
Attachment	Pertinent I Development	ocation Plat Frilling Information Plan for Surface I	ace Use			
ABOVE SPACE DESCRIBE Se. If proposal is to eventer program, if an	: PROPOSED PROGRAM: If p drill or deepen directiona y.	proposal is to deepen or p lly, give pertinent data o	olug back, give data on pi on subsurface locations an	resent prod id measure	luctive zone and proposed d and true vertical depth	d new productive s. Give blowout
l	, ,	2			-	
BIGNED U	Walther	TITLE !	Operations Mana	ger	BATE6/1:/	¹ 76
(This space for Fede	ral or State office use)	ϵ_{m}			A	
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PERMIT NO.			APPROVAL DATE			
APPROVED BY			en en en en en en en en en en en en en e			
AFFRUYED MY		T171 =	4		D.400	

Form C-102 Supersedes C-128 Effective 1-1-55

		All distan	ices must be from t	he outer boundaries of	the Section.		
Sperator			Leo	is e			Well No.
	ntic Richfiel	Township	<u>y </u>	Range	County		295
∵nit Letter A	31	Township	31	16		San Juan	
Actual Footage Loc	ation of Well:	<u> </u>		<u>L </u>	<u> </u>		
`50	feet from the	North	line and	50 fee	et from the	East	line
Ground Level Elev.	Producing For		Poc			Dedic	ated Acrea pa
5430		allup		Horseshoe	Gallup		Unitized Ames
1. Outline th	e acreage dedica	ted to the	subject well l	oy colored pencil o	or hachure ma	rks on the pla	Order No. R-2210 t below.
	_		-	- -		•	
	ian one lease is nd royalty).	dedicated	to the well, or	itline each and ide	entify the owr	nership thereof	(both as to working
2 II sh.	an and lease of d	ifferent ow	narchin ic dedi	cated to the well	have the inte	arests of all o	wners been consoli
	ommunitization,				nave the inte	rests of an o	where been conson
dated by c	Ommunication,		.o. o. postang.				
X Yes	☐ No If a	nswer is "	yes," type of co	nsolidation	Unitizatio	on	
		owners and	d tract descript	ions which have a	ctually been	consolidated.	(Use reverse side of
	f necessary.)	11	11 /	. 1 1	11.7 . 1	/1 .	
							ization, unitization,
•	ling, or otherwise	or until a	non-standard un	iit, eliminating suc	en interests,	nas been appro	oved by the Commis-
sion.		<u> </u>					· · · · · · · · · · · · · · · · · · ·
	1	, ,		!	(.97)	,50' CER	TIFICATION
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				i		I hereby certify	that the information con-
				1	,	tained herein is	true and complete to the
· .			.	i	11	best of my know	ledge and belief.
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	ı	, , <u> </u>		1		Varne .	.7 0 1
	+	- - †			/	W and	Ithis nom
	1	i		1		Position W. A.	Walther, Jr.
ł				ı		Operations	Manager
	1			\	I 6	Company	
ļ				1	1 4	ATLANTIC RI	CHFIELD COMPANY
	1			i	[Date	
	i	SEC.	31	i			11104.
 						Mercal L	AND
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	i I		:	I v	4 1	Registered Profess and/or Land Surve	•
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						E.() E	le Shank
220	20 1220 1220 12					ertificate No. 36	
330 660	90 1320 1650 19	30 2310 264	10 2000	1500 1000 • 1	100 0	L.	V.Echohawk LS

Elevation 5430' GL - Ungraded

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.

1370' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 295
Unit "A" - 50' f/North & 50' f/East lines
Section 31-31N-16W
San Juan County, New Mexico

CONDITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE® (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES

•	DEPARTMENT	OF THE INTER	RIOR	1	5. LEASE DESIGNATION AND BERIAL NO.
•	GEOLO	GICAL SURVEY			14-20-603-734
APPLICATION	FOR PERMIT 1	O DRILL DEEP	EN, OR PLUG B	ACK	G. IF INDIAN, ALLOTTEE OR TRIBE NAME
la. TIPE OF WORK	LL 🗵	DEEPEN	PLUG BAC		Navajo 7. UNIT AGREEMENT NAME
b. TIPE OF WELL	.s —	17 1111 - 8	NGLE POLITIPE	_	Horseshoe Gallup Unit
WELL 4 WI	ELL OTHER	1500	ONE ZONE		Horseshoe Gallup Unit
Atlantic Rich	field Company	L' - NEFRI	TION COMM		9. WELL NO.
3. ADDRESS OF OPERATOR	over Bldg. 186		Denver, Colo. 8	30203	296 10. FIELD AND POOL, OR WILDCAT
	eport location clearly and				Horseshoe Gallup
At surface	f/South & 125				11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zone		•			Sec. 32-31N-16W
14. DISTANCE IN MILES A	AND DIRECTION FROM NEAD	REST TOWN OR POST OFFIC	E*		12. COUNTY OR PARISH 13. STATE
	See attached m				San Juan New Mexic
15. DISTANCE FROM PROPO	SED* 7 2501 6/17 7	$\frac{2 \text{ line}}{\text{line}} \frac{16. \text{ No}}{\text{No}}$	o. of acres in lease 2 - 2644.14 Ac		OF ACRES ASSIGNED
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	In:+	2 - 2044.14 AC	l ,	HIS WELL A - Unit
18. DISTANCE FROM PROP	OSED LOCATION 1011		- 13,527.80 Ac		RY OR CABLE TOOLS
OR APPLIED FOR, ON THE	RILLING, COMPLETED, MI IS LEASE, FT. in SW SE	SE & #49 Sec. 32	1350'	Rotar	LÀ
ZL. ELEVATIONS (Show who	G336 GL, Ungr.				When appl rec'd
23.		ROPOSED CASING AND	D CEMENTING PROGRA	м	Est. 7/1/76 - 11d & loc. Drlg after #295
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	8-5/8"	2և#	1201	i	x (Cmt to surface)
7-7/8"	5-1/2"	14#	T.D.	225 sz	x
		.>			
Upper Galla 120' and ce 5-1/2"OD ca be perforat	up 1090', Iower ement to surface asing w/ suffice ted, treated if exico Oil Consects: Certified Pertinent Developmen	Gallup 1200'. e; drill 7-7/8 ient cement to necessary, and	Will set 8-5/8" hole to TD; protect all zon well completed ion Order No. Ration ace Use	"OD su: log; : es. P	Formation. Est. tops: rface casing at approx. if productive, set roductive zone(s) will & R-2210-A
IN ABOVE SPACE DESCRIBE Kine. If proposal is to preventer program, if any 24.	PROPOSED PROGRAM: If a	proposal is to deepen or p	plug back, give data on pr	esent prod d mensured	uctive zone and proposed new productive d and true vertical depths. Give biowout
BIGNED WAY	Wallfire Jr.	TITLE C	perations Manag	er	DATE 6/Li/76
(This space for Feder	ral or State office use	m			
PERMIT NO.			APPBOVAL DATE		
	•	•	**		

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

All distances must be from the outer boundaries of the Section

				1				Tw n
Sperator Atlant	tic Ric	thfield (Company	Leo	36			Well No. 296
Init Letter	Section	32	Township	31	Range 16	County	San Juan	
Actual Footage Lo		c -	+ b		1250		Fact	
1350 Ground Lovel Elev.	feet fro	roducing Form	nation	line and	1250	feet from the	East Dedic	dine Stea Acresiper
5336			allup			shoe Gallu	p NA -	· Unitized
1. Outline the	he acrea	ige dedicat	ed to the	subject well l	y colored pen	cil or hachure	marks on the pla	Order No. R-2210
2. If more t interest a			dedicated	to the well, or	itline each and	l identify the	ownership thereof	(both as to working
				wnership is dedi , force-pooling.		ell, have the	interests of all o	wners been consoli-
X Yes	□ No	o If an	swer is *	'yes;' type of co	nsolidation _	Unitizati	on	· · · · · · · · · · · · · · · · · · ·
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this form			wners an	id tract descript	ions which ha	e actually be	en consolidated.	(Use reverse side of
			d to the v	well until all int	erests have be	en consolidat	ted (by communit	ization, unitization,
								oved by the Commis-
sion.			· · · · · · · · · · · · · · · · · · ·					·
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	1				1		Position W. A.	Walther, Jr.
	1				!		Operations	Manager
	1				i		Company	ICHFIELD COMPANY
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			SEC.	32			1 Minter RED	1111221171E
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	1						and/or Land Survey	
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330 440	.00 .00	0 1450 1011	7210 55	40			Certificate No. 36	02 V.Echohawk LS
0 330 660	·90 132	0 1650 1960	2310 26	40 2000	1500 1000	• 500 0	<u> </u>	TALCHOHUMN LO

Elevation 5336 GL, Ungraded

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

- 2-3/8"OD EVE 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.

1350' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 296
Unit "I" - 1350' f/South & 1250' f/East lines
Section 32-31N-16W
San Juan County, New Mexico

PERMIT NO.

APPROVED BY

CONDITIONS OF APPROVAL, IF ANT:

UNITED S DEPARTMENT OF

APPLICATION F	DEPARTMENT	ED STATES OF THE INTER	RIOR	nuc)		المستقدم الماري المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية الماري المنابعة المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المارية المار
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					SF - Ci 122	
	OR PERMIT I	OTORILL, DEEPI	EN, ON PLUG	BACK_	6. IF INDIAN, ALLOTTER	OR TRIBE NAME
a. TYPE OF WORK DRILL	· ·	DEEPEN 🗆	Dric DA	~ -	7. UNIT AGREEMENT N	AME
DKILL b. Tipe of Well	T.	DEEPEN LI	1976 PLUG BA	CK 🗀	Horseshoe Gal	
OIL GAS WELL	OTHER	· 3:49×	1X = 11 = 11 = 11 = 11 = 11 = 11 = 11 =	PLE	8. PARM OR LEASE NAS	
. NAME OF OPERATOR		OIL CONSERVAT	ICN COMM.		Horseshoe Gal	llun linin
Atlantic dichfiel	ld Company	Oil Corroll	Fe		9. WELL NO.	<u> </u>
. ADDRESS OF OPERATOR					297	
501 Lincoln Tower Location of Well (Report At surface	r Bldg., 1860 location clearly and	In accordance with any S	Denver, Colo. 8	0203	Horseshoe Ga	llup
Unit I - 1550' 1	f/South & 125	O' f/East lines	Sec. 4		11. BEC., T., R., M., OR I	LE.
At proposed prod. zone					Sec. 4-30NA	et Male
A. DISTANCE IN MILES AND D	Approx same	POT TAWN OR PAST APPLA	A STATE OF THE STA			The state of the s
4. DIGLARCE IN MILES AND I	·	ched maps			12. COUNTY OR PARISH	New !exico
5. DISTANCE FROM PROPOSED*			OF ACRES IN LEASE	1 17 NO O	San Juan	Newex.100
LOCATION TO NEAREST PROPERTY OR LEASE LINE,	FT.	Tr.	33 - 515.50 Ac	TO TH	IIS WELL	And the Control of th
(Also to nearest drlg. uni 8. DISTANCE FROM PROPOSED	t line, if any) LOCATION* 727	Unii	- 13.527.80 A	20 BOTAS	A - Unit	The second state of the second state of the second
8. DISTANCE FROM PROPOSED TO NEAREST WELL, DRILLI OR APPLIED FOR, ON THIS LEA	NG. COMPLETED. SE	-1 ">	13601	Rotar		
L ELEVATIONS (Show whether			437 LT 257 LT LT LT	No experience	22. APPROX. DATE WO	
5359' GL,	Ungr.	the second of th	a y terranggang sahi dalah kalunca. Manggan semin	and the second second second second second second second second second second second second second second seco	When appl red Est 7/1/76 -	ord is local
3.	PI	ROPOSED CASING AND	CEMENTING PROGR.	AM	Drlg after #2	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMES	
12-1/1/"	8-5/8"	2l _t #	1201	120 sx	(Cmt to surf	Page 1998 1998 1998 1998 1998 1998 1998 199
7-7/8"	5-1/2"	1h#	T.D.	225 sx		and the first to the grade and the state of
						white and an area
	i i		And the second s		Andrew Communication of the Co	
Upper Gallup 1 120' and cemer 5-1/2"OD casin	ll45', Lower nt to surface ng w/ suffici	epth sufficient Gallup 1255'.; drill 7-7/8'ent cement to precessary, and	Will set 8-5/8 hole to T.D.; protect all zor	00 sur log; nes. Pr	face casing a	t approx
Re: New Mexic	co Oil Conser	vation Commiss:	ion Order No. F	2-2210 &	: R-2210-A	erinege Til en en en en en en en en en en en en en
Attachments:	Certified Lo	cation Plat				r de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
vadernierrag.		illing Information	tion			بديشت ه د او د او د او د او د او د او د او د
		Plan for Surface				
		al Clearance Re				
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					. :	
IN ABOVE SPACE DESCRIBE PRODUCE. If proposal is to drill preventer program, if any.						
signed W. A. Walt	Walthern ther, Jr. Jr. r State office use)	TITLE _	Operations Mana	ager	DATE 6/l;	/76

TITLE

APPROVAL DATE

3

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

All distances must be from the outer boundaries of the Section. Sergion Well No. 297 **AtlanticRichfieldCompany** Init Letter Section Township Ranae County San Juan 30 North 16 West Actual Footage Location of Well: East South feet from the line and feet from the Ground Level Elev. Producing Formation Dedicated Acresses: Horseshoe Gallup Gallup NA - Unitized 5359 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. No. R-2210 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 X Yes If answer is "yes," type of consolidation _ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position W. A. Walther, jr Operations Manager ATLANTIC RICHFIELD COMPANY SEC. 4 on this plat was plotted from field my subest (312m, and that the same e and correct to the 1250 Rodress V. ECHIV. Date Surveyed May 20, 1976 Registered Professional Engineer and/or Land Surveyor E.V. Echohawk LS 330 660 1320 1650 1980 2.110 2000 1000

500

Elevation 5359 GL - Ungraded

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.

1360' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 297
Unit "I" - 1550' f/South & 1250' f/East lines
Section 4-30N-16W
San Juan County, New Mexico

CONDITIONS OF APPROVAL, IF ANT:

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

<i>'</i>	DEPARTMENT	UF ITE II GICAL SURVE		RIOR	· .	5. LEASE DESIGNATION	
APPLICATION	N FOR PERMIT 1		·	N OR PLUG B	VCK	SF = CE127 6. IF INDIAN, ALLOTTE	
DRI b. TYPE OF WELL OIL GA	LL 🗵	DEEDEN!	<u> </u>	1976 PLUG BAC	CK 🗆	7. UNIT AGREEMENT N HOPSESHOE Gal 6. FARM OR LEASE NAS	AME llup Unit
Atlantic lichf 3. ALDRESS OF OPERATOR 501 Lincoln To	ield Company wer Bldg., 1860		<u>anta l</u>	<u>-c</u>	0203	Horseshoe Ga. 9. WELL NO. 297 10. FIELD AND POOL, C	
At surface	of f/South & 125 Approx same	_	_	•		Horsesine Ga 11. SEC., T., R., M., OR AND SURVEY OR AR Sec. 4-30NA	BLK. REA
14. DISTANCE IN MILES A	ADDITOR DELIC	EST TOWN OR POST	OFFICE	•		12. COUNTY OF PARISH	13. STATE
		ched maps				San Juan	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig 18. DISTANCE FROM PROPO	INE, FT. . unit line, if any)	line f/#245	ir.	0. OF ACRES IN LEASE 0. 05 ACRES IN LEASE	TO TI	OF ACRES ASSIGNED HIS WELL A — Unit BY OR CABLE TOOLS	
TO NEAREST WELL, DI	RILLING, COMPLETED, 131 IS LEASE, FT. in NE SE			L360'	Rota		
21. ELEVATIONS (Show whe					1 330	22. APPROX. DATE WO When appl re Est 7/1/76 -	c¹d .
23.	P	ROPOSED CASIN	G ANI	CEMENTING PROGRA	M	Drlg after #	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEME	NT
12-1/1:"	8-5/8"	2 <u>l</u> ;#		120'		k (Cmt to surf)
7-7/8"	5-1/2"	11,#		T.D.	225 s	х	
Upper Gallu 120' and ce 5-1/2"OD ca be perforat	drill well to dup 1145', Lower ment to surface asing w/ sufficited, treated if exico Oil Conservations: Certified Larchaeological Archaeological	Gallup 125; ighter drill 7- ient cement necessary, rvation Com- cation Plan cilling Inf Plan for S	5'7/8' to pand miss: t	Will set 8-5/8 hole to T.D.; protect all zon well completed ion Order No. Retion ce Use w/ att.	"OD su: log; es. P:	rface casing a if productiv roductive zone	t approx e, set
sone. If proposal is to preventer program, if any 24. SIGNED W. A. V	Walther, Jr.		data o		nd measure		hs. Give blowout
-	ral or State office use) /			÷			
PERMIT No.			.	APPROVAL DATE			
APPROVED BY		*IT		•		DATE	

3

OIL CONSERVATION COMMISSION OUT DISTRICT

OIL CONSERVATION COMMISSION BOX 2088	DATE Yane 13/19/4
SANTA FE, NEW MEXICO	RE: Proposed MC
,)	Proposed DHC
0.	Proposed NSLProposed SWD
Jim Tapleina	Proposed WFX
	Proposed PMX
'	· · · · · · · · · · · · · · · · · · ·
Gentlemen:	
I have examined the application date	
For the atlantic General Ho	Hes hoe Galler Unit # 29
	and Well No. Unit, S-T-R
and my recommendations are as follows:	
	0
This is one of s	
on one application.	It now complies
with Order R-2210-	
approve	
7: /	/
	Yours very truly,
	ar Kendrick

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

		All dista	inces must be fr	om the oute	P ooundaries of	the Section.		*
Cperator				Lease	h	Taamii IImd A	•	Well N 294
	ichfieldComp.				shoe Gal			294
Unit Letter	Section	Township		Range		County		
<u>J</u>	30	31	North		6 West	3	an Juan	
Actual Footage Loc	ation of Well:	Caudh		1220			East	
1378	feet from the	South	line and	1330 Pool	fee	et from the		line Dedicated screage:
Ground Level Elev. 5477	Producing For	up		Hor	rseshoe Ga	allup	'	NA - Unitized Agree
1 Outling th	a acreage dedice	ted to the	e subject we	II by col	ored pencil o	or hachure	Re. O	rder No. R-2210-A
1. Outline in	e acreage dedice	ited to the	s. Bubject we	11 27 001	orea peneri		marks on th	plaction w.
	an one lease is	dedicated	l to the well	, outline	each and ide	entify the o	ownership t	hereof (both as to working
					to the well,	have the i	interests of	all owner- been cons li
dated by c	ommunitization,	unitization	, torce-pooti	ig. etc:				
X Yes	□ No If a	nswer is '	'yes," type o	f consolid	lation U	nitizati	on.	
100			,, ., p					
If answer	is "no!" list the	owners ar	id tract desc	riptions w	hich have a	ctually be	en consolid	ated. (Use reverse side of
	f necessary.)				,			
		ed to the	well until all	interests	have been	consolidat	ed (by com	munitization, unitization,
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sion.	ing, or otherwise	or direir a	non-standard	i unit, cii		ch microsi	s, nas been	approved by the Commis-
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	į.						Name W.	A. Walther, Jr.
	+					7-	1	tions Manager
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	1				4 C 107 C	" /	Company	
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Atlantic Bichfield Company

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

W. A. Walther, Jr.
Operations Manager





June 11, 1976

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

Re: Horseshoe Gallup Unit San Juan County, New Mexico

Dear Mr. Ramey:

As an amendment to our June 7, 1976 letter, requesting administrative approval to drill seven (7) unorthodox located Horseshoe Gallup Unit wells, please make the attached copy of the Sundry Notice and Certified Location plat, changing the location of Well No. 294, a part of the June 7, 1976 letter. This revised location will comply with the provisions of Order No. R-2210-A.

Very truly yours,

w a walthury W. A. Walther, Jr.

Encls.

Fogm 9-331

IINITED STATES

SUBMIT IN TRIPLICATE.

Form approved.

(May 1963)	SUNDRY NOTICES AND REPORTS ON WELLS IN 1 A 1976 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. 1976 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. 1976 (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. 1976 (Do not use this form for proposals.) (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. 1976 (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Do not use this form for proposals.) (Conservation conservation 5. LEASE DESIGNATION AND SERIAL NO.				
	G	EOLOGICAL SURVE	Y	14-20-603-73	
(Do not u	SUNDRY NOTI se this form for propose Use "APPLICA	CES AND REPOR	PRIS ON WELLS 1976 plug back to a different reservoir. 1976 such proposals.)	Mavajo	OR TRIBE NAME
OIL X	GAS OTHER			7. UNIT AGREEMENT NA Horseshoe Gal	
2. NAME OF OPER	ATOR			8. FARM OR LEASE NAM	E
Atlantic R	ichfield Compa	ny		Horseshoe Gal	lup Unit
•• — ·- ·			_	9. WELL NO.	
501 Lincol	n Tower Bldg.,	1860 Lincoln St	., Denver, Colo. 80203	294	
4. LOCATION OF W	ELL (Report location cl	early and in accordance wi	th any State requirements.*	10. FIELD AND POOL, OF	R WILDCAT
	11 below.)		·	Horseshoe Gal	lup
1378	South and 1330	' 1/East lines S	iec. 30	11. SEC., T., R., M., OR E SURVEY OR ABBA	LK. AND
				Section 30-31	N-16W
14. PERMIT NO.		15. ELEVATIONS (Show who	ether DF, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
		5477°		San Juan	New Mexico
16.	Check Ap	propriate Box To India	cate Nature of Notice, Report, or C	Other Data	
	NOTICE OF INTEN	rion to:	pasaus	JENT REPORT OF:	
	NOTICE OF INTER				
TEST WATER		PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING V	VELL
	SHUT-OFF I		-	REPAIRING V	
FRACTURE TR	SHUT-OFF F	MULTIPLE COMPLETE	FRACTURE TREATMENT	_	ASING
FRACTURE TR	SHUT-OFF I	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	ALTERING CA	ASING

Initially proposed 1378' f/South and 1325' f/East lines of Section 30-31N-16W. This location did not meet the provisions of New Mexico Oil Conservation Commission Order No. R-2210-A, regarding unorthodox locations. Propose to move location 5 West to the above designated location to comply with Order No. R-2210-A.

Certified Location Plat attached.

18. I hereby certify that the foregoing is true and correct					
SIGNED W. A. Walther J.	TITLE	Operations Manager	DATE	une 11,	1976
(This space for Federal or State office use)					
APPROVED BY	TITLE		DATE		

^{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.) *

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

All distances must be from the outer boundaries of the Section Operator Horseshoe Gallup Unit CONSERVATIO AtlanticRichfieldCompany Township Section Unit Letter Canta Fe San 16 West Juan 31 North 30 Actual Footage Location of Well: 1330 East South 1378 feet from the line and feet irom the Ground Level Elev. Producing Formation Dedicated Acreage; Pool Horseshoe Gallup NA - Unitized Gallup 5477 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 owner- been consola dated by communitization, unitization, force-pooling. etc? Unitization X Yes If answer is "yes," type of consolidation. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Operations Manager Position ATLANTIC RICHFIELD COMPANY June 11, 1976 SEC. 30 North SIDBY Date Surveyed 13781 May 20, 1976 Registered Professional Engineer and/or Land Survey ඵ Certificate No. 3602 E.V.Echohawk LS 2000 1500

APPROVED BY _

COMPITIONS OF APPROVAL, IF ANY:

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

	DEI AINTIMEIN I			(IOI)		5. LEASE DENIGNATION	
		GICAL SURVE				14-20-603-2 6. IF INDIAN, ALLOTTE	
	I FOR PERMIT T	O DRILL, L	DEEPI	N, OR PLUG B	ACK	Navajo	- OB IBIDE NAME
la. TIPE OF WORK DRI	LL 🗵	DEEPEN [7	PLUG BAC	кП	7. UNIT AGREEMENT N	AME
A. TIPE OF WELL			-	Tie !		Horseshoe Gal	lup Unit
	ELL OTHER	2	20	NOLE OF SOME	·• <u> </u>	8. FARM OR LEASE NA	
2. NAME OF OPERATOR	·		4	- 27 B		Horseshoe Gal	lup Urit
Atlantic Richi	- •			WATION COMM.		291	
501 Lincoln To	ower Bldg., 1860) Tancoln S		.a. Fo Denver Colo. 8	0203	10. FIELD AND POOL,	DE WILDCAT
At surface	eport location clearly and	in accordance wit	h any S	state requirements.*)		Horseshoe Ga	llup
Unit A - 501 1	1/North & 50! f/	East lines	Sec	. 23		11. SEC., T., B., M., OR AND SURVEY OR A	BLK. BEA
At proposed prod. zon	Approx. Same					Sec. 23-31N-	.1 <i>7</i> W
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE	<u> </u>		12. COUNTY OR PARISE	•
	See attached r	nads				San Juan	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEAREST	2590' f/Tr.	. 13 line	716. No	3. 1442.26 Ac.		OF ACRES ASSIGNED HIS WELL	,
PROPERTY OF LEASE L (Also to nearest drig	INE, FT. unit line, if any)			13.527.80 Ac.		A Unit	
18. DISTANCE FROM PROP TO NEAREST WELL, DI	RILLING, COMPLETED,					RY OR CABLE TOOLS	
CR APPLIED FOR, ON THE		sec.23	1	650°	Rotar	Y 22. APPROX. DATE WO	ORK WILL STARTS
5873 ° GL.						When appls r	
13.		ROPOSED CASIN	IG ANI	CEMENTING PROGRA	M	Est. 7/1/76	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO)OT	SETTING DEPTH		QUANTITY OF CEME	VT
12-1/կ"	8-5/8"	214		1261	120 e	x (Omt to suri	
7-7/8"	5-1/2"	14#		T.D.	225 s		.ace/
						_	
Upper Gallup and cement to with sufficie	rill well to der 1424, Lower Ga o surface; drill ent cment to pro- eccessary, and we	allup 1534° 17-7/8° ho otect all z	• W le to ones	ill set 8-5/8" o T.D.; log; if	surfac produ	e casing at ap	prox. 120 f /2" casing
	ico Oil Conserva	_		n Order No. R-2	210 &	R-2210-A	
Attachments:	Certified Loca Pertinent Dril Development Pl Archaeological	lling Infor Lan for Sur	face	Use w/ att.			
IN ABOVE SPACE DESCRIBE HORE. If proposal is to preventer program, if any R4.	PROPOSED PROGRAM: If p drill or deepen directionally.	lly, give pertinent	data o	olug back, give data on pron subsurface locations an	d measure	ductive zone and proposed and true vertical dept	hs. Give blowout
SICHED W. A. I	lalther, Jr.	Type TIT	LE	er gorone managi	21.	DATE 0/U	/ (0
(This space for Feder	ral or State office use)	" (_j			-		
PERKIT NO.				APPROVAL DATE			
	•		•			·	

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

E.V.Echohawk LS

All distances must be from the outer boundaries of the Section. Well No 291 Operator Lease Atlantic Richfield Company Section Township Unit Letter Range County 17 San Juan 31 Actual Footage Location of Well: East 50 50 North feet from the feet from the line and line Ground Level Elev. Producing Formation Pool Dedicated Acreage: Horseshoe Gallup 5873 Gallup NA - Unitized Re: Order No. R-2210 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? If answer is "yes," type of consolidation Unitization X Yes ☐ No 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 150 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. A. Walther Operations Manager Company ATLANTIC RICHFIELD COMPANY AND LAND CO. SEC. 23 of adoption Mos made by the or All ST V. ECHOLINE Date Surveyed May 21, 1976 Registered Professional Engineer and/or Land Surveyor Certificate No.3602

660

1920 1680

1980 2310

2000

1 800

1000

50Q

Elevation 5873' - GL, Ungraded

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. 291
Unit "A" - 50' f/North' & 50' f/East lines
Section 23-31N-17W
San Juan County, New Mexico

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

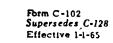
SUBMIT IN TRIPLICATE.

Form approved, Budget Bureau No. 42-R1425,

(Other instructions on reverse side)

UNITED STAT	ΓES
DEPARTMENT OF THE	INTERIOR

	DEI /II (I MEI (I	O. 1112 1111 E.		5. LEASE DESIGNATION AND SERIAL NO.
	GEOLO	GICAL SURVEY		11:-20-603-2037
APPLICATION	LEOR PERMIT T	O DRILL, DEEPE	N OR PLUG B	
L TYPE OF WORK	· · · · · · · · · · · · · · · · · · ·	<u> </u>	.,	Navajo
	LL 🔀	DEEPEN 🗌	PLUG BAC	
b. TYPE OF WELL		av	NGLE NULTIPE	E 12-12 COURT OF THE
	ELL OTHER		NE LES / ZONE	THE DE LEASE WARE
L NAME OF OPERATOR			HIN JUN -	
Atlantic Bichf	ield Company	· · · · · · · · · · · · · · · · · · ·	W. I. John The Comment	9 WELL NO.
3. ADDRESS OF OPERATOR	55.	. .	OIL CONSERVA	292 MMA 292
501 Lincoln To	wer 51dg., 1860	Lincoln St., 1	Denver, Cologra	203 10. FIELD AND POOL, OR WILDCAT
At surface		in accordance with any S		Horseshoe Gallup
Unit "J" - 24	741 f/South & 2	463' f/East lin	nes Sec. 24	11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zone		•	- ·	Sec. 24-31N-17W
	Approx. same	EST TOWN OR POST OFFICE	<u>.</u>	12. COUNTY OR PARISH 13. STATE
		•		
	See attached ma		. OF ACRES IN LEASE	San Juan New Mexic
15. DISTANCE FROM PROPU LOCATION TO NEAREST	100 1/11	15 line Tr	15 . 880 00 A-	TO THIS WELL
PROPERTY OR LEASE L (Also to nearest drig	unit line, if any)	Unit 1/#99 in 19. FR	- 13,527.80 Ac	N/A Unit
18. DISTANCE FROM PROPO TO NEAREST WELL, DI	OSED LOCATION* 022 RILLING, COMPLETED,	' 1/#99 in 19. PR		20. ROTARY OR CABLE TOOLS
OR APPLIED FOR, ON THE	S LEASE, FT. M.J SE S	Sec. 24 15	30 t	Rotary 22. APPROX. DATE WORK WILL START*
21. ELEVATIONS (Show whe		•	•	
57071 GL	, Ungr.		<u></u>	When appls rec'd. Rd & loc est 7/1/76.
23.	F	PROPOSED CASING AND	CEMENTING PROGRA	
BIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	Drlg after #291 QUANTITY OF CEMENT
12-1/և"	8-5/811	21,#	1201	126 sx (Cmt to surface)
7-7/8"	5-1/2"	11#	T.D.	225 sx
	•			
٠.		ارو با مو	İ	
Upper Gallu 120' and ce casing w/s treated if	p 1305', Lower ment to surface ufficient cemen ne cessary, and xico Oil Conser	Gallup 11:15'. c; drill 7-7/8" t to protect al well completed. vation Commissi	Will set 8-5/8 hole to T.D.; l	allup Formation. Est tops: R*OF surface casing at approx. log; if productive, set 5-1/2*C active zone(s) will be perforat -2210 and R-2210-A
		illing Informat	ion	·
•		Plan for Surfac	_	
	-	al Clearance Re	•	
	drill or deepen directions			esent productive zone and proposed new productive d measured and true vertical depths. Give blowout
SIGNED W. A.	MWelther walthor, Jr.	A TITLE C	perations Manag	er DATE 6/4/76
(This space for Fede	ral or State office use)	/"/L		
PERMIT NO.			APPROVA'L DATE	
		•	V V	



		All diete	nces must be from t	he outer bou	nderies of t	he Section		·
Operator	-Air Dirbdial	- C	Lea	150	- ···			Well No.
	ntic Richfiel		n y	I Demo-		Countries		292
Unit Letter	Section 24	Township	31	Ronge 17		County	San Juan	
Actual Footage Loca		<u> </u>	<i>-</i>	1			Jan Juan	
2474	feet from the Sou	th	line and	2463	fact	from the	East	line
Ground Level Elev.	Producing For		Poo	1			Ded	line licated Acreage:
5707		llup		Hor	seshoe	Gallup	NA NA	- Unitized Acres
1. Outline the	e acreage dedica	ted to the	subject well h	y colored	pencil or	hachure	marks on the p	: Order No. R-2210 lat below.
2. If more th	an one lease is	dedicated	to the well, or	ıtline each	and ider	tify the	ownership there	of (both as to working
interest an	id royalty).		• ,					
3. If more tha	in one lease of di	fferent ov	vnership is dedi	cated to t	he well, h	nave the	interests of all	owners been consoli-
	ommunitization, u		•		•			
<u> </u>					lin i	itizati	00	
X Yes	☐ No If an	swer is "	yes," type of co	nsolidatio	n	ıızatı	OII	
If anomas	ie "no" liet the	wnere es	d tract descript	ione which	have ea	tually ha	en consolidated	. (Use reverse side of
	f necessary.)	Auncia all	a daci descript	ons which	паче ис	ruarry De	en consolidated	Lose reverse side of
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							•	proved by the Commis-
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			a a a a a a a a a a a a a a a a a a a	rain	ration and the		Certificate No.	
0 330 660	90 1320 1650 1980	2310 26	40 2000	1500 10	00 50	<u> </u>		E.V.Echohawk LS

Elevation 57071 - GL, Ungraded

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.

1530: Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 292
Unit "J" - 2474' f/South & 2463' f/East lines
Section 24-31N-17W
San Juan County, New Mexico

SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

Form 9-381 C (May 4963) UNITED STATES

(Other instructions on reverse side)

• `	DEPARTMENT	OF THE INTER	RIOR	5. LEASE DESIGNATION AND	SERIAL NO.
	GEOLO	GICAL SURVEY		14-20-603-7	34
APPLICATION	FOR PERMIT 1	O DRILL, DEEPE	N, OR PLUG B	4CK 6. IF INDIAN, ALLOTTEE OR T	RIBE NAME
A. TIPE OF WORK		DEEPEN [PLUG BAC	Navajo 7. UNIT AGREEMENT NAME	
DKI b. TIPE OF WELL	LL 🗵	DEEPEN L	PLUG BAC	Horseshoe Gallup	IIni+
OIL CT GA	S OTHER	. 81	NGLE MULTIPL	6. FARM OR LEASE NAME	OHIO
L NAME OF OPERATOR	ULC CO OTALE	1 - 3	1 197 5 JUL	Horseshoe Gallup	Unit
Atlantic Rich	field Company			9. WELL NO.	
. ADDRESS OF OPERATOR		in con it. A	LIOM COTTING	293	
501 Lincoln T	ower Bldg., 186	in accordance with any S	Denver, Colo. 8	0203 10. FIELD AND POOL, OR WI	-
At surface		_			p
Unit "C" - 12	160' f/North & 1	此70' f/West lin	nes Sec. 30	11. SEC., T., B., M., OR BLK. AND SUBVEY OR AREA	
At proposed prod. zon		-		Sec. 30-31N-16W	
4. DISTANCE IN MILES	Approx. Same	EEST TOWN OR POST OFFICE	r.*	12. COUNTY OR PARISH 13.	
				1	
5. DISTANCE FROM PROPU	See attached 12601 f/Tr		of acres in lease 2 - 2644.14 Ac	17. NO. OF ACRES ASSIGNED	Mexico
PROPERTY OR LEASE L	INE, FT.	7724		TO THIS WELL	
(Also to nearest drig 18. DISTANCE PROM PROP	osed Location* 87	1 f/#18 19. PE	- 13.527.60 Ac	N/A - Unit 20. BOTARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	osed location* 81 RILLING, COMPLETED. IS LEASE, FT. 10 NE N	7 Sec.30 1	5101	Rotary tools	
IL ELEVATIONS (Show who				22. APPROX. DATE WORK W	ILL START
	5625' GL, Uni	gr.		When appl recid	
13.	I	PROPOSED CASING ANI	CEMENTING PROGRA	nd & loc est 7/	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	Drlg after #292	
12-1/4"	8-5/8"	2l#	1201	120 sx (Cmt to surfa-	201
7-7/8"	5-1/2"	11:#	T.D.	225 sx	365/
***			Į į	•	34
Upper Gallum and cement to with suffici treated if r	o 1300', Lower (to surface; dri tent cement to pacessary, and to	Ballup 1100'. In 11 7-7/8" hole to protect all zone well completed.	Will set 8-5/8" to T.D.; log; in es. Productive	llup Formation. Est. surface casing at appropriate productive, set 5-1/2 zone(s) will be performance. R-2210 & R-2210-A	ox 120° 'OD casin
104 104 102	itoo orr oomser	ACTOR COUNTRY	on order nos pa	10-2230 & 10-2210-A	
Attachments:	Certified Loc	cation Plat			
		illing Informati			
•	<u> </u>	Plan for Surface	•		
	Archaeologica	al Clearance Rep	port	_	
			:		
one. If proposal is to reventer program, if an	drill or deepen directions	proposal is to deepen or p lly, give pertinent data o	olug back, give data on pron subsurface locations and	sent productive zone and proposed new I measured and true vertical depths. (r productive live blowout
86. SIGNED Wa	Walther In	TITLE	Operations Mana	ger DATE 6/L1/76	
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PERMIT NO.	<u> </u>		APPROVAL DATE		
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APPROVED BY	:·	TITLĖ	· · · · · · · · · · · · · · · · · · ·	DATE	
COMMITTANE OF A PURCY	AT 18 ANY:	_			

Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section. Cerator Lease Well No. Atlantic Richfield Company 293 Unit Letter Section Township Range County San Juan 31 16 30 Actual Footage Location of Well: 1470 West 1260 North feet from the line and feet from the Ground Level Elev. Producing Formation Pool Dedicated Actednes NA - Unitized 5625 Horseshoe Gallup Gallup 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. No. R-2210-2. 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 □No 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. Position W. A. Walther. Operations Manager Company ATLANTIC RICHFIELD COMPANY AND LANDER SEC. I hereby carrily that the well location Thown on this plat was platted from field This of danged stridge made by me or my supervision, and that the same s true and correct to the best of my Sedge and belief Date Surveyed May 20, 1976 Registered Professional Engineer and/or Land Surveyor Certificate No.3602 E.V.Echohawk LS 660 1320 1650 1980 2310 1 500

1000

300

Elevation 5625' GL - Ungraded

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.

1510' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 293
Unit "C" - 1260' f/North & 1470' f/West lines
Section 30-31N-16W
San Juan County, New Mexico

SUBMIT IN TRIPLICATE®

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

HNITED STATES

A Comment	DEDA	PTMFNT	OF THE INTE	RIOR			
	DLIA			(IOI)		5. LEASE DESIGNATION	
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APPLICAT	ION FOR I	PERMIT TO	O DRILL, DEEP	EN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTE	OR TRIBE NAME
a. TYPE OF WORK						<u>Navajo</u>	
	DRILL 🖾		DEEPEN [PLUG BAC		7. UNIT AGREEMENT N	
b. Type of Well	GAS [INGLE WULTIP		Horseshoe Ga.	llup Unit
WELL X	WELL L	OTHER	Z	ONE ZONE	7-11-1		
					1976)	Horseshoe Ga	llup Unit
Atlantic F		ompany		<u> </u>	1010 /		
		.a 3 06	O T27 CA	Description of the Control of the Co	2000	10: FIELD AND POOL, O	In Willocks
SOT Trucol	In lower BJ	Log LCO	n accordance with any	Denver, Colo	30203-	<u>.</u>	
At surface			_		-0	Horseshoe Ga	
	· ·	South & 1	325' f/East li	nes Sec. 30		AND SURVEY OR AS	EEA.
At proposed prod		ox same				Sec. 30-31N-3	16W
4. DISTANCE IN MI	ILES AND DIRECTIO	ON FROM NEAR	ST TOWN OR POST OFFIC	:E*		12. COUNTY OR PARISH	13. STATE
	See attach	ned maps				San Juan	New Mexico
5. DISTANCE FROM LOCATION TO NE	PROPUSED* 390)2 f/Tr.	12 line ក្រឹត្ត	2 of ACRES IN TRASE AC		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LE		if any)	Unit	- 13,527.80 Ac		- Unit	
18. DISTANCE FROM	PROPOSED LOCATI	ion* 89	· -/ ./ ·	ROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, O	ON THIS LEASE, PT.	NW SE S	ec.30 13	90 t	Rot	ary	
IL BIEVATIONS (Sho	w whether DF, R7	r, GR, etc.)				22. APPROX. DATE WO	BK WILL START
5477	71 GL, Ungi	°.				When appl re-	
23.		PI	ROPOSED CASING AN	D CEMENTING PROGRA	м	Drlg after #	· •
SIZE OF HOLE	8175.01	F CASING	WEIGHT PER FOOT	SETTING DEPTH	l	OUANTITY OF CEMES	
12-1/4"		5/811		·	720		
7-7/8"		1/2"	2¼# 1¼#	120 T.D.		sx (Cmt to su	riace)
1-1/0"		L/ Z		Ι.υ.	225	<u>sx</u>	
		1					
Propose	to drill v	well to d	$oldsymbol{\cdot}$ ep $oldsymbol{ au}$ h sufficien	t to test the G	allun l	Formation. Es	t. tons:
				Will set 8-5/8			
1201 and	d cement to	surface	: drill 7-7/8	" hole to T.D.;	log:	if productive.	set.
5-1/2"01	casing w	suffici	ent cement to	protect all zone	es. P	roductive zone	(s) will
				well completed.			7 = 7 · · · · · · · · · · · ·
•	•		•	A • • • • • • • • • • • • • • • • •			
Re: Nev	w Mexico Oi	ll Conser	vation Commiss	ion Order No. R	-2210 8	& R-2210-A	

Certified Location Plat Attachments:

Pertinent Drilling Information

Development Plan for Surface Use w/ att.

Archaeological Clearance Report

IN 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 renter program, if any.

revenuer program, it may				
esoned U Q U W. A. Walt	Valther Jef	TITLE	Operations Manager	DATE 6/11/76
(This space for Federal or	State office use) / M			•
	/ ~	•		
PERMIT NO.			APPROVAL DATE	
		:	\$ - V	
APPROVED BY	.:	TITLE	'	DATE
CONDITIONS OF APPROVAL, IF	ANY:		,	

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-55

All distances must be from the outer houndaries of the Section

			All dista	nces must be from !	he outer boun	daries of	the Section.			
erate	* 1 - n * i n	District	d Company	Leo	se					well No. 294
	····	Richfiel		<u> </u>	I Pompo		Country			677
it Leter	Section		Township	34	Range		County	San Jua		
<u>J</u> _		30	<u> </u>	31	16		Ĺ,	3011 300	111	
	e Location o			•	205			F4		
<u> 137</u>			South		325	feet	from the	East		line
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547			llup				Gallup			Unitized Acres
										Order No. R-221 (both as to working
interes. 3. If mo	est and roy re than one	alty). e lease of o	lifferent ov	•	cated to th		·	-		wners been consoli-
X	es	No If a	nswer is "	'yes;' type of co	nsolidation	u U	nitizat	ion		·
			owners an	d tract descript	ions which	have ac	tually bee	en consolid	ated. (Use reverse side of
	orm if nece	•						·		
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Elevation 5477' GL - Ungraded

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.

1390' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 294
Unit "J" - 1378' f/South & 1325' f/East lines
Section 30-31N-16W
San Juan County, New Mexico

12-1/հա

SUBMIT IN TRIPLICATE.

Form approved.

120 Sx (Cmt to surface)

225 sx

(May 1963)		ED STATES OF THE INTERIO	(Other instructions on reverse side)	nuaget buren	u No. 42-K1425.
• • • • • • • • • • • • • • • • • • •	DEPARTMENT	OF THE INTERIO	T.	5. LEASE DESIGNATION	AND SERIAL NO.
•	GEOLO	GICAL SURVEY		14-20-603-7	34
APPLICATION	ON FOR PERMIT 1	O DRILL, DEEPEN	OR PLUG BACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
1a. TYPE OF WORK				Mavajo	
	DRILL 🗵	DEEPEN 🗆	PLUG BACK	7. UNIT AGREEMENT N	AME
b. TTPE OF WELL	GAS 🗂	1.	H 1 1 1	Horseshoe Ga	
AETT X	WELL OTHER	BINGLI ZONE	ZONE	8. FARM OR LEASE NA	ME
2. BAME OF OPERATOR		1:	a	Horseshoe Ga	llup Unit
Atlantic Ri	chfield Company	Carrier Control	M COMMA	9. WELL NO.	
3. ADDRESS OF OPERAT	TOR			295	
501 Lincoln	Tower Bldg., 186	O Lincoln St., Der	iver, Colo. 80203	10. FIELD AND POOL,	OR WILDCAT
		in accordance with any State		Horseshoe Ga	llup Unit
Unit "A" -	50' f/North & 50'	f/East lines Sec.	. 31	11. SEC., T., R., M., OR AND SURVEY OR A	
At proposed prod.	Approx same			Sec. 31-31N-	-16W
14. DISTANCE IN MIL	ES AND DIRECTION FROM NEAD	EST TOWN OR POST OFFICE		12. COUNTY OR PARISH	1 13. STATE
	See attach	ed maps		San Juan	New Mexic
15. DISTANCE FROM PE LOCATION TO NEAR		12 line 16. NO. OF		OF ACRES ASSIGNED THIS WELL	- <u>:</u>

(Also		unit line, if any)		Unit - 13,527	.80 Ad	N/A - Unit
TO NE	AREST WELL, D	osed location* 862 rilling, completed, is lease, pt. NE NE S	-/	1370	_	otary of cable tools
21. BLEVAT		30 GL, Ungr.				22. APPROX. DATE WORK WILL START* When appl rec'd. Est 7/1/76 - id & loc
23.		I .	ROPOSED CASIN	G AND CEMENTING	PROGRAM	Drlg after #294
BIZE	OF HOLE	SIZE OF CASING	WEIGHT PER FO	OOT SETTING D	EPTH	QUANTITY OF CEMENT

Propose to drill well to depth sufficient to test the Gallup Formation. Est. tops: Upper Gallup 1155', Lower Gallup 1265'. Will set 8-5/8"OD surface casing at approx 120' and cement to surface; drill 7-7/8" hole to TD; log; if productive, set 5-1/2"OD casing w/ sufficient cement to protect all zones. Productive zone(s) will be perforated,

120'

T.D.

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

Certified Location Plat Attachments:

treated if necessary, and well completed.

8-5/8"

Pertinent Drilling Information Development Plan for Surface Use Archaeological Clearance Report

24#

IN 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.

BIGNED WA Walther	etherly	TITL E	Operations Manager	DATE 6/1:/76
(This space for Federal or State	office use)			
PERMIT NO.			APPROVAL DATE	
				
APPROVED BY	^^	TITLE		DATE
COMDITIONS OF APPROVAL, IF ANY :				

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

		All distan	ces must be from t	he outer boundaries o	the Section.				
Sperator A+1a	ntic Richfiel	d Compan	Lea	Se .	,		Well No.		
Init Letter	Section	Township		Range	County		295		
A	31		31	. 16	S	San Juan			
stual Footage Loc									
50 Ground Level Elev.		North	line and		et from the	East	line ated Acreages		
5430	l	allup	Poo	Horsesho	e Gallun	1	· Unitized Ames		
			subject well l	y colored pencil	or hachure mai				
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 tha	3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli-								
dated by c	communitization, u	ınitization,	force-pooling.	etc?					
X Yes	No If a	newerie "	yes;' type of co	neolidation	Unitizatio	on			
LXI Tes		115 W C1 15	cs, type of co						
		owners and	l tract descript	ions which have a	actually been o	consolidated.	(Use reverse side of		
	f necessary.)								
	_					•	ization, unitization,		
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Elevation 5430 GL - Ungraded

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.

Iower Gallup - Perforated as indicated from logs.

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

1370 Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 295
Unit "A" - 50' f/North & 50' f/East lines
Section 31-31N-16W
: San Juan County, New Mexico

SUSMIT IN TRIPLICATE. (Other instructions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR UN - 9 1976

Form approved. Budget Bureau No. 42-R1425.

5.	LEASE DESIGNATION AND SESIAL NO.
	1li-20-603-734
6.	IF INDIAN, ALLOTTEE OR TRIBE NAME

	GEO.	CONCAL SORVET	P - 12	السدوع أسور	111-20-003	
APPLICATIO	N FOR PERMIT	TO DRILL, DEE	PEN, OR PLUGNE	ACK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
la. TIPE OF WORK					Navajo	
DI	RILL 🗷	DEEPEN 🗌	Conta Fo PLUG BAG	CK 🗌	7. UNIT AGREEMENT	
A. TYPE OF WELL	GAR 🗔		SINGLE WULTIP	1.E [Horseshoe G	
WELL 3	WELL OTHER		ZONE ZONE		8. FARM OR LEASE NA	
2. NAME OF OPERATOR	1 01 3 3 0				Horseshoe G	allup Unit
	hfield Company				9. WELL NO.	
3. ADDRESS OF OPERATOR		260 Idneoln St	, Denver, Colo.	80203	296	
		and in accordance with an			4	
At surface					Horseshoe Ga	
·	•	250' f/East lin	es Sec. 32		AND SURVEY OR A	BEA
At proposed prod. 2	Approx same	•			Sec. 32-31N	1-16W
14. DISTANCE IN MILES		EAREST TOWN OR POST OF	FICE*		12. COUNTY OR PARISI	
	See attached	mane			San Juan	New Mexic
15. DISTANCE FROM PRO	POSED* 1350' f/Tr	12 line L16.	NO. OF ACRES, IN LEASE		OF ACRES ASSIGNED	1 3.3.
PROPERTY OR LEASE	LINE, FT.	fr.	NO. OF ACRES IN LEASE 12 - 2614 14 AC		HIS WELL	
40	rig. unit line, if any) Prosed Location* 10]	11 f/=2 in Uni	t - 13,527.80 Ac	20. ROTA	A - Unit	
			1350'	Rota		
21. ELEVATIONS (Show w	thether DF, RT, GR, etc.	SE, Sec. 32	±370	1 Itoba	22. APPROX. DATE W	ORK WILL STARTS
					When appl re	ec†d
23.	5336' GL, Ungi		AND CEMENTING PROGRA		Est. 7/1/76	
		PROPOSED CASING P	IND CEMENTING PROGRA		Drlg after #	295
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	300	QUANTITY OF CEME	
12-1/4"	8-5/8"	2h#	120'		x (Cmt to suri	.ace)
7- 7/8"	5-1/2"	114#		225 s	X	
		l		Į		
120 and 5-1/200 be perform	cement to surfaces asing w/ sufficient, treated in the constants: Certified Pertinent Developments:	ace; drill 7-7, icient cement to if necessary, an	rface Use	log; es. P	if productive, roductive zone	, set
	MI CHAGOL	ogical oferrance	a report			
IN ABOVE SPACE DESCRIBORS. If proposal is to preventer program, if a 24.	o drill or deepen directi	If proposal is to deepen of contract the contract of the contr	or plug back, give data on pr a on subsurface locations an	d measure	d and true vertical dept	hs. Give blowout
SEGNED W	Walther, Jr.	TITLE _	Operations Manag	er	DATE6/Li/	(10
(This space for Fed	leral or State office use/	m	* - ***			
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·		APPROVAL DATE	···		
•		•	13 - 64 40			
APPROVED BY	<u> </u>	TITLE _	*		DATE	
CONDITIONS OF APPRO	VAL. IF ANY:		.24			

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C+1/12 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section Well No. Sperator Atlantic Richfield Company 296 Init Letter 31 San Juan 16 Actual Footage Location of Well: 1350 South 1250 East line and feet from the feet from the Ground Level Elev. Pool Dedicated Acresge: Producing Formation 5336 Horseshoe Gallup NA - Unitized Gallup 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. No. 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Position W. A. Walther Operations Manager ATLANTIC RICHFIELD COMPANY SEC a frishis plat was plotted from field of actions unlikes made by me or N. ECHOLINE May 20, 1976 Registered Protection and Engineer and/or Land Surveyor 3602 E.V.Echohawk LS

1500

Elevation 5336 GL, Ungraded

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

2-3/8"OD EVE 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.

1350' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 296
Unit "I" - 1350' f/South & 1250' f/East lines
Section 32-31N-16W
San Juan County, New Mexico

SUBMIT IN TRIPLICATE.

Form approved. Budget Bureau No. 42-R1425.

(Other Instructions on

4*		ED STATES		reverse sic	le)		
÷	DEPARTMENT	OF THE IN	YTER	RIOR AND THE		5. LEASE DESIGNATION	AND BERIAL NO
	GEOLO	GICAL SURVE	Ϋ́			SF - 08122	
APPLICATION	Y FOR PERMIT T	O DRILL, D	EEPE	N, ORIPLUGIB	ACK	6. IF INDIAN, ALLOTTEE	
b. Tipe of Well	LL X	DEEPEN [81 20	NGLE SONE NGLE SONE		7. UNIT AGREEMENT N. HOUSESHOE Ga. 5. FARM OR LEANE NAME.	Dup Unit
Atlantic lichi	Mield Company					Horseshoe Ga.	Uno Unit
3. ADDRESS OF OPERATOR						297	
501 Lincoln To	ower Bldg., 1860	Lincoln St	t., I	Denver, Colo. 80	203	10. FIELD AND POOL, O	
L LOCATION OF WELL (R At surface	eport location clearly and	in accordance with	h any S	tate requirements.*)		Horseshoe Ga	•
Unit I - 1550)' f/South & 125		11. BEC., T., R., M., OR I AND SURVEY OR AR	BLK. EA			
At proposed prod. zon	Approx same		Sec. 4-30NA16W				
4. DISTANCE IN MILES	AND DIRECTION FROM NEAR		12. COUNTY OR PARISH	l .			
		ched maps				San Juan	New Hexico
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drig	INE, FT.	line	Tr.3	0. OF ACRES IN LEASE 33 - 515.50 Ac 5 - 13.527.80 Ac 3.000000000000000000000000000000000000	TO T	of acres assigned his well /A - Unit	
18. DISTANCE FROM PROF TO NEAREST WELL, D OR APPLIED FOR, ON TH	osed location* 731 RILLING, COMPLETED, IS LEASE, FT. in NE SE	f/#245 Sec. 4		1360 I	20. ROTA	EY OR CABLE TOOLS	
L ELEVATIONS (Show who						22. APPROX. DATE WO	
	GL, Ungr.					When appl red Est 7/1/76 -	rd & loc
13.	P	ROPOSED CASIN	G ANI	CEMENTING PROGRA	M	Drlg after #	296
BIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH		QUANTITY OF CEME	
12-1/1:"	8-5/8"	2 <u>1</u> #		1201	120 s):
7-7/8"	5-1/2"	<u></u>		T.D.	225 s	<u>x</u>	
Propose to	drill well to o	lenth suffic	d cieni	t to test the G	allup	Formation. Es	t. teps:
Upper Galli	ip 1145', Lower	Gallup 1259	51.	Will set 8-5/8	'OD su	rface casing a	t approx
	ement to surface asing w/ suffict						
	ted, treated if						(-) "
oo porzoru					•		
12 31 36				tan Ondan Na D	2270	E D DOTO A	

New Mexico Oil Conservation Commission Order No. R-2210 & R-22

Attachments: Certified Location Plat

Pertinent Drilling Information

Development Plan for Surface Use w/ att.

Archaeological Clearance Report.

'L CONSERVATION COMIA.

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.

SIGNED W. A. Walth	Palther of	TITLE	Operations Manager	DATE 6/1:/76
(This space for Federal or S				
APPROVED BY	···	TITLD	APPROVAL DATE	DATE
CONDITIONS OF APPROVAL, IF AN	T;			

Form C-192 Supersedes C-128 Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

·		All distances must	be from the	outer boundaries of	the Section.			
Sperator	-DiabéialdCam	n 3 n v	Lease				Well No. 297	
ATIANTIC	RichfieldComp	Township	l B	ange	County			
1	4	30 North	''	16 West		Juan		
Actual Footage Loc	ation of Well:				<u> </u>			
1550	feet from the	South line	and	250 fee	t from the	East	line	
Sound Level Elev.	Producing For	mation	Pool			De	dicated Acreage:	
5359		allup		Horseshoe			A - Unitized Agres	
1. Outline the	e acreage dedica	ted to the subject	t well by	colored pencil o	r hachure m	arks on the	Flat below. No. R-2210	
•	•	·						
2. If more th	an one lease is	dedicated to the	well, outl	ine each and ide	ntify the ov	vnership ther	eof (both as to working	
interest an	nd 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?								
dated by c	ommunitization, u	initization, force-p	ooiing. etc)		•		
X Yes	□ No If a	nswer is "yes;" ty	ne of cons	olidation Un	itizatio	n		
LA les		nanci ia yea, cy	pe or come	oridation		,		
If answer	is "no," list the	owners and tract of	lescription	ns which have a	ctually beer	n consolidate	d. (Use reverse side of	
	f necessary.)				······································			
No allowat	ole will be assign	ed to the well unti	l all intere	ests have been	consolidate	d (by commu	nitization, unitization,	
	-					•	proved by the Commis-	
sion.				•		•	•	
1	j f			i	f		CERTIFICATION	
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	ļ			i	11	Company		
	1			į	11	AILANIIC Date	RICHFIELD COMPANY	
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	1					Here's D	LANDON	
	i			i I		horeby co	rilly that the well location	
	l			i		2 2 2 2 1 4	s plat was plotted from field	
1	!			1			B s Nows made by me or	
	!			1		under my sug	ety (312n, and that the same	
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				اور		Date Surveyed		
	İ		•	<u> । ह</u>		May 20		
	1		•	!T.		Registered Propagation and/or Land Su	fessional Engineer rvevor	
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500000 10000000	4 2-1-1-1	Name of the second	a toda da el como			Certificate No.		
3 330 660	90 1320 1650 198	0 2110 2040	2000		·		E.V.Echohawk LS	

Elevation 5359' GL - Ungraded

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.

1360' Estimated total depth.

HORSESHOE GALLUP UNIT, Well No. 297
Unit "I" - 1550' f/South & 1250' f/East lines
Section 4-30N-16W
San Juan County, New Mexico

OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO	RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX	
Gentlemen:	N	
I have examined the application	lated Surve 7, 19	76
for the atlantic Rich Liell	7	
	ase and Well No. Unit.	S-T-R
	•	
and my recommendations are as follows		
Horseshoe Gallip Thu	7 291 2922	93,294
295, 296 \$ 297,		
approve: all u	ells are inside	Cocations.
Tk94 does not iden	tipes it to be 10 fe	et from
the 40-acre line	as required by	Week-2210
		<i>e</i>
	Yours very truly,	

MR Lendick