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LAND OFFICE	
OPERATOR	1

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105  
Revised 1-1-65



5a. Indicate Type of Lease State <input type="checkbox"/> Fed. <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. <b>Fed. 14-20-603-734</b>

1a. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/>		7. Unit Agreement Name <b>Horseshoe Gallup Unit</b>	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/>		8. Farm or Lease Name <b>Horseshoe Gallup Unit</b>	
2. Name of Operator <b>Atlantic Richfield Company</b>		9. Well No. <b>290</b>	
3. Address of Operator <b>501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colorado 80203</b>		10. Field and Pool, or Wildcat <b>Horseshoe Gallup</b>	
4. Location of Well <b>(SW 1/4 SW 1/4)</b>			
UNIT LETTER <b>"M"</b> LOCATED <b>312</b> FEET FROM THE <b>South</b> LINE AND <b>323</b> FEET FROM		12. County <b>San Juan</b>	
THE <b>West</b> LINE OF SEC. <b>33</b> TWP. <b>31N</b> RGE. <b>16W</b> NMPM			
15. Date Spudded <b>Surf. 12/12/75</b>	16. Date T.D. Reached <b>12/17/75</b>	17. Date Compl. (Ready to Prod.) <b>1/27/76</b>	18. Elevations (DF, RKB, RT, GR, etc.) <b>5331' OL, OL-KB 10.5'</b>
19. Elev. Casinghead <b>5331'</b>	20. Total Depth <b>1290'</b>		
21. Plug Back T.D. <b>1260'</b>	22. If Multiple Compl., How Many <b>-</b>	23. Intervals Drilled By <b>133-1290</b>	24. Was Directional Survey Made <b>No</b>
24. Producing Interval(s), of this completion - Top, Bottom, Name <b>1216-1226' - Gallup Fm.</b>			25. Was Well Cored <b>No</b>
26. Type Electric and Other Logs Run <b>DIL, F-Log, FDC-GR, CHL, GR</b>			
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE
<b>8-5/8"</b>	<b>24#</b>	<b>132.30'</b>	<b>12-1/4"</b>
<b>5-1/2"</b>	<b>11#</b>	<b>1289'</b>	<b>7-7/8"</b>
CEMENTING RECORD		AMOUNT PULLED	
<b>120 sk</b>		<b>None</b>	
<b>225 sk</b>		<b>None</b>	
29. LINER RECORD <b>none</b>			
SIZE	TOP	BOTTOM	SACKS CEMENT
30. TUBING RECORD		PACKER SET	
<b>2-7/8"</b>		<b>1206' (btm of pump)</b>	
31. Perforation Record (Interval, size and number) <b>1216-1226' w/ 2 jet shots/foot</b>			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
<b>1216-1226'</b>		<b>Fracs: 48 bbl pad, 906 bbl trtd wtr w/ 64,000# sand, flush w/26 bbl.</b>	
33. PRODUCTION			
Date First Production <b>1/28/76</b>	Production Method (Flowing, gas lift, pumping - Size and type pump) <b>Pumping - 2-1/4" bore pump, 11-1/2 - 86" SPH</b>		Well Status (Prod. or Shut-in) <b>Producing</b>
Date of Test <b>1/30/76</b>	Hours Tested <b>24</b>	Choke Size <b>-</b>	Prod'n. For Test Period <b>30</b>
Flow Tubing Press.	Casing Pressure <b>-</b>	Calculated 24-Hour Rate <b>30</b>	Oil - Bbl. <b>TSTM</b>
			Gas - MCF <b>360 BLW</b>
			Water - Bbl. <b>41°</b>
			Oil Gravity - API (Corr.)
34. Disposition of Gas (Sold, used for fuel, vented, etc.) <b>TSTM - used on lease</b>			Test Witnessed By <b>Alph Marker</b>
35. List of Attachments <b>1 ea #26; Daily History</b>			
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.			
SIGNED <b>M E Brown</b>		TITLE <b>Ops. Info. Asst.</b>	DATE <b>2/2/76</b>

## INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

**INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE**

### Southeastern New Mexico

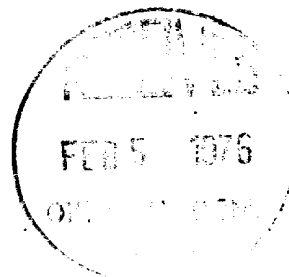
### Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	T. <del>Base Greenhorn</del> <b>Upper 1104'</b> _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

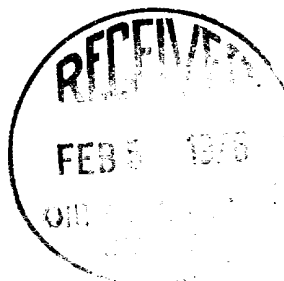
FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1202	1249'	47'	Lower Gallup - SS, gray, strks shale, gd por 1216-26', porous but more water sat'd 1226-49'				

12/13/75	40	To cont drlg & set surf. Spud 12-1/4" hole w/surf hole rig @ 11:45 a.m. 12/12 Drld 40' & SDON. Loc: 312' f/South & 323' f/West lines, Sec. 33-31H-16W, San Juan Co., New Mexico. Lse #765 et al. Elev 5331' GL, GL-KB 10.5'.	
12/14/75	133	WOC. Drld 12-1/4" hole to 133'. Ran 3 jts, 118.80 8-5/8" OD 24# K-55 LT&C csg. set @ 132.30' KBM. Cmtd w/120 sx Class "B" w/2% CaCl <sub>2</sub> , circ gd cmt. Job comp. 1:45 p.m. 12/13/75.	\$ 5,60
12/15/75	133	WO rotary.	
12/16/75	133	WO rotary.	
12/17/75	720	Drig. 1/2" @ 530. 80.RPM, 40M#. Mud 8.7#, 29 vis, 7.4 WL. B#2, Sec., S-33, in 133' & drlg, 587'. Nipl'd up & inst BOP. Tstd csg & BOP @ 800# f/30 min, held OK. Drld out.	\$ 12,12
12/18/75	1290	TD - laying dn DP, prep to run csg. 3/4" @ 812'. Reached TD 5:45 p.m. 12/17/75. Cond hole. Ran Schlumberger Comp Fm Dens and Dual Ind Laterolog. TD - Surf. csg.	\$ 22,055
12/19/75	1290	TD - WOC. Ran 40 jts, 1277.60', 5-1/2" OD 14# K-55 LT&C 8rd SH csg, set @ 1289' KB, cmtd w/150 sx B-J Lite w/10# gilsonite/sx followed w/75 sx Class "B" neat, pmp plug to 1260', plug dn 1 p.m. 12/18/75. Gd circ, cmt to surf. 20 scratchers, 4 centralizers, recip'd csg during job. PU BOP, set slips, cut off csg. Rig rel 3:45 p.m. 12/18.	\$ 34,346
12/20/75	1290	TD - WOC	
12/21/75	1290	TD - WOC	
12/22/75	1290	TD - WOC	
12/23/75	1290	TD - WOC	\$ 34,346
12/24/75	1290	TD - WOC	
12/25/75	1290	TD - WOC	
12/26/75	1290	TD - WOC	
12/27/75	1290	TD - WOC	
12/28/75	1290	TD - WOC	
12/29/75	1290	TD - WOC	
12/30/75	1290	TD - WOC	
12/31/75	1290	TD - WOC	\$ 34,346
1/01/76	1290	TD - WOC	
1/02/76	1290	TD - WOC	
1/03/76	1290	TD - WOC	
1/04/76	1290	TD - WOC	
1/05/76	1290	TD - WOC	
1/06/76	1290	TD - WOC	
1/07/76	1290	TD - WOC	\$ 34,346
1/08/76	1290	TD - WOC	
1/09/76	1290	TD - Prep to displ hole w/KCl wtr. PB - MI & RU Farmington Well Service. PU & run 2-7/8" tbq, tag btm @ 1260'. SDON.	\$ 37,667
1/10/76	1260	PB - swbg. Circ hole w/90 bbl 1% KCl wtr. Pld tbq. Ran CBL gd cmt f/btm to 300. Ran 2-7/8" tbq, swbd dn to 900'. Pld tbq. Ran GR-collar correl log. Perf'd Gallup w/4" carrier gun 1216-26' 2 jets/ft, Sch Fm Dens log, Ran 2-7/8" tbq. Swbd 5 bbl to pit in 1 hr, swbd dn, NS oil, fill approx 100'/hr. SDON	\$ 39,417



1/11/76	1260	PB - SD a/c Sunday, to move unit to #288. Yest. a.m. FL 450'. Swbd 16 BW in 1st 2 hrs & swbd dn. Then swbd 6 BW in next 7 hrs, no oil. Last 2 runs had some sli green color. Rec'd 22 bbl in 9 hrs. SDON.	\$ 40,067
1/12/76	1260	PB - SD 1/11 a/c Sunday. To move unit to #288.	
1/13/76	1260	PB - SD - rig moved to #288. Yest a.m. FL 450'. Swbd 15 BW 1st 2 hrs & swbd dn. Then swbd 4 bbl next 2 hrs, no oil. Pld & LD tbg. SI @ 12 noon, moved rig to #288.	\$ 40,967
1/14/76	1260	PB - SI	\$ 40,967
1/15/76	1260	PB - SI	\$ 40,967
1/16/76	1260	PB - SI	\$ 40,967
1/17/76	1260	PB - SI	
1/18/76	1260	PB - SI	
1/19/76	1260	PB - SI	
1/20/76	1260	PB - SI	
1/21/76	1260	PB - SI	
1/22/76	1260	PB - SI	
1/23/76	1260	PB - SI. Prep to MI frac tanks.	\$ 40,967
1/24/76	1260	PB - MI 3 frac tanks, filled w/wtr.	
1/25-26/76	1260	PB - SD, prep to frac Monday (26th)	\$ 41,250
1/27/76	1260	PB - Prep to run tbg, pmp & rods. Frac Gallup perms 1216-26' dn 5-1/2" csg w/ 2% KCl wtr, 20# Guar Gum & 25# silica flour/1000 gal as fol: 48 bbl pad (also w/110 gal ARCO S-271 scale inhib'r) 96 bbl w/ 1/2# 20-40 sd/gal 143 bbl w/ 1# 20-40 sd/gal 667 bbl w/ 2# 20-40 sd/gal, flush w/26 bbl. Brk fm @ 1600#, MTP 900#, ATP 700#, AIR 20 BPM, FP 650#, ISD 250#, 200# in 10 min. SI f/3 hrs. Flwd back 145 BLW in 3-1/2 hrs. Ran sd pmp & CO 17' sd to 1260' PBTD. SDON. -835 BL.	\$ 49,585
1/28/76	1260	PB - Pmpg f/test. Yest a.m., well on vac. Ran sd pmp, CO 6' sd to PBTD 1260'. Ran 38 jts, 2-7/8" OD EUE tbg w/2-1/4" tbg pmp, btm of pmp 1206.25'. Ran 7/8" rods w/2-1/4" plunger. Rig rel 3 p.m. 1/27. On pmp @ 4 p.m. 1/27, 11-1/2 - 86" SPM.	\$ 49,885
1/29/76	1260	PB - Pmpg f/test. Pmpd 380 BLW w/tr oil in 16 hrs f/perfs 1216-26', 2-1/4" bore pmp, 11-1/2 - 86" SPM. -455 BL.	\$ 50,000
1/30/76	1260	PB - Pmpd 30 BO, 360 BLW in 24 hrs f/Gallup perms 1216-26', -95 BLW. 2-1/4" bore pmp, 11-1/2 - 86" SPM. Instl'g perm flw line. <u>COMPLETED OIL WELL 1/30/76</u>	\$50,000



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	GAS	
OPERATOR		2
PRORATION OFFICE		

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

Form C-104  
Supersedes Old C-104 and C-110  
Effective 1-1-65

API #30-045-21926

I. Operator  
**Atlantic Richfield Company**  
Address  
**501 Lincoln Tower Bldg., 1860 Lincoln Street, Denver, Colorado 80203**  
Reason(s) for filing (Check proper box)  
New Well ☒ Change in Transporter of:  
Recompletion ☐ Oil ☐ Dry Gas ☐  
Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐  
Other (Please explain)  
**FEB 5 1976**  
OIL, NAT. GAS  
DIST. 3

If change of ownership give name  
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Horseshoe Gallup Unit</b>	Well No. <b>290</b>	Pool Name, Including Formation <b>Horseshoe Gallup</b>	Kind of Lease <b>Federal</b>	Lease No. <b>14-20-603-734</b>
Location Unit Letter <b>M</b> ; <b>312</b> Feet From The <b>South</b> Line and <b>323</b> Feet From The <b>West</b> Line of Section <b>33</b> Township <b>31N</b> Range <b>16W</b> , NMPM, <b>San Juan</b> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/> <b>Shell Pipeline Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>1715 S. Lake Ave., Farmington, N.M. 87401</b>	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
If well produces oil or liquids, give location of tanks.	Unit <b>K</b>	Sec. <b>32</b>
	Twp. <b>31N</b>	Rge. <b>16W</b>
	Is gas actually connected? When	

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well	New Well <input checked="" type="checkbox"/>	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded <b>12/12/75</b> <b>Rotary</b> <b>12/16/75</b>	Date Compl. Ready to Prod. <b>1/27/76</b>		Total Depth <b>1290'</b>		P.B.T.D. <b>1260'</b>			
Elevations (DF, RKB, RT, GR, etc.) <b>5331' GL, GL-KB 10.5'</b>	Name of Producing Formation <b>Gallup</b>		Top Oil/Gas Pay <b>Perfs. 1216'</b>		Tubing Depth <b>1206' (Btm of pump)</b>			
Perforations <b>1216-1226'</b>					Depth Casing Shoe <b>1289'</b>			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
<b>12-1/4"</b>	<b>8-5/8"</b>		<b>132.30'</b>		<b>120 sx</b>			
<b>7-7/8"</b>	<b>5-1/2"</b>		<b>1289'</b>		<b>225 sx</b>			
	<b>2-7/8"</b>		<b>1206' (Bottom of pump)</b>					

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

Date First New Oil Run To Tanks <b>1/28/76</b>	Date of Test <b>1/30/76</b>	Producing Method (Flow, pump, gas lift, etc.) <b>Pumping - 2-1/4" bore pump, 11-1/2 - 86" SPM</b>	
Length of Test <b>24 hrs</b>	Tubing Pressure <b>-</b>	Casing Pressure <b>-</b>	Choke Size <b>-</b>
Actual Prod. During Test <b>390 BF</b>	Oil-Bbls. <b>30 bbl</b>	Water-Bbls. <b>360 BW</b>	Gas-MCF <b>TSTM</b>

GAS WELL

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

VI. CERTIFICATE OF COMPLIANCE

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

W. E. Brown  
(Signature)

Operations Information, Asst.  
(Title)

2/2/76  
(Date)

OIL CONSERVATION COMMISSION

APPROVED FEB 5 1976, 19  
BY AR Kendrick  
TITLE SUPERVISOR DIST. #3

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

