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Form C-105
Revised 1-1-65

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

5a. Indicate Type of Lease State <input type="checkbox"/> Fed. <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No. 14-20-603-2037

1a. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>	7. Unit Agreement Name Horseshoe Gallup Unit
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"/> OTHER <input type="checkbox"/>	8. Farm or Lease Name Horseshoe Gallup Unit

2. Name of Operator Atlantic Richfield Company	9. Well No. 288
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3. Address of Operator 501 Lincoln Tower Bldg., 1860 Lincoln St., Denver, Colo. 80203	10. Field and Pool, or Wildcat Horseshoe Gallup
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4. Location of Well UNIT LETTER A LOCATED 200 FEET FROM THE North LINE AND 200 FEET FROM	12. County San Juan
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THE East LINE OF SEC. 25 TWP. 31N RGE. 17W NMPM	12. County San Juan
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15. Date Spudded 12/9/75	16. Date T.D. Reached 12/11/75	17. Date Compl. (Ready to Prod.) 1/14/76	18. Elevations (DF, RKB, RT, GR, etc.) 5749' GL, GL-KB 10.5'	19. Elev. Casinghead 5749'
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20. Total Depth 1610'	21. Plug Back T.D. 1566'	22. If Multiple Compl., How Many -	23. Intervals Drilled By Rotary Tools	24. Cable Tools 0
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24. Producing Interval(s), of this completion - Top, Bottom, Name 1520-1532' - Gallup formation	25. Was Directional Survey Made no
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26. Type Electric and Other Logs Run FDC-GR, F-Log, DIL, GR & CBL	27. Was Well Cored no
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28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	136.59' KB	12-1/4"	120 sx (Cmt circ'd)	none
5-1/2"	14#	1608.31' KB	7-7/8"	225 sx	none

29. LINER RECORD none				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-7/8"	1482.47' KB
					Btm of pump at 1499.67' KB	

31. Perforation Record (Interval, size and number) 1520-1532' w/ 2 jet shots/foot	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	1520-32'	1000 gal mud acid
	1520-32'	48 bbl pad, 906 gal trt'd wtr w/64,000# sand, 35 bbl flush

33. PRODUCTION							
Date First Production 1/15/76		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping, 2-1/4" bore pump				Well Status (Prod. or Shut-in) Producing	
Date of Test 1/22/76	Hours Tested 24	Choke Size -	Prod'n. For Test Period 66	Oil - Bbl. 66	Gas - MCF TSTM	Water - Bbl. 425	Gas - Oil Ratio -
Flow Tubing Press. -	Casing Pressure -	Calculated 24-Hour Rate 66	Oil - Bbl. 66	Gas - MCF -	Water - Bbl. 425	Oil Gravity - API (Corr.) 41°	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) TSTM - Used on lease	Test Witnessed By Ralph Marker
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35. List of Attachments 1 ea. of #26. Daily History

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 W. A. Walther, Jr.	TITLE Dist. Prod. & Drilg. Supt.	DATE 1/27/76
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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 Upper 1102'	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	Base Greenhorn Lower 1510'	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
1510	1550	40'	SS, stain & odor, gray, shale laminations. LOWER GALLUP. No cores or DSTs.				

#288

12/09/75		MIRT	
12/10/75	138	WOC. 1/2° @ 92' & 138'. SPUD 12-1/4" hole @ 6:15 p.m. 12/9/75. Drld 12-1/4" to 138'. Ran 3 jts 8-5/8" OD 24# K-55 ST&C 8rd N csg set @ 136.59' KB, cmtd w/120 sx Class "B" w/2% CaCl, PD 5:45 a.m. 12/10/75. Cmt circ'd. 2 Bkr centralizers, Bkr Lok all jts. B#1, RR, HTC, OSC3, 0-138'. \$ 5,203	
12/11/75	499	Drig. 3/4° @ 398'. 80 RPM, 30M#. Mud 8.7#, 28 vis, 12 WL. B#2, Sec., S-33, in @ 138' & drlg, 361' in 7-3/4 hrs. Nipl'd up & inst BOP, tstd csg & BOP @ 800#, held OK. Drld out @ 1:30 a.m. 12/11/75. \$ 9,538	
12/12/75	1610	Logging. 3/4° @ 660', 1° @ 1030', 1-1/4° @ 1331', 3/4° @ 1610'. Mud 8.9#, 40 vis, 9 WL. 80 RPM, 40M#. B#2, Sec., S-33, 138-1610', 1472'. TD @ 10:30 p.m. 12/11/75. Ran DIL and Comp. Fm Dens. logs, TD-Surf. \$ 22,548	
12/13/75	1610	TD - WOC. Finished logging. Ran 52 jts, 1597.81', 5-1/2" OD 14# K-55 8rd LT&C SH csg, set @ 1608.31'KB. Cmtd w/150 sx B-J Lite cmt w/10# Gilsonite/sx, plus 75 sx Class "B" neat, gd cmt returns to surf. Pmp plug to 1578', PD 7:45 p.m. 12/12/75. 5 Centralizers, 20 scratchers, reciprocated pipe during cmtng. Removed BOP, set slips, cut off csg, rig rel 11:45 p.m. 12/12/75. \$ 39,561	
12/14/75	1610	TD - WOC	
12/15/75	1610	TD - WOC	
12/16/75	1610	TD - WOC	
12/17/75	1610	TD - WOC	\$ 39,561
12/18/75	1610	TD - WOC	
12/19/75	1610	TD - WOC	\$ 39,561
12/20/75	1610	TD - WOC	
12/21/75	1610	TD - WOC	
12/22/75	1610	TD - WOC	
12/23/75	1610	TD - WOC	\$ 39,561
12/24/75	1610	TD - WOC	
12/25/75	1610	TD - WOC	
12/26/75	1610	TD - WOC	
12/27/75	1610	TD - Prep to run tbg & swab. MI & RU compln unit. Blue Jet ran GR, correl, & CBL, gd bond to surf. Ran 2-7/8" tbg w/SN & circ hole w/1% D-600 & 1% KCl. Swbdc FL to 1200'. Pld tbg. Perf'd Gallup w/4" Atlas jets 1520-32' w/2 jets/ft. (Sch. Dens. Meas.). Nip'd up well head. SDON. \$ 45,781	
12/28/75	1566	PB - Cont to swab. Yest a.m. hole full. Ran 49 jts 2-7/8" tbg w/SN, tbg landed @ 1535'. Swbd 31 bbl wtr & swbd dn. Cont'd swbg 4-1/2 hrs & rec'd 23 BF w/trace of oil. Total 54 bbl. \$ 46,381	
12/29/75	1566	PB - Cont to swab. Yest a.m., FL 400'. Swbd 27 BF in 2 hrs & swbd dn, then swab 22 BF in 6 hrs, skim of oil, est .5%, 2 runs/hr. Total 49 BF in 8 hrs. \$47,021	
12/30/75	1566	PB - Prep to swab. Yest am FL 200'. Swb 31 BW w/tr oil, swbd dn. Pld tbg. Ran Bkr Mod AB pkr on 2-7/8" tbg, spot mud acid over perfs, pld 3 jts & set pkr @ 1475'. Ac'd w/1000 gal mud acid. Pmp @ 1/4 BPM @ 1300#, brk to 950#, inc rate to 1/2 BPM; after 800 gal in, press brk to 750#, inc to 1 BPM @ 750#. SD 2 hrs. Flush w/20 BW w/1% ARCO D-600 @ 1 BPM @ 500#. Job compl. 4:50 p.m. 12/29/75 SDON. \$ 49,081	
12/31/75	1566	PB - Cont to swab. Yest a.m. well head froze, thawed. Swbd 15 BLF 1st 2 hrs & swbd dn. Cont swbg 6 hrs & rec'd 25 BLF, total 40 BLF in 8 hrs, -12 BL. No oil, spent acid wtr & taste. SDON. Working on elec to well \$ 50,631	
1/01/76	1566	PB - SD a/c Holiday. Yest a.m. tbg full, no press. Swbd 16 BW 1st 2 hrs & swbd dn. Then swbd 25 BW in 6 hrs (total 41 bbl - 12 BL & 29 BNW). No oil, sli amt foamy crud, not much.	
1/02/76	1566	PB - SD a/c Holiday. Prep to rel pkr & POH. \$ 51,281	
1/03/76	1566	PB - SI, W0 frac design. 7 a.m. yesterday, tbg full, WH froze, thawed. Swbd 9 BF in 2 hrs & swbd dn, trace of oil on top. Next 3 hrs swbd 13 BW w/none to trace of oil. Rel pkr. Pld & LD tbg. SI. Rel rig 4 p.m. 1/2/75. Have rec'd load + 51 bbl. \$ 51,881	



1/04/76	1566	PB - SI, WO frac design.	
1/05/76	1566	PB - SI, WO frac design.	
1/06/76	1566	PB - SI, WO frac design.	
1/07/76	1566	PB - SI, WO frac design.	\$ 51,881
1/08/76	1566	PB - SI, WO frac design.	
1/09/76	1566	PB - Moving in frac tanks.	\$ 51,881
1/10/76	1566	PB - MI tanks, haul wtr, prep to frac Monday.	\$ 51,881
1/11-12/76	1566	PB - Prep to frac today (12th) Hauled in wtr.	
1/13/76	1566	PB - Prep to flow back, run tbg & rods. Frac Gallup perms 1520-32' dn 5-1/2" csg w/2% KCl wtr, 20# guar gum & 25# silica flour per 1000 gal as follows: 48 bbl pad (also contained 110 gal ARCO S-271 scale inhib.) 96 bbl w/ 1/2#/gal 20-40 sd 143 bbl w/1#/gal 20-40 sd 667 bbl w/2#/gal 20-40 sd, flush w/35 bbl Total load 989 bbl. MP 1400#, Avg 900# @ 20 BPM. ISD 400#, 15 min SIP 350#. SI f/2 hrs 15 min. Back flow 40 BL in 1st hr, pinched. Then flwd 192 BL in next 2 hrs. Ran sd pump & CO sd 1530-40'. SD a/c darkness. Total rec'd 232 bbl., -757 BL. Moved in unit from #290.	\$ 62,314
1/14/76	1566	PB - instl'g flw line & pmpg unit. Ran sd pump, CO sd 1540-1566'. Ran 47 jts 2-7/8" OD EUE 6.5# tbg w/2-1/4" bore tbg pump, btm of pump @ 1500'. Ran 58 - 7/8" rods N. SI. Rig rel 3 p.m. 1/13/76.	\$ 64,964
1/15/76	1566	PB - Pmpg f/test. On pump 4 p.m. 1/14. Pmp 22 BL to pit in 1 hr, trace of oil. SDON.	\$ 65,314
1/16/76	1566	PB - Pmpg f/test. Pmpd est 440 BLW & 5 B0 in 20 hrs. - 295 BL. Had flw line leaks.	\$ 65,314
1/17/76	1566	PB - Pmpg f/test. Pmp hanging, pmpd 5 B0, 295 BL & 105 BFW 24 hrs.	\$ 65,314
1/18/76	1566	PB - Pmpg f/test. Was not pmpg, pmp hanging, bumped well & std pmpg. Pmp 233 BPD, 2-3% oil.	\$ 65,314
1/19/76	1566	PB - Prep to pull. Pmpg part time, hanging up w/sd. Dn 4 hrs a/c power failure.	\$ 65,314
1/20/76	1566	PB - Pmpg f/test. MI & RU ser. unit, Pld 7/8" rds, 2-1/4" bore pmp, 2-7/8" tbg. Standing valve & part of bbl full of sd. Ran sd pmp, top sd @ 1509', CO 57' sd, Reran tbg, rods & plunger, btm of pmp @ 1499'. On pmp @ 5:30 p.m. 1/19	\$ 66,314
1/21/76	1566	PB - Pmpg f/test, into test treater. Pmpd 12 B0 & 250 BW in 14 hrs f/Gallup perms 1520-32'.	\$ 66,314
1/22/76	1566	PB - COMPLETED OIL WELL 1/22/76. Pmpd 66 B0 & 425 BW in 24 hrs f/Gallup perms 1520-1532', 2-1/4" bore pump, 14 - 64" SPM, gas TSTM.	\$ 66,314

