

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL ☒ OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER ☐
2. TYPE OF COMPLETION ☒ SET ☐ WORK OVER ☐ REIL ☐ PLUG BACK ☐ LIFT ☐ OTHER ☐
3. NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL Report location clearly and in accordance with instructions on back of form

At surface 1590' ENL & 1460' FEL Unit C

At top prod. interval reported below

At total depth Approx the same

RECEIVED

JUL 25 1983

API # 80-045-25724

14. PERMIT NO. FARMINGTON, N.M.

BLM 5-16-83

1. FIELD OR SECTION AND SERIAL NO.

51-00000-1

2. FIELD OR SECTION AND SERIAL NO.

Navajo

3. UNIT AGREEMENT NAME

Horseshoe Gallup

4. FARM OR LEASE NAME

Horseshoe Gallup

5. WELL NO.

300

10. FIELD AND POOL OR WILDCAT

Horseshoe Gallup

11. SEE TO BE, MD, OR BLOCK AND SURVEY OR AREA

4-30N-16W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

15. DATE SPUNDED 16. DATE TD REACHED 17. DATE COMPLETION (Ready to prod.)

6-11-83

6-14-83

7-11-83

15. ELEVATIONS (DF, RSB, RT, GR, ETC.)

5393' GL; 5412' DF; 5413' KB

19. ELEV. CASINGHEAD

5393' GL

20. TOTAL DEPTH, MD & TVD

1425' GL

21. PLUG BACK T.D., MD & TVD

1396' GL

22. IF MULTIPLE COMPLETIONS, HOW MANY

1

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0 - 1425'

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Gallup 1211' - 1250' & 1317' - 1347'

25. WAS INJECTION SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL/GR

CDL/GR

27. WAS WELL CURED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#	41' GL	17-1/2"	SEE ATTACHED-Page 1	NONE
8-5/8"	24#	165' GL	12-1/4"	SEE ATTACHED-Page 1	NONE
5-1/2"	14#	1425' GL	7-7/8"	SEE ATTACHED-Page 1	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE					2-7/8"	1246' GL	NONE

31. PERFORATION RECORD (Interval, size and number)

Gallup 1211'-1250' 4" gun 2 SPF

Gallup 1317'-1347' 4" gun 2 SPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

SEE ATTACHED

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
7-11-83		Pumping - 2" pump, 24" stroke, 10 SPM				Producing	
DATE OF TEST	HOURS TESTED	HOSE SIZE	PROD N. FOR TEST PERIOD	OIL—BBL	GAS—MCF	WATER—BBL	GAS-OIL RATIO
7-18-83	24 hrs	----	→	54	----	29	----
FLOW TUBING PRESS.	CASING PRESSURE	CALCULATED 24 HOUR RATE	OIL—BBL	GAS—MCF	WATER—BBL	OIL GRAVITY-APPROX. COEFF.	
-----	-----	→	54	-----	29		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

P.E. Lantsier

ACCEPTED FOR RECORD

35. LIST OF ATTACHMENTS

2 of #26 above and Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W.A. Walker

TITLE Operations Manager

JUL 28 1983

*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCC

FARMINGTON RESOURCE AREA
FARMINGTON, NEW MEXICO

BY Sim

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If and when prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 1a: Indicate which elevation is used as a reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, (top(s), bottom(s) and nature(s) (if any) for only the interval reported in item 33. Submit a separate report (pages on this form, independently identified, item 24: "See 24 Complete"). Attached supplemental records for this well should show the details of any multiple stage completion and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above).

FEDERAL AGENCY OR INDIAN LAND		STATE AGENCY		LOCAL AGENCY		FEDERAL AGENCY OR INDIAN LAND		STATE AGENCY		LOCAL AGENCY	
NAME		NAME		NAME		NAME		NAME		NAME	
TOP		TOP		TOP		TOP		TOP		TOP	
BOTTOM		BOTTOM		BOTTOM		BOTTOM		BOTTOM		BOTTOM	
NO CORES AND NO DST'S											
RECEIVED JUL 29 1983 OIL CON. DIV. DIST. 3											
Upper Gallup		1207'									
Lower Gallup		1316'									

28. CASING CEMENTING RECORD:

13-3/8" 61#, K-55, STC casing cemented @ 42' GL with 70 sx
Class "B" + 3% CaCl_2 (1.17 cu.ft./sx. yields 81.9 cu.ft.).
Circled 2 bbls cement to surface.

8-5/8" 24#, K-55, STC casing cemented @ 165' GL with 125 sx
Class "B" with 2% CaCl_2 + 1/4#/sx flocele (1.17 cu.ft./sx.
yields 146.25 cu.ft.). Bump plug with 250 psi. Floats held.
Circled 5 sx good cement to pit.

5-1/2" 14#, K-55, STC casing cemented @ 1425' GL with 270 sx
Class "B" + 2% CaCl_2 + 1/4#/sx flocele (1.17 cu.ft./sx. yields
315.9 cu.ft.). Bump plug with 250 psi. Circled 10 bbls cement
to pit with full returns throughout.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

1317' - 1347' Spotted 500 gals 15% HCL

1317' - 1347' 284 bbls 2% KCL water and additives and 22,550# 10/20 mesh sand

1211' - 1250' Spotted 500 gals 15% HCL

1211- - 1250' 299 bbls 2% KCL water and additives and 23,700# 10/20 mesh sand

RECEIVED
JAN 13 1968
BUREAU OF LAND MANAGEMENT
SALT LAKE CITY, UTAH

6/7/83 MI RU L & B Speed Drill. Drld 17-1/2" hole to 42'. Set 1 jt 13-3/8", 61#/ft K-55 conductor csg & BJ cmt'd w/70 sx Cl "B" + 3% CaCl₂.

6/8/83 Ready to receive Aztec Rig #56 after HSG #299. (13-3/8" @ 42' GL)

6/9/83 WO rig. (13-3/8" @ 42' GL)

6/10/83 WO rig. (13-3/8" @ 42' GL)

6/11-13/83 674 Day-2 (633') - Circ prior to cmtg. (8-5/8" @ 165' GL)
MI RU & SPUD @ 1815 hrs 6/11/83. Drld 12-1/4" hole to 165' GL & ran 4 jts 8-5/8", 24#, K-55, STC w/shoe @ 165' & FC @ 121'. BJ cmt'd csg w/125 sx Cl "B" + 2% CaCl₂ + 1/4#/sx. Gd returns & had 5 sx cmt back to surf. CIP @ 0630 hrs 6/12/83. WOC f/4 hrs, cut off landing jt & instl'd 8-5/8" csg'd. NU BOPs & tstd to 1100 psi. Drld & surveyed to PD. Surveys: 1° @ 360' & 1-1/4° @ 644'.

6/14/83 1440 Day-3 (766') - Rng 5-1/2" csg. (8-5/8" @ 165' GL)
MW: 8.8# Vis: 40 Pv/Yp: 14/8
Drld to PD & Gearhardt ran DIL/CNL/Calip. RIH w/bit, circ & cond hole & POH.

6/15/83 1440 Day-4 PBD: 1396' (FC) - WO completion. (5-1/2" @ 1425' GL)
Ran 24 jts 5-1/2", 14#/ft, K-55, STC w/GS @ 1438' RKB & FC @ 1396' RKB. BJ cmt'd w/270 sx Cl "B" + 2% CaCl₂ + 1/4#/sx Flocele. Full returns thruout cmtg oprn & circ approx 10 bbls slurry to surf. PU BOPE & set slips w/20M# tension. ND BOPE & RR 1400 hrs 6/14/83. (Drop f/report until completion commences.)

7/7/83 1440 Day-2 PBD: 1396' - Prep to CO sd after frac.
MI & RU 7/6/83. NU BOPs. RIH w/ 4-3/4" bit & csg scraper on 2-7/8", 6.5#, J-55, EUE tbg & tagged PBD @ 1396' RKB. Displ'd hole w/2% KCl wr & tstd csg to 2000 psi. POH w/tbg. Welex perf'd 1317-1347' @ 2 SPF w/4" csg gun. RIH w/ 2-7/8" tbg to 1360'. Spt 500 gal 15% HCl across perfs 1317-1347'. POH. Frac dn csg. Frac w/309 bbls gel wr w/5% diesel, 16000# 10/20 sd. SDON. (Dropped f/report of 6/15/83.)

7/8/83 1440 Day-3 PBD: 1396' - Prep f/acid & frac job.
Opn'd well. Flw'd small amt gas & frac fluid. Bleed dn to 0 psi. TIH w/tbg. Tag sd @ 1354'. POH. Drp'd 75 gal sd dn csg. RU Welex. Tag sd @ 1170'. POH. Press tst csg to 2000 psi, bleed off to 1000 psi in 30 sec. RIH & CO sd to 1396'. RIH w/Ber Model "C" RBP. Set @ 1280'. Press tst to 2000 psi - held OK. RU Welex 4" gun. Perf'd 1250' - 1211' w/2SPF. RD & RIH w/tbg to 1260'. SWIFN.

SWIFT 1396 WELL
H. H. Smith Energy - 30N-10W
Falmouth, New Mexico

7/8-11/83 1440 Day-5 PBD: 1396' - WO pmpg unit & elec.
Bled well to 0 psi. RU Smith Energy. Spt 500 gals 15% HCl acid across
perfs. POH w/tbg. Frac dn csg w/300 BFF (2% KCl w/5% diesel) & 24,000#
10/20 sd. SWIFN. Bled well to 0 psi. THH w/tbg. CO sd & retr BP 1280'.
POH. RIH w/prod tbg, pmp & rods. RD & rel'd plg unit 7/9/83 to move to HSG
#301. SD over weekend.

7/12/83 1440 Day-5 PBD: 1396' - WO production tst.
Fin rmg flwline & set pmpg unit 7/11/83. Prod tst is to run today
(7/12/83).

7/13/83 1440 Day-5 PBD: 1396' - WO production tst.

7/14/83 1440 Day-5 PBD: 1396' - Tstg in progress.

7/15/83 1440 Day-5 PBD: 1396' - Tstg in progress.

7/16-18/83 1440 Day-5 PBD: 1396' - Pmpg f/test.
TP & CP 110 psi. Pmpd f/tst @ 54 BOPD, 29 BWPD. 41.5° oil svty.

19/83 1440 Day-5 PBD: 1396' - FINAL REPORT - COMPLETED OIL WELL, 7/18/83.
24 hr tst 54 BOPD, 29 BWPD f/Gallup perfs 1211-1250' & 1317-1347' (LPP
1347'). Pmpd w/2" pmp, 24" stroke, 10 SPM.