

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.

1. oil ☒ gas ☐ other ☐
well well

2. NAME OF OPERATOR ARCO Oil and Gas Co., Div.
of Atlantic Richfield Company

3. ADDRESS OF OPERATOR 707 - 17th Street,
P.O. Box 5540, Denver, Colo. 80217

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17
below.) Unit "A",
AT SURFACE: (NE NE) 200' FNL & 200' FEL,
AT TOP PROD. INTERVAL: Appx. same Sec. 25
AT TOTAL DEPTH: Appx. same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐

SUBSEQUENT REPORT OF:

RECEIVED

DEC 10 1982

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

U.S. GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
RECEIVED

NOV 26 1982

(NOTE: Report results of multiple completion or zone
change on Form 9-330.)

GRAND JUNCTION, COLORADO

(other) Stimulate present Lower Gallup perfs and additionally complete
Upper Gallup Sand

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.)*

ARCO Oil and Gas Co. desires to re-perforate and acidize the Lower
Gallup perforations in the subject well; and attempt additional
completion by perforating and fracing the Upper Gallup Sand.

Attached is the planned Workover Procedure and a GR-Compensated
Formation Density Log, showing the proposed re-perforations in the
Lower Gallup and the proposed perforations in the Upper Gallup Sand.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED S. C. Rose TITLE Dist. Prod. Supt. DATE November 19, 1982

APPROVED BY _____ (Leave space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

ADDON

DEC 11 1982
JES F. SIM
DISTRICT ENGINEER

*See Instructions on Reverse Side

NMOCC

Workover Procedure:

1. MIRU. Pull rods, pump and tbg. Note if scale is present. Clean out hole to PBTD w/casing scraper.
2. RIH w/casing perforating gun and perf opposite Lower Gallup f/1532-42' ELM w/2 0.5" JET SPF (20 shots) Use premium quality deep penetrating charges.
3. If moderate scale is noted, run tbg and spot 500 gal 15% HCl. POH w/tbg. Displace acid into perfs. Do not overdisplace. Acid to contain surfactant and iron sequestering agent. If scale does not seem to be a problem proceed to Step 5.
4. Wait one hour, then swab acid back.
5. Mix 1 drum of S-271 scale inhibitor with 40 bbls of water and displace into perforations 1520-42' w/125 bbls of water.
6. Set retrievable bridge plug @ \pm 1460' w/wireline. Pressure test plug and csg to 2000 psi.
7. RIH w/csg perforating gun and perf opposite Upper Gallup f/1410-32' w/2 0.5" Jet SPF (44 shots).
8. RIH w/tbg and spot 500 gal 15% HCl. Acid to contain surfactant. Pull tbg and rig up to frac down 5-1/2 csg.
9. Breakdown Upper Gallup formation with 1000-2000 gallons of pre-pad of slickwater, establishing a rate of 20 BPM. Shut-down for 2-minutes to obtain ISIP.
10. Frac down 5-1/2" casing at 20 BPM at approximately 1000 psi using 8000 gal low-residue cross-linked 20#/1000 gal gel and 21,200 pounds 10/20 sand. Frac fluid to contain 2% KCl, 2 gal/1000 gal non-emulsifier, and appropriate breakers.

Remarks:

- a. Internal yield for 5-1/2" 14# J-55 csg is 4270 psig and capacity is 1.025 gal/ft.
- b. Bacteriacide to be added to tank water at .25 gal/1000 gal prior to treatment.
- c. $HHP = .0245 \times 1000 \times 20 = 490$.
- d. Service Company to test fluid gelling and gel breaker agents prior to treatment.
- e. Do not overflush

Fluid Schedule

<u>Gals</u>	<u>Bbls</u>	<u>Prop</u>	<u>Prop</u> <u>Conc</u>	<u>Prop</u> <u>Wt.</u>	<u>Fluid</u>
2,000	48	Pad	---	---	Low Residue Cross Linked Gel
700	17	10/20	1 ppg	700#	"
800	19	10/20	2 ppg	1600#	"
900	21	10/20	3 ppg	2700#	"
1,800	43	10/20	4 ppg	7200#	"
1,800	43	10/20	5 ppg	9000#	"
1,275	30	Flush	---	---	2% KCl Water
9,275	268			21,200#	

11. Allow sufficient time for gel to break. Clean out sand to bridge plug.
12. Retrieve bridge plug.
13. Run pumping equipment, put well on test. (Upper and Lower Gallup commingled production).

Well Data:

Location: 200' FNL, 200' FEL, Section 25-31N-17W
San Juan County, New Mexico

Elevation: GL-5749' KB-5759'
Log measured from KB

Casing: 5-1/2" 14# K-55 set @ 1608' KB, cemented w/150
sx BJ-lite and 75 sx CL 'B'

Perfs: 1520-32' ELM(Lower Gallup)

Tubing:	1 Jt 2-7/8" EUE 8rd 6.5# J-55	14.00
	1 SN 2-7/8" EUE 8rd J-55	1.10
	47 Jts 2-7/8" EUE 8rd 6.5# J-55	1468.90
	1 Jt Sub 2-7/8" EUE 8rd J-55	4.00
		<u>1488.00</u>
	RKB to tbg head collar	9.00
		<u>1497.00</u>

TD: 1608'

PBTD: 1566'

HSGU #288
GR-Compensated Formation
Density Log

