

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form Approved
Budget Bureau No. 42-R355.6.**WELL COMPLETION OR RECOMPLETION REPORT AND LOG ***

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>						5. LEASE DESIGNATION AND SERIAL NO. NM 0607	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME ---	
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company						7. UNIT AGREEMENT NAME ---	
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217						8. FARM OR LEASE NAME Atlantic "C"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 790' FNL & 1120' FEL At top prod. interval reported below At total depth Approx the same						9. WELL NO. 101	
10. FIELD AND POOL OR WILDCAT East Aztec Basin Dakota						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 6-30N-10W	
14. PERMIT NO. J. Sims				DATE ISSUED 3-10-82		12. COUNTY OR PARISH San Juan	
						13. STATE New Mexico	
15. DATE SPUDDED 5-14-82		16. DATE T.D. REACHED 6-16-82		17. DATE COMPL. (Ready to prod.) 9-1-82		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* SEE ATTACHED	
19. ELEV. CASINGHEAD SEE ATTACHED		20. TOTAL DEPTH, MD & TVD 7462'		21. PLUG, BACK T.D., MD & TVD 7434'		22. IF MULTIPLE COMPL., HOW MANY* 1	
23. INTERVALS DRILLED BY 0-7462'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota A,B,&C - 7121'-7287' Shut in by Cast Iron Bridge Plug @ 6620' Dakota D - 7354'-7394' pending approval to comingle w/Gallup prod.		25. WAS DIRECTIONAL SURVEY MADE NO			
26. TYPE ELECTRIC AND OTHER LOGS RUN CNL DIL/SFL						27. WAS WELL CORED NO	
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
10-3/4"		40.5#		705'		14-3/4"	
4-1/2"		11.6#		7461'		7-7/8"	
29. LINER RECORD				30. TUBING RECORD			
SIZE		TOP (MD)		BOTTOM (MD)		PACKER SET (MD)	
NONE						NONE	
31. PERFORATION RECORD (Interval, size and number) SEE ATTACHED				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED SEE ATTACHED			
33. PRODUCTION							
DATE FIRST PRODUCTION 7-3-82		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) swabbed back gas cut acid water WO app'rl to comingle w/Gallup				WELL STATUS (Producing or shut-in) SI by CIBP @ 6620'	
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD	
TEST TO BE CONDUCTED AFTER FINISHING CLEAN-UP OPERATIONS WHEN (IF) PERMISSION							
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)	
TO COMINGLE PRODUCTION IS GIVEN							
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Gas vented on cleanup						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS 2 of #26 above							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available data.							
SIGNED W. A. Walther, Jr.		TITLE Acting District Manager				DATE 11-1-82	

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

NOV

8 1982

RECEIVED FOR RECORD
NOV 8 1982
W. A. Walther, Jr.

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 not filed 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 logs, 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 35.

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 18: Indicate which elevation is used as 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 name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Seals (cement)". Attached supplemental records for this well should show the details of any multiple stage cementing 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.)

37. SUMMARY OF POROSITY ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION ISRD, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
NO CORES AND NO DSTS				Ojo Alamo	1795'	
				Kirtland	1836'	
				Fruitland	2432'	
				Pictured Cliffs	2761'	
				Lewis	2893'	
				Cliffhouse	4351'	
				Pt Lookout	4974'	
				Upper Mancos	5134'	
				Gallup	6275'	
				Lower Mancos	6538'	
				Greenhorn	7006'	
				Graneros	7064'	
				Dakota	7117'	
				Morrison	7396'	

38.

(GEOLOGIC MARKERS)

ATLANTIC "C" 101
NENE Section 6-30N-10W
San Juan County, New Mexico

DAKOTA

18. Elevations(DF,RKB,GR, ETC)

DF 14'; RKB 6135'; RT 6134'; GR 6121'

19. Elev. Casinghead

Braiden Head Flange 6119½'; Inter Casing Spool Flange 6121½'

28. Casing Record (Cementing Record)

10-3/4" surface casing: cemented with 700 sacks Class "H" cement containing 2% CaCl₂. Total volume=798 cu.ft. Circulated 70 sacks (79.8 cu.ft.) to surface.

4-1/2" production casing: set stage cementing tools at 3016' RKB and 1707' RKB. Cemented with: First stage: lead slurry 1074 cu.ft., 600 sacks 50/50 Class "H" cement/pozzolan containing 6% gel + 6#/sx salt + 12½#/sx gilsonite + 2% CaCl₂. Tail slurry 181.5 cu.ft., 150 sacks Class "H" + 6#/sx salt + 2% CaCl₂. Top cement by Cement Bond Log = 4472'.

Second stage: 841.3 cu.ft., 470 sacks 50/50 Class "H" cement/pozzolan containing 6% gel + 6#/sx salt + ½ cu.ft./sx perlite + 2% CaCl₂. Top of cement at 3rd stage collar - circulated approx 70 sx (125.3 cu.ft.) to surface after opened stage collar @ 1707'.

Third stage: 1109.8 cu.ft., 620 sx 50/50 Class "H" cement/pozzolan containing 6% gel + 6#/sx salt + ½ cu.ft./sx perlite + 2% CaCl₂. Circulated approx 130 sx (232.7 cu.ft.) to surface.

31. Perforation Record (Interval, size and number)

Dakota "D" Sand

Shot 35 0.34" diameter perfs at 1 JSPF at (RKB) depths:

7354-7379

7384-7394

Dakota A, B, & C Sand

Shot 17 0.38" diameter perfs at (RKB) depths:

7121,7123

7213,16,19,21,23,26,29,68,70,72,74,78,81,84,7287

32. Acid, shot, fracture, cement squeeze, etc.

7354' - 7394' (RKB)

Dakota "D" Sand

acid: 1200 gals 15% HCL + additives

frac: 75,936 gals + additives + 6,048# 100 mesh sand and 162,372# 20/40 mesh sand

7121' - 7267' (RKB)

Dakota A, B, & C Sands

acid: 1200 gals 15% HCL + additives

frac: 62,395 gals + additives + 7,500# 100 mesh sand and 63,008# 20/40 mesh sand

