

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R-10-1

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. SF-080472-A	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME - - -	
2. NAME OF OPERATOR Atlantic Richfield Company		7. UNIT AGREEMENT NAME - - -	
3. ADDRESS OF OPERATOR 501 Lincoln Tower Building, 1860 Lincoln St., Denver, Co. 80295		8. FARM OR LEASE NAME Chacon Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface (SE SE) 800' FEL & 800' FSL Section 30 At top prod. interval reported below Approximately Same At total depth Approximately Same		9. WELL NO. 1	
10. FIELD AND POOL, OR WILDCAT Chacon Dakota		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 30-24N-3W	
12. COUNTY OR PARISH Rio Arriba		13. STATE New Mexico	
14. PERMIT NO. 30-039-21579	DATE ISSUED 11-28-77	15. DATE SPUDDED 5-16-78	
16. DATE T.D. REACHED 6-1-78		17. DATE COMPL. (Ready to prod.) 6-30-78	
18. ELEVATIONS (DF, RKE, RT, GR, ETC.)* 7250' GR 7264' RKB		19. ELEV. CASINGHEAD -	
20. TOTAL DEPTH, MD & TVD 7779'	21. PLUG, BACK T.D., MD & TVD - - -	22. IF MULTIPLE COMPL., HOW MANY* -	23. INTERVALS DRILLED BY 0-7779'
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota A Perforations 7378'-7420' Dakota B Perforations 7492'-7505'			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Ind. Form Dens-Comp Neu-GR			27. WAS WELL CORED No
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8-5/8" OD	24#	314' KB	12 1/2"
5-1/2" OD	15.5 & 17 #	7779' KB	7-7/8"
CEMENTING RECORD		AMOUNT PULLED	
275 sx		None	
505 sx (2 stage) DV		None	
tool @ 3378'			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
None			
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-3/8" OD	7343' KB	None	
31. PERFORATION RECORD (Interval, size and number)			
Dakota B Zone 7492'-7505' w/2 jet shots/ft.			
Dakota A Zone 7378'-7420' w/1 jet shots/ft.			
32. ACIL, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
See Completion Record			
33.* PRODUCTION			
DATE FIRST PRODUCTION 6-30-78		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) SI			
DATE OF TEST 7-12-78	HOURS TESTED 24	CHOKE SIZE 15/64"	PROD'N. FOR TEST PERIOD 258
FLOW. TUBING PRESS. 1170#	CASING PRESSURE 1820#	CALCULATED 24-HOUR RATE 258	GAS—MCF. 451
WATER—BBL. 72		GAS-OIL RATIO 1748:1	
OIL GRAVITY-API (CORR.) 45°			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold when flow lines completed			
TEST WITNESSED BY J. E. Taylor			
35. LIST OF ATTACHMENTS See back of page for Completion Record and Geological Logs			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED W. A. Walther, Jr.		TITLE Operations Manager	
		DATE July 14, 1978	

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

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 53, 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.), formations, logs, 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 24.

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 12: 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: *Snake Creek?* 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.)

27. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
COMPLETION RECORD:			Geological Tops (Elec. Log)		
Drild out 17 tool @ 3378', cleaned out to 7650' - Jet perf Dak B zone 7492-7505 w/2 holes per ft. Frac trtd these perfs down csg. w/8000 gals pad, 34,000 gals 1% KOL gelled str., & 38,000# 40-60 sd flushed w/7500 gals wtr. Brk dn press 2900#, max press. 2900# avg press 2000# @ 40BPM. Set Bp on WL @ 7410' - Jet perf Dak! A zone 7378-7420 w/1 hole per ft. Frac trtd this zone down csg. w/10,000 gals pad, 63,400 gal gelled wtr, 80,000# sd, flushed w/7500 gals. Brk dn press-2600#, max press 2750#, avg press 2400# @ 44 BPM. Ran L-3/4" bit, drild out BP @ 7440' & cld out to 7660'-pulled tbg & bit. Ran 2-3/8" tbg landed @ 7343' KB, sv. for test, well started flow after 4 hrs. FRT taru 18/64" ch.			Pictured Cliffs 3210' Dakota A 7376' Dakota B 7490' Dakota Silt 7541' Dakota C 7578' Burrow Canyon 7647' Morrison 7736'		
COMPLETED OILWELL 7-12-78: Flowed 258 BO, 72 BW and 451 MCFD in 24 hrs. thru 1 1/2" choke f/Dakota perfs 7378-7420(A Zone) and Dakota perfs 7492-7505 (B Zone)					

5/17/78	316	RU to run 8-5/8" csg. Spudded 12-1/4" hole 11:00 pm 5/16/78. Drid to 316'. 1/4" @ 300'. 60 RPM, all wt. B#1, 12-1/4", HTC, OSCIG, 0-316', 316' in 7 hrs. \$ 27,180
5/18/78	470	Drlg. 80 RPM, 20M#. Mud: 8.7#, vis 40. B#2, 7-7/8", Sm., DG, in @ 316' & drlg, 54' in 1-1/2 hrs. Ran 7 jts, 299.04', 8-5/8" OD 24# K-55 8rd \$ 36,340 ST&C R-3 new csg set @ 314'KB, cmted w/275 sx CI "B" w/2% CaCl. PD 9:45 am 5/17. Circ 18 bbl cmt to pit. WOC, NU & inst BOP 18 hrs, tst blind rams & pipe rams & choke lines 1200# f/15 min ea., held OK. KB-GL 14'.
5/19/78	2200	Drlg. 1/2" @ 750', 1122', 1553', 3/4" @ 1769'. Mud: 9#, vis 44, WL 3.2, FC 1/32, Ph 9.4, oil 10%. 60 RPM, 45M#. B#2, Sm., DT not DG, 316-1769', 1453' in 17-1/4 hrs. B#3, Sm., DT, in @ 1769' & drlg, 431' in 6 hrs. \$ 59,105
5/20/78	3215	Drlg. 3/4" @ 2231', 1/4" @ 2764'. 55 RPM, 45M#. Mud: 9.0#, vis 40, WL 3.2, FC 1.0, Ph 9.5, Pv 11, Yld 14, Gels 2/3, solids 4-1/2%, oil 9%. B#3, 7-7/8", Sm., DT, 1769-2764', 995' in 21 hrs. B#4, 7-7/8", Sec., S-84F, in @ 2764' & drlg, 451' in 9-3/4 hrs. \$ 73,645
5/21/78	4000	Drlg. 3/4" @ 3776'. 55 RPM, 45M#. Mud: 8.8#, vis 40, WL 4.0, FC 1/32, Sd 1% Ph 9.0, Pv 13, Yld 6, Gels 2/4, solids 6%, oil 10%. B#4, 7-7/8", Sec., S-84F, in @ 2764' & drlg, 1236' in 33-1/2 hrs. \$ 85,365
5/22/78	4527	Drlg. 3/4" @ 4086'. 65 RPM, 45M#. Mud: 9.1#, vis 38, WL 4.4, FC 1/32, Sd 1/4%, Ph 9, Pv 16, Yld 7, Gels 2/4, oil 10%, solids 6%. B#4, 7-7/8", Sec., S-84F, in @ 2764' & drlg, 1763' in 56 hrs. \$ 94,330
5/23/78	4678	Drlg. Trip tite, POH. GIH bridged @ 2800'. Bridges f/4 stds off btm TD. Tried to circ f/4200'. Bridged above. Pmpd back into fm. Pmpd away 100 bbls mud. POH 5 stds & circ. Built vol & wshd to btm. No more lost circ. 1/2" @ 4535'. 55 RPM, 40M#. Mud: 9#, vis 45, WL 5.2, FC 1/32, Sd 1/4%, Ph 9.5, Yld 17, Gels 4/11, oil 8%, solids 5-1/2%. B#4, 7-7/8", Sec., S-84F, 2764-4535', 1771' in 56-1/2 hrs. B#5, 7-7/8", Sm., F-2, in @ 4535' & drlg, 143' in 12-1/2 hrs. \$ 100,330
5/24/78	5169	Drlg. 55 RPM, 40M#. Mud: 9.1#, vis 40, WL 4.8, FC 1/32, Sd 1/4%, Ph 9.5, Pv 14, Yld 4, Gels 1/3, oil 8%. B#5, 7-7/8", Sm., F-2, in @ 4535' & drlg, 634' in 36-1/4 hrs. \$ 110,295
5/25/78	5541	Drlg. 3/4" @ 5200'. 55 RPM, 40M#. Mud: 8.9#, vis 45, WL 4, FC 1/32, Sd-tr, Ph 9, Pv 24, Yld 4, Gels 2/3, oil 11%. B#5, 7-7/8", Sm., F-2, in @ 4535' & drlg 1006' in 59-3/4 hrs. \$ 118,020
5/26/78	5782	Drlg. 1/2" @ 5630', 1/2" @ 5735'. 55 RPM, 40M#. Mud: 8.9#, vis 45, WL 4.8, FC 1/32, Sd-tr, salt 400M ppm, Ph 9.5, Pv 22, Yld 10, Gels 1/3, oil 10%, solids 4-1/2%. B#5, 7-7/8", Sm., F-2, 4535-5755', 1220' in 71 hrs. B#6, 7-7/8" Sm., F-2, in @ 5755' & drlg, 27' in 2-1/2 hrs. \$ 123,605
5/27/78	6210	Drlg. Mancos. 55 RPM, 40M#. Mud: 9.0#, vis 46, WL 4.8, FC 1/32, Sd 1/2%, Ph 9.5, Pv 22, Yld 6, Gels 2/4, solids 5-1/4%, oil 10%. B#6, 7-7/8", Sm., F-2, in @ 5735' & drlg, 475' in 23-1/4 hrs. \$ 131,610
5/28/78	6637	Drlg, sd & sh. 55 RPM, 40M#. Mud: 8.8#, vis 45, WL 5.0, FC 1/32, Sd-tr, Ph 8.6, Pv 16, Yld 6, Gels 2/4, solids 3-3/4%, oil 10%. B#6, 7-7/8", Sm., F-2, in @ 5735' & drlg, 902' in 50 hrs. \$ 139,140
5/29/78	6970	Drlg. 55 RPM, 40M#. Mud: 8.9#, vis 46, WL 5.1, FC 1/32, Sd-1/2%, Ph 9.0, Pv 40, Yld 5, solids 1/4%, oil 10%, LCM 6%. \$ 148,410
5/30/78	7160	Drlg. 1-1/4" @ 7122'. 50 RPM, 35M#. Mud: 9#, vis 46, WL 5, FC 1/32, Sd 1/2%, Ph 9, Pv 11, Yld 5, Gels 1/5, solids 3-3/4%, oil 10%. B#6, 7-7/8", Sm., F-2, 5735-7122', 1387' in 80 hrs. B#7, 7-7/8", Sm., F-2, in @ 7122' & drlg, 35' in 2 hrs. \$ 153,555
5/31/78	7416	Drlg, Dakota. Rev drlg brk @ 7310'. Est Greenhorn measured out @ 7122', OK. 50 RPM, 40M#. Mud: 9#, vis 45, WL 4.9, FC 2/32, Sd 1/2%, Ph 9, Pv 12, Yld 6, Gels 1/5, solids 3.8%, oil 9%. B#7, 7-7/8", Sm., F-2, in @ 7122' & drlg, 294' in 25-3/4 hrs. \$ 158,875
6/01/78	7607	Drlg, Dakota. 3/4" @ 7600'. 50 RPM, 40M#. Mud: 9#, vis 46, WL 4.4, FC 1/32, Sd 1/2%, Ph 9.5, Pv 20, Yld 12, Gels 2/4, solids 3.8%, oil 10%. B#7, 7-7/8", Sm., F-2, 7122-7602', 480' in 38-3/4 hrs. B#8, 7-7/8", Sm., F-47, in @ 7602' & drlg, 5' in 3/4 hrs. \$ 163,535
6/02/78	7775	TD - Circ f/logs. Pld 15 stds, short trip, circ'd. 45 RPM, 40M#. Mud: 9.1#, vis 64, WL 4.4, FC 1/32, Sd 1/4%, Ph 9, Pv 28, Yld 12, Gels 5/7, solids 6%, oil 10%. B#8, 7-7/8", Sm., F-47, 7602-7775', 173' in 21 hrs. \$ 167,235
6/03/78	7779	TD Corrected. POH to log. Att to log, hit bridge @ 3987'. TI w/Bit, drld bridges & CO to TD. Cond hole. Mud: 9.2#, vis 125, WL 4.0, FC 2/32, Sd 1/2%, salt 7%, Ph 9, Pv 58, Yld 46, Gels 7/25, oil 11%. \$ 172,445
6/04/78	7779	TD - POH to log. Ran DIL & FDC-CNL GR logs, hole bridged @ 7015' while rmg FDC- CNL log. TI, drld bridges, circ & cond hole. Mud: 9.0#, vis 140, WL 4.2, FC 2/32, Sd 1/2%, salt 5%, Ph 9.0, oil 10%. \$ 177,195
6/05/78	7779	TD - Rng 5-1/2" csg @ 6800'. Ran FDC-CNL logs. TI, cond hole f/csg, LD DP & DCs. Mud: 9#, vis 120, WL 4.6, Ph 9, oil 10%. \$ 192,490
6/06/78	7779	TD - Rigging dn, Morrison Fm. PU & ran 184 jts 5-1/2" 17# 15.5#, K-55, 8rd ST&C R-3 new csg, cmted in two stages. Csg tally 13 jts 17# 1587.60', 148 jts 15.5# 6208.05' + 6' for DV tool & float equip. Total 7801.65'. Set @ 7779'. Pmpd 500 gals mud flush ahead & cmted 1st stage w/130 sx 50/50 Poz, 4% gel, .2% HR-4, 3/4% CFR-2; fol w/120 sx CI "B". PD 9:15 am 6/5. Gd circ thruout job. Circ 3 hrs between stages. Pmpd 500 gals mud flush ahead & cmted 2nd stage w/ 135 sx 50/50 Poz, 4% gel, 6-1/2# gilsonite/sx, 3/4% CFR-2, fol w/120 sx CI "B". PD 1:00 pm 6/5. Fld dropped in hole after fin pmpg cmt. FC @ 7734'. DV tool @ 3378', Cent @ 7770' & top of jts Nos. 2, 4, 6, 8, 10, 12, 14, 16, 102, 104, 106, 108. Rig rel 4:00 pm 6/5/78. \$ 250,000

6/01/78	1119	TD - MORT.	
6/08/78	7779	TD - Cleaning loc.	
6/09/78	7779	TD - Cleaning loc.	
6/10 - 6/26	7779	TD - MO completion.	\$250,000
6/27/78	7779	TD - Prep to MI & RU compl unit.	\$250,000
6/28/78	7779	TD - Prep to displ hole w/KCl wtr. MI & RU Aztec Well Serv. PU 2-3/8" EUE tbg. bit & csg scraper. Drl DV tool. Cont'd in hole. Tagged btm 7650' tbg talley.	\$250,000
6/29/78	7779	TD - Prep to run tbg & bit. Flwg well to pit after frac thru 3/4" ch, 50# back press on well. Kicking wtr & gas to pit. Perf Dak zone "B" 7492-7505' 2 holes per ft, 3/8" jumbo jet. Frac above perfs as follows: 1 1/2 KCl wtr, 2#/1000 gal friction reducer, 15#/1000 gal fld loss add, 40-60 mesh sd. Frac'd as follows: 8000 gal pad; 34,000 gal gelled wtr, 38,500# 40-60 sd; flushed w/7500 gals wtr. Brk dn press 2900#, avg press 2000#, max press 2900#, avg rate 40 BPM.	
6/29/78	cont'd.	hydraulic HP used 1961. ISIP 1500#, 5 min SIP 1100#, 10 min SIP 1050#, 15 min SIP 950#. Lubr in WL BP to 7440'. Perf'd Dak "A" zone 7378-7420' w/1 shot per ft. Zones did not comm. Frac'd as follows: 10,000 gals pad; 63,400 gal gelled wtr, 80,000# sd; 7300 gal flush. Brk dn press 2600#, avg press 2400#, max press 2750#, avg rate 44 BPM, hydraulic HP 2588, ISIP 1600#, 5 min SIP 1400#, 10 min SIP 1400#, 15 min SIP 1300#. Shut well in f/4 hrs.	\$250,000
6/30/78	7779	TD - Cont tstg to pit. Flwg to pit, gas & lots of wtr. Ran 4-3/4" bit on 2-3/8" tbg. Drl BP @ 7440'. CO to 7660'. POH w/tbg & bit. Well kicking a little. RIH w/243 jts 2-3/8" EUE tbg, opn ended w/API SN on btm, w/expend pop out plug. Tbg meas 7328.98', ended @ 7343'KB. Strtd swbg 1:30 am 6/30, KO, flwg @ 5:30 am. Some gas & much wtr.	\$250,000
7/01/78	7779	TD - FFT. Flwd to pit, SI 2 hrs. Conn prod equip. 2 hr SITP 1100#, SICP 750#. Last 12 hrs flwd 60 B0 & 60 BW w/gas @ rate of 195 MCFD thru 12/64" ch f/Dak. perfs 7492-7505'. FCP 1200#, FTP 600#. Rel plg unit 6:00 a.m. 7/1/78.	
7/02/78	7779	TD - FFT. Flwd @ rate of 174 B0, 134 BW & 371 MCFD thru 18/64" ch f/Dak perfs 7492-7505'. FTP 820#, FCP 1290#, sec press high 550#, low 50#.	
7/03/78	7779	TD - COMPLETED OIL WELL 7/3/78. Flwd 161 bbls 45° API Corr Gravity @ 60°F oil & 30 BWPD & 280 MCFD thru 18/64" ch in 24 hrs. Dakota perfs 7492-7505', Lowest prod poss 7505'. FTP 1025#, FCP 1570#. & * A * 7378-7420.	

The above is correct