

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

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 Twr. Bldg., 1860 Lincoln St., Denver, Colorado 80295		8. FARM OR LEASE NAME Chacon Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface Unit G (S4 NE) 1825' FNL & 1850' FEL At top prod. interval reported below Approx. Same At total depth Approx. Same		9. WELL NO. 8	
14. PERMIT NO. 30-039-21846		10. FIELD AND POOL, OR WILDCAT Chacon-Dakota	
DATE ISSUED 8-24-78		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA 19-24N-3W	
12. COUNTY OR PARISH Rio Arriba		13. STATE New Mexico	
15. DATE SPUDDED 9-29-78	16. DATE T.D. REACHED 10-14-78	17. DATE COMPL. (Ready to prod.) 10-31-78	18. ELEVATIONS (DF, RER, RT, GR, ETC.)* 6907' GL, 6921' KB
19. ELEV. CASINGHEAD --		20. TOTAL DEPTH, MD & TVD 7570'	
21. PLUG, BACK T.D., MD & TVD 7520'		22. IF MULTIPLE COMPL., HOW MANY* --	
23. INTERVALS DRILLED BY --		24. ROTARY TOOLS 0-7570'	
25. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7188-7240' OA Dakota A Zone 7308-7328' OA Dakota B Zone		26. WAS DIRECTIONAL SURVEY MADE No	
27. TYPE ELECTRIC AND OTHER LOGS RUN DIL, FDC/CNL-GR & CBL-GR		28. WAS WELL CORED No	

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"OD	24	336' KB	12-1/4"	300 SX	None
5-1/2"OD	15.5 & 17	7570' KB	7-7/8"	600 SX	None
29. LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
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30. TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2-3/3"	7143' KB	None			
31. PERFORATION RECORD (Interval, size and number) 7188-7194', 7203-7224' & 7231-7240' w/ 1 Jet Shot/ft. 7308-7315' & 7323-7328' w/2 Jet shots/ft					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED				
7188-7240' OA	72,000 gals. trtd. wtr & 80,000# sand				
7308-7328' OA	32,000 gals. trtd. wtr & 38,500# sand				

PRODUCTION							
33. DATE FIRST PRODUCTION 10-27-78		34. PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				35. WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 10-30/31-78	HOURS TESTED 24	CHOKE SIZE Adj.	PROD'N. FOR TEST PERIOD --	OIL—RBL. 128	GAS—MCF. 537	WATER—RBL. 40	GAS-OIL RATIO 4195:1
FLOW, TUBING PRESS. 400#	CASING PRESSURE 925#	CALCULATED 24-HOUR RATE --	OIL—RBL. 128	GAS—MCF. 537	WATER—RBL. 40	OIL GRAVITY-API (CORR.) 43.	
36. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold						37. TEST WITNESSED BY J. E. Taylor	

38. LIST OF ATTACHMENTS 2 ea. #26 above and daily well history	
39. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED W. A. Walther, Jr.	DATE 11-7-78
TITLES Operations Manager	

*(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, and/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.), formations, and/or State office. See instructions on items 22 and 24, and 26, below regarding separate reports for separate complete formations.

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(s). If the well is completed for multiple completions, submit a separate report (page) on this form, adequately identified, showing the additional data pertinent to such interval.

Item 29: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL FULL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
No cores or DSTs				Pictured Cliffs	2973'	
				Mesaverde	4598'	
				Callup	6212'	
				Greenhorn	7110'	
				Craneros	7171'	
				Dakota A	7184'	
				Dakota B	7304'	
				Dakota C	7388'	
				Burro Canyon	7467'	
			Morrison	7556'		

10/28/78	7520	PB - Flwg thru prod equip to clean up after frac. Contd flw to pit & strtd flw thru prod unit @ 3 pm 10/27/78. Aztec rig reld 11 am 10/27/78.
10/29/78	7520	PB - Flwg to tks to clean up. Flwd 15 hrs produced 125 BO, 520 MCFG, 87 BW in 15 hrs.
10/30/78	7520	PB - Flwg to tks to clean up. Flwd 208 BO & 413 MCFD in 24 hrs.
10/31/78	7520	PB - Flwg to tks f/clean up.
11-01-78	7520'	PB - <u>COMPLETED OIL WELL</u> , Dakota Fm, 10-31-78. 24 hr tst 10-30-78, flwd 128 BO, 43° API gnty @ 60° F, 40 BW, 537 MCFDG f/Dakota "A" perfs 7186-7240' OA and Dakota "B" perfs 7308-7328' OA FTP 400#, FCP 925#, adjustable ch. GOR 4195:1. LPP 7328'.

9/30/78	338	WO Howco. SPUD 8:p.m. 9/29/78. 1/4° @ 227'. 80 RPM, 25M#. Mud: 8.8#, vis 40, B#1, 12-1/4", HTC, OSC1G, made 338' in 5-3/4 hrs.
10/1/78	600	Drig sd & sh. Ran 8 jts 8-5/8" OD 24# K-55 ST&C (320.35') landed @ 336'RKB, w/GS, 3 Cent. Cmt'd w/300 sx CI "B" + 2% CaCl2 + 1/4# Flocele/sx. Gd ret. Circ cmt. PD 10a.m. 9/30/78. 1/4° @ 338'. 60 RPM, 35M#. Mud: 8.7#, vis 48. (B#2).
10/2/78	1900	Drig sd & sh. 2° @ 909', 1216' & 1490', 1° @ 1780'. 65 RPM, 30M#. Mud: 8.7#, vis 42, WL 8.2, FC 2/32, Sd 1%, Ph 8.6, Pv 13, Yld 8, Gels 5/15, oil 6%, solids 2-1/2%. B#2, 7-7/8", HTC, X3A, made 1442' in 20-3/4 hrs. (B#3).
10/3/78	2900	Drig sd & sh. 3/4° @ 2512', 1/2° @ 2757'. 60 RPM, 35M#. Mud: 9#, vis 44, WL 5, FC 1/32, Sd 3/4%, Ph 8.4, Pv 17, Yld 11, Gels 2/6, oil 6%, solids 4%. B#3, 7-7/8", HTC, OSC-3J, made 977' in 17-1/4 hrs. (B#4).
10/4/78	3625	Drig sd & sh. Lost 60 BM @ 3365'. 1/2° @ 3282'. 60 RPM, 45M#. Mud: 9#, vis 44, WL 4, FC 1/32, Sd 1/2%, Ph 8, oil 7%, solids 4%. (B#4).
10/5/78	4175	Drig sd & sh. 60 RPM, 40M#. Mud: 9#, vis 43, WL 6.8, FC 1/32, Sd 1%, Ph 8.4, Pv 13, Yld 5, Gels 1/2, solids 3.5%, oil 8%. (B#4).
10/6/78	4675	Drig sd & sh. 60 RPM, 45M#. Mud: 8.9#, vis 44, WL 6.8, FC 1/32, Sd-tr, Ph 8.6, Pv 13, Yld 9, Gels 1/3, oil 6%, solids 4%. (B#4).
10/7/78	5230	Drig sd & sh. 1/2° @ 4770'. 60 RPM, 45M#. Mud: 8.9#, vis 42, WL 4.6, FC 1/32, Ph 8.5, Pv 17, Yld 9, Gels 1/5, solids 5%, oil 6.5%. (B#4).
10/8/78	5620	Drig. 1/2° @ 5324'. 58 RPM, 45M#. Mud: 8.9#, vis 43, WL 4.8, FC 1/32, Sd-tr, Ph 8.5, Pv 18, Yld 14, Gels 2/12, solids 5.5%, oil 4-1/2%. B#4, 7-7/8", HTC, J-22, made 2567' in 101-1/4 hrs. (B#5).
10/9/78	6155	Drig. 58 RPM, 45M#. Mud: 9.0#, vis 44, WL 5.2, FC 1/32, Sd-tr, Ph 8, Pv 12, Yld 8, Gels 1/2, solids 5%, oil 7%. (B#5).
10/10/78	6590	Drig sd & sh. Lost 150 BM @ 6280'. 58 RPM, 45M#. Mud: 8.9#, vis 44, WL 6, FC 1/32, Sd-tr, Ph 8, Pv 15, Yld 10, Gels 0/1, oil 5%, solids 4%. (B#5).
10/11/78	7060	Drig. 58 RPM, 45M#. Mud: 9.0#, vis 44, WL 4.4, FC 2/32, Sd 1/4%, Ph 8.5, Pv 13, Yld 7, Gels 0/1, oil 5%, solids 4%. (B#5).
10/12/78	7278	Drig. 1/2° @ 7202'. 50 RPM, 45M#. Mud: 9.0#, vis 49, WL 4.2, FC 1/32, Ph 8.5, oil 8%. B#5, 7-7/8", Sm., F-2, made 1878' in 92-3/4 hrs. (B#6).
10/13/78	7465	Drig. 50 RPM, 40M#. Mud: 9#, vis 48, WL 4.8, FC 1/32, Sd 1/2%, Ph 8, Pv 20, Yld 10, Gels 2/3, oil 7%, solids 4%. (B#6).
10/14/78	7560	GIH to LD DP. Sch. ran DIL, FDC w/GR, CNL @ WLTD 7562'. 48 RPM, 45M#. Mud: 9.0#, vis 110, WL 5.6, FC 2/32, Sd-tr, Ph 8.5, Pv 45, Yld 35, Gels 6/10, oil 5%, solids 4%. B#6, 7-7/8", Sm., F-5, made 358' in 40-3/4 hrs.
10/15/78	7570	TD - Prep to rig dn. Ran 182 jts 5-1/2" OD 17# & 15.50# K-55 ST&C 8R R-3 new csg (7592.55') set @ 7570'RKB. Cmt'd 1st stage w/200 sx 50/50 Poz w/4% gel & 6-1/2# Gilsonite/sx, .2% HR4, 3/4# CFR-2, foll by 150 sx CI "B". PD 10:15 pm 10/14/78. Opnd DV & circ 3 hrs. Cmt'd 2nd stage w/130 sx 50/50 Poz + 4% gel + 6-1/2# Gilsonite/sx, 3/4# CFR-2, foll by 120 sx CI "B". PD 1:45 am 10/15/78. Gd circ on both cmt jobs. Preceeded ea stage w/500 gal mud flush. FC @ 7526', DV @ 3207', Cent @ 7555' & top of jts 3, 5, 7, 9, 11, 13, 103, 105, 108, basket: on it 103. Hung csg & ND BOP. Rig rel 6 a.m. 10/15/78. Mud: 8.9#, vis 75.
10/16/78	7570	TD - Cleaning loc.
10/17-18/78	7570	TD - Cleaning loc. Setting tie-dn anchors
10/19/78	7570	TD - Cleaning loc.
10/20/78	7570	TD - Cleaning loc.
10/21/78	7570	TD - WO completion rig.
10/22/78	7570	TD - WO completion rig.
10/23/78	7570	TD - Prep to MI Aztec Well Serv compl rig.
10/24/78	7570	TD - PU tbq & CO to btm. RU Aztec Well Serv., unload & tally 2-3/8" EUE tbq. PU 4-3/4" bit, 5-1/2" csg scraper, 2-3/8" EUE tbq. Drld DV tool @ 3207'.
10/25/78	7570	TD - Prep to spt acid, perf & frac Dakota "A" zone. CO to 7520' PBTD. Displ'd csg w/1% KCl wtr. POH. Ran McCull CBL-GR collar correl log w/var dens 7520-6800' & 3210-2850', very gd bond log. Tstd csg to 4000#, OK. Sp'd 250 gals 15% MCA @ 7330'. Perf'd 2 JSPF 7308-7315', 7323-7328' Dakota "B" zone. Frac'd Dak "B" zone w/8000 gal pad containing 1% KCl wtr w/2#/1000 gals FR-20, 15#/1000 gals Adomite Aqua. Treated w/32,000 gals treated wtr, 38,500# 40/60 sd. Flushed w/7300 gals treated wtr. Fm brk dn @ 2200#, Max treating press 3400#, Avg treating press 3250#, AIR 44 BPM (3666 Hyd hp). ISIP 1600#, 5 min SIP 1500#, 10 min SIP 1400#, 15 min SIP 1350#. Lubricated HOWCO BP in hole set @ 7265'. Presently press tstg Hallib BP @ 7265'.
10/26/78	7570	TD - Prep to kill well w/KCl wtr. Tstd BP @ 7265' w/4000#, OK. Perf'd 1 shot/ft 7188-94', 7203-24', 7331-40' Dakota "A" zone. Frac w/18,000 gal pad, 1% KCl wtr w/2#/1000 gals FR-20, 15#/1000 gals Adomite Aqua, 72,000 gals treated wtr, 80,000# 20/40 sd. Flushed w/7000 gals treated wtr. Fm brk dn @ 3100#. Avg treating press 3500#, max treating press 3700#, AIR 48 BPM (4118 Hyd hp). ISIP 2000#, 5 min SIP 1800#, 10 min SIP 1700#, 15 min SIP 1600#, 3-1/2 hrs SIP 1175#. Strtd bleeding bk to pit after 12 hrs, well head press 300#. Well kicking some gas w/wtr. WO pmp truck to kill well.
10/27/78	7570	TD - Prep to flw f/cleanup. Flwg well to pit. Much wtr, some gas. HOWCO killed well w/1% KCl wtr. WIH w/bit & jk basket. Drld BP @ 7265'. CO to 7520' PBTD. POH w/tbg, jk basket & bit. Well kicking again. PI 150 BW. Ran in hole w/226 jts 2-3/8" EUE 4.7# K-55 8rd Rge 2 (7128.87') w/SN & pmp out plug on btm. Tbg landed @ 7142.97'KB. NU X-mas tree. Made 4 runs w/swb. Well KO flwg to pit 6 am.