

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions 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 _____										
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other _____								
2. NAME OF OPERATOR						ARCO Oil & Gas Company Division of Atlantic Richfield Company									
3. ADDRESS OF OPERATOR						Suite 501 Lincoln Tower 1860 Lincoln Street, Denver, Colorado 80295									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*															
At surface						1840' FSL & 1840' FWL (NE SW) Unit K									
At top prod. interval reported below						Approx. the same									
At total depth						API #30-209-22014									
14. PERMIT NO.				DATE ISSUED											
Mr. Barrick				5-11-79											
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*		19. ELEV. CASINGHEAD							
8-9-79		8-26-79		9-11-79		7272' GL 7283' KB		---							
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*							
7676' TD		7623' PBDT		1		→		Dakota "A" 7276'-7290', 7298'-7310'; Dakota "B" 7382'-7390'							
								25. WAS DIRECTIONAL SURVEY MADE							
								NO							
								26. TYPE ELECTRIC AND OTHER LOGS RUN							
								DIL, CNL-FDC w/ GR, CBL w/GR correl, VDL							
								27. WAS WELL CORED							
								NO							
28. 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"		24#		306'		12-1/4"		300 sks		NONE					
5-1/2"		15.5# & 17#		7675'		7-7/8"		850 sks (2 stage)		NONE					
29. LINER RECORD										30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE		DEPTH SET (MD)		PACKER SET (MD)	
NONE										2-3/8"		7330'		NONE	
31. PERFORATION RECORD (Interval, size and number)										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
Dakota "A" 7276'-7290' 1 hole/ft										DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
Dakota "A" 7298'-7310' 1 hole/ft										7276-7310'		500 gals 15% HCL			
Dakota "B" 7382'-7390' 4 hole/ft										7276-7310'		67.1M gals KCL & 60M# Sand			
										7382-7390'		250 gals 15% HCL			
										7382-7390'		38.2M gals KCL & 29.85M# Sand			
33.* PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)								WELL STATUS (Producing or shut-in)					
9-10-79		Flowing								Producing					
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.		WATER—BBL.		GAS-OIL RATIO	
9-11-79		24 hrs.		Adj.		→		25				27		28400:1	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.				OIL GRAVITY-API (CORR.)	
225#		500#		→		25		710		27				53.5° @ 60°F	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										35. LIST OF ATTACHMENTS					
To be sold										2 of #26 above and daily well histories					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records															
SIGNED		TITLE								DATE					
W. A. Wallick		Operations Manager								OCT 12 1979					

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

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 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 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: "Sacks 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 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
NOR CORES AND NO DRILL STEM TESTS				Mesaverde	4651'	
				Upper Mancos	5411'	
				Gallup	6256'	
				Greenhorn	7188'	
				Graneros	7256'	
				Dakota A	7266'	
				Dakota B	7380'	
				Dakota Silt	7437'	
				Dakota C	7471'	
				Burro Canyon	7542'	
				Morrison	7659'	

(329'), landed @ 306' KB. (XB-GL 14'). 120 RPM, 0-15M#. Mud: 8.8#, vis 45. B#1, 12-1/4", HTC, OSCIG, made 319' in 5-1/2 hrs. Prop Code 69-4419-1. Contr. -Bayless Drilg Co. (#1). Elev: 7272' GL (ungraded) \$12,402.
 11 1168 Tripping sd & sh. 1/4" @ 660'. 150 RPM, 25M#. Mud: 8.8#, vis 34. B#2, 7-7/8", Sm., SD-T, made 849' in 10-1/2 hrs.
 12 2170 Drilg sd & sh. 3/4" @ 1170', 1/2" @ 1625'. 60 RPM, 25M#. Mud: 9.0#, vis 39, WL 8, FC 2/32, Sd-tr, salt 450, Ph 9, Pv 7, Yld 9, Gels 2/10, solids 6%, Ca 60, Oil 3%. B#3, 7-7/8", Sm., DT, made 482' in 7-3/4 hrs. (B#4).
 13 3123 Drilg sd & sh. 1-1/4" @ 2184', 3/4" @ 2805'. 60 RPM, 25M#. Mud: 9.2#, vis 32, WL 7.8, FC 1.5/32, Sd-tr, salt 400, Ph 8.5, Pv 6, Yld 8, Gels 2/5, solids 7%, Ca 80, oil 4%. B#4, 7-7/8", Sm., SDGH, made 1150' in 17-3/4 hrs. (B#5).
 14 3650 Trip f/bit, sd & sh. 3/4" @ 3650'. 60 RPM, 30M#. Mud: 9.2#, vis 42, WL 4.4, FC 2/32, Sd-tr, salt 550, Ph 9.0, Pv 12, Yld 26, Gels 6/10, solids 7%, Ca 60, oil 5%. B#5, 7-7/8", Sm., SDT, made 845' in 22-1/4 hrs. (B#6).
 15 4268 Drilg sd & sh. 3/4" @ 4150'. 50 RPM, 40M#. Mud: 9.2#, vis 40, WL 4.6, FC 1/32, Sd-tr, salt 500, Ph 8.5, Pv 10, Yld 19, Gels 3/7, solids 7%, Ca 80, oil 5%. (B#6).
 16 4725 Drilg sd & sh. 50 RPM, 40M#. Mud: 9.2#, vis 42, WL 5, FC 1/32, Sd 1/4", salt 500, Ph 8.5, Pv 16, Yld 15, Gels 4/8, solids 5%, Ca 80, oil 6%. (B#6).
 17 5365 Drilg sd & sh. 1" @ 5242'. 50 RPM, 40M#. Mud: 9.2#, vis 41, WL 5.6, FC 1/32, Sd 1/4", salt 500, Ph 8.5, Pv 14, Yld 10, Gels 4/7, solids 5%, oil 7%, Ca 40. (B#6).
 18 5510 Drilg sd & sh. 1" @ 5394'. 50 RPM, 40M#. Mud: 9.2#, vis 37, WL 6, FC 2/32, Sd 1/2", salt 500, Ph 8, Pv 10, Yld 9, Gels 4/6, solids 5%, Ca 80, oil 5%. B#6, 7-7/8", Sm., F-2, made 1744' in 75-3/4 hrs. (B#7).
 19 5830 Drilg sd & sh. 50 RPM, 40M#. Mud: 9.2#, vis 35, WL 6.8, FC 1/32, Sd-tr, salt 450, Ph 8, Pv 8, Yld 9, Gels 3/9, solids 7%, oil 6%. (B#7).
 20 6275 Drilg sd & sh. 1" @ 5917'. 50 RPM, 40M#. Mud: 9.2#, vis 61, WL 9.3, FC 2/32, Sd-tr, salt 400, Ph 8, Pv 12, Yld 46, Gels 6/16, solids 7%, Ca 60, oil 4.5%. (B#7).
 21 6727 Drilg, Gallup fmt. Lost 100-120 BM, seeping. 1" @ 6417'. 50 RPM, 40 M#. Mud: 9.0#, vis 39, WL 6.8, FC 1.2/32, Sd-tr, salt 400, Ph 8.5, Pv 10, Yld 10, Gels 3/11, solids 5.5%, Ca 60, LCM 8%, oil 6%. (B#7).
 22 7260 Drilg, top of Dakota. 50 RPM, 45M#. Mud: 9.0#, vis 39, WL 7.8, FC 2/32, Sd-tr, salt 600, Ph 8.0, Pv 12, Yld 17, Gels 3/10, solids 5.5%, Ca 60, LCM 8%, oil 7%. (B#7).
 23 7360 Drilg Dakota. 1-1/4" @ 7270'. 50 RPM, 35M#. Mud: 9.0#, vis 55, WL 6, FC 2/32, Sd-tr, salt 450, Ph 8.5, Pv 20, Yld 30, Gels 6/12, solids 6%, Ca 60, LCM 8%, oil 7%. B#7, 7-7/8", Sm., F-2, made 1876' in 99 hrs. (B#8).
 24 7529 Drilg, Morrison. 50 RPM, 40M#, Mud: 9#, vis 100, WL 5.7, FC 2/32, Sd-tr, salt 400, Ph 8.5, Pv 18, Yld 22, Gels 5/10, solids 5.5%, Ca 60, LCM 8%, oil 6%. (B#8).
 25 7645 Circ & cond log, Morrison fm. Circ & made short trip, no fill or bridge. Circ & POH to log. Log stopped @ 6512'. WIH w/bit, bridge 6512-6560'.
 No more bridges or btm fill. 1" @ 7645'. 50 RPM, 45M#. Mud: 8.9#, Vis 134, WL 5, FC 2/32, Sd 1", Salt 500, Ph 8, Pv 50, Yld 35, Gels 6/22, Solids 3/5%, Ca 80, LCM 8%, Oil 8%. B#8, 7-7/8", Sm, F-5, made 275' in 32 hrs. \$156,403
 26 7676 LD DP. Cond hole f/logs. Meas out OH - 30' correctn f/TD. Ran DIL f/7676-306', CNL-FDC w/GR TD to 6150', 5510-4550', 4250-3800' & 3300-3000'. Mud: 8.9#, Vis 60.
 27 7676 TD - Prep to MORT. Ran 193 jts 5-1/2" csg, 34 jts 17# K-55 Rg 3 ST&C (1429.50') 159 jts 15.5# K-55 R3 ST&C (6248.37'), auto fill up shoe with float (2.10'), DV tool (3.10') = total 7683.07'; landed @ 7675' KB (KB to GL 14'). Cmt first stage w/10 BW, 500 gals mud flush, 350 sx 50/50 Poz, 2% gel, 6.5# Gilsonite/sx, 3/4" CFR-2, tailed w/150 sx CI "B". Pmpd plug w/1500#, circd w/1000#. 2nd stage: 250 sx 50/50 Poz, 2% gel, 6.5# Gilsonite/sx, tailed w/100 sx CI "B". Closed DV t/s w/1800#. DV tl on top of jt 96 (4017' KB). Cntrlzrs @ jts #1 evy other jt thru #31. Cmt bskt on jts #94 & 95. Cntrlzrs on #95, 97, 99, 101. 30 scrtchers @ 30' spcg (jt #1) f/TD to 6700'. RR 9:00 pm 8/26/79.
 28 7676 TD - Prep to clean loc. Fin MORT.
 29 7676 TD - WO completion.
 30 7676 "
 31 7676 "
 9/1-3/79 7676 "
 4 7676 TD - MI & RU Big "A" Well Servc.
 5 7591 PB - Prep to run bond log. MI & RU Big "A". WO tbq, unload & tally 248 jts 2-3/8" EUE tbq (7776'). NU Xtrees & BOP. PU 4-3/4" big, csg scrpr, & 127 jts tbq. Tagged cmt @ 3992'. Drld cmt & DV tl to 4017'. Fin TIH to PBTD 7591'. Circ to POH.
 6 7623 PB - Prep to set 2nd BP. Circ hole. TOH w/tbg. Ran CBL w/GR Correl & VDL f/PBTD to 6150' & 4250-3000'. Press tst csg to 4000#; held OK. TIH to PBTD. Circ w/1% KCl wtr. Spd 250 gals 15% HCl. TOH. Perfd 7382-7390', 4 holes/ft. Correl to Sch CNL-FDC. Frac Dak "B" Intrvl w/Dowell 38,200 gals 1% KCl wtr contng 2# fric redcr/1000 gals, 15# fld loss add/1000 gals, & 29,850# 20/40 sd as foll: 6200 gals pad, 45 BPM, 2000#; 5400 gals, 1/2" sd/gal, 46 BPM, 2100#; 6200 gals, 1# sd/gal, 46 BPM, 2000#; 10900 gals, 1-1/2" sd/gal, 45 BPM, 1900#; 23000 gals, 2# sd/gal, AIR 44 BPM, avg press 1900#. ISIP 1100#, 5 min 900#, 10 min 850#. Ran Bkr Merc Ser BP, set @ 7350'. Tstd BP to 4000#; held ok f/5 min. Ran tbq opn ended to 7329'. Spd 500 gals 15% HCl, TOH, RIH w/perf gun, could not get any deeper than 7294'. TIH w/bit. Hit BP @ 3385', chased dn hole to 7294'. TIH w/bit. hit BP @ 3285'.

9-07-79

7623

PB - Prep to cont to flw f/cleanup. Ran Bkr BP #2, set @ 7370'. Press csg to 4000#, held OK f/5 min. TIH w/tbg to 7330' opn ended. Sptd 500 gals 15% HCI. POH. Perf'd Dakota "A" 7276-7290' (14') 1 hole per ft, 14 holes. Perf'd 7298-7310' (12'), 1 hole/ft, 12 holes. Correl to Sch CNL-FDC opn hole log. Frac'd Dakota "A" 7276-7310' w/67,100 gals 1% KCI wtr, 60,000# 20/40 sd. Frac wtr contained 3@ fric reducer/1000 gals & 15# fld loss add/1000 gals as foll: 13,500 gals pad, 43 BPM, 2300#; 7,500 gals, 1/2# sd/gal, 48 BPM, 2400#; 9,000 gals, 1# sd/gal, 48 BPM, 2250#; 25,500 gals, 1-1/2# sd/gal, 50 BPM, 2200#; 4,500 gals, 2# sd/gal, 50 BPM, 2200#; 7100 gals flush, 50 BPM, 2200#. Total frac 45,500 gals wtr & 60,000# sd. AIR 49 BPM, avg trtg press 2250#. ISIP 1250#, 5 min SI 1100#, 10 min SI 1050#. Flw well to pit, 20/64" choke. CP 700#, decr'd to 100# in 3 hrs. Flwg on 3/4" choke. CP incr'd f/100-600#. Strtd getting back some sd w/ wtr. Flwg well on 20/64" choke. CP decr'd f/600-475#. Flwg to frac tk on 20/64" choke. CP steady @ 400#. Rdc'd 33-1/3 BFF, 5% oil, 95% wtr, sml tr sd.

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PB - Flwg to pit. Flwd to tk 3-1/2 hrs, 20/64" chk, CP 375#, rec'd 26.6 BF, 10% oil, 90% wtr, no sd last 2 hrs flwg. Kill well w/1% KCI & drld BP @ 7370'. CO 7370-7623'. Circ clean & POH. TI w/230 jts 2-3/8" EUE 4.7# K-55 8rd EUE (7205') btm @ 7220'RKB. SN @ 7189'. ND BOP. NU Xmas tree. Run swb. Well KO. Csg on vac, 4 hrs flw to pit 3/4" chk, full 2" stream wtr. CP now 30#.

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7623

PB - Flwg well thru sep equip f/clean up & tst. Flwd to frac tk 10 hrs, 10% oil & 90% wtr, rec'd est 80 BF. Turned to prod equip 4 p.m. 9/8/79. CP 900#, TP 850# on 16/64" chk - est 700 MCF. Rel SU 4 p.m. 9/8/79. \$302,347

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7623

PB - Flwg into prod unit. In 16 hrs flwd 20 BO & 180 BW, CP 550#, TP 275#, 16/64" chk. Est gas 700 MCFPD.

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7623

PB - Cont to flw to prod unit. Flwd 18 BO, 150 BW & 770 MCF in 24 hrs (oil gvty 53.5° @ 60°F).

9/12/79

7623

PB - COMPLETED OIL WELL, 9/11/79, Dakota fm. 24 hr tst flwd 25 BO & 27 BFW, 710 MCF. TP 225#, CP 500#, adj chk. Oil gvty 53.5° API @ 60°F. GOR 28400/1. Dakota "A" perfs 7276-7290' & 7298-7310', Dakota "B" perfs 7382-7390'.