

**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.									
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESRV. ☐	Other ☐								
2. NAME OF OPERATOR						7. UNIT AGREEMENT NAME									
Atlantic Richfield Company						30-045-23214									
3. ADDRESS OF OPERATOR						8. FARM OR LEASE NAME									
Suite 501, 1860 Lincoln Street, Denver, Colorado 80295						Blanco									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						9. WELL NO.									
At surface 1650' FNL & 1650' FEL Section 5 (SW NE) (Unit C)						1									
At top prod. interval reported below						10. FIELD AND POOL, OR WILDCAT									
Approx. Same						Blanco Mesaverde									
At total depth						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA									
Approx. Same						5-31N-8W									
14. PERMIT NO.				DATE ISSUED		12. COUNTY OR PARISH									
30-045-23214				9-28-78		San Juan									
15. DATE SPUDDED				16. DATE T.D. REACHED		13. STATE									
10-28-78		11-9-78		12-14-78		New Mexico									
20. TOTAL DEPTH, MD & TVD		21. PLUG BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		18. ELEVATIONS (DP, RKB, RT, GE, ETC.)*									
6050'		5925'		one		6579' GR.									
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						19. ELEV. CASINGHEAD									
5728-5872' Mesaverde						---									
25. WAS DIRECTIONAL SURVEY MADE						No									
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED									
CDL/LPN/GR, JEL/IL/GR & CBL						No									
28. CASING RECORD (Report all strings set in well)															
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED										
9-5/8" OD	32.3#	274' KB	14-3/4"	325 SX.	None										
7" OD	20#	3835' KB	8-3/4"	275 SX.	None										
29. LINER RECORD				30. TUBING RECORD											
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)								
4-1/2" OD	3678' KB	6050' KB	275 SX.	- -	2-3/8"	5719' KB	- - -								
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
5728', 5732', 5735', 5742', 5746', 5749', 5762', 5766', 5771', 5776', 5800', 5816', 5821', 5831', 5836', 5842', 5845', 5860', 5867', 5872' KB, 20 shots w/3 1/2" golden jet select fire perforator.				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>DEPTH INTERVAL (MD)</th> <th>AMOUNT AND KIND OF MATERIAL USED</th> </tr> </thead> <tbody> <tr> <td>5728-5872'</td> <td>1500 gals. 15% HCL</td> </tr> <tr> <td>5728-5872'</td> <td>129,000 gals. slk. wtr. and</td> </tr> <tr> <td> </td> <td>165,000# 20/40 sand.</td> </tr> </tbody> </table>				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	5728-5872'	1500 gals. 15% HCL	5728-5872'	129,000 gals. slk. wtr. and		165,000# 20/40 sand.
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	165,000# 20/40 sand.														
33. PRODUCTION															
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut in)													
Shut In	Flowing	Shut In													
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO								
12-14-78	3	48/64"	→	-0-	3686 MCFD	TSTM	-0-								
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)									
1123# SI	1107# SI	→	-0-	3686	TSTM	-0-									
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							TEST WITNESSED BY J. Taylor								
To be Sold															
35. LIST OF ATTACHMENTS							DEC 26 1978								
2 ea. # 26 and Daily Well History															
36. I hereby certify that the foregoing and attached information is true and correct as determined from reliable records							DEC 27 1978 OIL CON. COM. DIST. 3								
SIGNED <u>W.A. Walther Jr.</u> Operations Manager															
DATE December 19, 1978															

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

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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 25, 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 33.

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 16: 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 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 PRESSURE, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Geologic Markers		
				Cliff House	5064'	
				Menefee	5462'	
				Pf. Lookout	5710'	
				Upper Mancos	5951'	

11/29/78 5925 PB - Prep to frac. Perf'd w/D-A w/ 3-1/2" golden jet select fire perforator, Mesaverde fm as foll: 5728', 32', 35', 42', 46', 49', 62', 66', 71', 76', 5800', 16', 21', 31', 36', 42', 45', 60', 67' & 72' (20 shots total). CBL-GR corrol log meas. Ran Bkr retriev pkr on 2" tbg to 5875'. Spt 2 bbls 15% HCl over perfs. Pld up, set pkr @ 5563'. Acidized dn tbg w/1500 gals 15% HCl & 40 ball sealers. Max press 3000#, avg press 2000#, final press 1900#, avg pmp rate 7 BPM. Gd ball action. Rel pkr, lowered tbg thru perfs to knock off balls. POH w/tbg. RU Dowell to frac. SDON.

11/30/78 5925 PB - Prep to CO w/nitrogen & foam. Thawed out valves on frac tk. Tstd frac lines. Frac'd Mesaverde perfs 5728-5872' dn 7" & 4-1/2" csg w/2% KCl wtr cont 2#/1000 gals frict reducer, 30#/1000 gals fld loss add & 20/40 mesh sd: 36,000 gals pad; 33,000 gals wtr, 1/2#/gal, 16,500# sd; 29,000 gal wtr, 1#/gal, 29,000#; 29,000 gals wtr, 1-1/2#/gal, 43,500# sd; 38,000 gals wtr, 2#/gal, 76,000# sd; 7,500 gals flush. Total 129,000 gals wtr & 165,000# sd. AIR 48 BPM, max press 1000#, avg press 950#, ISIP 250#, 15 min SIP 0#. RD frac equip. Ran 97 jts 2-3/8" EUE tbg.

12/01/78 5925 PB - Prep to swab. Ran 2-3/8" tbg. to top of sand @ 5817'. RU Allied Svcs. & NOWSCO. C. O. 108' of sand to PSTD 5925'. L. D. 7 jts. tbg, landed tbg. & OCT-T-16 tbg. hngr. Removed BOP. Ran tbg. as foll:
1 jt. 2-3/8" 4.7# J55 8R EUE New - 30.97'
1 Bkr. Type F 2-3/8" Box & Pin SN (1.81" ID) .70'
182 jts. 2-3/8" 4.7# J55 8R EUE New 5675.10'
Total 5706.77'
RKB to tbg. hngr. 12'. Btm. of tbg. 5718.77' KB. Instld. OCT B-1, flngd. tbg head w/screwed 2" master & wing valve. Hooked Nitro into csg. Press to 1000#. Did not get well flwg. Form. taking Nitro.

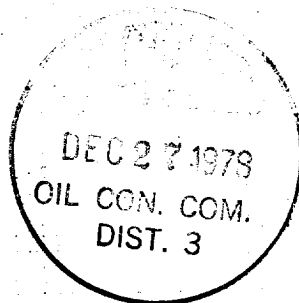
12/02/78 5925 PB - Flwg. to pit f/clean up. At 7:30 A.M. 12-1-78 CP 1100#, TP 100#. Opened to atmosphere & kicked off flwg. to pit unloading wtr. & gas. Rel. Pulling Unit @ 11:45 A.M. 12-1-78. After 8 hrs. flwg. rate of 1612 MCFD. Left flows. to pit thru 3/4" choke.

12/03/78 5925 PB - Well SI waiting on AOF test. In AM 12/2/78 PCP 450#, FTP 120#. 3/4" choke. Gas meas. 1690 MCFD. SI @ 8:15 A. M. 12/2/78.

12/04 thru 12/13/78 5925 PB - SI waiting of AOF test.

12/14/78 5925 PB - Well SI-Waiting on gas line connection.

COMPLETED GAS WELL 12-14-78 Mesaverde Form. Flw'd. 3686 MCFD thru 48/64" choke (critical flow prover method) from Mesaverde Perfs. 5728-5872 OA. SITP 1123#, SICP 1107# (after 12 days Shut In) Lowest Prod. Poss. 5872'.



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10/29/78	225	Drlg surface. Spud 14-3/4" surf hole 10:45 pm 10/28/78. Drlg 40'/hr. 80 RPM, all wt. (B#1). Elev. 6579' GL (ungraded).
10/30/78	330	Drlg sd & sh. PU & ran 1 jt 9-5/8" 36# K-55 LT&C R-3 CI "A" (42'), 1 jt 9-5/8" 32.3# H-40 LT&C R-3 CI "A" (40.80'), 4 jts 9-5/8" 32.3# H-40 ST&C R-3 CI "A" (175.39') = total 6 jts 9-5/8" (258.19') set @ 274'RKB. Had GS @ 274' & baffle @ 234', Cent @ 252', 230', 145' & 62'. RU Dowell & PI 10 BW foll by 32' sx CI "B" + 2% CaCl ₂ . Displ'd w/wtr. Gd ret thruout. Circ 20 bbls cmt. PD 10:15 am 10/29/78. WOC 8 hrs & NU BOP. Tstd blind & pipe rams w/1000# f/30 min ea., OK. Top cmt @ 229'. 1° @ 280'. 50 RPM, 15M#. Mud: 8.8#, vis 28, mixing mud. B#1, 14-3/4", HTC, OSCIG, made 280' in 8 hrs. (B#2).
10/31/78	1445	Drlg sd & sh. 1-1/2° @ 977' & 1291'. 60 RPM, 30M#. Mud: 8.9#, vis 29, WL 15, FC 2/32, Ph 9.5, Pv 8, Yld 4, Gels 1/3. (B#2).
11/1/78	2085	Drlg sd & sh. 1-3/4° @ 1604' & 2046'. 60 RPM, 30M#. Mud: 9.0#, vis 34, WL 9.0, FC 2/32, Ph 7.5, Pv 4, Yld 2, Gels 0/1. B#2, 8-3/4", Sm., F-2, made 1324 in 27 hrs. (B#3).
11/2/78	2480	Drlg sd & sh. 3/4° @ 2295'. 60 RPM, 30M#. Mud: 9.1#, vis 34, WL 10, FC 2/32, Ph 9.0, Pv 9, Yld 6, Gels 1/3. B#3, 8-3/4", Sec., S84F, made 691' in 26-3/4 hrs. (B#4).
11/3/78	2825	Drlg sd & sh. Drlg @ 20'/hr. 1/4° @ 2594'. 60 RPM, 30M#. Mud: 9.1#, vis 34, WL 9, FC 2/32, Ph 9.5, Pv 10, Yld 6, Gels 1/3. B#4, 8-3/4", HTC, J-22, made 299' in 17 hrs. (B#5).
11/4/78	3363	Drlg sd & sh. Kicked gas @ 3248' & stopped @ 3290' w/10# mud. 1/2° @ 3048'. 60 RPM, 30M#. Mud: 10.0#, vis 42, WL 8.0, FC 2/32, Ph 9.0, Pv 18, Yld 14, Gels 3/4, solids 8%. B#5, 8-3/4", HTC, J-22, made 796' in 36-1/2 hrs.
11/5/78	3680	Drlg sd & sh. Drlg 11'/hr. 1/4° @ 3363'. 60 RPM, 30M#. Mud: 10.4#, vis 43, WL 8.2, FC 2/32, Ph 9.5, Pv 28, Yld 19, Gels 4/9. (B#6).
11/6/78	3825	Logging w/D-A. Logging w/Dresser Atlas, LTD 3823', DTD 3825'. Ran Ind log f/3818-274' (3544'). Ran CNL-CDL f/3820-1823' (1997'). Top of Pictured Cliffs 3476', Lewis 3688'. 1/2° @ 3706' & 3525'. 60 RPM, 35M#. Mud: 10.3#, vis 57, WL 5.0, FC 2/32. B#6, 8-3/4", Sm., F-2, made 462' in 33-1/2 hrs.
11/7/78	3825	WOC & NU. PU & ran 93 jts 7" 20# K-55 ST&C rge 3 CI "A" (3834'), set @ 3825'KB, GS @ 3835', diff fill FC 3783', Cent @ 3804', 3740', 3660', 3582', 3494', 3414', 3339', 3255', 3170', 3088', 3003', 2920'. RU Hallib & circ hole 1/2 hr. Pmpd 10 BW foll by 125 sx CI "B", 2% gel, 10# gilsonite/sx, 3/4% CFR-2 foll by 150 sx CI "B" w/2% CaCl ₂ , 3/4% CFR-2, displ'd w/155 BW. Did not bmp plug. Pmpd add'n 1/2 bbl, still did not bmp plug. SD 6 pm 11/6/78 Float held OK. Recip pipe 10', gd ret thruout job. Set slips & cut off csg. NU.
11/8/78	4725	Drlg sd & sh. RIH w/bit & DCs. Press tstd BOP to 1000# f/30 min, held OK. Tagged cmt @ 3768'. Drl'd 57' cmt to 3825'. RU NOWSCO. Blw dn well. Drl new fm @ 1:45 pm 11/7/78. 3/4° @ 4133', 1° @ 4444'. 60 RPM, 10M#. Drlg w/gas. (B#7).
11/9/78	5825	Drlg w/gas, sd & sh. 1-1/4° @ 4746', 1-3/4° @ 4932, 5273' & 5549', 2° @ 5795'. 55 RPM, 12M#. (B#7).
11/10/78	6050	TD - LD DP. Drl'd 6-1/4" to 6050' @ 10:45 am 11/9/78. D-A ran Ind log, FDC, Neutron w/GR caliper f/6040-3825', WLTD 6040'. Ran 4-1/2" liner (2362') landed @ 6050', top liner hanger @ 3678'. RU HOWCO & PI 20 bbl gel wtr & 125 sx CI "B" + 4% gel, 10# gilsonite/sx, 3/4% CFR-2 foll by 150 sx CI "B" + 2% CaCl ₂ , 3/4% CFR-2. PD 3:30 am 11/10. Floats OK, FC @ 6012', Cent @ 6032', 5974', 5901', 5827', 4810' & 3724'. 55 RPM, 10M#. Drlg w/gas. B#7, 6-1/4", Sm., F-5, made 2225' in 41 hrs.
11/11/78	6050	TD - MORT. Fin laying dn DP, ND BOP. Rel rig 10:30 am 11/10/78.
11/12/78	6050	TD - Prep to clean loc. Too much rain now.
11/13/78	6050	TD - Prep to clean loc.
11/14/78	6050	TD - Prep to clean loc. - WO weather.
11/15/78	6050	TD - WO weather to clean loc.
11/16/78	6050	TD - Ditto
11/17/78	6050	TD - Ditto
11/18/78	6050	TD - WO completion & weather.
11/22/78	6050	TD - Prep to run 6-1/4" bit & 7" csg scraper to DO cmt in 7" above liner. RU & RU completion unit, Farmington Well Serv. Unloaded & tallied 2-3/8" EUE tbg. Instl'd tbg head & BOP. SDON.
11/23/78	6050	TD - Prep to run cased hole logs. Top cmt in 7" @ 3117'KB. Drl'd 120' hard cmt to 3237', fell thru. 7" clean to top of liner @ 3678' (tbg tally meas). POH. PU 3-7/8" bit & 4-1/2" csg scraper. Ran in liner to 5916'KB. LD 2 jts tbg. SDON.
11/24/78	6050	TD - SD a/c Thanksgiving. It's raining & snowing. SD f/Friday a/c Weather.
11/25/78	6050	TD - SD. Crew went out, weather too bad to get to loc. Still raining this morning. SD till Monday a/c weather & road conditions.
11/26&27/78	6050	TD - SD a/c weather & road conditions.
11/28/78	5925	PB - Prep to perf Mesaverde, acidize & frac. RIH w/2 jts tbg. Displ'd hole w/2% KCl wtr. Pld 190 jts 2-3/8" tbg, 4-1/2" csg scraper & 3-7/8" bit. Ran D-A CBL w/var dens & GR correl log f/PBTD (5925') to 2900'. Vy gd cmt bond thru perf'g interval. Press tstd 7" csg & 4-1/2" liner to 2500#, OK f/15 min. SDON.

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U. S. GEOLOGICAL SURVEY

FARMINGTON, COLORADO

DEC 22 1978
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