

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT 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 _____		5. LEASE DESIGNATION AND SERIAL NO. SF-078510																			
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 Suite 501, 1860 Lincoln Street, Denver, Colorado 80295		8. FARM OR LEASE NAME Blanco																			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface. 1735' FSL & 1525' FEL Section 5 At top prod. interval reported below Approx. Same At total depth Approx. Same API#30-045-23259		9. WELL NO. 1-A																			
14. PERMIT NO. Mr. McGrath		13. STATE New Mexico																			
15. DATE SPUDDED 11-11-78		12. COUNTY OR PARISH San Juan																			
16. DATE T.D. REACHED 11-23-78		13. STATE New Mexico																			
17. DATE COMPL. (Ready to prod.) 12-27-78		10. FIELD AND POOL, OR WILDCAT Blanco-Mesaverde																			
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6425' GR.		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA 5-31N-8W																			
20. TOTAL DEPTH, MD & TVD 5895'		12. COUNTY OR PARISH San Juan																			
21. PLUG, BACK T.D., MD & TVD 5813'		13. STATE New Mexico																			
22. IF MULTIPLE COMPL., HOW MANY? N/A		14. PERMIT NO. Mr. McGrath																			
23. INTERVALS DRILLED BY - - -		15. DATE SPUDDED 11-11-78																			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5753'-5399' OA (25 shots) Mesaverde		16. DATE T.D. REACHED 11-23-78																			
25. WAS DIRECTIONAL SURVEY MADE No		17. DATE COMPL. (Ready to prod.) 12-27-78																			
26. TYPE ELECTRIC AND OTHER LOGS RUN IEL/IL/GR, CDL/LPN/GR & CBL		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6425' GR.																			
27. WAS WELL CORED No		19. ELEV. CASINGHEAD - - -																			
28. CASING RECORD (Report all strings set in well)																					
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31. PERFORATION RECORD (Interval, size and number) 5753', 5745', 5734', 5727', 5720', 5714', 5706', 5696', 5689', 5669', 5658', 5652', 5647', 5634', 5496', 5489', 5474', 5468', 5444', 5440', 5437', 5409', 5406', 5402', & 5399'. 1 JSPF																					
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34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be Sold when pipeline connected.																					
35. LIST OF ATTACHMENTS 2 ea. #26 and Daily Well History																					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																					
SIGNED <u>S. J. Laghetti</u> TITLE <u>Operations Information Assistant</u> DATE <u>12-29-78</u>																					

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

NMoce

JAN 4 - 1979

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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUB VERT. DEPTH
				Cliff House Menefee Pt. Lookout Upper Mancos	14974' 5370' 5626' 5829'	

11/13/78 330 Drlg sd & sh. Ran 7 jts 9-5/8" 32.3# H-40 ST&C csg (282.49'), landed GS @ 296'KB, Cent @ 276', 217', 136' & 55', baffle plate @ 256'. RU Hallib, pmpd 20 bbl gel wtr foll w/325 sx Cl "B" w/2% CaCl, displ'd w/20 BW. Plug did not drop. JC @ 10:45 am 11/12/78. Circ'd 20 bbls cmt to pit. Press tstd BOP @ 9-5/8" csg to 1000# f/30 min, held OK. Tagged cmt @ 250'. 1/4" @ 300'. 55 RPM, 15M#. Drlg w/clear wtr. B#1, 14-3/4", HTC, OSC3, made 300' in 9-1/4 hrs. (B#2).

11/14/ 8 1575 Drlg sd & sh. 3/4" @ 695', 1" @ 1105' & 1417'. 65 RPM, 30M#. Mud: 9.1#, vis 37, WL 12.4. (B#2).

11/15/78 2260 Drlg sd & sh. 1" @ 1794' & 2138'. 60 RPM, 30M#. Mud: 9.3#, vis 36, WL 12.0, FC 2/32, Salt 300 ppm, Ph 9.5, Pv 8, Yld 4, Gels 1/3, solids 4.9%. (B#2).

11/16/78 2600 Drlg. 1" @ 2138' & 2530'. 60 RPM, 30M#. Mud: 9.3#, vis 38, WL 11.2, FC 2/32, salt 400 ppm, Ph 10, solids 7%. B#2, 8-3/4", Sm., F-2, made 2230' in 61-3/4 hrs. (B#3).

11/17/78 3080 Drlg. 1" @ 2825'. 60 RPM, 30M#. Mud: 9.2#, vis 43, FC 2/32, Sd-tr, salt 300 ppm, Ph 9, Yld 4, Gels 1/3, solids 5.6%. (B#3).

11/18/78 3410 Drlg sd & sh. Had drlg brk f/3130-3135' in Fruitland, well kicked @ 3138'. Incr'd mud f/9.2 to 10.8 ppg (320 sx Barite). Did not require closing BOPs. Drld to 3183'. TOH f/bit. First 3 stds pld tite off btm, wsh'd 90' back to btm w/B#4. 1/2" @ 3160'. 60 RPM, 30M#. Mud: 10.9#, vis 41, WL 9, FC 2/32. B#3, 8-3/4", Sm., F-2, made 653' in 33-3/4 hrs. (B#4).

11/19/78 3700 Making short trip before logging. Drlg 10'/hr. Chg'd TD f/3670-3700'. 60 RPM, 35M#. Mud: 10.9#, vis 70, WL 8.6, FC 2/32. B#4, 8-3/4", HTC, J-22, made 517' in 34-3/4 hrs.

11/20/78 3720 WOC. Drld to 3700' (DTD) (LTD 3702'), circ & cond mud & TOH. Ran Ind log f/ 3697-301' (3396' interval). Pictured Cliffs @ 3338' (doesn't look gd), top of Lewis Sh @ 3579'. Ran CNL & CDL f/3700-1700' (2000'). PU & ran 91 jts 7" 20# K-55 ST&C Cl "A" Rge 3 csg f/3731.81', set @ 3720'KB, GS @ 3720', FC @ 3677', Cent @ 3698', 3637', 3555', 3477', 3390', 3308', 3227', 3145', 3061' & 2983'. RU Hallib. Pmpd 10 BW ahead, foll by 135 sx Cl "B" w/2% gel, 10# gilsonite/sx, 3/4% CFR-2, foll by 150 sx Cl "B" w/2% CaCl & 3/4% CFR-2. Displ'd w/149 BW. Recip pipe 10'. Had gd ret thruout. PD 5 am 10/20/78. Set slips w/60M#. 1/4" @ 3700'. 60 RPM, 30M#. Mud: 10.8#, vis 50, WL 8.6, FC 2/32. (B#5).

11/21/78 4146 Drlg sd & sh @ 75'/hr. Press tstd BOP to 1000# f/30 min, held OK. Tagged cmt @ 3675'. Drld 45' cmt. Blew well dn w/nitrogen. Drld 30' & strtd dusting. 1/2" @ 4020'. 60 RPM, 14M#. Drlg w/nat gas. (B#6).

11/22/78 5076 Drlg sd & sh. Drlg @ 35'/hr. 3-3/4" @ 4234', 2-1/4" @ 4326', 2-1/2" @ 4479', 3-1/4" @ 4788', 4666' & 4942'. 60 RPM, 8M#. Drlg w/nat gas.

11/23/78 5895 Logging, Mesaverde. POH w/DP & DCs, 6-1/4" bit. RU D-A, ran comp dens, neut induction logs w/GR & caliper. Still logging @ 8 am 11/23/78. 3-1/4" @ 5126'. 3-3/4" @ 5437', 4" @ 5895'. 60 RPM, 80M#. Drlg w/nat gas. B#6, 6-1/4", ST&C, F-5, made 2175' in 42-1/4 hrs.

11/24/78 5895 TD - MORT. Fin'd logging. RD D-A. RU & RIH w/55 jts (2368') 4-1/2" 10.5# K-55 csg, landed @ 5288'. liner hanger top @ 3510'. RU HOWCO, pmpd 20 bbls gel wtr. Cmt'd w/125 sx Cl "B" w/4% gel, 10# gilsonite/sx, 3/4% CFR-2, foll w/150 sx Cl "B" 2% CaCl2, 3/4% CFR-2. PD 6 pm 11/23/78. Float held OK. FC @ 5844', Cent @ 5866-5801', 5713', 5640', 4629'. 3608', LD DP. ND BOP. Rel rig 11 pm 11/23/78.

11/25/78 5895 TD - MORT.

11/26-27 5895 TD - WO completion.

11/28- 5895 TD - WO completion.

12/01/78 5895 TD - WO Completion.

12/02/78 5895 TD - Prep to GIH w/bit. MI & RU Farmington Well Serv. 12/01/78. Instl'd. Tbg. Head & BOP. Unloaded 2-3/8" tbg. on racks. SDON

12/03/78 5895 TD - Prep. to SD a/c Sunday. Rig crew went out, but SD yest. a/c wind & snow. To fill frac tks today.

12/04/78 5895 TD - Prep. to GIH w/bit. Rig SD a/c Sunday

12/05/78 5895 TD - Prep. to cont. to DO cmt. Ran 6-1/4" bit & 7" csg. scrpr. on 93 jts. 2-3/8" tbg to top of cmt at 2894' KB. Drld. 156' cmt. SDON

12/06/78 5813 PB - Prep to run cased hole logs. Drld. cmt in 7" csg f/3050-3081' (31'). Ran tbg bit & csg. Scrpr. to top of liner at 3511'. Poh w/tbg. Ran 3-7/8" bit 4-1/2" csg. scrpr. on 2-3/8" tbg to PETD @ 5813' RKB. Circ. hole w/2% KCL wtr POH w/tbg, csg. scrpr & bit. SDON

12/07/78 5813 PB - Prep to run pkr & acidize. RU D-A. Ran CBL w/var. den. & GR Collar Correl log f/WL PETD 5814-2800'. Very good bond thru all of Mesaverde section. Loaded hole w/2% KCL wtr. Press tstd csg to 2500# f/15 min, held OK. RU full lubricator. Perf'd w/D-A CBL-GR Collar log meas. & the following shots: 5753, 45, 34, 27, 20, 14, 06, 5696, 89, 69, 58, 52, 47, 34, 5496, 89, 74, 68, 44, 40, 37, 09, 06, 02 & 53991, (25 shots) 1 JSPP. SDON

12/08/78 5813 PB - Prep. to fin plg tbg (thawing tanks, trucks & lines). RIH w/Bkr retrieval. pkr. on 2-3/8" tbg. to 5756'. Sptd 5 bbls 15% HCL over perfs @ 5753-5399'. Pld up & set pkr @ 5261'. Was unable to brk dn perfs w/4500#. Press would bleed off 500# in 2 min. Kept press back up on tbg, still would not brk. Rel pkr & lowered tbg back to 5756'. Strtd. to spt 5 more bbls of acid. Spt approx 1/2 way dn tbg to perfs. Well quit circ & went on vac. Pld up & reset pkr @ 5261'. Acidized perfs w/1790 gals 15% HCL & 50 ball sealers. Avg. press 800#. Rate 5 BPM (displ wtr). Gd ball action. Balled off perfs @ 3500#. ISIP - vac. Rel pkr, lowered thru perfs. Pld 72 jts SDON

12/09/78 5813 PB - Trying to heat frac wtr. POH 113 jts & Bkr Pkr. Shut well in. Used rig crew, Allen roust crew, Sage roust crew to haul wood diesel fuel & O.S. hulls to make fires around 15 frac tks to thaw. Ice 1' thick in tanks. Using 2 hot oil units. Circ. & heat wtr 5-6 hrs/tank. Hot oil units fuel lines freezing. 5 tanks heated. Temp. -20°F. To cont to heat wtr. Did not SDON

12/10/78 5813 PB - thawing frac tanks w/2 hot oil units & 2 roust crews to keep fires going. Have 11 tanks heated, lack 4. Hope to frac tomorrow. -6°F in town \$238,676

12/11/78 5813 PB - Prep to frac today. Hot oil unit thawing ice in frac tanks. All 15 frac tanks heated up.

12/12/78 5813 PB - Prep to attempt frac. Hook up Western Co. loaded hole and started pad to establish inj. rate. Pmpd 300 bbls, was unable to come up to rate. Pumps missing, lines jumping. SD Western Co. to repair pumps. SDON

12/13/78 5813 PB - Prep. to CO w/nitrogen & foam. Wait 8 hrs on loc f/Western Co. to repr pmps. Frac'd. Mesaverde perfs 5399-5753' dn 7" csg & 4-1/2" liner w/2% KOL wtr, containing 2#/1000 gals fric reducer & 30#/1000 gals fld loss add & 20/40 sd: 44,000 gals pad; 40,000 gals wtr, 1 1/2# gal sd, 20,000#; 34,000 gals wtr, 1#/gal sd, 34,000#; 36,000 gals wtr, 1-1/2# gal sd, 54,000#; 46,000 gals wtr, 2#/gal sd, 92,000#; 7,000 gals flush, Total frac 156,000 gals KOL wtr & 200,000 # sd. Min TP 2850#, Avg. press 2200#, AIR 54 BPM. ISIP 1100#, 15 min SIP 600#. JC 5:00 PM 12/12/78. Closed BOP & RD Western Co. SDON

12/14/78 5813 PB - Prep to CO sd. Ran 2-3/8" tbg to top of perfs. Allied Serv had trouble w/foam truck. Picked tbg back up into 7" csg. WO nitrogen & kill truck to CO sand. SDON

12/15/78 5813 PB - Prep to swb. Ran 2-3/8" tbg to top of sand @ 5628', CO 186' of sd w/nitro & foam to PBTD 5814'. LD 13 jts tbg, landed tbg w/OCT T-16 tbg hanger @ 5387'. Removed BOP & instl'd OCT B-1 flg'd head w/2" master valve & 2" wing valve screw in type. Ran tbg as foll: 1 ju 2-3/8" EUE 4.7# J55 8R New (31.15'); 1 SN Bkr Mod "F" 2-3/8" (1.81") (.70'); 173 jts. 2-3/8" EUE 4.7# J55 8R New (5343.35'); total 5375.20'. RKB to top of hanger 12'. Btm of tbg string 5387.20'. Kicked well off flowing w/nitro. Well kept loading up w/wtr & drying. Left well open to pit, flowing small amt wtr by heads. SDON

12/16/78 5813 PB - Flwg to pit to clean up. At 7:30 a.m. tbg dead. CP 900#. RU swb & swb'd 60 EW & well kicked off. Left flwg to pit O/N. Gas too wet to meas. Flwg thru 3/4" choke, CP 840#, TP 25#.

12/17/78 5813 PB - Flwg well to pit to clean up. In a.m. well flowing to pit, too wet to meas. Rel Pulling Unit 8:00 a.m. 12/16 to move to Hammond #7-A. In p.m. flwg 440# CP, 75# TP, on 3/4" ch orifice well test meas 802 MCFD. Left flwg to pit.

12/18/78 5813 PB - Prep to shut in. Left flwg to pit.

12/19/78 5813 PB - Shut in for test. 2" orifice well test meas. 847 MCFD. 3/4" choke. FFP 25#, CP 200#. SI

12/20/78 -

12/26/78 5813 PB - Shut in f/state test.

12/27/78 5813 PB - COMPLETED SI GAS WELL Mesaverde Fm, 12/27/78. WO gas connection. State of New Mexico, 1 pt. back press tst on 12/26/78. SI f/7 days. 7 day TP 1044#. SIOP 1034#. Duration of flow 3 hrs. 48/64" choke. Flw @ end of 3 hrs, 2174 MCFD, ACF 2416 MCFD. Mesaverde perfs 5399-5753', GR clr log meas.