

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. RESVR. ☐	Other _____
2. NAME OF OPERATOR						6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
ARCO Oil and Gas Company Division of Atlantic Richfield Company						7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR						8. FARM OR LEASE NAME	
P.O. Box 5540, Denver, Colorado 80217						Schlosser WN Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						9. WELL NO.	
At surface 1660' FNL & 1520' FWL						8 E	
At top prod. interval reported below Approx same						10. FIELD AND POOL, OR WILDCAT	
At total depth Approx Same						Basin Dakota	
API# 30-045-24119						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA	
14. PERMIT NO.						12. COUNTY OR PARISH	
Mr. Sims						San Juan	
DATE ISSUED						13. STATE	
2/13/80						New Mexico	
15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, REB, RT, GR, ETC.)*			19. ELEV. CASINGHEAD	
4/11/80	4/21/80	6/3/80	5734' GI; 5744' DF; 5745' KB			----	
20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS		CABLE TOOLS	
6382' TD	6338' PB	1	ACCEPTED FOR RECORD	0-5 6382'		---	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*						25. WAS DIRECTIONAL SURVEY MADE	
Dakota 6279' - 6317' Graneros 6193' - 6229'						No	
26. TYPE ELECTRIC AND OTHER LOGS RUN						27. WAS WELL CORED	
CNL/FDC; DIL						No	
28. CASING RECORD (Report all strings set in hole)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD		AMOUNT PULLED	
8-5/8"	24#	679'	12-1/4"	500 sxs		NONE	
4-1/2"	10.5#	6381'	7-7/8"	1410 sxs (2 stages)		NONE	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD		
NONE					SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	6065'	NONE
31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Dakota 6279 - 6317' 14 holes				DEPTH INTERVAL (MD)			
Graneros 6193 - 6229' 10 holes				AMOUNT AND KIND OF MATERIAL USED			
				6317'			
				1000 gals 15% HCL & Adds			
				6279 - 6317'			
				1000 gals 15% HCL			
				6230'			
				100 gals 15% HCL			
				5900'			
				1500 gals 15% HCL			
33.* PRODUCTION (Over)							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
NO Connection		Flowing				Shut In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6/3/80	24 hrs	48/64"	→	12	737	29	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	CORR.)	
179#	493#	→	12	737	29	60° F	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WEIGHTED BY	
To be sold						JUN 20 1980	
35. LIST OF ATTACHMENTS							
2 of #26 above 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		TITLE			DATE		
W. A. Walther, Jr.		Operations Manager			June 13, 1980		

*(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				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
No Cores & No DST's				PC Lewis Shale MV Upper Mancos Gallup Green Horn Graneros Dakota	1698' 1890' 3222' 4416' 5303' 6091' 6153' 6201'	
#32. 6193' - 6317'			99,000 gals 2% KCL wtr & 305,000# 20/40 Mesh sand			

4/12/80	692	WOC, SS & Sh. SPUD 10:30 a.m. 4/11/80. Ran 16 jts 8-5/8" 24# K-55 ST&C, GS @ 679', w/insert flt 632', 3 cntrlzrs 656', 586', 500'. Cmt'd w/Dowell 10 BW, 500 sx Cl "B" w/2% CaCl ₂ . PD @ 3:45 am 4/12/80. Gd ret thruout job. 1° @ 692'. 120 RPM all wt. Spud mud. B#1, 12-1/4", HTC, OSC-3, made 692' in 11 hrs.
4/13/80	1863	Drlg sd & sh. Tst BOP to 1000# f/30 min - OK. 120 RPM, 38M#. Mud: 8.4#, KCl & wtr. (B#2).
4/14/80	2734	Drlg sd & sh. Had tite @ trip 2297'. Mudded up w/no further problems. 3/4° @ 2247' & 2734'. 65 RPM, 35M#. Mud: 8.7#, vis 33, WL 11, FC 2/32, Sd 1/2%, Ph 7.5. B#2, 7-7/8", HTC, J-1, made 1608' in 15 hrs. B#3, 7-7/8", Sm., FDT, made 437' in 7-1/2 hrs. (B#4).
4/15/80	3670	Drlg sd & sh. 3/4° @ 3413'. 70 RPM, 35M#. Mud: 8.6#, vis 30, WL 10, FC 2/32, Sd 1/4, Ph 10, Yld 0/2. (B#4).
4/16/80	4403	Drlg, Mancos fm. 1° @ 3907'. 70 RPM, 38M#. Mud: 8.6#, vis 30, WL 10, Sd 1/4%, Ph 8, Pv 2, Yld 1. (B#4).
4/17/80	4955	Drlg, Mancos (almost to Gallup @ approx 5200'). 1° @ 4527'. 70 RPM, 38M#. Mud: 8.6#, vis 30, WL 10.5, FC 2/32, Sd 1/4%, salt 1000, Ph 8, Pv 2, Yld 1, Gels 0/0. (B#4).
4/18/80	5518	Drlg. 1° @ 5118'. 70 RPM, 38M#. Mud: 8.6#, vis 30, WL 9, FC less than 1/32, Sd tr, salt 750, Ph 8, Pv 2, Yld 2, Gels 0/0, Ca 280. (B#4).
4/19/80	5890	Drlg, Mancos fm. 1/4° @ 5637'. 70 RPM, 38M#. Mud: 8.4#, vis 33, WL 9.6, FC 1/32, Sd 1/4%, salt 500, Ph 8, Pv 2, Yld 3, Gels 0/0, Ca 240, solids 6%. B#4, 7-7/8", Sm., F-2, made 2903' in 98-1/4 hrs. (B#5).
4/20/80	6300	Circ f/logs, Dakota fm. 6182' lost 150 bbls (partial loss); 6296' lost 200 bbls (complete loss). 60 RPM, 35M#. Mud: 8.7#, vis 55, WL 13.5, FC 2/32, LCM 10%. B#5, 7-7/8", Sm., F-3, made 663' in 29 hrs.
4/21/80	6382	TOH f/logs, Dakota fm. Ran DIL w/Schl TD to 6282', 18' fill f/top of Dakota 6272'. Chk surf csg @ 676' on 2" log f/control. Rel loggers. WIH & drld 82'. Lost partial returns 6320-6350', 100 bbls mud. 1° @ 6300'. 70 RPM, 35M#. Mud: 8.9#, vis 60, WL 6, Ph 8, LCM 15%. B#6, 7-7/8", Hughes, J-44, made 82' in 7-3/4 hrs.
4/22/80	6382	Rng 4-1/2" csg, Dakota fm. Log TD 6385'. Ran DIL-SFL, DNL, FDC w/GR & Caliper f/TD to 678' by Schl.
4/23/80	6382	TD - Moving rig to So. Ute #23-2, 32-10. Ran 156 jts (6373.03') 4-1/2" 10.5# J-55 8rd EUE ST&C w/FC @ 6337' & DV @ 2032'. Used 14 scratchers on Gallup/Dakota & 7 cntrlzrs. Used 1 cntrlzr below DV & 2 above on 1st & 3rd clrs above DV. Cmt'd 1st stage using 500 gal mud flush foll'd by 530 sx HOWCO Lite & 10# gilsonite/sx & 3/4% CFR-2 foll'd w/260 sx 50/50 Poz w/2% gel. Had gd returns while mixing cmt. Displ'd w/102.5 BW w/o any returns, but w/annulus fld staying within 50' of surf. PD 10:30 am 4/22/80. Opnd DV & circ'd 2-1/2 hrs w/full returns. Cmt'd thru DV using 500 gals mud flush foll'd w/620 sx HOWCO Lite w/2% CaCl ₂ & 3/4% CFR-2. Displ'd w/33 BW w/full returns circ'g about 35 sx cmt to surf. PD 1:48 pm 4/22/80. Set slips w/60M# & cut off csg. RR 6 pm 4/22/80.

4/24/80	6382	TD - Cleaning loc & MORT.
4/25/80	6382	TD - WO completion.
4/26-28/80	6382	TD - WO completion. (Drop f/report until completion commences).
5/14/80	6382	TD - POH w/tbg prior to perf'g. MI & RU Big "A" Well Serv (Rig #9). Unload & tally 195 jts EUE tbg. PU & run 66 jts. Tag cmt @ 2021'. RU power swivel & reverse unit. Drl cmt f/2021-2036' & stage tool 2036-2039'. Cont in hole w/ tbg. Tag lite cmt @ 6290'. CO f/6290-6340'. Tag FC. Circ hole clean. RU HOWCO. Circ hole w/2% KCl wtr. POH. RU D-A, run CBL & CCL w/Var Dens f/ loggers' PBTD 6338'. Gd bond 6338-5422'; fair bond f/5422-5226'; gd bond 5256-5200'; no bond 2100-2034' (stage tool @ 2034'); fair bond 2034-1600'; poor bond 1600-1300'. Press tst csg to 4000#, held OK 10 min. Ran base temp survey f/4300-6338' PBTD. TIH w/205 jts tbg plug 10' sub to 6317'. Sptd 1000 gals 15% HCl w/adds as per prognosis. POH.
5/15/80	6338	PBTD - Prep to CO sd & swab. Perf Dak @ follwg: 6279',82',85',88',91',94',97',99',101',103',105',107',109',111',113',115',117' - 14 holes. DA CBL GR correl log meas correl to Sch CNL/FDC log. Displ 1000 gals 15% HCl. Fm brk @ 900#. Trtd @ 23 BPM, 3200#. ISIP 400#. Bled to 0 in 3 mins. TIH w/2-3/8" tbg OE to 6230'. Sptd 100 gals 15% HCl. POH. Perf Graneros @ follwg: 6193',95',97',99',6201',03',05',07',09',11',13',15',17',19',21',23',25',27',29' - 10 holes. TIH w/Bkr Retr Pkr & 66 jts tbg - wouldn't go down. POH. Ran Pkr #2 to 5900'. Trtd w/1500 gals 15% HCl. Balled off @ 3500#, after 15 mins press dropped to 800#. Fin displ'g acid. SI. Swab tbg dry, had good gas blow. Rel'd pkr. Ran 6 stds to knock off balls. POH. Frac trt Graneros - Dakota perfs 6193-6317' w/HOWCO 40# versigel in 99,000 gals 2% KCl & 305,000# 20/40 mesh sd: 15,000 gals pad, 40 BPM, 3100#; 10,000 gals, 1#/gal, 40 BPM, 3400#; 12,000 gals, 2#/gal, 39 BPM, 3300#; 12,000 gals, 3#/gal, 39 BPM, 3100#; 15,000 gals, 4#/gal, 42 BPM, 2950#; 16,000 gals, 5#/gal, 40 BPM, 2800#; 10,000 gals, 6#/gal, 40 BPM, 2800#; 5,000 gals, 7#/gal, 40 BPM, 2700#; 4,000 gals, flush, 40 BPM, 2800#. ISIP-1300#, 5 min SIP-1150#. Avg 40 BPM @ 3100#, Max 3800#. RU DA. Run temp surveys f/5500' to TD @ 6328'. First run @ 11:00 pm 5/14/80; second run @ 1:00 am 5/15; 3rd run @ 3:00 am 5/15. SI & WO gel to brk.
5/16/80	6338	PB - Prep to cont to flw f/clean up. WO gel to brk. TIH w/ 3-7/8" bit. CO to FC @ 6338'. POH. TIH w/197 jts 2-3/8" EUE tbg (6053') set @ 6065'KB w/ API SN @ 6034'. Made 1 run w/swb. FL @ 500'. Pull swb f/3500'. Well strtd unloading. Flwd 14 hrs on 20/64" chk. CP 350#, TP 75#. Rec'd 308 BLW w/ show oil. Last hr rec'd 11.4 BLW. Total load rec'd 308 bbls. Load yet to recover 2049 bbls.
5/17/80	6338	PB - Flwd to tst tk 4 hrs on 20/60" chk. Rec'd 38 BLW w/gd show oil. Flwd to pit 20 hrs 3/4" chk w/FTP 50# & SICP 400#.
5/18/80	6338	PB - Flwd to pit 24 hrs on 3/4" chk w/FTP 50# & SICP 425-350#. Gas rate 600 MCFD w/lite spray wtr. SI @ 6:00 am 5/18/80. Rel'd SU.
5/19-21/80	6338	PB - SI f/press bld up.
5/22-6/4/80	6338	PB - SI f/press bld up.
6/5/80	6338	PB - <u>COMPLETED SI GAS WELL</u> , 6/3/80, Dakota fm. Tst date 6/3/80 3 hr tst. 17 day press. SIIP 819# & SICP 819#. Flwd thru 48/64" chk FTP 179# & FCP 493#. Gas rate 737 MCFD. 42.1 bbls liquid = 70% frac wtr & 30% oil f/Dakota perfs 6279-6317' & Graneros perfs 6193-6229'. Oil gvty 44.1° API @ 60°F. 30 min TP 586# & CP 618#. LPP 6317'.