

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 and Gas Company															
Division of Atlantic Richfield Company															
3. ADDRESS OF OPERATOR															
P. O. Box 5540, Denver, Colorado 80217															
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*															
At surface 1595' FNL & 2170' FWL															
At top prod. interval reported below															
At total depth															
API #30-045-24123															
14. PERMIT NO.				DATE ISSUED				12. COUNTY OR PARISH				13. STATE			
Mr. Sims				3-13-80				San Juan				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		4-24-80		6-25-80		5750' GL; 5763' DF; 5764' 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					
6280' TD		6260' PB		1		→		0-6280'		---					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*										25. WAS DIRECTIONAL SURVEY MADE					
Dakota 6151' - 6237'										NO					
26. TYPE ELECTRIC AND OTHER LOGS RUN										27. WAS WELL CORED					
FDC/CNL-GR; DIL										NO					
28. CASING RECORD (Report all strings set in)															
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED					
8-5/8"		24#		618'		12-1/4"		450 SXS 3		NONE					
4-1/2"		10.5#		6281'		7-7/8"		1300 SXS (2 stage)		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"					
										6108'					
										NONE					
31. PERFORATION RECORD (Interval, size and number)															
Dakota 6151'-6237' 18 holes															
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.															
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED											
6246'				100 gals 15% MSR											
6006'				100 gals spot acid											
6006'				1500 gals 15% MSR											
6151'-6237'				72,000 gals 2% KCL wtr & 216,000# 20/40 mesh sand											
33. PRODUCTION															
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)								WELL STATUS (Producing or shut-in)					
WO 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	
6-25-80		24		48/64"		→		198		770		22(frac)		---	
FLOW, TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.		OIL GRAVITY-API (CORR.)			
218#		474#		→		198		770		22		---			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)												TEST WITNESSED BY			
To be sold												Rex Hitchcock			
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 data.															

SIGNED

W. A. Walther, Jr.

TITLE Operations Manager

DATE

July 8, 1980

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

BY

FACSIMILE SIGNATURE
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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 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.
DST#1	5530'	5624'	No cushion, tool opened 2 hrs & 5 mins Recovered 3165' of mud & wtr IF 907#-934#, ISIP 2458# FFP 1067#-1467#, FSI 2082#

NO CORES

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Pictured Cliffs	1635'	
Lewis Shale	1772'	
Mesaverde	3184'	
Upper Mancos	4356'	
Gallup	5246'	
Greenhorn	6038'	
Graneros	6100'	
Dakota	6207'	

4/12/80	534	Drlg, SS & sh. SPUD 9 p.m. 4/11/80. Drld 12-1/4" surf hole. 1° @ 300'. 110 RPM, 30-40M#. Mud: 9.2#, vis 70. (B#1).
4/13/80	1099	Drlg sd & sh. Ran 16 jts 8-5/8" 24# K-55 R3 ST&C, GS, 4 cntrlzrs (621.09'). Landed @ 618' KB. Cmt'd w/450 sx Cl "B" w/2% CaCl ₂ , 1/4#/sx Flocele, circ 18 bbls slurry, gd ret thruout job. Cmt @ 15.5 ppg. 95 bbls slurry. Displ w/37 BW. 60 RPM, 40M#. Drlg w/wtr & Benex. B#1, 12-1/4", Sm., DT - retip, made 626' in 8-3/4 hrs. (B#2).
4/14/80	2611	Drlg sd & sh. 1/2° @ 1769', 1° @ 2266'. 90 RPM, 45M#. Drlg w/wtr & Benex. B#2, 7-7/8", Sm., DT, made 1143' in 10 hrs. (B#3).
4/15/80	3080	Drlg sd & sh. 1/4° @ 2671'. 70 RPM, 45M#. Drlg w/wtr & Benex. B#3, 7-7/8" Sm., DG, made 902' in 15 hrs. (B#4).
4/16/80	3855	Drlg sd & sh. 1/4° @ 3831'. 68 RPM, 45M#. Drlg w/wtr & Benex. (B#4).
4/17/80	4550	Drlg sd & sh. 1/2° @ 4393'. 68 RPM, 45M#. Drlg w/wtr & Benex. (B#4).
4/18/80	5075	Drlg sd & sh. 68 RPM, 45M#. Mud: 8.8#, vis 39, Ph 8.5. (B#4).
4/19/80	5490	Drlg sd & sh. 68 RPM, 45M#. Mud: 9#, vis 38, WL 8, FC 2/32, Sd tr, salt 650, Ph 9, Pv 6, Yld 3, Gels 0/1, solids 3%, Ca 60, oil 0%. (B#4).
4/20/80	5628	PU tst tools, Gallup fm. Strapped DP. 1/2° @ 5539'. 68 RPM, 45M#. Mud: 9#, vis 50, WL 7, FC 2/32, Sd tr, salt 600, Ph 8.5, Pv 6, Yld 3, Gels 2/4, solids 4%, Ca 40. B#4, 7-7/8", Sm., F-2, made 2868' in 102 hrs. (B#5).
4/21/80	5676	Drlg sd & sh. Ran Halliburton DST tools (DST #1) & tstd Gallup interval 5550-5628'. On the 5" initial flw the blw died in 4 min, took 30 min ISI, 120 min 2nd flw & 120 min FSI. Annulus stood full thruout test. Rel'd pkr & chained out of hole rec'g 3165' fld (39 bbls drlg mud & 6 BW). Sample caught of mud & wtr. DST #1 (top chart): IF 880#, ISIP 2431#, FFP 880#, FSI 1444#, IHP 2942#, FHP 2565#; (btm chart): IF 950#, ISIP 2381#, FFP 1040#, FSI 1044#, IHP 2913#, FHP 2621#. BHT 150°. 68 RPM, 45M#. Mud: 9#, vis 40, WL 6, FC 2/32, Sd tr, salt 600, Ph 8.5, Pv 17, Yld 13, Gels 5/9, solids 9%, Cal 40. (B#5 - rerun).
4/22/80	6050	Drlg sd & sh. 68 RPM, 45M#. Mud: 9.0#, vis 40, WL 10, FC 2/32, Sd tr, salt 500, Ph 8.5, Pv 8, Yld 4, Gels 2/4, solids 3, Ca 40. (B#5, rerun). NOTE: Corrected DST #1 pressures: (Top chart) (5530') IHP 2660#, IF 907-934#, ISI 2458#, FF 1067-1467#, FSI 2082#, FHP 2620#; (Btm chart) (5624') IHP 2674#, IF 976-1003#, ISI 2515#, FF 1109-1505#, FSI 2115#, FHP 2634#.
4-23-80	6280	TD - TOH f/logs, Dakota fm. Lost complete returns @ 6213'. PI 50 BM, strtd getting some back. Slowed pmp dn to 35 strokes & kept drlg. Full returns @ 6230'. Then lost all again @ 6265'. Got returns back in 15-20 min. Lost total of 350 BM. 50 RPM, 45M#. Mud: 9.3#, vis 68, WL 6, FC 2/32, Sd tr, salt 400, Ph 8.5, Pv 18, Yld 14, Gels 5/10, solids 4%, Ca 40, LCM 18%. (B#5 - rerun).
4/24/80	6280	TD - TIH after logs, Dakota. On first try, logs stopped @ 5595'. TIH w/bit. Bridge @ 5595-5605'. Went to btm, circl'd 1 hr. Short trip to 5300' & circl'd 2 hrs, then TOH f/logs. Btm of hole f/5600'-TD did not shape up well. Ran DIL f/TD to btm of surf pipe, CNL-FDC w/GR & caliper from 1300-1880', 3100-4650', & 5110-TD. Ran caliper f/surf pipe to TD. Log sample tops: PC 1635', Lewis Shale 1772', MW 3184', Upper Mancos 4356', Gallup 5246', Graneros 6100', Dakota 6207'. MW 9.3#, Vis 70, WL 5.0, F.C. 2/32, Sd 1/4%, Salt 400, Ph 8.5, Pv 20, Yld 17, Gels 8/14, solids 6%, Ca 40. (B#5)-RR

2145,242

4/25/80 6282 TD - Landing csg on slips, Dakota fm. Ran 150 jts 4-1/2" 10.5# J-55 8rd ST&C R3 (6290.50'), GS .75', FC 1.65', DV tool 3.30' (total 6296.20'). FC @ 6241', DV tool @ 1933' (top jt #104). 15 scratchers (2/jt on jts #1-8 f/5960-6280', Graneros & Dakota), 15 cntrlzrs on jts #1,2,3,4,5,6,7,9,11,13,15,103, 105,107 & 109. Cmt bskts on jts #102 & 103. Cmtd 1st stage w/500 gals mud flush & 10 BW, 500 sx Hallib lite, 10# gilsonite/sx, 3/4% CFR-2, 188 bbls slurry @ 12.5#/gal; foll w/300 sx 50/50 Poz, 3/4% CFR-2, 2% gel, 67 bbls slurry @ 13.5#/gal. Displ'd w/99 BW. Circ press 1100#. Bmpd plug w/1600#, flt held OK. PD 12 MN 4/24/80. Circ'd full returns thruout job. 2nd stage: 500 gals mud flush, 10 BW, 300 sx Hallib lite, 3/4% CFR-2, 2% CaCl, 98 bbls slurry @ 12.5#/gal; foll w/200 sx 50/50 Poz, 3/4% CFR-2, 2% CaCl, 44 bbls slurry, 13.5#/gal. Displ'd w/30 BW. Circ'd press 400#. Closed DV tool w/1600#. PD 4:15 am 4/25/80. Had full returns thruout job. Csg landed @ 6281'.

4/26/80 6282 TD - WO compl & MORT. Cut off csg & landed. RR 7 am 4/25/80. (Drop f/report until completion commences).

5/19/80 6282 TD - MI & RU Big "A" Well Service.

5/20/80 6282 TD - Prep to spt sd on BP & press tst. MI & RU Big "A" Well Service (#9). Unloaded & tally 198 jts 2-3/8" tbg f/warehouse, plus 12 jts transferred f/Schlosser #8E. TIH w/ 3-7/8" bit & csg scraper. Tagged DV tool @ 1981' & drld up. Fin TIH, tag up @ 6210'. CO to 6254'. Circ hole. POH. RU D-A. TIH to run CBL. Couldn't get any deeper than 2200'. TIH w/2-3/8" EUE tbg to 6254'. Circ hole w/2% KCl wtr. POH. Ran CBL w/var dens & GR correl log. Loggers found TD 6278'. Re-checked tbg tally, found tally error. Set CIBP @ 6260'.

5/21/80 6282 TD - Prep to swb & tst. TIH w/199 jts tbg OE to 6250'. Dmpd 5 gals 20/40 sd slurry dn tbg. Press tstd csg to 4000#, held OK f/5 min. PU tbg to 6246'. Sptd 100 gals Dowell 15% MSR. POH. Perf'd Dakota 6151', 53', 55', 56', 58', 6208', 10', 14', 17', 19', 21', 23', 26', 28', 30', 32', 35', 37' (18 holes). Meas D-A CBL 5/19/80 correl'd to Sch CNL/FDC. TIH w/Bkr retriev pkr on 191 jts 2-3/8" tbg, set @ 6006'. Brk fm w/100 gals spt acid. Trtd w/1500 gals 15% MSR - 4 BPM @ 2800#. Completely balled off @ 26 bbls. Held 4000# f/10 min. Csg-tbg communicated (pkr leaked). Surged tbg. Displ'd 10 bbls acid, 3 BPM @ 1500#. ISIP 600#. SI. Ran swb. IFL @ surf. Swb tbg dry. Rec'd 24 BF - no shows. Attempted TIH w/pkr to knock off balls. Pkr wouldn't go dn. POH. Lower slips & 2 rubbers off pkr. TIH w/ 3-7/8" bit & csg scraper to 6250' to knock off ball sealers. POH. TIH w/bull plug, perf nple, Bkr retriev pkr, 1 jt tbg, Bkr Mod "F" SN, 194 jts tbg & landed @ 6246'. Removed BOP. Instl'd Xmas tree. Made 1 run w/swb. IFL @ 3800'.

5/22/80 6282 TD - Prep to rel pkr, POH & frac Dakota. Made 3 runs w/swb. Swb FL dn to 6100'. Rec'd 9 BLW - no show. Swb f/6100'. FL @ 5800'. Rec'd 1 BLW/hr = 23 bbls rec'd - no shows. Total load rec'd = 86 bbls. Load rec'd last 24 hrs = 32 bbls. Load yet to recover = 54 bbls.

5/23/80 6282 TD - Prep to frac. Ran swb to 6100'. FL @ 5500'. Made 3 runs. Rec'd 3 BLW. Unseated pkr, pld tbg up to 3000'. MI 5 frac tks. Fill frac tks w/fresh wtr.

5/24/80 6282 TD - Prep to TI w/tbg & CO after frac. RU Dowell & tst csg to 4000# - OK. Fin POH w/tbg & pkr. RU Go Int'l & ran base temp survey. Frac'd Dakota perfs w/ 72,000 gals 2% KCl wtr w/Dowell Strata Frac II containing 216,000# 20/40 sd: 11,000 gals pad, 30 BPM, 2700#; 8,000 gals, 1# (20/40), 30 BPM, 3200#; 9,000 gals, 2# sd/gal, 30 BPM, 2400#; 9,000 gals, 3# sd/gal, 30 BPM, 2000#; 9,000 gals, 4# sd/gal, 30 BPM, 2000#; 9,000 gals, 5# sd/gal, 30 BPM, 2000#; 9,000 gals, 6# sd/gal, 30 BPM, 1900#; 9,000 gals, 7# sd/gal, 30 BPM, 1850#; 4,000 gals flush, 31 BPM, 2175#. ISI 1300#, 5 min SIP 1300#, 10 min SIP 1200#. JC 2:00 pm. Run temp surveys - 1st 1 hr after, 2nd 2 hrs after, 3rd 3 hrs after frac. 10 hrs WO gel to brk. CP 175#. Opn well on 18/64" chk - unloading to pit & died in 3 hrs.

5/25/80	6282	TD - Cont swbg. TIH w/199 jts 2-3/8" EUE tbg w/Bkr "F" nple (1.81 ID) 1 jt above btm. Tagged @ 6244'. Attempt to circ - lost 100 BW would not circ. Lande tbg w/194 jts 6094' set @ 6108' RKB w/Bkr "F" nple @ 6075'. ND BOP & NU tree. Swbg 19 hrs - FL 1800' @ strt. FL now 2500'. Swbg f/5500'. Rec'd 326 BLW w/ show oil & gas. CP 425#. Total load 1838 bbls. Load to recover 1512 bbls.
5/26/80	6282	TD - Prep to cont flw & swbg to pit. Swbg 11 hrs, rec'd 156 BLW. CP incr'd f/425# to 725#. Well kicked off flwg. 3 hrs flwg, rec'd 30 bbl = 5% oil & 95% wtr. CP 700#. Well died. Made 1 swb run. Flwg rec'd 91 bbl load (5% oil 95% wtr). CP decr'd f/725# to 525#. Load rec'd last 24 hrs - 377 bbls. Total load rec'd 713 bbls. Yet to recover 1135 bbls.
5/27/80	6282	TD - Prep to install 3/4" chk & try well against chk. Flw to tk thru full 2" opng. CP decr'd 500# to 350#. Rec'd 117 bbls load (5% oil & 95% wtr). Last hr rec'd 3.8 bbls. Total load rec'd 117 bbls. Total cum load rec'd 830 bbls. Load yet to recover 1018 bbls.
5/28/80	6282	TD - SI f/7 day bld up. 24 hrs flwd on 3/4" chk, rec'd 80 BF - 90% load wtr, 10% oil. Last hr rec'd 1.9 BF, TP 50#, CP 275#. Total load rec'd 910 bbls, load yet to recover 938 bbls, gas meas 900 MCFD, chk nple formula. SI 6:00 am 5/28/80 f/bld up. RR 6:00 am 5/28/80, moving to Krause WN Fed. #1E.
/29-6/10/80	6282	TD - SI f/press bld up.
6/11/80	6282	TD - SI f/press bld up. (Drop f/report until tstd)
6/26/80	6282	TD - COMPLETED SI GAS WELL, 6/25/80, Dakota fm. 11 day SITP 777#, SICP 774#; FTP 218#, FCP 474#. Flwd @ gas rate of 770 MCFD, 198 BOPD & 22 BWPD (frac) f/Dakota perfs 6151-6237' on 48/64" chk. 30 min build up TP 531#, CP 635#. Oil gvty 43.0° API @ 60° F. LPP 6237'.