Form 3160-4 (November 1983) (formerly 9-330)

IT IN DUPL

Budget Bureau No. 1004-0137 31, 1985

OF LED STATES	Expires August
PARTMÈNT OF THE INTERIOR	structions on this DEBIGNATION

AND SERIAL NO DE BUREAU OF LAND MANAGEMENT SF-080472-A 6 IF INDIAN. ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* IN TYPE OF WELL: INIT AGREEMENT NAME WRLL S Recomplete in Gallup & Comminale b. TYPE OF COMPLETION: w/Dak. prod. STARM OR LEASE SAME DEFEN: WORK | RESUR Other ___ 2. NAME OF OPERATOR ARCO Oil and Gas Company, Div. of Tonkin 9 WELL NO. Atlantic Richfield Company 3 3. ADDRESS OF OPERATOR 707 - 17th Street, P. O. Box 5540, Denver, Colorada Boci EIVED 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface SW SW, 890' FSL & 700' FWL (JAN 28) N.Lindrith-Gallup/Dak. 11. MEC. T., R., M., OR BLOCK AND SURVEY OR AREA At top prod. interval reported below Appx. same API #30-039-21959 Sec. 17-24N-3W Appx. same At total depth 12. COUNTY OR DATE ISSUED PARISH 2/17/84 Rio Arriba Mr. Millenbach 1 19. ELEV. CASINGHEAD 16. DATE T.D. REACHED | 17. DATE COMPL. (Ready to prod.) | 18. ELEVATIONS (DF. RKB. RT. GR. ETC.)* 15. DATE EPUDDED GR; 6947' KB 6933' 12-4-18 6933' 1-9-85 (Recompl.) CABLE TOOLS 22. IF MULTIPLE COMPL., HOW MANY ROTARY TOOLS 21. PLUG. BACK T.D., MD & TVD 20. TOTAL DEPTH. MD & TVD DRILLED BY 7559' (CIBP) See Below WAS DIRECTIONAL 25 24. PRODUCING INTERVAL(8). OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD) SUBVET MADE 6295-6414'OA. Dakota perfs, 7262-7492'(Prior to Recompl.); Added Lower Gallup perfs, 6450-6504'; Added Upper Gallup perfs, 27. WAS WELL CORED 26. TYPE ELECTRIC AND OTHER LOGS RUN No. CBL (6822-6190') CASING RECORD (Report all strings set in well) [25] CESTENTINU RECORD AMOUNT PULLED DEPTH SET (MD) 1601. B 148 WRIGHT, LB./FT. CASING SIZE (No Change) MAR 1 8 1985 TUBING RECORD LINER RECORD 29 3 512E SCREEN (DUST PACKER SET (MD) DEPTH SET (MD) SACES CEMENTS BOTTOM (MD) TOP (MD) 7269' 2-3/8" (No change-none) ACID. SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 31. PERPORATION RECORD (Interval, size and number)
Added Lower Gallup perfs: 6450-6504' AMOUNT AND KIND OF MATERIAL USED PEPTH INTERVAL (MD) (1 shot/2 ft); Added Upper Gallup perf 100 gals 15% HCl;1000 gals 6450-6504' 6295-6357'(1 shot/4 ft);6358-6370'(1 400 gals wtr 15% HC1;60 shot/ft); 6371-6414'(1 shot/4 ft) 6295-6357' תמ ו 6295-6414 414 qal PRODUCTION WELL STATUS (Producing or PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) DATE FIRST PRODUCTION Prod. Pump - 1-1/2" insert 9-7-84 GAS-NCF. WATER-BBL. GAB-OIL BATIO OIL-BBL. CHOES SIZE HOURS TESTED DATE OF THET 2425:1 40 Adjustable. 114 1-9-85 24 47 OIL GRAVITY-API (CORR.) WATER--HEL GAS-MCF CASING PRESSURE 42.5° @ 60° F 24-HOUR BATE (140# line press.) 114 40 TEST WITHESED 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) AFREPTED FOR RECORD To be sold 35. LIST OF ATTACMMENTS (See attached daily report for details of Recompletion) 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available pecoficily BOLTITLE Dist. Prod. Supt. FARMINGTON RESUURCE AREA SIGNED _ *(See Instructions and Spaces for Additional Data on Reverse Sid¥)

Fittle 18 U.S.C. Section 1901, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

2 23/55

J.E Taylor

Instructions: Prepare and submit the "Initial Report" on the first Wednesday after a well is spudded or workover operations are started.

Daily work prior to spudding should be summarized on the form giving inclusive dates only. Prop.Code: 69-45015 County or Parish State District New Mexico Rio Arriba Rocky Mtn. Well no. Lease or Unit Field West Lindrith-Gallup/Dakota Tonkin Recompl. to Gallup & Commingle w/Dakota Prod. AFE #639761 API#30-039-21959 A.R.Co's W.I. 100% ARCO Oil and Gas Company Prior status if a W.O. Spudded or W.O. begun Dakota prod. Recompl., 8/16/84 8/16/84 Date and depth as of 8:00 a.m. Complete record for each day reported ACCC West Lindrith, AFE#639761, Action WS #7 TONKIN \$3 APL #30-039-21959. Loc: 890' FSL & 700' FWL, Sec. 17-24N-3W, Rio Arriba Co., New Mexico. Prop Code: 69-45015. Elev: 6933' GL. ARCO Lee #5-NM-4, Fed Lee #SF-080472-A. Previously completed as a Dakota Oil Well in 1978 (Perfs: 7262-7492'OA). Objective: Blk sqz Gallup, frac, tst, recomplete in Gallup & Dakota. (5-1/2* @ 7634')PBD: 7577* - Prep to kill well. TD: 7675" ME WE SELECTION Repair road to loc. MI frac the & 2% KCl wtr. MI misc equip. Elledge (AFE \$176M) (Recompletion) (AC \$3M) TD: 7675' PBD: 6822' - Prep to perf Gallup. Killed well w/90 bbl 2% KCl dwn tbg. NU BOPs. POH w/2-3/8" tbg. RIw/4-3/4" bit & scrpr, tag fill @ 7559', 18' fill. POH. Set CIBP @ 6822'. 8/20 Ran CBL @ 6822'-6100' w & w/o 1100# - good bond across Gallup. Pmp 5 gal snd on top CIBP. SDFN & Sunday. Elledge (AC \$15M) (AFE \$176M) (Recompletion) (5-1/2" @ 7634') PBD: 6822' - Prep to POH w/pkr TD: 7675' 8/21 2% KCl wtr RIH $\text{w/OE}\ 2-3/8"$ tbg to 6575', chingover to 2% KCL. Tst csg 3500#. Perf lwr Gallup 6450-6504' 1 sht/2 ft. RIH w/Retrievamatic pkr to 6363', spot 100 gal 15% HCl, set pkr. Acid lwr Gallup w/1000 gal 15% HCL + add using 42 ball sealers. Strt pmpg - no brkdwn. Before acid hit perfs - 4 BPM 3 2200#. After acid hit perfs - 3 BPM @ 1200# increasing to 3000# w/good ball action. Balled out @ 3000# w/7 bbls acid in tbg. Surged off balls & disp remaining acid - 2-1/2 BPM @ 1100#. ISI 350#. Rel'd pkr, RIH to 6575' to knock off balls. POH 11 std & SDFN. Elledge (AFE \$176M) (Recompletion) (AC \$24M) 8h2 8 (5-1/2" @ 7634') PBD: 6822' - Prep to tag fill Fin POH w/pkr. Frac lwr Gallup 6450'-6504' w/1% KCl wtr & 20-40 sd as foll: 13,000 gal pad, 5800 gal 0.5 ppg, 10,000 gal 1.0 ppg, 16,000 gal 1.5 ppg, 9000 gal 2.0 ppg, 6600 gal flush. Max 1600 psi, min 1180 psi, avg 1310 psi. Avg rate 42 BPM. ISIP 510 psi dropping to 410 psi after 15 mins. Total load to rec - 1445 bbls. SIFN. (AFE \$176M) (Recompletion) (Total of 54,900 \$20-40 Sd.) Elledge (AC \$51M) TD: 7675' PBD: 6822' - Prep to perf upper Gallup (5-1/2" @ 7634') 8/23 Lwr Gallup SICP @ AM was 125 psi & flwd back 50 bbl load wtr in 2 hrs. No show of oil. TIH w/notched collar, tagged top of fill (sand) @ 6620' & ∞ to CIBP @ 6822'. Lost approx 120 BW into fmt. TOH & SDFN. Total load to be

rec'd in this zone 1567 BF.

(AC S54M)

(AFE \$176M) (Recompletion)

Elledge

TD: 7675' PBD: 6822' - RIH w/pkr (5-1/2" @ 7634') SICP 75 psi, bled off - no fluid. Perf Upr Gallup 6295-6357' 1 shot/4 ft, 6358-6370' 2 spf, 6371-6414' 1 shot/4 ft. No well response after shooting, FL @ 360'. Set retrievable BP @ 6440'. Dmp 5 gal snd dwn csg. RIH w/retrievamatic pkr. SDFN. Elledge (AC \$60M) (AFE \$176M) (Recompletion) PBD: 6822' - Prep to CO to lwr CIBP @ 6822'. 8/25-8/27 10 TD: 7675' 7634') Lwr'd tbg & tagged sd @ 6435'. Set pkr @ 6430'. Tstd BP to 2900 psi. Rel'd & moved pkr to 6395' & sptd 100 gal, 15% HCl f/6295-6293'. Set pkr @ 6145'. RU Nowsco & acidized w/2000 gal 15% HCl w/add & 80 ball sealers. Pmpd @ 5.7 BPM @ 2000 psi. Gd ball action & balled off to 3000 psi w/7 bbl acid left in tbg. Surged balls & put acid away @ 5 BPM, 1500 psi. ISIP 600 psi. Total load 78 bbls. Rel'd pkr & lwr'd to 6424'. POH w/pkr. Frac'd upper Gallup perfs (6295-6414') w/136,414 gal, 20# gelled 18 KCl H2O w/add & 132,382# 20/40 sd. Ran out of H_2O w/2#/gal going dn hole - bbl counter reading 20% less than being pmpd. Sd in perfs 121,382#. Total load 3,248 bbls. Avg inj 45 BPM, avg TP 1200 psi, ISIP 360 psi, 15 min SI 300 psi. Total load f/both zones 4893 bbls. SION. RIH w/retr hd & 118 jts tbg (3693'). Tagged soft sd fill @ 3960'. Rev circ to CO. Bridges to 5640', solid sd f/5640-6440'. Latched onto top of retr BP @ 6440' & TOH. SD f/Sunday. Elledge (AC \$105M) (AFE \$176M) (Recompletion) TD: 7675' PBD: 6822' - No report. (5-1/2" @ 7634') (AC \$117M) (AFE \$176M) (Recompletion) Elledge $_{12}$ TD: 7675' PBD: 6802' - Prep to land thg & swab (5-1/2" @ 7634') SICP & SITP @ 0 psi in a.m. & FL @ surf. Made 18 swb runs in 9 hrs & rec'd 246 bbls load wtr. Final FL @ 1000'. 4591 bbls load wtr yet to recover. Lwr'd tbg & tagged sand @ 6802'. PU to 6200' & SDFN. (AC \$119M) (AFE \$176M) (Recompletion) Elledge TD: 7675' PBD: 6802' - Swabbing. (5-1/2" @ 7634') 8/30

8/31

TD: 7675' PBD: 6802' - Swabbing. (5-1/2" @ 7634')

Ran swb - FL # 1300'. Made 39 runs in 9-1/2 hrs. Rec'd 205 bbl load wtr.

No oil ro gas & no snd. Final FL @ 2300'. Final CP = 0 psi. 4294 bbls load yet to rec. SI & SDON.

(AC \$123M) (AFE \$176M) (Recompletion) Elledge

TD: 7675' PBD: 6802' - Prep to run pmp & rods (5-1/2" @ 7634')

SICP & SI TP = 0. FL @ 1900'. Made 38 runs in 10 hrs. Rec 210 bbls load

wtr & 10 bbls oil, final FL @ 3300'. Last 3 hrs runs slightly gassy. Final

CP = 0. Final oil cut 4%. 4084 bbls yet to recover. SDFN. SICP = 75 psi,

SITP = 100 psi. Bled tbg - no flw. Ran swab, init FL @ 2600'. Made 31 runs

in 10 hr, rec 10 bbls oil, 170 bbls wtr. Final FL @ 3800'. Final CP 100

psi. All runs gas cut. Final oil cut 8% w/5% avg f/day. 3914 bbls load to

recover. SDFS & holiday. Turned over to production dept.

(AC \$126M) (AFE \$176M) (Recompletion)

Elledge

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TD: 7675' PBD: 6802' - Prep to run rods (5-1/2" @ 7634')
  9/5
                Set progrunit.
                (AC $126M) (AFE $176M) (Recompletion)
                                                                               Elledge
                 TD: 7675' PBD: 6802' - Running rods (5-1/2" @ 7634')
  9/6
                 MI RU Flint wrkovr rig. Chng out tbghd. PU 16' x 2" x 1-1/2" Harveston
                  Fisher pmp. Run 141 3/4" x 25' rods. SDFN.
                  (AC $126M) (AFE $176M) (Recompletion)
                                                                                 Wright
                TD: 7675' PBD: 6802' Pmpg well (5-1/2" @ 7634')
  9/7
                Fin running 3/4" x 7/8" rods. Spaced out pmp. Began pmpg @ 1730 hrs,
                9/6/84 w/8-74" strokes/min.
                (AC $126M) (AFE $176M) (Recompletion)
                                                                                Wright
                 TD: 7675' PBD: 6802' - Pmpg well
                                                      (5-1/2" @ 7634')
 918 - 9/10
                 Pmpd 46 BO, 320 BW, 0 gas, over three-day period. 3594 bbls loaded wtr to
                 recover assuming 320 BW as loaded wtr.
                  (AC $126M) (AFE $176M) (Recompletion)
                                                                                 Wright
                 TD: 7675 PBD: 6802' - Pmpg well (5-1/2" @ 7634')
 9/11
                 Pmpd 24 BO, 80 BW, no tst on gas (WO orifice plate). 3514 BLW to recover
                 assuming 80 BW as load wtr.
                 (AC $126M) (AFE $176M) (Recompletion)
                                                                                Wright
                            PBD: 6802' - Pmpg well (5-1/2" @ 7634')
                 TD: 7675'
 9/12
                 Pmpd 20 BO, 80 BW, 30 MCF gas. 3434 bbls to recover assuming 80 bbls as
                 load wtr.
                 (AC $126M) (AFE $176M) (Recompletion)
                                                                                Wright
                 TD: 7675'
                            PBD: 6802' - Pmpg well
                                                         (5-1/2" @ 7634')
9/13
                 Pmpd 18 BO, 60 BW, 30 MCF gas. 3374 bbls to recover assuming 60 BW was
                 LW.
                 (AC $140M) (AFE $176M) (Recompletion)
                                                                                   Wright
                  TD: 7675'
                             PBD: 6802' - Pmpg well
                                                        (5-1/2" @ 7634')
9/14
                  Pmpd 10 BO. 43 BW. 35 MCF gas. 3331 bbls to recover assuming 43 BW was
                  LW.
                  (AC $140M) (AFE $176M) (Recompletion)
                                                                                    Wright
               TD: 7675' PBD: 6802' - Pmpg well
                                                       (5-1/2" @ 7634')
 9/15- 9/17
               Over 3-day period, pmpd 33 BO, 208 BW, 135 MCF gas. 3123 BLW to recover
               assuming 208 BW was LW.
               (AC $140M) (AFE $176M) (Recompletion)
                                                                                 Wright
                 TD: 7675' PBD: 6802' - Pmpq well
                                                      (5-1/2" @ 7634')
 9/18
                 Pmpd 13 BO, 70 BW, 45 MCF gas. 3053 BLW to recover assuming 70 BW was LW.
                 (AC $140M) (AFE $176M) (Recompletion)
                                                                                   Wright
                 TD: 7675' PBD: 6802' - Pmpg well
  9/19
                                                        (5-1/2" @ 7634')
                 Pmpd 10 BO, 48 BW, 57 MCF gas. 3005 BLW to recover assuming 48 BW was LW.
                 (AC $140M) (AFE $176M) (Recompletion)
                                                                                   Wright
              TD: 7675'
                         PBD: 6802' - Pmpg well
                                                    (5-1/2" @ 7634')
9/20
              Pmpd 5 BO, 20 BW, 60 MCF (est) gas. 2985 BLW to recover assuming 20 BW was
              LW. Low prod because El Paso SI wells to wrk on gathering lines.
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Wright

(AC \$140M) (AFE \$176M) (Recompletion)

9/21	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 3 BO, 20 BW, 65 MCF (est) gas. 2965 BLW to recover assuming 20 BW was LW. El Paso still wrkg on gathering lines.
	(AC \$140M) (AFE \$176M) (Recompletion) Wright
9/22-9/24	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 23 BO, 46 BW, 99 MCF gas over 3 day period. 2919 BLW to recover assuming 46 BW was LW. (AC \$140M) (AFE \$176M) (Recompletion) Wright
9/25	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 5 BO, 12 BW, 26 MCF gas, 2907 BLW to recover assuming 12 BW was LW. Fan belt brk - only a partial day pmpg. (AC \$140M) (AFE \$176M) (Recompletion) Wright
9/2.6	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 0 BO, 0 BW, 16 MCF gas. Well was on all day f/engine repairs. 2907 BIW to recover. (AC \$140M) (AFE \$176M) (Recompletion) Wright
9/27	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 15 BO, 8 BW, 16 MCF gas, 2899 BLW to recover. Well put back on @ 1500 hrs 9/26/84. (AC \$140M) (AFE \$176M) (Recompletion) Wright
9/28	TD: 7675' PBD: 6802' - Pmpg well (5-1/2" @ 7634') Pmpd 19 BO. 15 BW. 20 MCF gas. 2884 BLW to recover assuming 15 BW is LW. (AC \$140M) (AFE \$176M) (Recompletion) Wright
9/29 - 10/1	TD: 7675' PBD: 6802' - Pmpg Well. (5-1/2" @ 7634') Pmpd 33 BO, 40 BW, 51 MCF day twent three-day period. 2844 BLW to recover assuming 40 BW is IW. (Are f/report until final prod tet received.) (AC \$140M) (AFE \$176M) (Recompletion) Wright

(Contid.) - next page

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TD: 7675' PBD: 6802' - Prep to CO parrafin.
12/26/83
                  MI RU CU 12/26/84 w/pmp & mud tk. Pull rods & pmp. PU parr knife on SL &
                    run to 1100'. SDON.
                    (AC $143M)
                                  (AFE $176M)
                                               (Recompletion)
                                                                                         Wright
                   TD: 7675' PBD: 6802' - Prep to mill out BP.
                   Ran parrafin knife on rods to 3150'. POH. Run parrafin knife on sd line to
12/27
                   2450'. POH. Kill well. NU BOPs. TOH w/ 2-3/8" tbg. SDON.
                   (AC $145M)
                                (AFE $176M)
                                               (Recompletion)
                                                                                       Wright
                              PBD: 6802' - Prep to mill out BP.
                   TD: 7675'
                   Ran parrafin knife on rods to 3150'. POH. Run parrafin knife on sd line to
12/28
              3
                    2450'. POH. Kill well. NU BOPs. TOH w/ 2-3/8" tbg. SDON.
                    (AC $145M)
                                  (AFE $176M)
                                              (Recompletion)
                                                                                        Wright
                              PBD: 7559' - Cont RIH w/rods.
                    TD: 7675'
                    PU Bkr mill & jk bskt. RIH & tag BP @ 6802'. RU pwr swivel & pmpd 238 bbl
                   KCl wtr w/o circ. Found 20' sd on CIBP. Milled pkr loose & pmpd 160 bbls
                    KCl wtr w/o ad returns. POH. MU saw tooth clr on 2-3/8" tbg & RIH to
                    6800'. Rev'd 80 bbls KCl wtr into tbg. Pushed CIBP to 7559'. POH. PU Ekr
                    TAC and 4' perf sub & TIH to 7269'. ND BOPs & set TAC w/10M# tension. Tog
                    set on donut. NU wellhd. PU 16' x 1-1/2" x 2" pmp & RIH on ten (10) 25',
                    3/4" rods. SDFN.
                    (AC $152M)
                                  (AFE $176M)
                                              (Recompletion)
                                                                                        Wright
                    TD: 7675'
                                PBD: 7559' - Pmpg well.
1/1-2/85
                 Fan 184 3/4" rods, 95 7/8" rods, 1 7/8" pony rod & 1 1-1/4" polished
                    rod. Rel'd & RD Bayless WS. Commenced pmpg well. Made 62 BW, 0 BO in 18
                    hrs.
                    (AC $153M)
                                  (AFE $176M)
                                                  (Recompletion)
                                                                                         Wright
                    TD: 7675' PBD: 7559' - Pmpg well.
                    Prod'd 5 BQ, 67 BW & 26 MCF gas in 24 hr period.
                                                                                        Wright
                                  (AFE $176M)
                                               (Recompletion)
                    (AC $154M)
                     TD: 7675' PBD: 7559' - Pmpg well.
                     Prod'd 23 BO, 40 BW & 32 MCF gas in 19 hrs. Dn 5 hrs du to frozen fuel gas
                     line.
                     (AC $154M)
                                   (AFE $176M)
                                                  (Recompletion)
                                                                                         Wright
                    TD: 7675 PBD: 7559 - Pmpg well.
1/5-7
                     Prod'd 96-BC; 158 BW & 277 MCF gas over 3-day period.
                     (AC $154M)
                                 (AFE $176M) (Recompletion)
                                                                                         Wright
                     TD: 7675' PBD: 7559' - Pmpg well.
                     Prod'd 47 BO, 25 BW & 92 MCF gas over last 24 hrs.
                                                                                          Wright
                      (AC $154M) (AFE $176M) (Recompletion)
                            (PBD 75591)
                 7675' TD./AFE #639761. FINAL REPORT - COMPLETED PMPG OIL WELL (RECOMPLETION) 1/9/85. Prod'd 47 BO, 40 BW & 114 MCF gas f/24 hrs. Perfs: Dakota
                 7262-7492', Lwr Gallup 6450-6504', Upper Gallup 6295-6414'. LPP
                 7492'. (Est. oil gvty. 42.50 @ 600 F.)
                                                                                         Wright
                                 (AFE $176M) (Recompletion)
                     (AC $154M)
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