

Field	Horseshoe Gallup		Lease or Unit	Horseshoe Gallup		Well no.	291
Auth. or W.O. no.	337439 & 337447		Title	Drill & Equip.		API #30-045-22102	
Loc.: 50' FNL & 50' FEL Section 23-31N-17W							
Operator	Atlantic Richfield Company					A.R.Co's W.I.	47.0321
Spudded or W.O. begun	Spudded		Date	7/16/76	Hour	5:30 a.m.	
Date and depth as of 8:00 a.m.		Complete record for each day reported					
7/16/76	12	Drlg surf. Spud 5:30 a.m. 7/16/76. Lse # NM 765 et al, 47.0321% W.I. Axtex Well Servicing Co. - Contr. \$ 2,150					
7/17/76	143	WOC, prep to nip up. 1/4" @ 143'. Drld 12-1/4" hole to 143'. Ran 3 jts, 128.24' 8-5/8" OD 24# K-55 N csg, set @ 141.24' KB, cmtd w/120 sx Class "B" w/2% CaCl2, PD 5:15 p.m. 7/16/76. Gd cmt circ. 2 centralizers. \$ 6,082					
7/18/76	655	Drlg sh. 7-7/8" hole. Mud 8.5#, 29 vis, 70 RPM, 27M#. B#3, Smith, DTJ, nip'd up, instl'd BOP. Tstd csg & BOP @ 650# f/30 min, held OK. Tag cmt @ 98', started drlg cmt 3 p.m. 7/17/76. \$ 10,624					
7/19/76	1255	Fishing bit & 16 DC. 1/4" @ 650', 1-1/4" @ 950'. Twisted off on pin of 1st DC. Ran overshot on DP, did not catch fish, pld out. Prep to chg grapple. B#3, Smit DTJ, 98-1113', 1015' in 24 hrs. B#4, Smith, DTJ, 1113-1255', 142', in hole. \$ 15,682					
7/20/76	1625	Logging. 1/2" @ 1250'. Mud 9.1#, 35 vis. Ran overshot w/4-3/4" grapple, caught fish on 4th run, POH, removed DC, ran in. OB & started drlg 2 p.m. 7/19. TD @ 2:30 a.m. 7/20. Cond'd hole & POH to log. B#4, Smith, DTJ, 1113-1625', 512'. \$ 19,468					
7/21/76	1625	TD - WOC. Prep tear dn & MORT. Ran IES w/GR f/TD-surf csg, WLTD 1632'. LD DP. Ran 51 jts, 1615', 5-1/2" OD 14# K-55 ST&C SH csg, set @ 1625'KB, cmtd w/150 sx B-J Light w/10# gilsonite/sx followed w/75 sx Class "B", PD 6:30 p.m. Set csg in OCT C-16 hanger. 4 centralizers, 7 scrat'rs. Rig rel 7:30 p.m. 7/20/76. \$ 30,593					
7/22/76	1625	TD - WOC. MORT & clean loc. Tops: Upper Gallup 1451', Lower Gallup 1553' \$30,793					
7/23/76	1625	TD - WOC					
7/24/76	1625	TD - WO compln unit \$ 30,793					
7/25/76	1625	TD - WO compln unit					
7/26/76	1625	TD - WO compln unit					
7/27/76	1625	TD - Prep to MI compln unit, Farmington Well Service					
7/28/76	1625	TD - Filling frac tanks. MI & RU Farmington Well Service, PU & ran 2-7/8" OD EUE tbg to 1596' PBTD. Displ hole w/1% D-600 plt inj wtr. Swbd dn to 1000'. POH w/tbg. RU Blue jet, ran GR-collar correl log. Perf Lower Gallup w/4" carrier gun, 2 shots per ft, 1555-63', IES meas. SDON. \$ 34,693					
7/29/76	1596	PB - Prep to frac. Filled frac tanks. \$ 35,093					
7/30/76	1596	PB - Prep to swab. RU Western Company. Frac Lower Gallup perfs 1555-63'; 2000 gal Pad, 4000 gal w/ 1/2# 20-40 sd/gal, 6000 gal w/1# 20-40 sd/gal, 28000 gal w/2# 20-40 sd/gal, 1100 gal flush. Frac fluid: injection plt wtr w/20# Guar Gum & 25# silica flour per 1000 gal. Pad contained 110 gal S-235 scale inhibitor. Flush w/inj plt wtr. MP 1200#, min 600#, avg 650#, AIR 20 BPM, ISD 400#, 15 min 400#. Job comp 12:50 p.m. 7/29. Started back flw 2:15 p.m. Flwd 473 BLW in 3-1/2 hrs, tr oil. Left open O'nite \$ 43,009					
7/31/76	1596	PB - Swbng. CO 50' sd w/sd pump. Ran 2-7/8" tbg w/seating nipple @ 1585'. Swbd 45 BLW in 2 hrs, sli show of oil, vy sml amt gas. -469 BLW. SDON. \$ 43,708					
8/01/76	1596	PB - SD a/c Sunday. Swbd 110 BF in 9 hrs, FL 1300', plg f/1585'. Last 7 hrs. swbd 14 BO & 72 BLW, 16% oil. -359 BL. \$ 44,378					
8/02/76	1596	PB - SD a/c Sunday. Prep to run rods & pump \$ 44,378					
8/03/76	1596	PB - Instl'g PE, working on elec. Pld tbg. CO 5' sd w/sd pump. Ran 50 jts 2-7/8" OD EUE 6.5# J-55 tbg & SN, landed tbg 1585'. Ran 2" bore RWAC pmp, 5/8 rods, seated pmp, clamped off. Moved unit to Well #292 \$ 46,703					
8/04/76	1596	PB - Conn'g elec. Started flw line ditch. Set pmpg unit. \$ 48,053					
8/05/76	1596	PB - Pmpg f/test. Working on flw line. Conn'd to frac tank, on pmp 12:20 p.m. 8/4/76. Pmpd 25 BO & 260 BLW in 19 hrs, L Gallup perfs 1555-1563'. Total load 987 bbl, have rec'd 888 BW & 39 BO, -60 BL. \$ 49,353					
8/06/76	1596	PB - COMPLETED OIL WELL 8/6/76. Pmpd 53 BO & 328 BW in 24 hrs f/Lower Gallup perfs 1555-1563', 2" bore RWAC pump, 14 - 64" SPM. \$ 54,133 (incl P & R).					