

WELL SUMMARY REPORT (Submit in duplicate)

Operator: American Quasar Petroleum Co. Field: Wildcat Well No.: WOLVERTON 13-31 Sec. 13, T. 10S, R. 3W, Marion County, W. B. & M. Location: 1800' FEL, 1100' FNL, NW1/4 NE1/4 Elevation above sea level: 233.3 feet

All depth measurements taken from top of Kelly bushing, which is 10.6 feet above ground. In compliance with the rules and regulations pursuant to ORS 520 (Chapter 667 OL 1953) the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Date: February 7, 1984 Signed: John F. Works, Division Drilling Coordinator (President, Secretary or Agent)

Engineer or Geologist: Superintendent: Title: John F. Works, Division Drilling Coordinator

Commenced drilling: 8/26/81 Completed drilling: 9/27/81 Drilling tools: Rotary Total depth: 4555' Plugged depth: GEOLOGICAL MARKERS DEPTH

Junk: Eugene 1900' Spencer 3438'

RECEIVED-PTL FEB 27 1984

Commenced producing: P&A Date: Flowing/gas lift/pumping (cross out unnecessary words)

Table with 6 columns: Clean oil bbl. per day, Gravity Clean oil, Percent water including emulsion, Gas Mcf. per day, Tubing Pressure, Casing Pressure

Initial production: Production after 30 days

CASING RECORD (Present Hole)

Table with 10 columns: Size of casing (A.P.L.), Depth of shoe, Top of casing, Weight of casing, New or second-hand, Seamless or Lapweld, Grade of casing, Size of hole drilled, No. of sacks of cement, Depth of cementing if through perforations

PERFORATIONS

Table with 7 columns: Size of casing, From, To, Size of perforations, Number of rows, Distance between centers, Method of perforations

Electrical Log Depth: 4552-895' (Attach Copy of Log)

WOLVERTON 13-31 AMERICAN QUASAR PETROLEUM 1800' FEL 1100' FNL, NW1/4 NE1/4 Sec. 13, T10S-R3W Marion County, OR Elev: 233.28' GR KB 243.78' Drlg Contr: Graham Rig #1

WOLVERTON 13-31 (3600' Spencer-WC) 8/26/81 FIRST REPORT. 1 day. Drlg volcanics @ 120'. Ran bit #1 (121" Smith B1J s/n MM163) in @ 54', bit has drld 66' in 5 1/2 hrs. Moved in & RU Graham Rig #1. Spud @ 12:30 am 8/26/81. Ran 4 1/2" of 121" conductor, set w/4 yds Ready-mix. Drlg wt 5M#; RPM 80.

Staked location 1800' FEL & 1100' FNL, NW1/4 NE1/4 Sec. 13-T10S-R3W, Marion Co., Oregon. Ground Elevation 233.28', KB 243.78'.

WOLVERTON 13-31 (3600' Spencer-WC) 8/27/81 2 days. TD 523', drld 403' of volcanics, tuff & silt., making wiper trip. MW 9.1; vis 45; WL 10; pH 9.5. Survey: 1" @ 286'. Bit #1 has drld 483' in 23 1/2 hrs. Drlg wt 12M#; RPM 100.

WOLVERTON 13-31 (3600' Spencer-WC) 8/28/81 3 days. Circ, cond mud @ 897', drld 374' in 20 hrs. MW 9.1; vis 65; WL 16; pH 10. Survey: 3/4" @ 641'. Pld bit #1 @ 648', bit drld 608' in 30 hrs. Dull grade: 4-4-1. Ran bit #2 (121" Smith D5J s/n S/N) in @ 648', bit has drld 249' in 13 1/2 hrs. Circ & cond mud due to clabbered cond. Drlg wt Est Cost: IDC \$59,850 (\$995 mud)

WOLVERTON 13-31 (3600' Spencer-WC) 8/29/81 4 days. TD 897'. NU 80PE. MW 9.2; vis 65; WL 10; pH 9.5. Circ & cond mud, TOH, RU csg crews, ran 21 jts 8-5/8 24# K55 STC w/shoe & insert float. Landed @ 895' KB, cmt w/ 245 sx Class 6 w/8% gel, 3% salt, followed by 150 sx Class 6, 2% CaCl2. Plgd down @ 11:30 am 8/28/81. WOC 12 hrs, NU 80PE, Now prep to press test.

WOLVERTON 13-31 (3600' Spencer-WC) 8/30/81 5 days. Trpg for bit @ 1500', drld 605' in 18 hrs. MW 9.4; vis 44; WL 7.2; pH 10. Survey: 3/4" @ 950'; 3" @ 1349'. Fin NU, press tstd to 1200 psi, TIH w/bit #3 (7-7/8" DTJ s/n BX3266) in @ 895', bit has drld 605' in 18 1/2 hrs. Tagged cmt @ 830', BGG incr from 1 to 30 units @ 1318', incr to 45 units, then declined to 8 units, incr to 55 units @ 1445', raised MW from 9.2 to 9.4 ppg, BGG declined. Now trp for bit #4.

WOLVERTON 13-31 (3600' Spencer-WC) 8/31/81 6 days. TD 1530', drld 30' of sd & sh in 1 hr. Hkg stuck pipe. MW 9.8; vis 50; WL 6; pH 10. Bit #4 has drld 30' in 1 hr. Found hole sloughing on TIH w/bit #4, raised wt to 9.8; circ & cond hole, hole clean, no problems, drld from 1500-1530', made connection, DP stuck, now WD free-point truck.

WOLVERTON 13-31 (3600' Spencer-WC) 9/1/81 7 days. TD 1530', WD back-off truck. MW 9.8; vis 50; WL 6; pH 10. WD McCullough back-off truck, truck blew engine before reaching location, now WD 2nd back-off truck.

WOLVERTON 13-31 (3600' Spencer-WC) 9/2/81 8 days. TD 1530', circ & cond. MW 10.5; vis 58; WL 4; pH 9.5. WD hireline truck, BU & freepoint, indicated bit DC stuck, 2nd dc partially stuck, RO @ 1483', left 2 6" DC's + bit in hole. TOH, make up fsg tools, TIH, hit bridge @ 1310', att to circ thru bridge w/o success, TOH, PU bit RR#3 (7-7/8" Smith DTJ s/n BX3266) TIH, hit bridge @ 1310', wsh & RM to 1349', shale still sloughing, raised MW to 10.2; rmd from 1310-1340', raised MW to 10.5 ppg, now circ & cond, att to clean out bridge.

WOLVERTON 13-31 (3600' Spencer-WC) 9/3/81 9 days. TD 1530', circ & cleaning out to top of fish. MW 12.4; vis 140; WL 5.6; pH 9. Wsh & RM from 1310-1330', raised MW to 12.4 ppg, TOH, PU bit #6 (7-7/8" Smith DTJ s/n BX3485) TIH, hit bridge @ 1310', raised vis to 140, wsh & RM from 1310-1419'. Shale has appeared to have stopped sloughing.

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WOLVERTON 13-31 (3600' Spencer-WC) 9/4/81 10 days. TD 1530'. Jarring on fish. MW 12.4; vis 185; WL 4.0; pH 9. WJR to top of fish @ 1438'. Circ & cond hole, Short tripped, WJR to top of fish, circ & cond hole, POH, PU jars, bumper sb, TIH, washed to top of fish, circ & cond, engage fish, attempt to jar fish loose, jars failed, POH, replaced Jars, TIH, Now jarring on fish. Est. Cost: IDC \$174,270 (mud-\$22,350) TOC \$ 13,470

WOLVERTON 13-31 (3600' Spencer-WC) 9/5/81 11 days. TD 1530', circ, WD Halliburton. MW 12.4; vis 185; WL 4; pH 9. Backed off fish, POH, PU WP, TIH, att to wsh over, could not get WD pipe over collars, cutting collar @ less than 1' per hr. POH, LD WP, TIH open-ended to top of fish @ 1438', circ & WD Halliburton.

WOLVERTON 13-31 (3600' Spencer-WC) 9/6/81 12 days. WOC. TD 1530', PBD 910', WD Halliburton, could not contact Halliburton, Halliburton did not show up. Called BJ out of Rio Vista, CA, WD BJ 11 hrs. Spot 200 sx class 6 plug, 2% CaCl2 from 1448-865'. POH, PU DC's & bit, TIH, wsh from 865-910', now WOC.

WOLVERTON 13-31 (3600' Spencer-WC) 9/7/81 13 days. WOC. PBD 1020', fin WD cmt, wshd from 925-1020', cmt is granular, is not set up. Now WOC.

WOLVERTON 13-31 (3600' Spencer-WC) 9/8/81 14 days. PBD 910', WOC. TIH w/Dyna-drill, att to kick off @ 1200', time drill w/o success, POH, LD tools, TIH open ended, set 150 sx class 6 plug w/3% CaCl2. POH, PU bit & DC's, TIH, top of cmt 855', wsh & RM to 910', now prep to TDH, PU Dyna-drill.

WOLVERTON 13-31 (3600' Spencer-WC) 9/9/81 15 days. TOH @ 1,023', drld 83' in 8 hrs. MW 11; vis 100; WL 5; pH 10. WOC, drld cmt from 880-940', TOH, WD cross-over sub, PU Dyna-drill, TIH w/bit #7 (7-7/8" Smith DTJ s/n BX3233) Drld from 940-1023', hole appears to have sidetracked, now TOH. Bit #7 drld 83' in 8 hrs. Drlg wt 10M#; RPM 300.

WOLVERTON 13-31 (3600' Spencer-WC) 9/10/81 16 days. Drlg silt. & cly @ 1590', drld 567' in 15 1/2 hrs. MW 11; vis 95; WL 5.6; pH 11. Survey: 4 1/2" @ 1437'; 2-3/4" @ 1570'. POH, LD Dyna-drill, PU bit, TIH, rmd kick-off, drld from 1023-1590', no problems. Drlg wt 16M#; RPM 95.

WOLVERTON 13-31 (3600' Spencer-WC) 9/11/81 17 days. Drlg volcanic cly & sand stringers & 1810', drld 220' in 14 1/2 hrs. MW 11.4; vis 95; WL 4.4; pH 9. Survey: 3" @ 1801'. Pld bit #8 @ 1699', bit drld 676' in 20-3/4 hrs. Dull grade: 6-4-1. Ran bit #9 (7-7/8" Smith DTJ s/n BX3194) in @ 1699', out @ 1801', bit drld 202' in 8 hrs. Dull grade: 3-4-1. Ran bit #10 (7-7/8" Smith DTJ s/n BX3290) in @ 1801', bit has drld 9' in 1 hr. BGG increased from 11-100 units @ 1633', drpd back to 50 units, increased to 90 units from 1638-45'. Drpd back, now carrying 3 units BGG. Drlg wt 16M#; RPM 90. Est. Cost: IDC \$265,350 (\$32,725 mud) TOC \$ 13,470

WOLVERTON 13-31 (3600' Spencer-WC) 9/12/81 18 days. Drlg volcanics, silt. & cly & interbedded ss @ 2032', drld 222' in 20 1/2 hrs. MW 11.6; vis 105; WL 4.1; pH 9. Survey: 3" @ 1837'. Bit #10 was pld @ 1837', bit drld 36' in 6 1/2 hrs. Dull grade: 6-4-1. Ran bit #11 (7-7/8" Smith F3 s/n AK8862) in @ 1837', bit has drld 195' in 16 hrs. BGG 6-10 units. Have had numerous BGG incr ranging from 33 units @ 1845 to 88 units @ 2010'. Drlg wt 16M#; RPM 60. 9/13/81 19 days. Hrg stuck drill string @ 2063', drld 31' in 1 1/2 hrs. MW 11.6; vis 105; WL 4; pH 9. Pld bit #11 @ 2032', bit drld 195' in 16 hrs. Ran bit #12 (7-7/8" Smith DTJ s/n BT 007) in @ 2032', bit has drld 31' in 1 1/2 hrs. TIH w/bit #12, rmd from 1685-1770', TIH, wshd 40' to btm, circ btms up, drld to 2063', start short trp, pld into tight spot @ 1972', now circ, wrkg stuck drill string, WD free-point truck.

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WOLVERTON 13-31 (3600' Spencer-WC) 9/14/81 20 days. TD 2063', PU fishy tools. MW 11.6; vis 105; WL 4; pH 8.5. Circ & wrkd stuck pipe, WD back-off truck, ran free-point, backed off @ 1722'. POH, now PU fishy tools, will engage fish & att to jar fish loose.

WOLVERTON 13-31 (3600' Spencer-WC) 9/15/81 21 days. TD 2063', rmg @ 1450'. TIH, circ btms up @ top of fish, engaged fish, wrkd stuck pipe & circ, could not work fish down hole, spot 2000 gal diesel w/15 gal 1220' spot from 1909-1600', let soak 3 hrs, wrkd pipe, bumped fish down, wrkd pipe thru tight spot, POH, LD fish & fishy tools, TIH w/bit #12 - now w/shoe & cmt @ 1450'

WOLVERTON 13-31 (3600' Spencer-WC) 9/16/81 22 days. Drlg fragmented volcanics @ 2262', drld 189' in 11 1/2 hrs. MW 11.6; vis 118; WL 4.2; pH 8.5. Had numerous BGG incr last 24 hrs, max 13 units. BGG 12 units. Drlg wt 12M#; RPM 90.

WOLVERTON 13-31 (3600' Spencer-WC) 9/17/81 23 days. Drlg @ 2450', drld 188' of sd, silt. & cly in 12 1/2 hrs. MW 11.6; vis 220; WL 4.2; pH 8.5. Survey: 2 1/2" @ 2255'. Pld bit #12 (connection s/n BP007) @ 2373', bit drld 339' in 2 1/2 hrs. Cond: 6-5-1. Ran bit #13 (7-7/8" Reed F133 s/n 169736) bit has drld 77' in 3 1/2 hrs. Had 30 units BGG increases @ 2262-2265'; 2300-2301' & 2320-2500'. Drlg wt 14M#; RPM 90.

WOLVERTON 13-31 (3600' Spencer-WC) 9/18/81 24 days. Rep rig. TD 2568', drld 118' of cly & silt. in 10 1/2 hrs. MW 11.6; vis 200; WL 4.2; pH 8.5. Pld bit #12 @ 2568', bit drld 195' in 14 hrs. Dull grade: 6-3-1. Now rep rotary drive. Had numerous shows last 24 hrs. Max BGG 20 units. Est. Cost: IDC \$397,860 (\$59,835 mud) TOC \$ 13,470

WOLVERTON 13-31 (3600' Spencer-WC) 9/19/81 25 days. TD 2568', rep rig. Replaced rotary drive engine, now rep hydraulic pump.

WOLVERTON 13-31 (3600' Spencer-WC) 9/20/81 26 days. Drlg @ 2850', drld 282' of cly, silt. & sd in 9 1/2 hrs. Survey: 1-3/4" @ 2633', fin rep rig, TIH w/bit #14 (7-7/8" Reed Y12J s/n 945579) bit has drld 282' in 9 1/2 hrs. Drlg wt 20M#; RPM 90.

WOLVERTON 13-31 (3600' Spencer-WC) 9/21/81 27 days. Drlg @ 3030', drld 189' of cly & silt in 13 1/2 hrs. MW 11.6; vis 145; WL 4; pH 8.5. Survey: 3" @ 3019'. Pld bit #14 @ 2897', bit drld 333' in 1 1/2 hrs. Cond: 6-5-1. Ran bit #15 (7-7/8" Reed Y12J s/n 943312) bit has drld 133' in 7 1/2 hrs. BGG 5-10 units, TG 47 units. Drlg wt 15M#; RPM 90.

WOLVERTON 13-31 (3600' Spencer-WC) 9/22/81 28 days. Drlg @ 3225', drld 185' of cly & silt. in 11 1/2 hrs. MW 11.6; vis 20; WL 4; pH 8.5. Pld bit #15 @ 3185', bit drld 185' in 17 hrs. Cond: 4-6-1. Ran RR#6 (7-7/8" Smith DTJ s/n DX3485) bit has drld 42' in 2 hrs. BGG 5 units; TG 45 units. Drlg wt 10M#; RPM 100.

WOLVERTON 13-31 (3600' Spencer-WC) 9/23/81 29 days. Drlg @ 3520', drld 295' of cly, silt & sd in 15 hrs. Pld RR#6 @ 3319', bit drld 136' in 8 1/2 hrs. Cond: 6-4-1. Ran bit #16 (7-7/8" Reed Y12J s/n 938997) bit has drld 201' in 8 1/2 hrs. BGG 8 units, average w/max of 20 units @ 3378'. Drlg wt 14M#; RPM 110.

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WOLVERTON 13-31 (3600' Spencer-WC) 9/24/81 30 days. Drlg @ 3804'. Drld 284' of sd, cly & silt. in 19 hrs. MW 11.6; vis 165; WL 4.0; pH 8.0. Pld bit #16 @ 3718', bit drld 359' in 20 hrs. Cond: 6-6-1. Ran RR#8 (7-7/8" Smith DTJ s/n 954449) bit has drld 86' in 7 1/2 hrs. BGG 6 units. TG 25 units. Max BGG 17 units @ 3545'. Drlg wt 10M#; RPM 100.

WOLVERTON 13-31 (3600' Spencer-WC) 9/25/81 31 days. Drlg @ 3968', drld 164' of sd, cly & silt in 16 1/2 hrs. MW 11.6; vis 160; WL 3.8; pH 8.0. Pld RR#8 @ 3861', bit drld 143' in 12-3/4 hrs. Cond: 8-4-1. Ran bit #17 (7-7/8" Reed H551J) s/n 954449 bit has drld 107' in 11 hrs. Average BGG 6 units; maximum BGG 20 units @ 3898; TG 21 units @ 3861'. Drlg wt 20M#; RPM 100. Est. Cost: IDC \$474,195 (\$68,475 mud) TOC \$ 13,470

WOLVERTON 13-31 (3600' Spencer-WC) 9/26/81 32 days. Drlg sd, cly & silt @ 4212', drld 244' in 15-3/4 hrs. MW 11.6; vis 118; WL 4; pH 8. Pld bit #18 @ 3980', bit drld 262' in 13 hrs. Dull grade: 5-4-1. Ran bit #18 (7-7/8" Reed Y12J s/n 168080) in @ 3980', bit has drld 232' in 13 1/2 hrs. Drlg wt 12M#; RPM 100. BGG 8 units.

WOLVERTON 13-31 (3600' Spencer-WC) 9/27 33 days. Trpg for bit @ 4402', drld 190' of sd, cly & silt in 12 1/2 hrs. MW 11.6; vis 88; WL 4; pH 8. Pld bit #18 @ 4260', bit drld 220' in 12 1/2 hrs.

WOLVERTON 13-31 (3600' Spencer-WC) 9/28/81 34 days. TD to log. TD 4555'. Drld 153' of slt, cly & ss in 12 hrs. MW 11.6; vis 181; WL 4.2; pH 8. Pld bit #19 was pld @ 4402', bit drld 142' in 1 1/2 hrs. Dull grade: 6-8-1. Ran bit #20 (7-7/8" Reed Y12J s/n 935095) in @ 4402', out @ 4555', bit 153' in 12 hrs. Circ & cond hole, short trpd, now POH for logs.

WOLVERTON 13-31 (3600' Spencer-WC) 9/29/81 35 days. Logging w/Schlumberger. TD 4555'. MW 11.6; vis 181; WL 4.2; pH 8. Pld bit #20 @ 4555', bit drld 153' in 12 hrs. Dull grade: 6-6-1. Logged w/Schlumberger, ran DL1, Sonic, FDC, CNL, & Dipmeter from 4552-895', now rmg velocity surveys.

WOLVERTON 13-31 (3600' Spencer-WC) 9/30/81 36 days. WD Schlumberger. TD 4555'. MW 11.6; vis 180; WL 4.4; pH 8. Fin rmg vel surveys, TIH w/sidewall core, shot G shots, POH, check gun, right angle drive on Schlumberger, truck failed, now WD truck.

WOLVERTON 13-31 (3600' Spencer-WC) 10/1/81 37 days. WOC 4 1/2" csg. TD 4555', PBD 2456'. RU Schlumberger, RIM w/sidewall core tool, stuck tool, shot 2 more shots, gun came free, fin shooting cores, stuck 20 cores, rec 23 RD Schlumberger, TIH, circ & cond, LD DP & DC's, RU & ran 63 jts 4 1/2" 10.5# K55 STC csg. Total length of string 2498.95' set @ 2495.95'. float @ 2456.27'. Cmt w/420 sx Class 6 w/2% CaCl2, plgd down @ 4:30 am 10/1/81. Now WOC. Had good returns thruout job.

WOLVERTON 13-31 (3600' Spencer-WC) 10/2/81 38 days. Set Slips @ 8:00 am 10/1/81 w/22M# on slips. Turned to Production Dept. for completion. DRPD FROM DRUG REPORT. Est. Cost: IDC \$598,408 (\$80,010 mud) ICC: \$11,975 TOC \$ 13,470

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WOLVERTON 13-31 Marion County, OR 10/3/81 - RU GO, run CBL log. Now showing very poor bonding over most of the interval. RD GO. NU BOP's and change rams. RU GO & perf 4 holes @2100' for block sqz. Set retrn @2085'. PU stinger for retainer & RIH on 2 3/8" tbg, wait 1 hr on cement.

10/4 /81 - Mix & pump 75 sx G w/2% KCl. Broke at 2800 psi, pumped cement @ 1 1/2 BPM, 2400 psi. Pumped last 10 cu ft in 10 min stages. Sqz to 3500 psi. PO of retrn, reversed clog. TOH w/tbg. RU & perf @2020, 4 SPF for block sqz. Set retrn @1950'. TIH w/tbg & stinger. Mix & pump 75 sx G w/2% KCl. Stage last 15 cu ft in 10 min stages. Sqz to 4000 psi, PO of retrn, PU DC's, 3 7/8" bit & RIH on 2 7/8" tbg. Drill on retrn @1985'.

10/5/81 - Drill cement & retrn to 2021', fell free. TIH & tag retrn @2085'. Circ hole clean, press test 1500 psi, OK. TOH, LD excess tbg & DC. RU GO, run bond log 2085-1800'. Good bond 2085-2000, poor 2000-1986, good 1964-1986, poor 1964-2000'. PU Baker model R w/F nipple. TIH & set pkr @1976'. ND BOP's, NU tree. Swabbing well down @ report time. Prep to perf.

WOLVERTON 13-31 Marion County, OR 10/6/81 - Swab well down to 1750'. RU GO, perf 2060-62 w/1 1/2" thru tbg gun, 4 SPF. FL incr'd to 1500'. Perf 2044-51 w/gun as above. RD GO. Well had 100 psi SITP, opened well, would not flow. RU to swab, 1FL 1000'. Swab 9 1/2 hrs, FL 1976', rec 10 BO. Apparently load wtr w/small gas show, gas would burn. Slight vacuum on back-side, indicating a possible pkr leak. 8 1/2 hr SITP 175 psi, built up as follows: 1 hr 35 psi, 2 hr 75, 3 hr 80, 4 hr 90, 5 hr 120, 6 hr 145, 7 hr 160, 8 hr 175. Prep to acdz.

WOLVERTON 13-31 Marion County, OR 10/7/81 - SITP 180 psi. Open well, blew down in 5 min. RU swab, FL 1200', swab down to 1900'. RU Halliburton & acdz w/1000 gals 12-3 (HCL-HF) acid w/CCLA-STA II & inhibitors. Formation broke @1200 psi. Max inj press 2600 psi, min inj press 2000, avg press 2200 psi @ 1 1/2 BPM. Pumped 24 bbls acid @ 8 BW. ISIP 1800, 5 min 1100, 10 min 600. Swab 14 hrs, rec load plus 10 BW, FL 900'. Stop swabbing, wait 1 hr, FL 900'. Well is making trace of gas, will burn (6" vertical flame at end of the flare line, will not register on 1/8" orifice). CORRECTION TO 10/6/81 REPORT: Rec 10 BW, not 10 BO as reported, after swabbing 9 1/2 hrs.

WOLVERTON 13-31 Marion County, OR 10/8/81 - FL 900', swab 4 hrs, rec 10 BW, FL 1900'. Schlumberger, POH w/pkr. RIH open ended, spot 20 sx cement plug 1970-1720. POH to 1200', WOC 4 hrs, RIH, tag plug @1864'. POH & LD tbg to 288'. Spot 20 sx plug. POH & LD tbg. ND wellhead, release rig 10 PM 10/7/81. Well P&A. FINAL REPORT.