

WOLVERTON 13-31

AMERICAN QUASAR PETROLEUM

1800' FEL 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T10S-R3W

Marion County, OR Elev: 233.28' GR KB 243.78'

Drlg Contr: Graham Rig #1

RECEIVED-PTL

APR 18 1984

WOLVERTON 13-31

(3600' Spencer-WC)

Marion County, Oregon

East Albany Prosp.

8/26/81 FIRST REPORT. 1 day. Drlg volcanics @ 120',
in 5 $\frac{1}{2}$ hrs. Ran bit #1 (12 $\frac{1}{4}$ " Smith 61J s/n MM163) in @ 54', bit
has drld 66' in 5 $\frac{1}{2}$ hrs. Moved in & RU Graham Rig #1. Spud @
12:30 am 8/26/81. Ran 43' of 12 $\frac{1}{4}$ " conductor, set w/4 yds Ready-
mix. Drlg wt 5M#; RPM 80.

Staked location 1800' FEL & 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13-T10S-R3W, Marion Co., Oregon.
Ground Elevation 233.28', KB 243.78'.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion County, Oregon

East Albany Prosp.

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 $\frac{1}{2}$ hrs. Drlg wt 12M#; RPM 100.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion County, Oregon

East Albany Prosp.

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 (12 $\frac{1}{4}$ " Smith 66J no s/n) in @ 648', bit has drld 249'
in 13 $\frac{1}{2}$ hrs. Circ & cond mud due to clabbered cond. Drlg wt
14M#; RPM 90.
Est Cost: IDC \$59,850 (\$995 mud)

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

8/29/81 4 days. TD 897'. NU BOPE. 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, cmtd w/
245 sx Class G w/8% gel, 3% salt, followed by 150 sx Class G,
2% CaCl₂. Plgd down @ 11:30 am 8/28/81. WOC 12 hrs, NU BOPE,
Now prep to press tst.

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 $\frac{1}{2}$ 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)

Marion Co., Oregon

East Albany Prosp.

8/31/81 6 days. TD 1530', drld 30' of sd & sh in 1 hr. Wkg
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 WO free-point truck.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/1/81 7 days. TD 1530', WO back-off truck. MW 9.8; vis 50;
WL 6; pH 10. WO McCullough back-off truck, truck blew engine
before reaching location, now WO 2nd back-off truck.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/2/81 8 days. TD 1530', circ & cond. MW 10.5; vis 58; WL
4; pH 9.5. WO wireline truck, RU & freepoint, indicated btm
DC stuck, 2nd DC partially stuck, BO @ 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 1340', 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)

Marion Co., Oregon

East Albany Prosp.

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.

SCANNED

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1800' FEL 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T10S-R3W

Marion County, OR Elev: 233.28' GR KB 243.78'

Drllg Contr: Graham Rig #1

WOVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/4/81 10 days. TD 1530'. Jarring on fish. MW 12.4; vis 185; WL 4.0; pH 9. W&R to top of fish @ 1438'. Circ & cond. hole, Short tripped, W&R 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)
TDC 13,470

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/5/81 11 days. TD 1530', circ, WO Halliburton. MW 12.4; vis 185; WL 4; pH 9. Backed off fish, POH, PU WP, TIH, att to wsh over, could not get WO pipe over collars, cutting collar @ less than 1' per hr. POH, LD WP, TIH open-ended to top of fish @ 1438', circ & WO Halliburton.
9/6/81 12 days. WOC. TD 1530', PBD 910', WO Halliburton, could not contact Halliburton, Halliburton did not show up. Called BJ out of Rio Vista, CA, WO BJ 11 hrs. Spot 200 sx class G plug, 2% CaCl₂ from 1448-865', POH, PU DC's & bit, TIH, wsh from 865-910', now WOC.

9/7/81 13 days. WOC. PBD 1020', fin WO cmt, wshd from 925-1020', cmt is granular, is not set up. Now WOC.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/8/81 14 days. PDTD 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 G plug w/3% CaCl₂. POH, PU bit & DC's, TIH, top of cmt 855', wsh & RM to 910', now prep to TOH, PU Dyna-drill.

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, WO 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 16M#; RPM 300.

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(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

9/10/81 16 days. Drlg silt. & cly @ 1590', drld 567' in 15 hrs. MW 11; vis 95; WL 5.6; pH 11. Survey: 41° @ 1220'; 3° @ 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.

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 BNS290) 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)
TDC \$ 13,470

WOLVERTON 13-31

(3600' Spencer-WC)

Marion Co., Oregon

East Albany Prosp.

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. Wrkg 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, WO free-point truck.

SCANNED

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AMERICAN QUASAR PETROLEUM
1800' FEL 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T10S-R3W
Marion County, OR Elev: 233.28' GR KB 243.78'
Drlg Contr: Graham Rig #1

WOLVERTON 13-31 9/14/81 20 days. TD 2063', PU fishg tools. MW 11.6; vis 105;
(3600' Spencer-WC) WL 4; pH 8.5. Circ & wrkd stuck pipe, NO back-off truck, ran
Marion Co., Oregon free-point, backed off @ 1722', POH, now PU fishg tools, will
East Albany Prosp. engage fish & att to jar fish loose.

WOLVERTON 13-31 9/15/81 21 days. TD 2063', rmg @ 1450'. TIR, circ btms up @
(3600' Spencer-WC) top of fish, engaged fish, wrkd stuck pipe & circ, could not
Marion Co., Oregon work fish down hole, spot 2000 gal diesel w/115 gal EZ-spot
East Albany Prosp. from 1909-1600', let soak 3 hrs, wrkd pipe, bumped fish down,
wrkd pipe thru tight spot, POH, LD fish & fishg tools, TIR w/bit
#12 now wsho & rmg @ 1450'.

WOLVERTON 13-31 9/16/81 22 days. Drlg fragmented volcanics @ 2252', drld 189'
(3600' Spencer-WC) in 11 $\frac{1}{2}$ hrs. MW 11.6; vis 118; WL 4.2; pH 8.5. Had numerous
Marion Co., Oregon *background gas* BGG incr last 24 hrs, max 83 units. BGG 12 units. Drlg wt
East Albany Prosp. 12M#; RPM 90.

WOLVERTON 13-31 9/17/81 23 days. Drlg @ 2450', drld 198' of sd, silt. & cly in
(3600' Spencer-WC) 12 $\frac{1}{2}$ hrs. MW 11.6; vis 270; WL 4.2; pH 8.5. Survey: 2 $\frac{1}{4}$ ° @
Marion Co., Oregon 2255'. Pld bit #12 (correction s/n BPO07) @ 2373', bit drld
East Albany Prosp. 339' in 21 $\frac{1}{2}$ hrs. Cond: 6-5-1. Ran bit #13 (7-7/8" Reed FP130
s/n 167736) bit has drld 77' in 3 $\frac{1}{2}$ hrs. Had 30 units BGG
increases @ 2262-2265'; 2300-2301' & 2320-2500'. Drlg wt 14M#; RPM 90.

WOLVERTON 13-31 9/18/81 24 days. Rep rig. TD 2568', drld 118' of cly & silt.
(3600' Spencer-WC) in 10 $\frac{1}{2}$ hrs. MW 11.6; vis 200; WL 4.2; pH 8.5. Pld bit #12 @
Marion Co., Oregon 2568', bit drld 195' in 14 hrs. Dull grade: 6-3-1. Now rep
East Albany Prosp. rotary drive. Had numerous shows last 24 hrs. Max BGG 20 units.
Est Cost: IDC \$392,960 (\$59,835 mud)
IDC \$ 13,470

WOLVERTON 13-31 9/19/81 25 days. TD 2568', rep rig. Replaced rotary drive
(3500' Spencer-WC) engine, now rep hydraulic pmp.
Marion Co., Oregon 9/20/81 26 days. Drlg @ 2850', drld 282' of cly, silt. & sd in
East Albany Prosp. 9 $\frac{1}{2}$ hrs. Survey: 1-3/4° @ 2633', fin rep rig, TIR w/bit #14.
(7-7/8" Reed Y12J s/n 945579) bit has drld 282' in 9 $\frac{1}{2}$ hrs.
Drlg wt 20M#; RPM 90.

WOLVERTON 13-31 9/21/81 27 days. Drlg @ 3030', drld 180' of cly & silt in 15 $\frac{1}{2}$
(3500' Spencer-WC) hrs. MW 11.6; vis 145; WL 4; pH 8.5. Survey: 3° @ 3019'. Pld
Marion Co., Oregon bit #14 @ 2897', bit drld 333' in 15 $\frac{1}{2}$ hrs. Cond: 6-6-1. Ran
East Albany Prosp. bit #15 (7-7/8" Reed Y12J s/n 941312) bit has drld 133' in 7 $\frac{1}{2}$
hrs. BGG 5-10 units, TG 42 units. Drlg wt 15M#; RPM 90.

WOLVERTON 13-31 9/22/81 28 days. Drlg @ 3225', drld 195' of cly & silt. in
(3500' Spencer-WC) 11 $\frac{1}{2}$ hrs. MW 11.6; vis 20; WL 4; pH 8.5. Pld bit #15 @ 3185',
Marion Co., Oregon bit drld 286' in 17 hrs. Cond: 4-6-1. Ran RR#6 (7-7/8" Smith
East Albany Prosp. 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 9/23/81 29 days. Drlg @ 3520', drld 295' of cly, silt & sd in
(3500' Spencer-WC) 15 hrs. Pld RR#6 @ 3319', bit drld 136' in 8 $\frac{1}{2}$ hrs. Cond:
Marion Co., Oregon 6-4-1. Ran bit #16 (7-7/8" Reed Y12J s/n 918997) bit has
East Albany Prosp. drld 201' in 8 $\frac{1}{2}$ hrs. BGG 8 units, average w/max of 20 units
@ 3378'. Drlg wt 14M#; RPM 110.

SCANNED

WOLVERTON 13-31
AMERICAN QUASAR PETROLEUM
1800' FEL 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T10S-R3W
Marion County, OR Elev: 233.28' GR KB 243.78'
Drlg Contr: Graham Rig #1

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
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 399' in 20 hrs. Cond: 6-6-1. Ran RR#8 (7-7/8"
Smith DTJ s/n BX3194) bit has drld 86' in 7 $\frac{1}{2}$ hrs. BGG 6 units.
TG 25 units. Max BGG 17 units @ 3545'. Drlg wt 10M#; RPM 100.

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
9/25/81 31 days. Drlg @ 3968', drld 164' of sd, cly & silt in
16 $\frac{1}{2}$ 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 HS51J 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)
TDC \$ 13,470

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
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 #17 @ 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 $\frac{1}{2}$ hrs. Drlg wt
12M#; RPM 100. BGG 8 units.
9/27 33 days. Trpg for bit @ 4402', drld 190' of sd, cly & silt
in 16 $\frac{1}{2}$ hrs. MW 11.6; vis 122; WL 4.2; pH 8. Pld bit #18 @ 4260', bit drld 280' in 18 hrs.

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
9/28/81 34 days. TOH to log. TD 4555'. Drld 153' of silt, cly
& ss in 12 hrs. MW 11.6; vis 181; WL 4.2; pH 8. Bit #19 was pld
@ 4402', bit drld 142' in 11 $\frac{1}{2}$ 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
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
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 DIL,
Sonic, FDC, CNL, & Dipmeter from 4552-895', now rng velocity
surveys.

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
9/30/81 36 days. NO Schlumberger. TD 4555'. MW 11.6; vis
180; WL 4.4; pH 8. Fin rng vel surveys, TII w/sidewall core,
shot G shots, POH, check gun, right angle drive on Schlumberger,
truck failed, now NO truck.

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
10/1/81 37 days. WOC 4 $\frac{1}{2}$ " csg. TD 4555', PBD 2456'. RU
Schlumberger, RIH w/sidewall core tool, stuck tool, shot 2 more
shots, gun came free, fin shooting cores, shot 26 cores, rec
23, RD Schlumberger, TIK, circ & cond, LD DP & DC's, RU & ran
63 jts 4 $\frac{1}{2}$ " 10.5# K55 STC csg. Total length of string 2498.95'
set @ 2495.95', float @ 2456.27. Cmtd w/420 sx Class G w/2% CaCl₂, plgd down @ 4:30 am
10/1/81. Now WOC. Had good returns thruout job.

WOLVERTON 13-31
(3500' Spencer-WC)
Marion Co., Oregon
East Albany Prosp.
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 DRLG REPORT.
Est Cost: IDC \$598,408 (\$80,010 mud) ICC: \$11,975
TDC \$ 13,470 TCC: \$13,200

WOLVERTON 13-31

AMERICAN QUASAR PETROLEUM

1800' FEL 1100' FNL, NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T10S-R3W

Marion County, OR Elev: 233.28' GR KB 243.78'

Drig Contr: Graham Rig #1

WOLVERTON 13-31

Marion County, OR

10/3/81 - RU GO, run CBL log, showed 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 retnr @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 $\frac{1}{2}$ BPM, 2400 psi. Pumped last 10 cu ft in 10 min stages. Sqz to 3500 psi. PO of retnr, reversed clean, POH. TOH w/tbg. RU & perf @2020, 4 SPF for block sqz. Set retnr @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 retnr, PU DC's, 3 7/8" bit & RIH on 2 7/8" tbg. Drill on retnr @1985'.

10/5/81 - Drill cement & retnr to 2021', fell free. TIH & tag retnr @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 11/16" thru tbg gun, 4 SPF. FL incrsd to 1500'. Perf 2044-51 w/gun as above. RD GO. Well had 100 psi SITP,

opened well, would not flow. RU to swab, IFL 1000'. Swab 9 $\frac{1}{2}$ 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 $\frac{1}{2}$ 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 acidz.

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 & acidz w/1000 gals 12-3 (HCL-HF) acid w/CLA-STA II & inhibitors.

Formation broke @1200 psi. Max inj press 2600 psi, min inj press 2000, avg press 2200 psi @ $\frac{1}{2}$ BPM. Pumped 24 bbls acid & 8 BW. ISIP 1800, 5 min 1100, 10 min 600. Swab 14 hrs, rec load plus 10 BW, FL 1900'. 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 $\frac{1}{2}$ hrs.

WOLVERTON 13-31

Marion County, OR

10/8/81 - FL 900', swab 4 hrs, rec 10 BW, FL 1900'. Chlorides 15,000 ppm, load 2% KCl (20,000). Load hole w/3% KCl wtr. 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.

SCANNED