

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 1069 State Office Building Portland 1, Oregon

HISTORY OF OIL OR GAS WELL

(Submit in duplicate)

In compliance with rules and regulations adopted pursuant to ORS 520.095 (Chapter 667 OL 1953)

Operator American Quasar Petroleum

Field Wildcat

Well No. Investment Management 20-21 , Sec. 20

, T. 6N

R. 4W

W. B. & M.

Date Oct. 27, 1980

Signed

John F. Works
John F. Works

Title

Division Drilling Engineer

(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form in reporting the history of all important operations at the well, together with the dates thereof, prior to the first production. Include in your report such information as size of hole drilled to cementing or landing depth of casings, number of sacks of cement used in the plugging, number of sacks or number of feet of cement drilled out of casing, depth at which cement plugs started, and depth at which hard cement encountered. If the well was dynamited, give date, size, position and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position and results of pumping or bailing.

Date

See Attached Chronological report from 10/13/80 to 10/21/80

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DEPT OF GEOLOGY

INVESTMENT MGMT. #20-21
(3000' Clark/Wilson-WC)
Columbia Co., Oregon
Mist Prosp.

10/13/80 FIRST REPO.: Staked loc. in
NE $\frac{1}{4}$ /NW $\frac{1}{4}$, Sec. 20-6N-4W. Elev.: 623' GL.
Drlg. Contractor: Paul Graham Rig #1.
Set 20' of 12" conductor pipe w/4 yds.
redi-mix. Should soud today.

INVESTMENT MGMT. #20-21
(3000' Clark/Wilson-WC)
Columbia Co., Oregon
Mist Prosp.

10/14/80 1 day-TD 522'. WOC. KB elevation
is 628.50'. GR elevation is 618'. Drld. 490'
in 7 hrs. MW 8.9; vis 45; WL 20; pH 10.5.
Survey: $\frac{1}{2}$ ° at 522'. Ran bit #1 (9-7/8" Smith
DTJ, s/n DE8932) in at 32'. Bit had drld. 490'
in 7 hrs. Dull grade: 2-2-0. Spudded well at 8:00am on 10/13/80. Drld.
to 522'. POH. Circ.&cond. hole. RU & ran 14 jts. 7"20#, K-55, STC csg.
(527.37'). Set at 521'KB. Float collar at 480.66'. Cmtd.w/225sx Class
"G" & 2%CaCl₂. Circ.20bbls.cmt.,now WOC.(PD at 7:00pm 10/13/80).

INVESTMENT MGMT. #20-21
(3000' Clark/Wilson-WC)
Columbia Co., Oregon
Mist Prosp.

10/15/80. 2 days, Drlg at 1400'. Drld.
878' in 12 hrs. MW 9.0; vis 40; WL 12;
pH 10. Surveys: 1° at 784'; 5° at 1270'.
WOC. NU BOPE, tested to 800 psi.
Drld. Cmt. and shoe. Drld. to 1400'.

INVESTMENT MGMT. #20-21
(3000' Clark/Wilson-WC)
Columbia Co., Oregon
Mist Prosp.

10/16/80. 3 days. Tripping at 2281'.
Drld 881' in 20 hrs. MW 9.7; vis 45;
WL 6; pH 9.5. Pulled Bit #2 (6 $\frac{1}{2}$ " Reed
Y12J, s/n 918299) at 1900'. Bit has
drld 1379' in 21 $\frac{1}{2}$ hrs. Dull grade: 6-8-0.
Ran Bit #3 (6 $\frac{1}{2}$ " Reed Y12J, s/n 918303)
at 1900". Bit has drld 381' in 10 $\frac{1}{2}$ hrs.

INVESTMENT MGMT. #20-21
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Columbia Co., Oregon
Mist Prop.

10/17/80. 4 days. PBTd 471'. WOC.
MW 9.7; vis 45; WL 6; pH 9.5. Survey 5°
at 2281'. Circ and cond hole. TOH.
Pulled bit #3 at 2281'. Bit had drld
381' in 10 $\frac{1}{2}$ hrs. Dull grade 6-4-1.
Logged with Schlumberger. Ran DIL
w/SP; sonic from 2209' - 521'. Ran
Dipmeter from 2209' to 521'. Plugged
back as follows: 1264-1064' - 37 sx
990-471' - 102 sx
w/Class G cement. Plug job complete
at 10:00 pm 10/16/80. Now preparing
to Whipstock from 471'.

IDC \$78,705 (\$2355 mud)
TDC \$ 6,060

INVESTMENT MGMT. #20-21
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10/18/80. 5 days. TIH with Dyna-drill at
573'. Finished WOC. Drld cement, drld 102'
in 1 hr. Now preparing to kick off.

INVESTMENT MGMT. #20-21
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Mist Prop.

10/19/80. 6 days. Drld at 1278'. Drld 705' in 10½ hrs. Picked to Dyna-drill, bent sub and bit #4 (6½" Smith DTJ, s/n AV 5931) in at 573', out at 1263'. Bit drld 690' in 10½ hrs. Layed down Dyna-drill, picked up bottom hole assembly and re-ran bit #4. In at 1263', bit has drld 15' in ½ hr. Survey at 545'-3/4°; at 884 - 11 3/4° S57W; at 1101' 16½° S52W; at 1223' - 18½° S55W. DW 10M#, RPM 90.

10/20/80. 7 days. Total depth 2145'. Drld 867' of sd and sh in 12½ hrs. Running electric logs with Schlumberger. Pulled bit #4 at 1278'.

Bit drld total 705' in 10½ hrs. Dull grade 3-3-I. Picked up 6 pt and bit #5 (6½" Smith DTJ, s/n AV5933) in at 1278', out at 2145'. Bit drld 867' in 12½ hrs. Dull grade 3-3-I. Now logging with Schumberger. Ran dual induction with SP and Sonic from 2140' to 521'. Final closure 562.50' at S52W. Now logging with Schumberger.

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10/21/80. 8 days. TD 2145'. RDRT. Attempted to run Dipmeter and Density logs, neither tool would work, TOH, RD Schlumberger, TIH spotted class G plugs w/2 percent CaCl₂ as follows: From 1520 to 1320 - 37 sx; from 980 to 780 - 37 sx; from 621 to 421 - 40 sx.

WOC 5½ hrs. TIH. Tagged plug at 452', set 10 sx plug at surface. ND BOPE. Released rig at 3:00 am on 10/21/80. Rig is moving to CROWN ZELLERBACH 30-33 location.