

ASPEN DRILLING CO.

Broadway at Morton
Phone (316) 792-2469

P. O. Box 783
Great Bend, Kansas 67530

DRILLING & COMPLETION REPORT

RIG NO. _____

WELL NAME: Froetschner #1
LOCATION: NE SW NW Sec. 18-T21S-R17W
Pawnee County, Kansas

Elevations
GL
DF
KB 2102'
RTD 2335'

OIL PRODUCER

10-19-73 Woodman - Iannitti Drilling Co.
moved in & rigged up.
Ran 9 jts. (363.23') new 8 5/8" Foster 23# surface casing, set at 372'
with 225 sacks common cement 3% Calcium Chloride. Cement circulated.
Plug down at 12:27 AM, 10-20-73.

10-20-73 8:00 AM, drilling at 500'.
Anhydrite 1111'
B/Anhydrite 1136'

10-21-73 7:00 AM, going in hole to cut core #1.
Core #1: 2050-2086'. Cored 36', recovered 34'. Lost from 2084-2086'.
Reamed core hole and drilled 2086-2096'.
Herrington 2053'

10-22-73 7:00 AM. Testing.
DST #1: 2028-2096'. Initial open 60", final open 60". Initial shut in
60", final shut in 120".
Strong blow -- GTS in 25". 30" gauge: 40,000 cfd. 115" gauge: 167,000.
Recovered 270' mud. Chlorides (mud before test, 175,000) (fluid recovered
175,000).
IBHP 589#
FBHP 598#
IFP 71-125
FFP 89-125
Hyd. P. 1126-1054
Bottom hole temp. 78°

10:00 AM, going back in hole for Core #2.

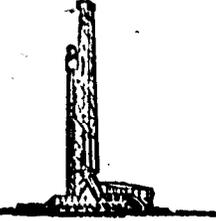
10-23-73 7:00 AM, preparing to core from 2140-2150'.
Core #2: 2098-2138'. Cut 42', recovered 38' of core. Core barrel
jamed. Reamed hole to 2140'.
Core #3: 2140-2150'(Winfield). Cut 10', recovered 9'4". All tight
Dolomite except for some porosity in the top foot.

Winfield 2100 +2



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WELL NAME: Froetschner #1
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10-23-73

Continued.....

DST #2: 2100-2175'. Initial open 60", final open 105". Initial shut in 60", final shut in 120".

On initial open, weak blow increased to strong in 5". Strong blow throughout initial open.

On final open, strong blow -- GTS in 85".

90" gauge	3,710 cfd	1/4" choke
105" gauge	3,950 cfd	"
120" gauge	4,300 cfd	"

Caught gas sample.

Recovered 285' gas cut mud.

IBHP	589#
FBHP	625#
IFP	53-98
FFP	107-196
Hyd.	1126-1108
Bottom Hole Temp.	78°

10-24-73

Cutting core #4: 2175-2203'. Cored 28', recovered 27'. Reamed hole and drilled to 2265'.

DRILLING

10-25-73

DST #3: 2220-2265' (Ft. Riley). Initial open 60", final open 95".

7:00 AM

First blow: Very weak intermittent throughout.

Final blow: Strong blow with GTS in 85" of 2nd open. Gauge 3,710 cfd.

Recovered 150' mud.

IBHP	535#/60#
FBHP	660#/120"
IFP	53-89
FFP	80-107
Hyd.	1171
Temp	78°

EXPLORATION

(Florence)

DST #4: 2274-2335'. / Tool open 1 hr. & 1 hr. Initial shut in final shut in 2 hrs.

Initial open: Strong blow throughout test.

Final open: Fair blow (under 2" water) throughout test - no evident gas.

Recovered 410' mud in 2.76 ID Flexweight pipe.

IBHP	625#
FBHP	642#/2 hrs.
IFP	62-160
FFP	178-250
Hyd.	1225-1198
Temp.	78°

Ran electric log.

10-26-73

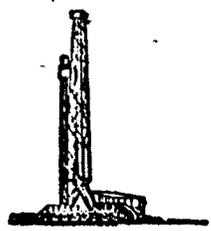
Preparing to run 5 1/2" casing.

ROTARY TOTAL DEPTH: 2335'



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10-26-73 Ran 74 jts. used 5 1/2", 14# casing set at 2333.63' and stage collar at 1156, cemented by Sun with 10 bbl sodium acid phyro phosphate ahead, w/35 sacks 50/50 Pozmix 6% gel, followed with 400 gal latex base cement. Plug down 5:30 PM, 10-26-73.
 Cemented through stage collar up with 215 sacks 50/50 Pozmix 6% gel. Stage collar did open and close, cement circulated. Plug down at 6:30 PM 10-26-73.

10-29-73 Waiting on completion unit.

COMPLETION

10-31-73 Moved in Chase Well Service.

11-1-73 Rigging up Chase Well Service. Ran 2 drill collars & 72 jts. 2 3/8" tubing. Drilled out stage collar at 1156'. Cleaned out to TD of 2308' with a 4 7/8" bit. Tripped tubing & bit to surface.

11-2-73 Swabbed well to TD 2308'. Petro-Log of Great Bend ran Gamma Ray-correlation log to TD of 2307'.
 Perforated 2282-2286 and 2290-2296 with 2 SPF.
 Swabbed well - test natural, 1 hr test - no show no fluid.

Dowell acidized 2282-2286 and 2290-2296 with 500 gal. gas-well acid. Dumped acid, loaded well. Maximum pressure 750#, average injection rate 3/4 BOM. Slow pressure increases to 750#, break to 500#, well treating at 400# with 2 bbls. displaced, .3 BPM, increase rate .5 BPH pressure 300# increase rate to 1 BPM @ 250# at completion.

Immediate pressure drop to	250#
1" pressure drop to	150#
5" "	50#
15" "	0#

Total seed 68 bbls. Swabbed down, recovered 71.25 BTF. Good show gas on last pull, will burn. Shut down for night.

11-3-73 Casing pressure 15#, 1000' fluid in well. Swabbed down, recovered 40.5 BTF.

Swab test (2 pulls per hour) as follows:

1st hr.	11 bbls.
2nd hr	9 bbls.
3rd hr.	4 bbls.
4th hr.	4 bbls.

Total recovered	68.5 BTF - 71.5 bbl over seed.
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Show gas on hourly swab tests.



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11-5-73

Casing pressure 25#, 1000' fluid in well.
Running packer -- preparing to squeeze bottom perforations.

Ran 72 jts. 2 3/8" tubing with 20' subs, with Baker full bore packer set at 2270'.

Sun squeezed with 150 sacks common cement, injection rate of 4 BPM at 850#. Mixed and pumped 150 sacks, pressured to 1500# and held after 1 hr. 10 min. of staging. Reverse circulated out 20 sacks cement and cleaned up well. Tripped tubing & packer to surface.

11-6-73

Swabbing hole - preparing to perforate upper zones.
Swabbed well down to top of cement 2270'.

Petro-Log perforated 2256-58, 2246-50, 2236-38, 2226-30 (Ft. Riley) and 2132-42, 2110-20 & 2104-07. All with 2 SPF.

Ran back 72 jts. 2 3/8" tubing, Baker full bore packer & 14' subs, with packer set at 2167', tail pipe at 2260'.

Dowell acidized Ft. Riley perforations with 500 gal. Gas-Well acid. Dumped acid, maximum pressure 1000#, average injection rate 1 BPM. Slow pressure increases to 1000#, break to 500#. Well treating at 400# @ 1/2 BPM. With 4 Bbl. acid displaced, increase rate to 1.3 BPM, pressure to 650#. With 7 Bbl. displaced, increase rate to 2.0 BPM at 700# on completion.

Immediate pressure drop to	350#
1" pressure drop to	300#
5" pressure drop to	200#
10" "	100#
15" "	0#

21 bbl total seed.

Recovered 16.5 Bbl. total fluid on swab down and 1 hr test. (Slight show natural gas -- will burn).

11-7-73

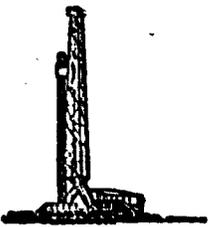
Casing pressure 360# (natural - not treated), tubing 175#. Swabbed down, recovered 3 bbl fluid. 1/2 hr swab 2 bbl., 1 hr test swab 1 bbl. Total accumulation 22 1/2 BTF -- 1 1/2 bbl over seed.

Dowell acidized Winfield perforations 2104-07, 2110-20, 2132-42 with 500 gal Gas-Well acid. Dumped acid down casing, pressure to 1200#, released, by-pass on packer bled by 2 3/4 bbl fluid. Re-set packer, pressured to 700#, break to 400#. With 1 3/4 bbl displaced increased rate to .3 BPM at 350#. Increase rate to 1.3 BPM at 325# w/8 bbl displaced, increase rate to 2.7 BPM at 300# on completion.

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WELL NAME: Froetschner #1
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11-7-73

Continued.....

Immediate pressure drop to 200#
1" pressure drop to 150#
5" pressure drop to 0#

53 bbl total seed.

Unseated packer & swabbed down -- recovered 48 BTF, show of gas.
At 3:45 PM well kicked off.

From 3:45 to 5:00 PM, well made 2.25 BTF.

From 5:00 PM to 9:00 AM (11-8-73) made 15 BTF - water.

11-8-73

Casing pressure at 7:00 AM, 350#.

9:30 AM, casing pressure 250#, last hour made 3.75 bbls. venting
75,000 cfd.

Reseated packer. From 10 AM until 2 PM, recovered 6 BTF. Weak
blow (TSTM) off tubing -- continuous after swab. (From bottom perms.)
Casing venting 360,000 cfd --- DRY.

Swab tested a total of 7 hours, recovered 10 1/2 BTF.

11-9-73

Casing pressure 525#, tubing pressure 520#. 200' fluid in well.
Swabbed down, recovered 1 BTF.

1 hr. swab test recovered 1.75 BTF.

Tripped tubing and packer to surface. Petro-Log set permanent bridge
plug at 2200'.

3 hr. swab test recovered 1/2 BPH.

Shut in well.

11-13-73

7:00 AM, casing pressure 525#

Swabbed down, recovered 1 BTF. Petro-Log perforated Krider 2074-
2084', with 2 SPF.

2 hr. test venting 537,000 cfd.

Ran swab, recovered 3 BTF. Ran 67 jts. 2 3/8" tubing with Baker full
bore packer with 10' tail pipe. Packer set at 2096', tail pipe at 2106'.

7:15 PM, tubing 330#, casing venting 380,000 cfd.

11-14-73

7:00 AM, tubing 330#, casing venting 380,000 cfd.

Tearing down Chase Well Service -- moving to Gore #1.

11-15-73

Moved in & rigged up Chase Well Service. Casing 525#, tubing 500#.

Pulled 1 jt. tubing, reset packer. 1 hr. tubing pressure 500#, no
movement on annulus. Ran back the 1 jt. of tubing (less 4' tubing sub).



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