

Like
and in the
time of the
day
- 1944 -

1990	184
1991	185
1992	187
1993	174
1994	186

100



121	122
123	124
125	126

1971	413
1972	397
1973	404

222

12-14 14-12

100

1977

c. 19
...
...

[illegible][illegible]

100-127
115-115 [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear], [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]
[unclear] [unclear] [unclear] [unclear]

2700
 daily, the last 1.0 to 1.30 to 1.15 LF
 2/49 2000
 200. 10'
 simply overlying the formation on line 4/
 2000 1.0 to 1.15 LF

SECRET

12-1/4' medium to coarse crystalline
quartz sand (80% shale, 20% sand) 8'
medium crystalline to coarsely crystalline
light gray to dark brown dolomite w/many
vugs (1/2 to 2" in diameter and good
inter-crystalline porosity, 10% blue
fluorescence, trace yellow fluorescence,
slight cut in carbon tetrachloride,
sulphur odor.

Top Devonian 4782'. 20' high to Black Hills Unit #1.

Devonian, 2 packers, 3 hrs. 5/8" MID and
1" SC, No SC, Rec. 180' drlg. mud. cut
w/brackish slightly salty water, 240'
brackish slightly salty water, no oil or
gas, BHP 0-300#, 15 min. S-I BHP 1525"
TH 2500-2400#.

Devonian, 2 packers, 3 hrs. 5/8" MC and 1" SC, No MC, Rec. 495' brackish salt water, Top 180' cut 50% w/drlg. mud, no oil or gas SHPP 180-230', 15 min. S-I SHP 1500', HH 2400-2375'.

4762 4797

4797 4798
4763 4792

6-3/4" Diamond Core Devonian	4796	4828	Sec. 30' Finely crystalline to coarsely crystalline light gray to brown dolomite, 10% vuggy porosity, 1/8 to 3/4" in diameter, inter-crystalline porosity thru-out, trace light stain scattered yellow and blue fluorescence, slight cut in carbon tetrachloride in bottom 2' dark brown opaque chert inclusions
6-3/4" Diamond Core Devonian	4828	4846	Sec. 18' Finely crystalline to coarsely crystalline light gray to brown dolomite, 10% vuggy porosity and inter-crystalline porosity scattered blue and yellow fluorescence, slight cut in carbon tetrachloride, trace stain.
No Formation Logged	4846	4847	
6-3/4" Diamond Core Devonian	4847	4875	Sec. 27' Finely crystalline to coarsely crystalline light gray to brown dolomite, 10% vuggy porosity and inter-crystalline porosity scattered blue and yellow fluorescence, slight cut in carbon tetrachloride, trace stain. Lost 1000 circ. - 4875 for 5-1/2 hrs. lost total of 1350 bbls. fluid, restored w/wellite, jelflakes, fibertex and hulls.
Drill Stem Test	4875	4875	Devonian, 2 packers, 1 hr. 5/8" BHC and 1" SC, No MC, Sec. 300' drlg. mud, no shows, Tool plugged, No SHP, HH 1600-1600%. Tried to load w/125 bbls. 9.2# wt., 85 Vis. 6 W.L., no fill up, float indicated fluid - 1657, Spotted mud (9.2# Wt., 85 Vis. 6 W.L.) on bottom, no lost circ. material
Drill Stem Test	4875	4875	Devonian, 2 packers, 1 hr. 5/8" BHC and 1" SC, No MC, Sec. 300' drlg. mud, no shows, BHFP zero, 15 min. S-I BHP 1670# HH 1670-1670%. Circ. sub opened coning out had 2190' drlg. mud from indications inside pipe cannot fill hole above packer behind drill pipe, mixed paleo seal, 125 sax wellite, hulls, fibertex, jelflakes total 250 bbls. pumped into hole, think mud going in 1657 (fluid level).
Line	4875	4893	
Line and sand	4893	4913	
Line	4913	4915	
			Drilled 4875-4915 without circ. mixed 1500 bbls. 9# t., 20-90# Vis. 6 WL. (300 sax wellite, 200 sax hulls, 200 sax jelflakes, 150 bales fibertex).
Drill Stem Test	4915	4915	Devonian, 2 packers, 3 hrs. 5/8" BHC and 1" SC, No MC, Sec. 120' sulphur water, 1st Sec. 2800' drlg. mud and sulphur water, Circ. sub. opened while pulling tools, no oil or gas shows, BHFP 200-1450#, 15 min. S-I BHP 1600#, HH 1650-1650%. Ran Dowell spinner to 1490', lost circ. zone 1440-1460, restored circ. w/lost circ. material.
Line	4915	4920	
6-3/4" Diamond Core Devonian	4920	4931	Sec. 5' Finely crystalline to medium crystalline brown cherty dolomite w/trace vuggy