

Sheet #3

|                           |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8-3/4" Diamond Core Bough | 9674  | 9717  | <p>Res. 43', (16-25 MPF)</p> <p>Top 1' gray slightly calcareous shale, 2-1/2' finely crystalline brown limestone, 1/2' gray calcareous shale w/limestone inclusions. 4' green to gray waxy shale w/red heaving shale, 16' finely crystalline to medium crystalline tan to brown limestone, 1-1/2' finely crystalline gray limestone trace to 10% intercrystalline, no odor, 20-30% yellow, no cut, bottom 7-1/2' finely crystalline tan to brown limestone w/green to brown shale stringers.</p> |
| 8-3/4" Dia. Core Bough    | 9717  | 9760  | <p>Res. 43'</p> <p>Finely crystalline brown limestone w/black shale partings, trace to 10% pin point porosity from 9724-9728, 9743-9748, no shows and strong sulphur odor.</p>                                                                                                                                                                                                                                                                                                                   |
| Lime and shale            | 9760  | 9940  | <p>1/2° @ 9825, St. @ 9920</p> <p>Drilling break 9790-9795</p> <p>9920-9940, by samples Perm Penn inter-crystalline porosity and blue fluorescence.</p>                                                                                                                                                                                                                                                                                                                                          |
| Attempted Drill Stem Test | 9917  | 9940  | Packers failed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Drill Stem Test           | 9919  | 9940  | <p>Perm Penn, 2 packers, 1 hr. 5/8" BHC and 1" SC, No WC, Res. 30' drlg. mud, no shows, BHFP 200-200#, 15 min. S-I BHP 0#, HH 5800-5600#</p>                                                                                                                                                                                                                                                                                                                                                     |
| Lime and shale            | 9940  | 10330 | <p>St. @ 10040, 1/4° @ 10250</p> <p>Circ. samples @ 9954 for 2-3/4 hrs. in Perm Penn, no shows</p> <p>Circ. samples @ 10164 3-1/4 hrs. in Perm Penn, no shows.</p> <p>Circ. samples in lower Penn. @ 10273 for 2-1/2 hrs., 10324 for 5-1/4 hrs., 10330 for 2 hrs.</p> <p>10314-10330 fluorescence and inter-crystalline porosity.</p>                                                                                                                                                            |
| Drill Stem Test           | 10312 | 10330 | <p>Lower Penn, 2 packers, 1 hr. 5/8" BHC and 1" SC, No WC, Res. 360' drlg. mud, no shows, BHFP 325-325#, 15 min. S-I BHP 375#, HH 5725-5675.</p>                                                                                                                                                                                                                                                                                                                                                 |
| Lime and shale            | 10330 | 10369 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lime, shale and chert     | 10369 | 10375 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Lime and shale            | 10375 | 10591 | <p>1/2° @ 10400, St. @ 10500</p> <p>Circ. samples @ 10386 in lower Penn. for 3 hrs, no shows.</p> <p>Circ. samples in Perm Penn, @ 10591 for 1 hr.</p> <p>Trace odor and fluorescence.</p> <p>Drilling break 14-18 to 6-8 MPF.</p>                                                                                                                                                                                                                                                               |
| Drill Stem Test           | 10567 | 10591 | <p>Perm Penn., 2 packers, 1 hr. 5/8" BHC and 1" SC, no WC, Res. 510' oil, gas and mud cut salt water, BHFP 115-300#, 15 min. S-I BHP 3220#, HH 5800-5490#.</p>                                                                                                                                                                                                                                                                                                                                   |
| Lime and shale            | 10591 | 10962 | <p>1/2° @ 10700, 1/2° @ 10820</p> <p>Drlg. break @ 10952, 15-5 MPF, blue and yellow fluorescence in sand by circ. samples @ 10962 for 5 hrs. in Perm Penn.</p>                                                                                                                                                                                                                                                                                                                                   |
| Drill Stem Test           | 10952 | 10962 | <p>Perm Penn, 2 packers, 1 hr. 5/8" BHC and 1" SC, No WC, Res. 35' drlg. mud, no shows, BHFP 30-261#, 15 min. S-I BHP 63#, HH 5950-5950#.</p>                                                                                                                                                                                                                                                                                                                                                    |

