

CORE DESCRIPTION

Core #1	4523-38	full recovery (barrel jammed at 4538)	} Boxes 36 - 40
Core #2	4538-45	full recovery (barrel jammed at 4545)	
Core #3	4545-55	recovered 8 feet (barrel jammed at 4555)	
Core #4	4555-67	recovered 11 feet (barrel jammed at 4567)	
Core #5	4567-79.5	recovered 11 1/2 feet	} 41 - 42
Core #6	4775-90	full recovery	} 42 - 44

BASAL PENNSYLVANIAN CONGLOMERATE

- 4523-24: gray green pyritic shale matrix with quartzitic sand and chert pebbles and cobbles - some chert with minute vugs. No show, no gas kick.
- 4524-28: green to gray green to gray pyritic shale matrix, with quartzitic sand and chert fragments. Chert is blue gray, white, gray, slightly vuggy and exhibiting some rounding. Numerous quartz grain floaters in shale. No show, no gas kick.
- 4528-33: bright pistachio green pyritic shale matrix, with chert fragments, as above. Some small vugs in chert. No show, no gas kick.
- 4533-33.5: very fine to fine grained sandy, slightly cherty green shale bleeding small amounts of heavy "dead" oil from very small scattered intergranular pores in sand. Did not register on gas unit.
- 4533.5-36: green to pistachio green shale matrix with chert fragments ranging in size from coarse sand to pebbles and cobbles. No show.
- 4536-38: green gray cherty, pyritic, dolomitic shale. No show, no gas kick.
- 4538-38.5: light tan, slightly cherty, shaley, glauconitic crystalline dolostone. No show, no gas kick.
- 4538.5-41.5: green, pyritic, glauconitic sand and sandy shale matrix with chert and vuggy chert fragments as well as some dolostone fragments. No show, no gas kick.
- 4541.5-42: mottled tan to gray sandy, glauconitic, very slightly cherty, tight dolostone. No show, no gas kick.
- 4542-45: green pyritic shale and glauconitic sandy shale matrix with fragments of blue gray to dull white chert and tan dolostone. Chert is slightly tripolitic, some with pinpoint to finger size vugs. No show, no gas kick.
- 4545-55: green, slightly pyritic glauconitic shale and dolomitic shale matrix with some scattered very fine to fine grained glauconitic sand stringers. Fragments of chert, as above. Some chert abraded, some secondary quartz (drusy). Chert very vuggy, pinpoint vugs to finger size. No show, no gas kick.

- 4555-63: cherty, dolomitic, sandy, glauconitic conglomerate with pale green to light tan sucrosic dolostone to dolomitic shale to green shale matrix. Pinpoint to finger size vugs in chert. No show, no gas kick.
- 4563-67: as above, but matrix more argillaceous. No show, no gas kick. (Generally, the conglomerate fragments in Core #4 are smaller than fragments in Cores 1, 2, and 3. Also, this section recovered in Core 4 is generally better indurated.)
- 4567-69: chert pebble conglomerate as above.

TOP MISSISSIPPIAN 4569

- 4569-72: light tan to tan, very slightly chalky, slightly pyritic, very slightly cherty, sucrosic to very finely crystalline very porous dolostone with numerous fossil casts (crinoid columnals and brachs). Some vertical fractures filled with grey green pyritic shale. Infrequent stylolitic partings are filled with gray pyritic shale. No show, no gas kick.
- 4572-73.5: as above, less porous. No show, no gas kick.
- 4573.5-74.5: dolostone as above with large gray white chert "nodules". No show, no gas kick.
- 4574.5-77.5: light tan to tan sucrosic to very finely crystalline dolostone with a few scattered chert (slightly vuggy) fragments. Generally less porous than 4569-72 interval, but with very good porosity in "stringers". No show, no gas kick.
- 4577.5-78: conglomeratic debris resembling closely the Basal Pennsylvanian Conglomerate. No show, no gas kick.
- 4578-78.5: fragments of dolostone as above with conglomerate as above. No show, no gas kick.
- 4578.5-79.5: assumed lost interval.

ORDOVICIAN VIOLA

- 4775-78: brown to tan sucrosic to finely crystalline dolostone with good vuggy and intercrystalline porosity. Thin, bedded dull white chert at top of core. No show, no gas kick.
- 4778-79: dolostone as above, with thin, bedded and banded chert at top and bottom of foot. No show, no gas kick.
- 4779-90: gray to slightly tan sucrosic --- finely crystalline porous dolostone interbedded with gray opaque chert nodules and thin, bedded gray and white chert. Chert decreasing in bottom few feet. No show, no gas kick.

Mobil Oil Co.: No. 1 Winans; C SE NW, 32-20-27W, Lane County

4556-60'

Gnathodus texanus

4561-65'

Gnathodus girtyi?

G. texanus

4571-75'

Gnathodus texanus

Neoprioniodus loxus

N. tulensis

Taphrognathus varians

4576-80'

Gnathodus texanus

Ligonodina roundyi

Mobil Oil Co.; #1 Winans; C SE NW; 32-20-27W; Lane Co., Kansas

4556' - no specimens.

4557-58' - no specimens.

4558-59'

(5) Gnathodus texanus

(1) fragment

4560-61'

(1) Gnathodus texanus

4561'

(1) Gnathodus texanus

4561-62'

(10) Gnathodus texanus

4562'

(2) Gnathodus texanus

4562-63'

(5) Gnathodus texanus

4563'

(2) Gnathodus texanus

(1) Gnathodus antetexanus

4563-64' - no specimens.

4564' - no specimens.

4566' - no specimens.

4567-68' - no specimens.

4569' - no specimens.

4569-70' - no specimens.

4570'

(1) Taphrognathus varians

4571'

(1) Taphrognathus varians

4572'

(1) Gnathodus texanus

4572-73'

(1) Gnathodus texanus

4573'

(2) Neoprioniodus

4573-74' - no specimens.

4574'

(1) Taphrognathus varians

4574-75'

(2) Taphrognathus varians

(1) Hindeodella

4575'

(1) ????

4576' - no specimens.

4576-77' - no specimens.

4577-78' - no specimens.

4579'

(2) Gnathodus texanus

4581' - no specimens.

4775'

(1) Acodus?

(U) #1 Winans; Mobil Oil Co.; C, SE, NW 32-20-27W; Lane Co., Kansas.
 Tops: Penn. Basal Congl. - 45238
 Sparg. - 4569'
 Kind. - 4629'
 Viola - 4761'

4556' - no specimens.
 4557-58' - no specimens.

4558-59'
 (5) Gnathodus texanus
 (1) fragment

4560-61'
 (1) Gnathodus texanus

4561'
 (1) Gnathodus texanus

4561-62'
 (10) Gnathodus texanus

4562'
 (2) Gnathodus texanus

4562-63'
 (5) Gnathodus texanus

4563'
 (2) Gnathodus texanus
 (1) Gnathodus antetexanus

4563-64' - no specimens.
 4564' - no specimens.
 4566' - no specimens.
 4567-68' - no specimens.
 4569' - no specimens.
 4569-70' - no specimens.

4570'
 (1) Taphrognathus varians

4571'
 (1) Taphrognathus varians

4572'
 (1) Gnathodus texanus

4572-73'
 (1) Gnathodus texanus

4573'
 (2) Neoprioniodus

4573-74' - no specimens.

4574'
 (1) Taphrognathus varians

4574-75'
 (2) Taphrognathus varians
 (1) Hindeodella

4575'
 (1) ????

4576' - no specimens.
 4576-77' - no specimens.
 4577-78' - no specimens.

4579'
 (2) Gnathodus texanus

4581' - no specimens.

4775'
 (1) Acedus ?

TOTALS: 30 samples
 41 specimens.

		<u>Gnathodus girtyi?</u>	<u>G. texanus</u>	<u>Ligonodina roundyi</u>	<u>Neoprioniodus loxus</u>	<u>N. tulensis</u>	<u>Taphrognathus varians</u>	
4556		-	X	-	-	-	-	Warsaw
4560		X	X	-	-	-	-	
		-	-	-	-	-	-	
		-	X	-	X	X	X	
4580		-	X	X	-	-	-	

Figure 7. #1 Winans, elevation 3614 feet. Stratigraphic interval sampled and conodont species recovered.

Could
be
(Cook's?)

Will
Go to

D. #1 Winans; Mobil Oil Co.; C SE NW sec. 32, T. 20 S., R. 27 W.; Lane County, Kansas (Fig. 7).

The formational tops are identified by the top card at the following depths; Pennsylvanian Basal Conglomerate at 4550 feet, Salem (Spergen) at 4569 feet. The predominance of Gnathodus texanus Roundy throughout the core of this well indicates the age of this rock sequence to be early Meramecian, within the lower portion of the Taphrognathus varians - Apatognathus? Assemblage Zone. The interval covered by this core is considered to be equivalent to the Warsaw Formation.