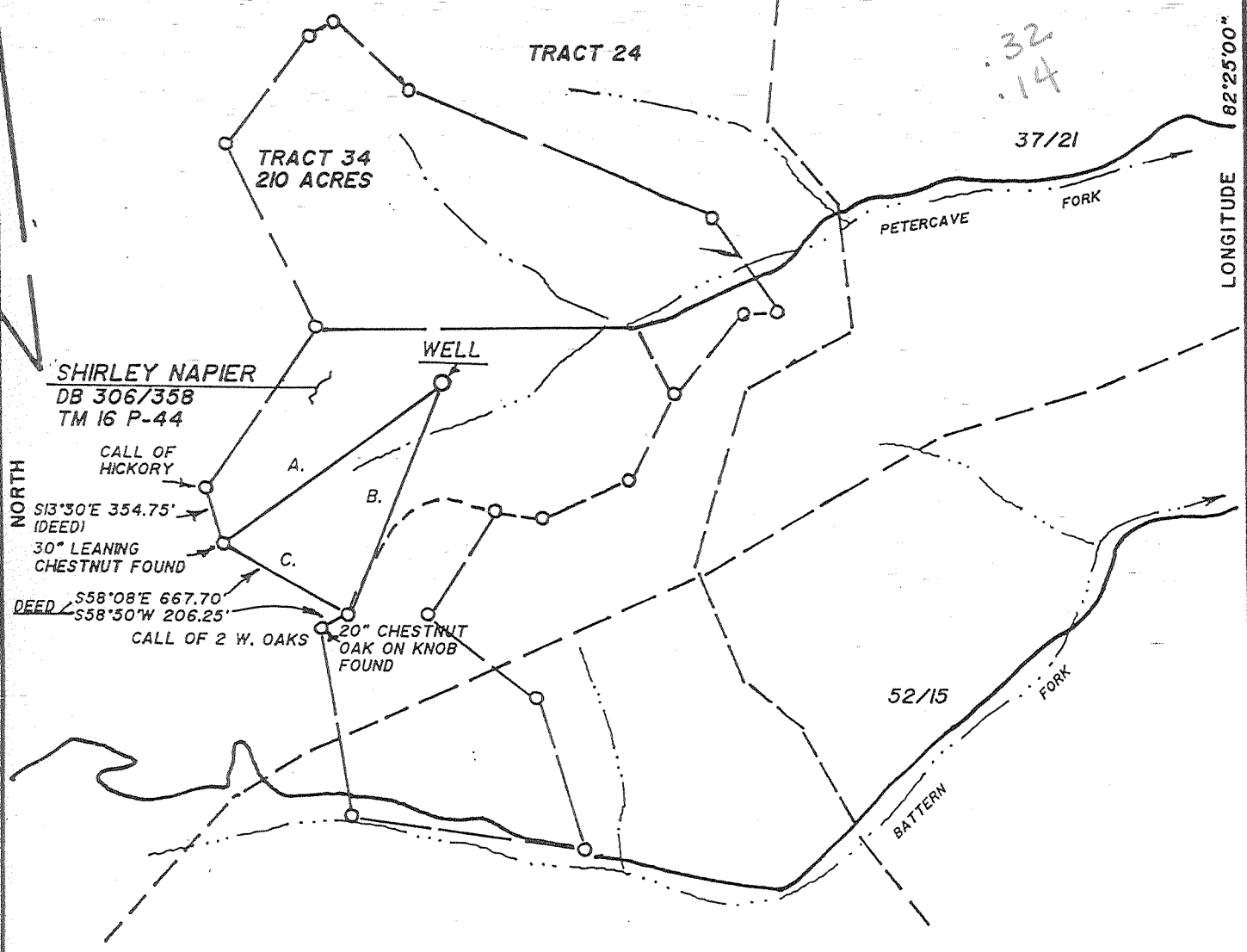


A. N46°45'22"E 1703.407'
B. S21°25'18"W 1603.301'
C. N63°34'57"W 731.670'

LATITUDE 38°10'00"

1680'

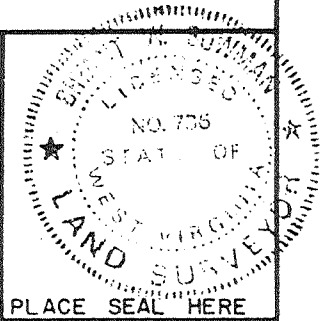
TOPO LOCATION 7.5'



NO REFERENCES NEEDED. WELL IS EXISTING.

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:5000
 PROVEN SOURCE OF ELEVATION EXISTING WELL 1913
 ELEVATION 806.01

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED, BY THE DEPARTMENT OF MINES.
 (SIGNED) Bryan D. Bowman
 R. P. E. _____ L. L. S. 736



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE JULY 10, 2000
 OPERATOR'S WELL NO. L-15R
 API WELL NO. 47-099-01975W
 STATE COUNTY PERMIT

Division of Environmental Protection
 Office of Oil & Gas

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___)
 LOCATION: ELEVATION 858 WATER SHED PETERCAVE FORK OF EAST FORK
 DISTRICT STONEWALL COUNTY WAYNE
 QUADRANGLE WAYNE, WV 7.5'
 SURFACE OWNER SHIRLEY NAPIER ACREAGE 75±
 OIL & GAS ROYALTY OWNER RUSSELL PRICHARD LEASE ACREAGE _____
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS PO BOX 387 DUFFIELD, VA 24244-0387 ADDRESS PO BOX 460 RAVENCLIFF, WV 25913

AUG 11 2000

DEEP WELL

MAY 1975 W

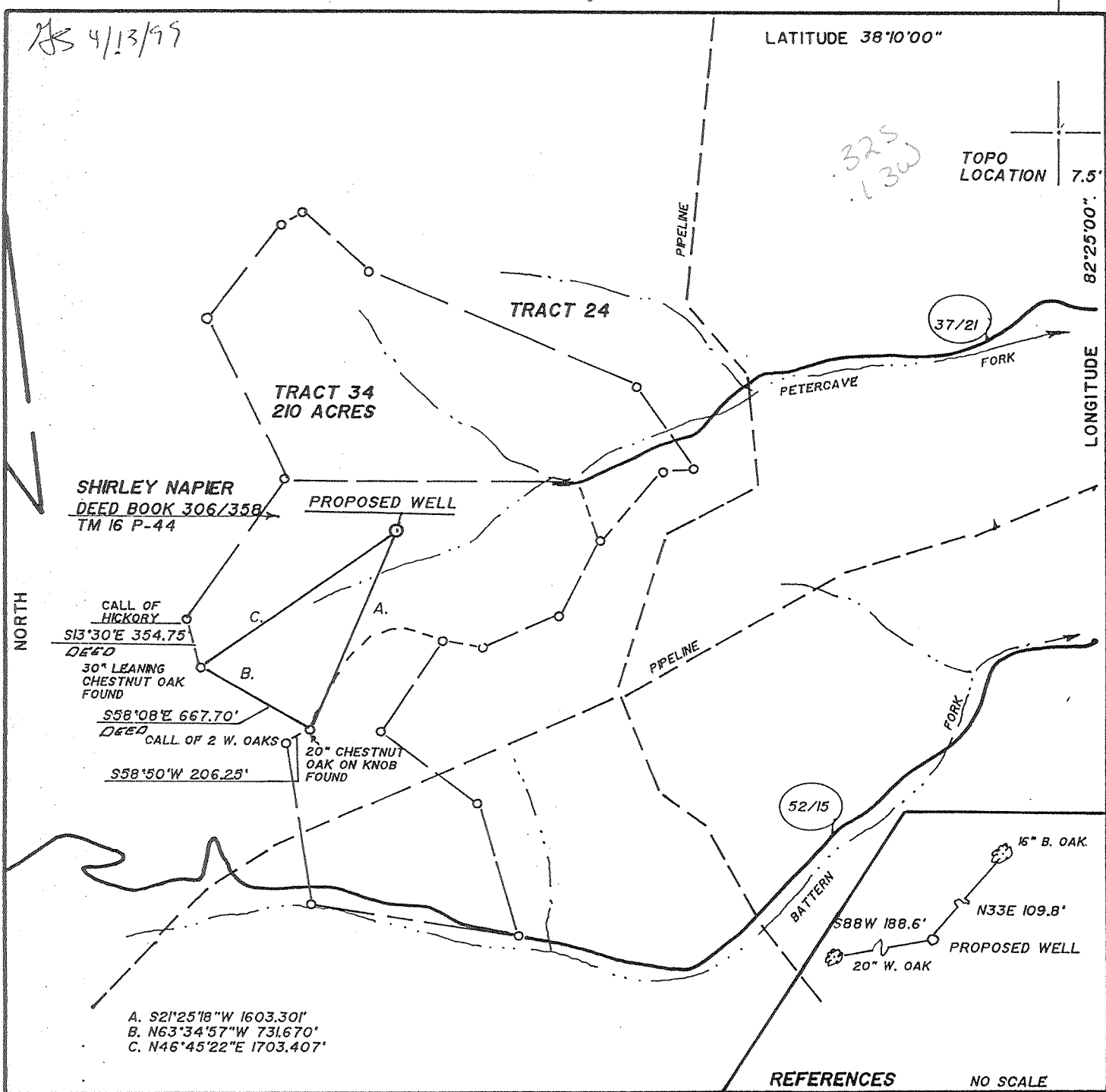
AS 4/13/99

LATITUDE 38°10'00"

TOPO LOCATION 7.5'

LONGITUDE 82°25'00"

325
13W



REFERENCES NO SCALE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/5000
 PROVEN SOURCE OF ELEVATION EXISTING WELL 1913
ELEVATION 806.01

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) *Russell Prichard*
 R. P. E. _____ L. L. S. 736

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF OIL AND GAS
 PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



DATE JANUARY 15 19 99
 OPERATOR'S WELL NO. L-15R
 API WELL NO. 47 - 099 - 01975
 STATE COUNTY PERMIT

FORM IV - (1) WEST VIRGINIA (8-78) DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS #10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS", PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___)
 LOCATION: ELEVATION 879 WATER SHED PETERCAVE FORK OF EAST FORK
 DISTRICT STONEWALL COUNTY WAYNE
 QUADRANGLE WAYNE, WV 7.5'

SURFACE OWNER SHIRLEY NAPIER ACREAGE 75±
 OIL & GAS ROYALTY OWNER RUSSELL PRICHARD LEASE ACREAGE 5140±
 LEASE NO. _____

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION LOCKPORT ESTIMATED DEPTH 4800'
 WELL OPERATOR PENN VIRGINIA OIL & GAS CORP DESIGNATED AGENT MR. HARRY JEWEL
 ADDRESS 999 EXECUTIVE PARK BLVD., SUITE 300 ADDRESS PO BOX 460
KINGSPORT, TN 37660 RAVENCLIFF, WV 25913

APR 19 1999

WAY 1975

DEEP WELL

6-6 353

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Reviewed ALB

Well Operator's Report of Well Work

Farm name: Napier, Shirley Operator Well No.: L-15R
LOCATION: Elevation: 858' Quadrangle: Wayne WY 7.5'
District: Stonewall County: Wayne
Latitude: 1680 Feet South of 38 Deg. 10 Min. 0 Sec.
Longitude 700 Feet West of 82 Deg. 25 Min. 0 Sec.

Company: Penn Virginia Oil & Gas Corporation

Address: P.O. Box 387
Duffield, VA 24244

Agent: Harry Jewell
Inspector: Dave Belcher

Date Permit Issued: 8/9/00
Date Well Work Commenced: 10/9/00
Date Well Work Completed: 10/25/00

Verbal Plugging:

Date Permission granted on:

Rotary X Cable Rig

Total Depth (feet):
Fresh Water Depth (ft.):
Salt Water Depth (ft.):

Is coal being mined in area (N/Y)?
Coal Depths (ft.):

Casing & Tubing	Used in drilling	Left in well	Cement fill
			Office of Dip. (Ga. Ft.) Permitting
			APR 13 2001
			WV Division of Environmental Protection
			<i>Recompletion</i>

OPEN FLOW DATA

Producing formation Lower Huron & Berea Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 25 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 510 psig (surface pressure) after 96 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Richard Waddell
By: _____
Date: 11-13-00

MAY 4 2001
MAY 1975 W

FORM WR-35R
(REVERSE)

PERMIT #: 47-99-01975
WELL #: L-15R

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Set CIBP at 3990'. Spotted 5 sx latex cement on top of CIBP. Perforated with 4 SPF at 2825'-2826'. Squeezed 4 1/2" casing with 350 sx cement. TOC at 2738'. Perforated with 4 SPF at 2738'-2739'. Re-squeezed 4 1/2" casing with 315 sx cement. TOC at 1860'.

Stage 1 - Lower Huron - Perforated from 2840' to 3030' with 47 holes. Breakdown with 500 gallons 7.5% HCL acid and N2. Treated with 307000 SCF N2. ISIP: 960 psi. ATP: 1362 psi. ATR: 25500 SCF/min.

Stage 2 - Berea - Perforated from 2135' to 2137' with 4 holes, 2149' to 2151' with 4 holes and 2184' to 2190' with 12 holes. Breakdown with 500 gallons 7.5% HCL acid and N2. Treated with 438 bbls gelled water and 30600 lbs 20/40 sand. ISIP: 1527 psi. ATP: 2491 psi. ATR: 12 BPM.

WP-35 RECEIVED
Office of Oil & Gas
Permitting
JUN 09 2000
WV Division of
Environmental Protection

DATE: 06/05/00
API #: 47-99-01975

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work



Reviewed _____

Farm name: Napier, Shirley Operator Well No.: L-15R

LOCATION: Elevation: 879' Quadrangle: Wayne

District: Stonewall County: Wayne
Latitude: 1680 Feet South of 38 Deg. 10 Min. 0 Sec.
Longitude 700 Feet West of 82 Deg. 25 Min. 0 Sec.

Company:
Penn Virginia Oil & Gas Corporation

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: P.O. Box 387	20"	24'	24'	0
Duffield, VA 24244	13 3/8"	313'	313'	307
Agent: Harry Jewell	9 5/8"	1373'	1373'	564
Inspector: Dave Belcher	4 1/2"	4128'	4128'	487
Date Permit Issued: 04/16/99				
Date Well Work Commenced: 11/06/99				
Date Well Work Completed: 1/19/00				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 4160'				
Fresh Water Depth (ft.): 1" @ 425', 1 1/2" @ 764' and 5" @ 1415'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				

OPEN FLOW DATA

Producing formation Lockport Dolomite Pay zone depth (ft) 4012'-4020'
Gas: Initial open flow 115 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 25 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 950 psig (surface pressure) after 280 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: _____
By: James K. Welch
Date: 6/5/00

JUN 09 2000

MAY 1975

FORM WR-35R
(REVERSE)

PERMIT #: 47-99-01975
WELL #: L-15R

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

Stage 1 Lockport Perforated from 4012' to 4020' with 64 holes. Breakdown 250 gallons 15% HCL acid and water. Treated with 500 gallons 15% HCL acid.
ATR: 2.5 BMP ATP: 3400 psi ISIP: 2900 psi

<u>FORMATIONS</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>REMARKS</u>
Breathitt	0	873	
Salt Sand	873	1230	
Pennington	1230	1317	
Little Lime	1317	1348	
Big Lime	1348	1517	
Big Injun	1517	1624	
Borden	1624	2133	
Berea	2133	2237	
Devonian Shale	2237	3287	
Corniterous Lime	3287	4050	
Big Six	4050	4090	
Rose Hill	4090	TD	

6.6. 10 8913