

Latitude

382730

0-0855
7.5' loc
Ma 7/16/1995

0.375

0.75W

518

Longitude

Topo Location

7.5' Loc. _____ 15' Loc. 3.255
(calc.) 0.75W

Company _____

Farm _____

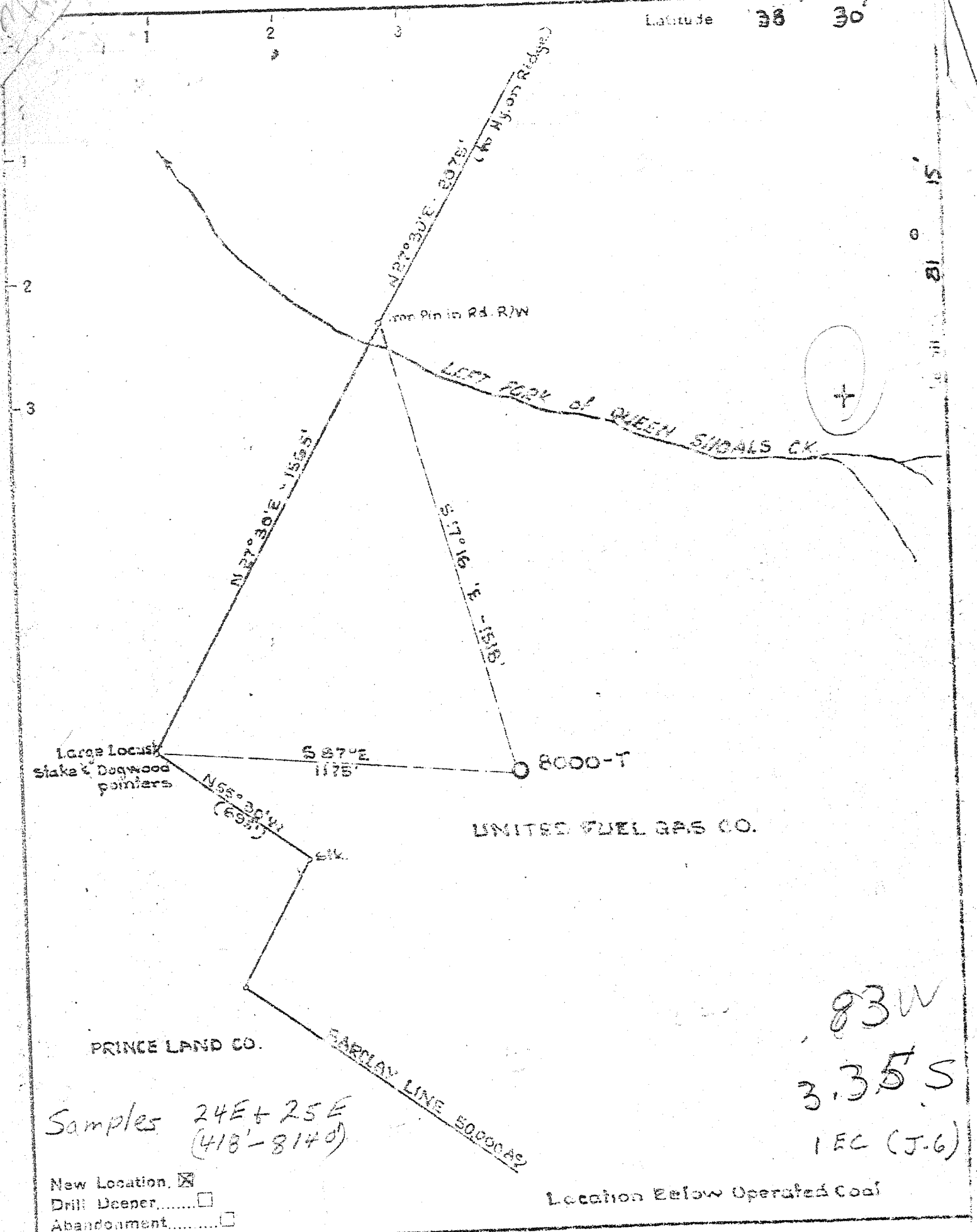
15' Quad Clendenine
(sec.) _____

7.5' Quad Clendenin _____

District _____

WELL LOCATION PLAT

County 015 Permit 513



UNITED FUEL GAS CO.

PRINCE LAND CO.

SARTAN LINE 50000042

Samples 24E + 25E (418' - 814')

83W
3.35S
1 EC (J.6)

- New Location
- Drill Deeper
- Abandonment

Location Below Operated Coal

Company UNITED FUEL GAS CO.
 Address CHARLESTON, W. VA.
 Farm M.F.G. CO. FEE
 Tract _____ Acres 1057 Lease No. 17673
 Well (Farm) No. _____ Serial No. 8000-T
 Elevation (Spirit Level) 1022.5 1142.46
 Quadrangle CLANDENIN - NE
 County CLAY District 25 N1011
 Engineer Jeffrey R. Russell
 Engineer's Registration No. 2522
 File No. 80-65 Drawing No. _____
 Date 2-12-52 Scale 1" = 100'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

RRP WELL LOCATION MAP
 FILE NO. CLAY 513

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

3-0-220

418-8140' 24+25 E V208 Deep Well

May 513

998 - 188 - 192

998 - 575 - 578

285 - 860 - 1520

310 - 1520 - 1702

325 - 1557 - 1625

331 - 1675 - 1697

334 - 1697 - 1702

340 - 1702 -

345 - 1702 - 1800

365 - 1800 - 1828

369 - 1828 - 1838

383 - 1838 - 1900 [375]

461 - 5595 - 5736

475 - 5736 - 5782

485 - 5782 - 6135

519 - 6135 - 6638

535 - 6638 - 6668

545 - 6668 - 6930

553 - 6930 - 6978

555 - 6978 - 7420

575 - 7420 - 7500

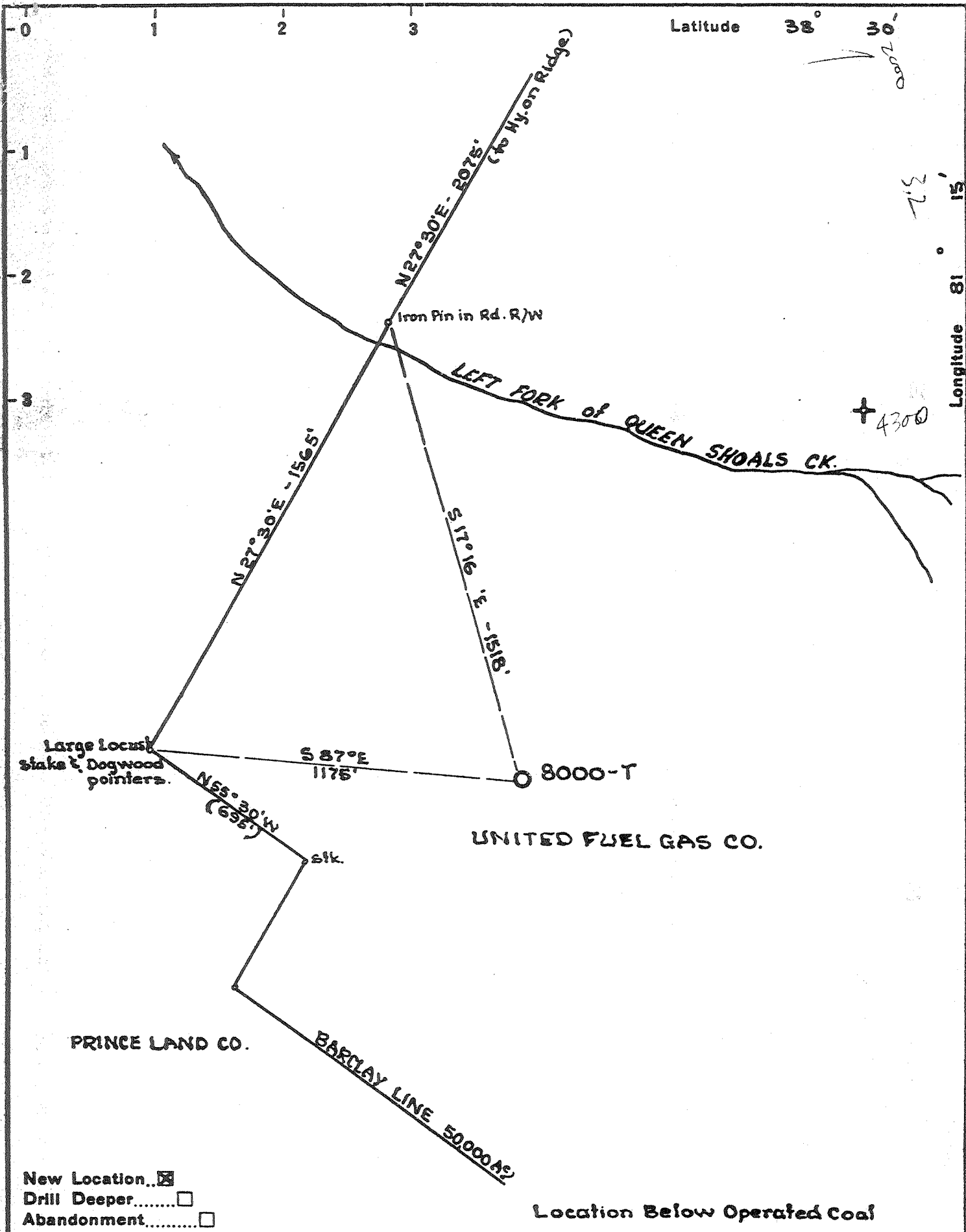
615 - 7500 - 8117

635 - 8117 -

UCR interpretations

of Geology

5/3/74



Company UNITED FUEL GAS CO.
 Address CHARLESTON, W.VA.
 Farm U.F.G.CO. FEE
 Tract _____ Acres 1057 Lease No. Pt. 17675
 Well (Farm) No. _____ Serial No. 8000-T
 Elevation (Spirit Level) 1226.9
 Quadrangle CLENDENIN
 County CLAY District UNION
 Engineer Jayker R. Fuell
 Engineer's Registration No. 2529
 File No. 80-65 Drawing No. _____
 Date 2-18-52 Scale 1"=400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. CLAY-513

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

"IMPERIAL" TRACING CLOTH
 K & E CO., N. C.

DEEP WELL

U-1000 - T

CLAY - 5/2

United Fuel Gas Company Fee
 United Fuel Gas Company
 Union District, Clay County, W. Va.
 Map Square - 80-65
 Commenced - 5-27-52
 Completed - 9-12-53
 Elevation - 1142.46'

Size	Weight	Point	in Well
13-3/8"	48#	594'	
10-3/4"	40.5#	1708'	
8-5/8"	36#	5080'	2156'
7"	23#	5614'	732'
3-1/2" tubing	9.2#	8144'	2179'

PACKER: 3-1/2"x7"x16" Hook Wall & Anchor set at 7130'

CONTRACTOR: Ray Brothers & Moran Drilling Co.

Soil	0	15
Sand	15	30
Slate	30	40
Sand	40	175
Slate	175	188
Coal	188	192
Slate & Shells	192	240
Sand	240	390
Slate	390	575
Coal	575	578
Slate & Shells	578	620
Sand	620	685
Lime	685	725
Slate & Shells	725	884
Sand	884	975
Slate & Shells	975	981
Sand	981	1040
Slate	1040	1055
Sand	1055	1515
Lime	1515	1525
Slate	1525	1530
Red Rock	1530	1537
Lime	1537	1557
Sand	1557	1630
Lime	1630	1658
Maxon Sand	1658	1672
Lime	1672	1697
Pencil Cave	1697	1704
Big Lime	1704	1800
Injun Sand	1800	1825
Slate	1825	1835
Red Sand	1835	1900
Slate & Shells	1900	2240
Brown Shale	2240	2255
Berea Shells	2255	2275
Slate & Shells	2275	3370
Brown Shale	3370	3440
Slate & Shells	3440	3875
Gray Shale	3875	4050
Brown Shale	4050	4250
Slate & Shells	4250	4360
Big White	4360	4760
Brown Shale	4760	5124
White Slate	5124	5223
Brown Shale	5223	5416
Slate & Shells	5416	5505
Brown Shale	5505	5598
Corniferous Lime	5598	5737
Oriskany Sand	5737	5779 4"
Lime Break	5779	5783
Sand	5783	5805
Lime	5805	5812

Lime	5812	6187
Salina	6187	6635
Newberg	6635	6675
Keefer	6930	6980
Clinton Shale	6980	7415
Clinton Sand	7415	7499
Red Medina	7499	8117
Limestone	8117	8144
Total Depth		8144'

Water 390'

Show gas 946'
Show gas 1035'

Hole full water 1290'

Gas 1805' no test

Gas and water 5739-5742'

Gas and water 7450-7490' 660 M, drowned out

NOT SHOT

DRY HOLE

PLUGGED AND ABANDONED - 2-25-54

6930
 1142
 -5784

5737
 42
 -4595



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Calenderin

WELL RECORD

Permit No. CLA-513

Oil or Gas Well Dry Hole

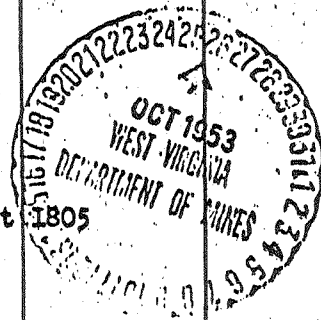
Company United Fuel Gas Company
Address P. O. Box 1273, Charleston 25, W. Va.
Farm U. F. G. Co. Fee Acres 1057
Location (waters) Lt. Fk. of Queens Shoals Ck.
Well No. 8000 Elev. 1226.9
District Union County Clay
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by United Fuel Gas Co.
Address Charleston, W. Va.
Drilling commenced 5-27-52
Drilling completed 9-12-53
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume Dry Hole _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 390' feet 1285' feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16		30'	Kind of Packer
18		605'	Wall & Anchor
10		1708'	Size of
8 1/2		5080'	
8 3/8 7"		5614'	Depth set
5 3/16			7425-7430'
8 1/2		8144'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 188 FEET 48 INCHES
575 FEET 36 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	15			
Sand			15	30			
Slate			30	40			
Sand			40	175			
Slate			175	188			
Coal			188	192			
Slate & Shells			192	240			
Sand			240	390	Water at 390'		
Slate			390	575			
Coal			575	578			
Slate & Shells			578	620			
Sand			620	685			
Lime			685	725			
Slate & Shells			725	884			
Sand			884	975	Show of gas 946'		
Slate & Shells			975	981			
Sand			981	1040	Show of gas at 1035		
Slate			1040	1055			
Sand			1055	1515	Water sand at 1285'		
Lime			1515	1525	Hole full at 1290		
Slate			1525	1530			
Red Rock			1530'	1537			
Lime			1537	1557			
Sand			1557	1630			
Lime			1630	1658			
Maxon Sand			1658	1672			
Lime			1672	1697			
Pencil Cave			1699	1704			
Big Lime			1704	1800			
Injun Sand			1800	1825			
Slate			1825	1835	Show gas at 1805		
Red Sand			1835	1900			
Slate & Shells			1900	2240			
Brown Shale			2240	2255			
Shells			2255	2275			
Slate & Shells			2275	3370			
Brown Shale			3370	3440			
Slate & Shells			3440	3875			
Gray Shale			3875	4050			
Brown Shale			4050	(Over) 250			



1704
1224
3477

Big White	4360	4760
Brown Shale	4760	5124
White Slate	5124	5223
Brown Shale	5223	5416
White Slate & Shells	5416	5505
Brown Shale	5505	5598
Corniferous Lime	139' 5598	5737
Oriskany Sand	22' 5737	5779
Lime Break	5779	5783
Sand	850' 5783	5805
Lime	5805	6187
Salina	6187	6635
Newberg	10' 6635	6675
Lime & Dolomite	255' 6675	6930
Keefer	50' 6930	6980
Clinton Shale	435' 6980	7415
Clinton Sand	24' 7415	7449
Red Medina	618' 7449	8117
Limestone	8117	8144
Total depth	8144	

7415
1227
6188

5598
1227

4371
Correct

Show gas & water 4296' of water in
in hole

5737
1227

4510
Oriskany

6635
1737

4898
Newberg

6930
1227

5703
Keefer

Gas & Water 7450'-7490'

7415
1227

6188
Clinton S.

Date October 23, 19 53

APPROVED UNITED FUEL GAS COMPANY Owner



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 2

Clendenin

WELL RECORD

Abandoned

Permit No. CLA-513

Oil or Gas Well Dry Hole
(KIND)

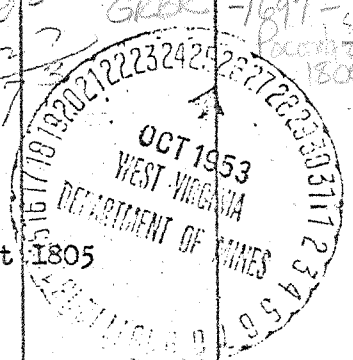
Company United Fuel Gas Company
Address P. O. Box 1273, Charleston 25, W. Va.
Farm U. F. G. Co. Fee Acres 1057
Location (waters) Lt. Fk. of Queens Shoals Ck. *42'*
Well No. 8000 Elev. 1226.9
District Union County Clay
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by United Fuel Gas Co.
Address Charleston, W. Va.
Drilling commenced 5-27-52
Drilling completed 9-12-53
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Dry Hole _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 390' feet 1285' feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16		30'	Wall & Anchor
18		605'	Size of
10		1708'	Depth set
8 1/2		5080'	7425-7430'
7"		5614'	Perf. top
5 3/16		8144'	Perf. bottom
3 1/2			Perf. top
2			Perf. bottom
Liners Used			

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT 188 FEET 48 INCHES
575 FEET 36 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	15			
Sand			15	30			
Slate			30	40			
Sand			40	175			
Slate			175	188			
Coal			188	192			
Slate & Shells			192	240			
Sand			240	390	Water at 390'		
Slate			390	575			
Coal			575	578			
Slate & Shells			578	620			
Sand			620	685			
Lime			685	725			
Slate & Shells			725	884			
Sand			884	975	Show of gas 946'		
Slate & Shells			975	981			
Sand			981	1040	Show of gas at 1035		
Slate			1040	1055			
Sand - Salt Sand			1055	1515	Water sand at 1285'		
Lime			1515	1525	Hole full at 1290		
Slate			1525	1530			
Red Rock			1530'	1537			
Lime			1537	1557			
Sand - <i>Maryland</i>			1557	1630			
Lime			1630	1658			
Maxon Sand			1658	1672			
Lime - <i>L. Lime</i>			1672	1697			
Pencil Cave			1697	1704			
Big Lime			1704	1800			
Injun Sand - <i>365-340</i>			1800	1825			
Slate			1825	1835	Show gas at 1805		
Red Sand - <i>Maryland</i>			1835	1900			
Slate & Shells			1900	2240			
Brown Shale - <i>coffee sh</i>			2240	2255			
Shells - <i>Berea</i>			2255	2275			
Slate & Shells			2275	3370			
Brown Shale - <i>441</i>			3370	3440			
Slate & Shells			3440	3875			
Gray Shale			3875	4050			
Brown Shale			4050				

*TOP 1634
Bot 1800*



GEOLOG DEPTHS

*1700
1704*

*1704
1530-1697
1697-1800
1800-2255*

GEOLOG

Formation	Color	Hard or Soft	Top Z	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big White			4360	4760			
Brown Shale			4760	5124			
White Slate			5124	5223			
Brown Shale			5223	5416			
White Slate & Shells			5416	5505			
Brown Shale			5505	5598			
Corniferous Lime - <i>46</i>			5598	5737			
Oriskany Sand			5737	5779	← Show gas & water in hole	4296'	of water in
Lime Break			5779	5783			
Sand	<i>Held</i>		5783	5805			
Lime			5805	6187			
Salina			6187	6635			
Newberg			6635	6675			
Lime & Dolomite - <i>McKenzie</i>			6675	6930			
Keefer			6930	6980			
Clinton Shale - <i>Rose Hill</i>			6980	7415			
Clinton Sand - <i>Tuscarora</i>			7415	7499	Gas & Water	7450'-7490'	<i>see sample study file</i>
Red Medina - <i>Juniata</i>			7499	8117			
Limestone - <i>Marlburg</i>			8117	8144			
Total depth			8144				
			<i>635</i>				
			<i>6635</i>	<i>6635</i>	<i>7499</i>	<i>6635</i>	
			<i>5737</i>	<i>1142</i>	<i>1142</i>	<i>5737</i>	<i>7499</i>
			<i>898</i>	<i>5493</i>	<i>6357</i>	<i>898</i>	<i>5598</i>
							<i>1901</i>
							<i>6930</i>
				<i>5598</i>	<i>5737</i>	<i>7415</i>	
				<i>1142</i>	<i>1142</i>	<i>1142</i>	<i>7415</i>
							<i>1142</i>
				<i>4456</i>	<i>4595</i>	<i>6273</i>	<i>6273</i>
							<i>7499</i>
					<i>5805</i>		<i>1142</i>
					<i>1142</i>		<i>6357</i>
					<i>4663</i>		

GEOLOG DEPTHS
 NRG-5595-5935
 RSK-5735-5845(?)
 DRG-5845(?) - 6135
 LIN-6135-6635
 NBP-6635-6668
 MCK-6668-6930
 KEF-6930-6978
 SHL-6978-7420
 TRR-7420-7500
 JUN-7500-8115
 MRG-8115

*from the log the base
 lines must be 5805
 (Newburg)*

Date October 23, 19 53

APPROVED UNITED FUEL GAS COMPANY, Owner

*6635
 6187
 448*

R. H. ...