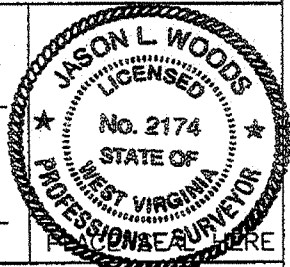


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE No 11-100-003
 DRAWING No. 11-100-003
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION TRIMBLE PRO XH GPS UNIT

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 DIVISION OF ENVIRONMENTAL PROTECTION.
 (SIGNED) [Signature] 1-14-11
 JASON L. WOODS PS #2174



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 NITRO, WV

DATE JANUARY 13 20 11
 OPERATOR'S WELL No. 7315
 API WELL No. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL 47 035 - 00498D
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW STATE COUNTY PERMIT

LOCATION: ELEVATION 649 WATER SHED MUD RUN
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE RIPLEY, WV

SURFACE OWNER GARY W. & ELLEN J. QUEISENBERRY ACREAGE 74.44
 OIL & GAS ROYALTY OWNER G.S. BARNHART, et al LEASE ACREAGE 100
 LEASE No. 51961

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ORISKANY ESTIMATED DEPTH 4,960'
 WELL OPERATOR COLUMBIA GAS TRANSMISSION, LLC DESIGNATED AGENT PAUL AMICK
 ADDRESS PO BOX 1273, CHARLESTON, WV 25325-1273 ADDRESS P.O. BOX 1273, CHARLESTON W.V. 25325-1273

FORM IV-6 (8-78)

02/11/2011

EK Poca (Sissonville) 7-0

WR-35
Rev (5-01)

DATE: 4/4/2011
API #: 47-035-00498

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Quesenberry, Gary & Ellen Operator Well No.: 7315

LOCATION: Elevation: 649 ft Quadrangle: Ripley

District: Ravenswood County: Jackson
Latitude: 1,560 Feet South of 38 Deg. 52 Min. 30 Sec.
Longitude 4,590 Feet West of 81 Deg. 40 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273				
Agent: Paul Amick Inspector: Jamie Stevens	This is an existing storage well - the 2-3/8" tubing was pulled - a new string of 3.5" tubing ran and cemented. Below is a record of current tubulars in well.			
Date Permit Issued: 2/8 2011	16	23	0	none
Date Well Work Commenced: 2/16/2011	13-3/8 48#	609	0	none
Date Well Work Completed: 4/1/2011	10-3/4 40#	1562	0	none
Verbal Plugging:	8-5/8 24#	2008	0	none
Date Permission granted on:	7 22#	4807	0	none
Rotary X Cable Rig	5-1/2 15.5#	4806	4806	400 sx
Total Depth (feet): 4969 (new ID)	3-1/2 9.2#	4968	4968	215
Fresh Water Depth (ft.): not applicable - rework				
Salt Water Depth (ft.): not applicable - rework				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): <u>none reported</u> ft				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 4878 - 4898
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d
Final open flow * 4,500 MCF/d Final open flow none Bbl/d
Time of open flow between initial and final tests not applicable Hours
Static rock pressure 1150 psig (surface pressure) after 24 Hours
* AOF @ max rock pressure of 1675 psig

Second Producing formation N/A 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:

Jamie E Amos
By: Jamie E. Amos - Senior Storage Engineer - Columbia Gas Transmission, LLC
Date: 4/4/11

RECEIVED
Office of Oil & Gas
APR 04 2011
WV Department of
Environmental Protection

Ripley storage well 7315 (035 - 00498)

This is an existing storage well. Below is a summary of work performed.

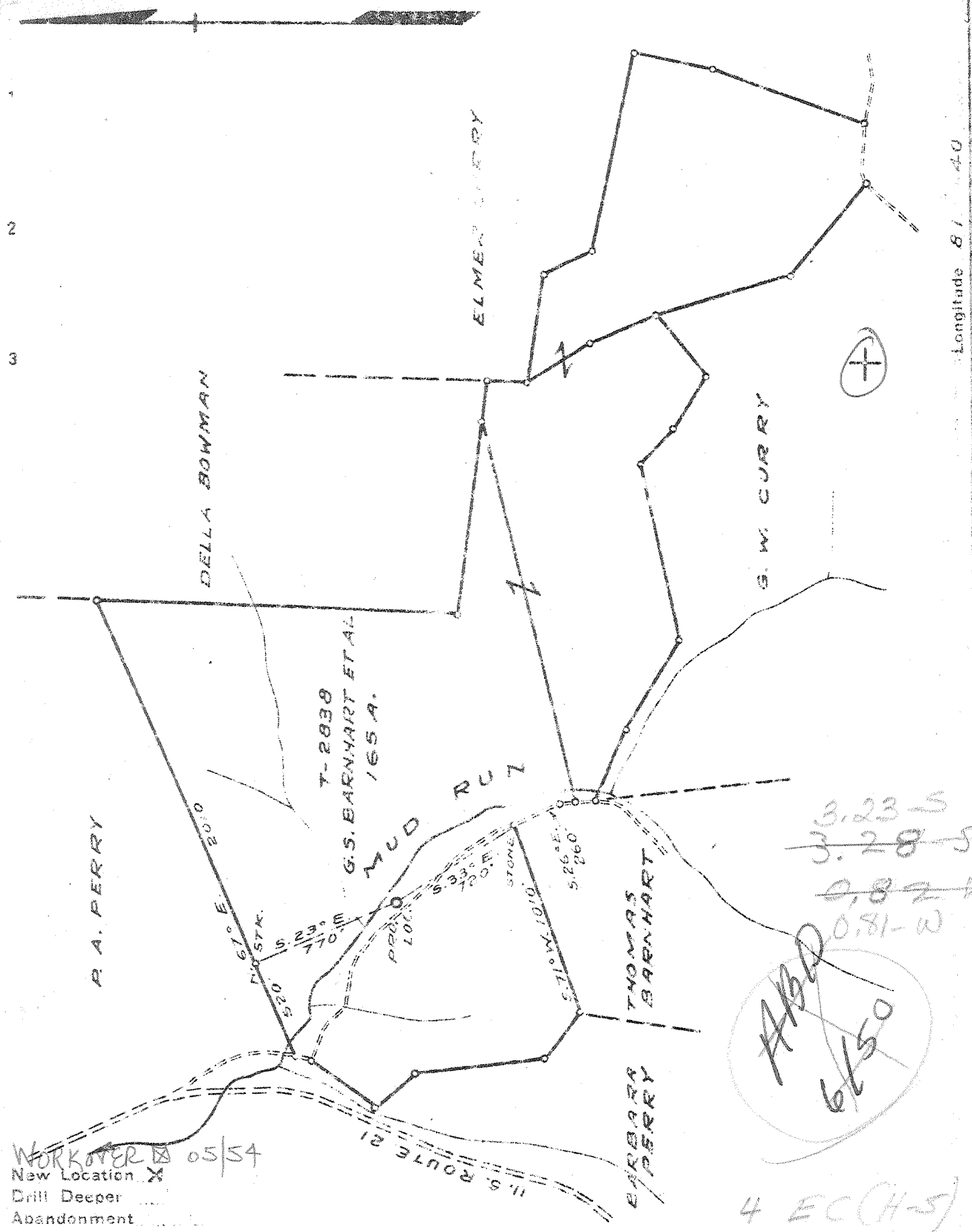
Well was killed, 2-3/8" tubing pulled, drilled deeper to 4969 ft, open hole logs ran, new 3-1/2" 9.2# J-55 casing ran and cemented, cement bond log ran, installed new wellhead, perforated, and fracture stimulated.

Logs ran: 3/14/2011	Baker Atlas Logging	Comp Z-Dens-CNL-PE
3/14/2011	Baker Atlas Logging	High Definition Induction
3/14/2011	Baker Atlas Logging	Rt Explorer

Perforations: 4878 - 4898 ft 6 SPF

Fracture stimulation: Superior Well Services
250 gals 15% HCl acid
330 bbls gel
151 MSCF nitrogen
20,100 lbs 20/40 Ottawa sand
Avg bottomhole rate: 14 BPM
ATP: 3436 psig
ISIP: 3463 psig
* well screened off

* Note that no earthen pit was utilized. All fluids recovered via steel tanks and transported off site to waste water treatment facility.



Company COLUMBIAN CARBON CO.
 Address CHARLESTON W. VA.
 Farm G. S. BARNHART ET AL
 Tract _____ Acres 165 Lease No. 72838
 Well (Farm) No. 1 Serial No. GW-825
 Elevation (Spirit Level) 647.3
 Quadrangle RIPLEY 4-325-084 WC
 County JACKSON District RAVENSWOOD
 Engineer J.N. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 345
 Date SEPT. 4, 1945 Scale 1" = 660'

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

WELL LOCATION MAP
 • FILE NO. JAC-498-W

+ 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.

FO 192

Storage Well Samples 17-B (10-516 & 2379-4876) Deep Well

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. 448

Oil or Gas Well Oil
(KIND)

Company Columbian Carbon Company
Address Box 873, Charleston 23, W. Va.
Farm G. S. Barnhart, etal Acres 165
Location (waters) Mid Run
Well No. 1 (G-825) Elev. 618.8 DF
District Ravenwood County Jackson
The surface of tract is owned in fee by G. S. Barnhart, etal
Address Sandyville, W. Va.
Mineral rights are owned by G. S. Barnhart, etal
(For further addresses contact C.C.C.)
Address _____
Drilling commenced 10-2-45
Drilling completed 12-31-45
Date Shot at From _____ To _____
With _____
Open Flow 10 /10ths Water in _____ Inch
10 /10ths Merc. in 7 22 Inch
Volume 5,071,000 Cu. Ft.
Rock Pressure 1500 lbs. 108 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 251 1220 feet _____ feet
Salt water 1510 feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16"	22'7"	22'7"	Kind of Packer <u>At</u>
12 3/8" <u>18'</u>	609'1"	pulled	Box Log Hole
10 1/2" <u>35-10'</u>	1561'6"	pulled	Size of <u>7"</u>
8 1/2" <u>21'</u>	2003'	pulled	Depth set <u>1200'</u>
5 3/16"	1807'1"	1807'1"	
3"			Perf. top _____
2 3/8" <u>347'</u>	1021'3"	1021'3"	Perf. bottom _____
Liners Used _____			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ D
see reverse side
COAL WAS ENCOUNTERED AT 202 FEET _____ INCH
_____ FEET _____ INCHES _____ FEET _____ INCH
_____ FEET _____ INCHES _____ FEET _____ INCH

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Top soil			0	3			
Red Rock			3	10			
Blue Slate			10	30			
Red Rock			30	65			
Blue Slate			65	105			
Red Rock			105	120			
Blue Slate			120	157			
Sand			157	180			
Red Rock			180	225			
Blue Slate			225	235			
Sand			235	289	F. water	250'	hole full
Red Rock			289	310			
Slate			310	355			
Sand			355	362			
Red Rock			362	395			
Slate			395	425			
Red Rock			425	449			
Slate			449	460			
Red Rock			460	482			
Sand			482	550			
Slate			550	623			
Lime			623	630			
Slate			630	725			
Red Rock			725	730			
Slate			730	750			
Red Rock			750	815			
Slate			815	852			
Lime			852	862			
Slate			862	1118			
Sand			1118	1160			
Slate			1160	1200			
Sand			1200	1218	F. water	1230'	2-1/2" hole
Black slate			1218	1282			
Sand			1282	1290			
Slate			1290	1310			
Sand			1310	1355			
Slate			1355	1400			
Sand			1400	1468			
Slate			1468	1506			
Sand			1506	1506			
Slate			1506	1506			
Soil (Lime)			1506	1506			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1558	1571			
Sand			1571	1576			
Slate			1576	1607			
Sand			1607	1683	S. Water	1620'	hole full
Slate			1683	1694			
Lime			1694	1806			
Sand			1806	1816			
Lime			1816	1863			
Slate			1863	1885			
Sand			1885	2010 SLM			
Slate & Shells			2010 SLM	2331			
Brown Shale			2331	2355	Gas	2337'	show
Slate & Shells			2355	2607			
Lime Shell (hard)			2607	2625			
Slate & Shells			2625	3020			
Slate			3020	3557			
Brown Shale			3557	3635			
Slate			3635	3825			
Brown Shale			3825	4110			
Slate			4110	4520			
	1728'DLM	1757'SLM					
Brown Shale			1520	1757 SLM			
Corniferous Lime			1757 SLM	1860 SLM			
Oriskany Sand			1860 SLM	4097'DLM			
			TOTAL DEPTH	4997'DLM	4992'SLM	GAS PAYS:	4005-4235'

CEMENT RECORD

10-18-15	13-3/8" casing. Ran 17 bags Aquagel and 50# Fibertex. Circulation while mixing. Returns 575'. Columbian Carbon Company Crew. Delbert Lawson, Cementer.						
10-28-15	10-3/4" casing. Ran 24 bags Aquagel and 50# Fibertex. Circulation 1210'. Returns 1350'. Delbert Lawson, Cementer, Columbian Carbon Company Crew.						
11-10-15	8-5/8" casing. Ran 24 sacks Aquagel and 50# Fibertex. Circulation while mixing. Returns 1675'. Delbert Lawson, Cementer, Columbian Carbon Crew.						
12-15-15	7" casing. Ran 50 sacks Aquagel and 14 bales Fibertex. Circulation and returns 2250'. Delbert Lawson, Cementer, Columbian Carbon Company Crew.						

Date January 19, 1942

APPROVED Columbian Carbon Company, Own

By O. W. [Signature] (Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 6

Quadrangle Ripley

WELL RECORD

Permit No. Jac.-498-R

Oil or Gas Well Storage
(KIND)

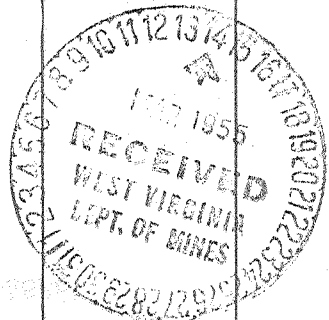
Company United Fuel Gas
Address Box 1273, Charleston, W. Va.
Farm G. S. Barnhart, et al #1 Acres 100
Location (waters) Mud Run
Well No. X-59-7315 Elev. 648.0
District Ravenswood County Jackson
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by Wayne Barnhart, et al
Address Sandyville, W. Va.
Drilling commenced 4-30-54
Drilling completed 5-5-54
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 3/4			Depth set
5 x 1 1/2	4799'	4799'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Soil			0	3			
Red Rock			3	10			
Blue Slate			10	30			
Red Rock			30	65			
Blue Slate			65	105			
Red Rock			105	120			
Blue Slate			120	157			
Sand			157	180			
Red Rock			180	225			
Blue Slate			225	235			
Sand			235	289			
Red Rock			289	310			
Slate			310	355			
Sand			355	362			
Red Rock			362	395			
Slate			395	425			
Red Rock			425	449			
Slate			449	460			
Red Rock			460	482			
Sand - 1/2 P.H. Sand 2			482	550			
Slate			550	623			
Lime			623	630			
Slate			630	725			
Red Rock			725	730			
Slate			730	750			
Red Rock			750	815			
Slate			815	852			
Lime			852	862			
Slate			862	1148			
Sand			1148	1160			
Slate			1160	1200			
Sand			1200	1248			
Black Slate			1248	1282			
Sand			1282	1290			
Slate			1290	1310			
Sand			1310	1355			
Slate			1355	1400			
Sand			1400	1468			
Slate			1468	1486			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1486	1505			
Slate			1505	1549			
Shell (Lime)			1549	1558			
Slate			1558	1571	Show gas	2337'	
Sand			1571	1576			
Slate			1576	1607			
Sand			1607	1683	Gas 4865-4886'		
Slate			1683	1694			
Lime - Big Lime			1694	1806			
Sand - Kicker			1806	1846			
Lime			1846	1863			
Slate			1863	1885			
Sand - In ...			1885	2010			
Slate & Shells			2010	2331			
Brown Shale - C...			2331	2355			
Slate & Shells			2355	2607			
Lime Shell			2607	2625			
Slate & Shells			2625	3020			
Slate			3020	3557			
Brown Shale - 441			3557	3635			
Slate			3635	3825			
Brown Shale			3825	4110			
Slate			4110	4520			
Brown Shale			4520	4757			
Corniferous Lime - 443			4757	4860			
Oriskany Sand			4860	4892			
Total Depth				4892'	SIM		

475

Date March 11, 1955

APPROVED United Fuel Gas Co., Owner

[Signature]