

NOTES:
This Map Is For Well Location Purposes Only & Does Not Represent A Complete Property Survey.
No Water Wells Or House Within 200'.
FB 2685, PG. 14

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2')

FILE NO. _____
DRAWING NO. 7343
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200'
PROVEN SOURCE OF ELEVATION EXISTING WELL

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 ENERGY.
(SIGNED) _____
R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE July 13, 2009
OPERATOR'S WELL NO. 7343
API WELL NO. _____

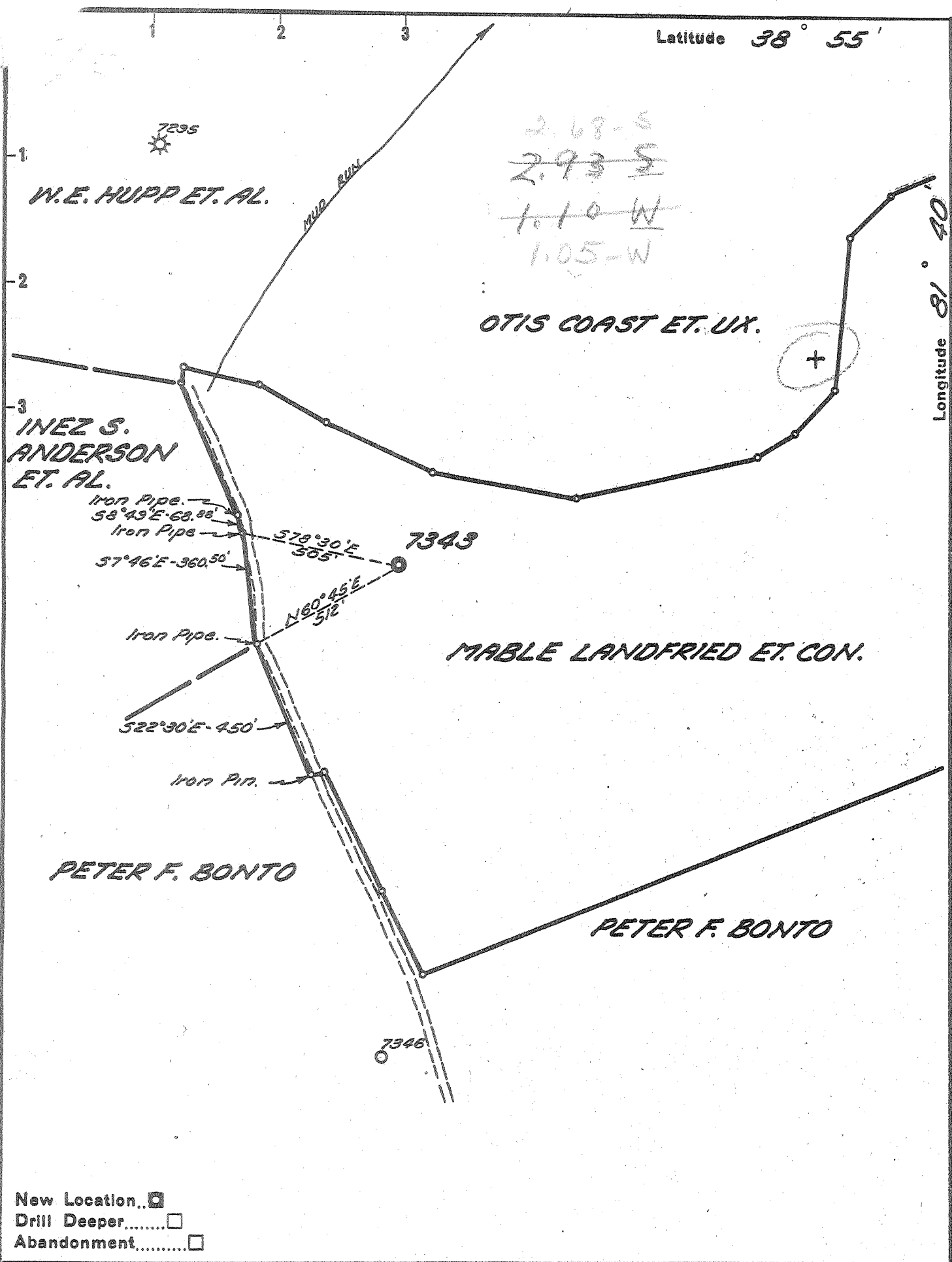
WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE X DEEP _____ SHALLOW _____
LOCATION: ELEVATION 737' WATER SHED Mud Run of Sandy Creek
DISTRICT Ravenswood COUNTY Jackson
QUADRANGLE Sandyville, WV COORDINATES LAT: 38°52'44" LONG: 81°41'13"
SURFACE OWNER Michael W. & Billie J. Deberry ACREAGE 103.01
ORIGINAL OIL & GAS ROYALTY OWNER Mabel Landfried, etcon LEASE ACREAGE 93
COAL OWNER _____ LEASE NO. 1052291
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recondition

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT PAUL AMICK
ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

JACKSON COUNTY NAME PERMIT 00917

SEP 11 2009

P



Latitude 38° 55'

Longitude 81° 40'

W.E. HUPP ET. AL.

OTIS COAST ET. UX.

INEZ S. ANDERSON ET. AL.

MABLE LANDFRIED ET. CON.

PETER F. BONTO

PETER F. BONTO

- New Location..
- Drill Deeper.....
- Abandonment.....

Company	<u>UNITED FUEL GAS CO</u>
Address	<u>CHARLESTON W. VA.</u>
Farm	<u>MABLE LANDFRIED ET. CON.</u>
Tract	Acres <u>93</u> Lease No. <u>52291</u>
Well (Farm) No.	Serial No. <u>7343</u>
Elevation (Spirit Level)	<u>737.13'</u>
Quadrangle	<u>RIPLEY - WC</u>
County	<u>JACKSON, District RAVENSWOOD</u>
Engineer	<u>Seybert Russell</u>
Engineer's Registration No.	<u>2529</u>
File No.	<u>58-95</u> Drawing No. _____
Date	<u>4-18-56</u> Scale <u>1" = 400'</u>

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

WELL LOCATION MAP
 FILE NO. JAC-917

+ 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.

Storage Well 9-0-192

Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Stoupe
Oil or Gas Well Gas
(KIND)

Quadrangle Ripley
Permit No. JAC-917

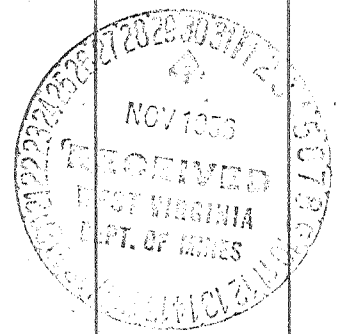
Company United Fuel Gas Company
Address P. O. Box 1273; Charleston 25, W. Va.
Farm Mable Landfried Acres 93
Location (waters) Mud Run
Well No. X-59-7343 Elev. 737.13
District Ravenswood County Jackson
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by First Federal Savings & Loan Assoc. Address East Liverpool, Ohio
Drilling commenced June 20, 1956
Drilling completed July 28, 1956
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 <u>3/8</u>		<u>85'</u>	
10			Size of
9 <u>5/8</u>		<u>2100</u>	
7 <u>3/4</u>		<u>4880</u>	Depth set
5 <u>3/16</u>			
3			Perf. top
2 <u>3/8</u>		<u>5000</u>	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 5,537,000 Cu. Ft.
Rock Pressure 1180 lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water _____ feet _____ feet

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
Sand & Shale			0	485	Gas	4937'	3,508 M
Shale			485	580			
Sand			580	623	Not fractured		
Shale & Lime			623	843			
Shale & Sand			843	905	FINAL OPEN FLOW - 5,537 M - Oriskany		
Shale			905	983	48 Hr. R.P. 1180#		
Shale & Lime			9 83	1005			
Shale			1005	1035	Shut in 9-13-56 in 2" tubing.		
Lime			1035	1075			
Shale			1075	1098			
Shale & Lime			1098	1224			
Sand & Shale			1224	1464			
Sand			1464	1789			
Lime			1789	1855			
Sandy Lime			1855	1886			
Lime			1886	1900			
Shale & Lime			1900	1905			
Sand			1905	1910			
Lime			1910	1939			
Sand & Shale			1939	1984			
Sand			1984	2033			
Sand & Shale			2033	2059			
Sandy Lime			2059	2080			
Shale			2080	2100			
Sand & Shale			2100	2809			
Sand & Shale			2809	4835			
Lime - Corniferous			4835	4880			
Sand - Oriskany			4936				
Total Depth			5000'				



485

Ripley storage well 7343 (035 - 00917)

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

Well was killed, 2-3/8" tubing pulled, drilled deeper to 5067 ft, open hole logs ran, new 4-1/2" 11.6# N-80 casing ran and cemented, cement bond log ran, installed new wellhead, perforated, and fracture stimulated.

Logs ran:	11/10/09	Baker Atlas Logging	Comp Z-Dens-CNL-GR-Caliper
	11/10/09	Baker Atlas Logging	High Def Induction-GR-Caliper

Perforations: 4926 - 4964 ft 6 SPF

Fracture stimulation: BJ Services
1000 gals 20% HCl acid
438 bbls gel
163.8 MSCF nitrogen
25,400 lbs 20/40 Ottawa sand
1,600 lbs 14/30 FlexSand ran in last sand stage
Avg bottomhole rate: 16 BPM
ATP: 3475 psig
ISIP: 4590 psig
* job screened off during flush

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