

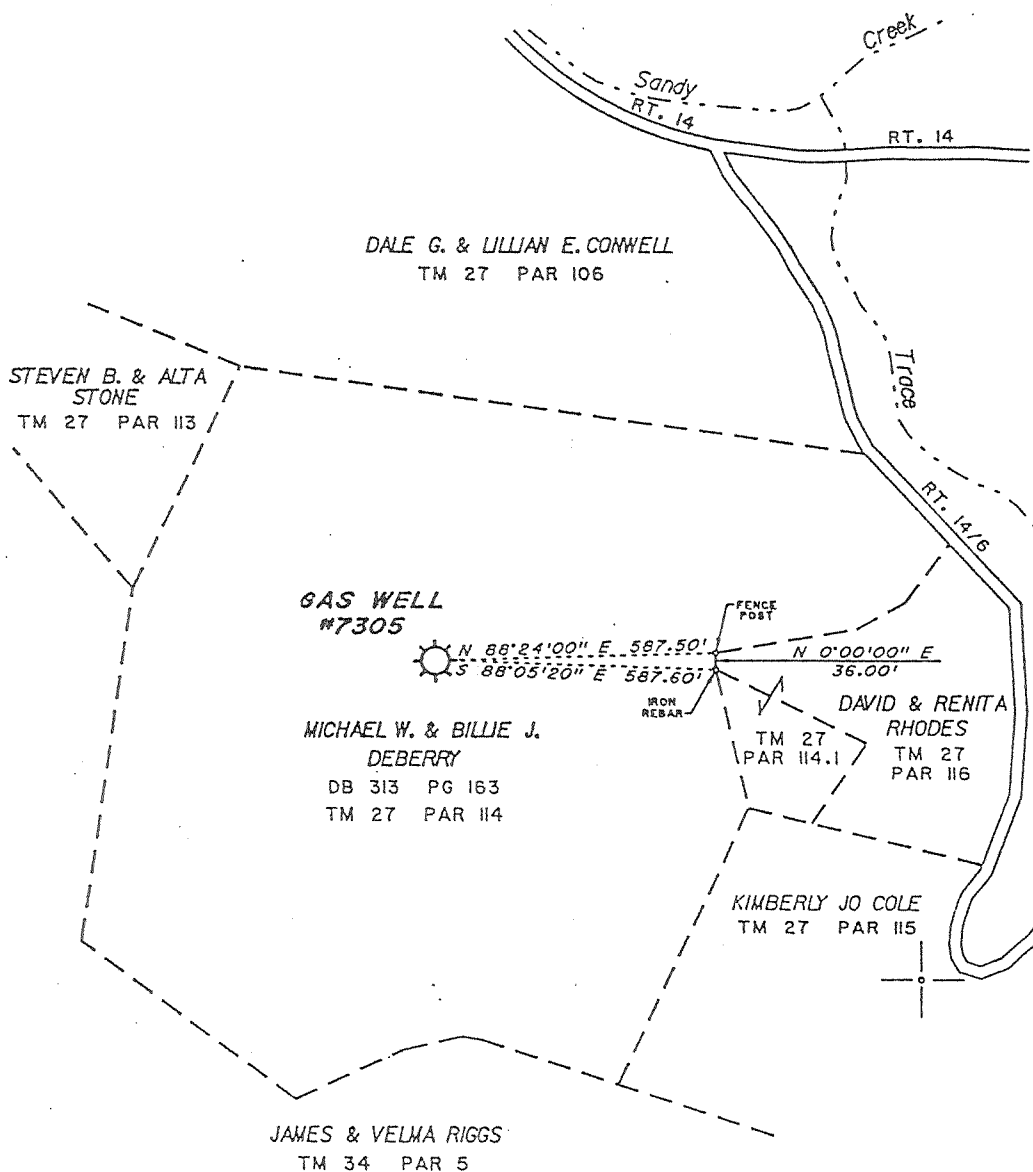
4,250'

LATITUDE 38°55'00"

LONGITUDE 81°40'00"

1,008'11"

NORTH



Notes:
 This Map is For
 Well Location Only &
 Does Not Represent
 A Complete Property Survey.
 No Houses Or Water Wells Within 200'.

NB 2670 PG 9-10

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

FILE NO. _____
 DRAWING NO. 7305
 SCALE 1" = 400'
 MINIMUM DEGREE OF
 ACCURACY 1/200'
 PROVEN SOURCE OF
 ELEVATION USGS BM "Q 103
1956" ELEV. 596.37

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY.
 (SIGNED) [Signature]
 R.P.E. _____ L.L.S. 798



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL
 PROTECTION
 SECTION OF OIL & GAS



DATE _____, 2002
 OPERATOR'S WELL NO. 7305
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 658 WATER SHED TRACE FORK OF SANDY CREEK
 DISTRICT RAVENSWOOD COUNTY JACKSON
 QUADRANGLE SANDYVILLE COORDINATES LAT: 38°53'03" LONG: 81°40'54"
 SURFACE OWNER MICHAEL W. & BILLIE J. DEBERRY ACREAGE 47
 ORIGINAL OIL & GAS ROYALTY OWNER RUSSELL G. HUPP, ET UX. LEASE ACREAGE 42
 COAL OWNER _____ LEASE NO. 1052500

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 ADDRESS PO Box 1273, Charleston, WV
25325-1273 25325-1273

COUNTY NAME

PERMIT

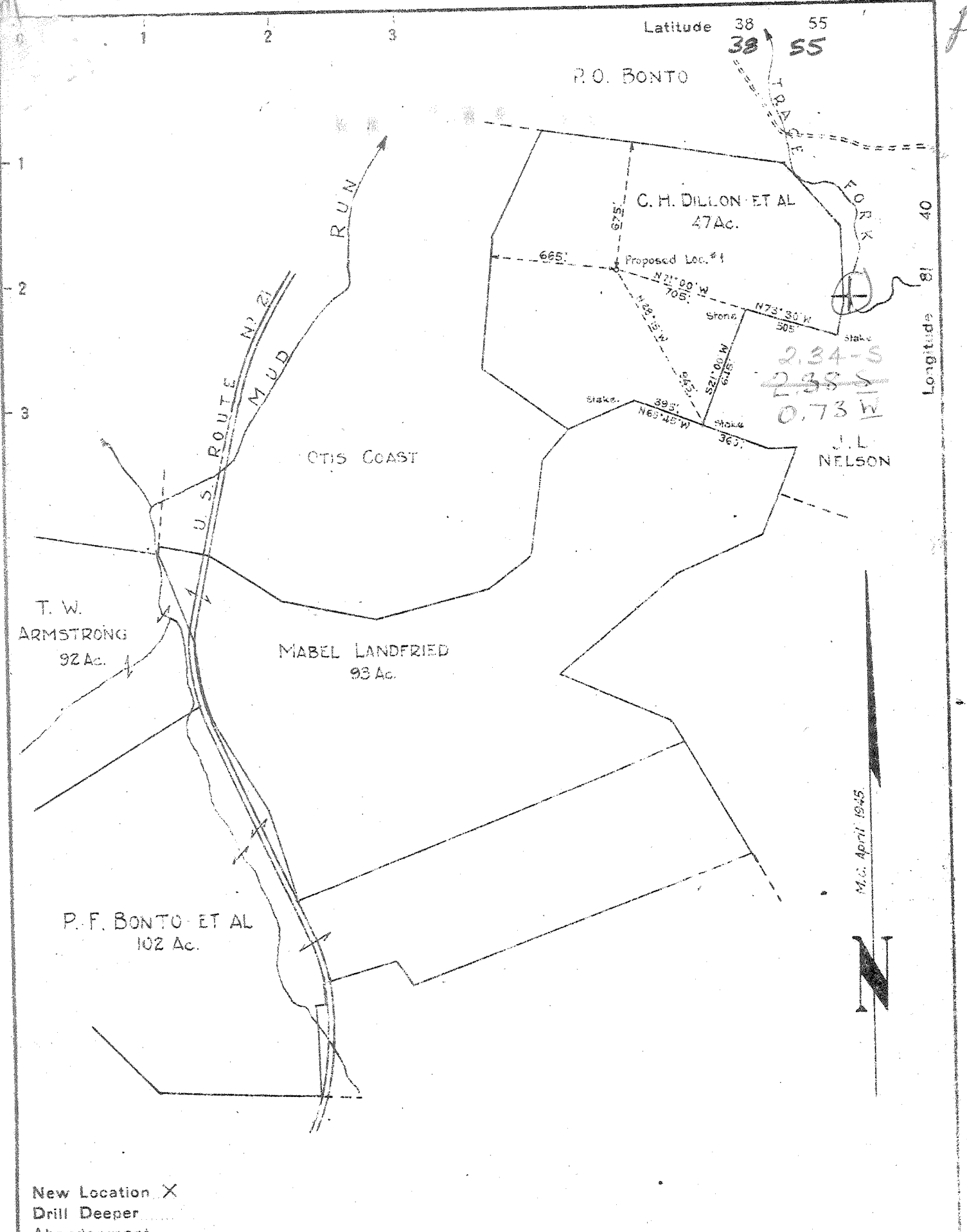
JAC

0486 F

JUN 07 2002

DEEP WELL

9-0 (192)



Company COLUMBIAN CARBON CO.
 Address Box 873, CHARLESTON 23, W. VA.
 Farm T. W. ARMSTRONG - ET AL
 Tract _____ Acres 394 Ac. Lease No. T-2738
 Well (Farm) No. ONE Serial No. GW-797
 Elevation (Spirit Level) 657.2 WC
 Quadrangle RIPLEY - NW - 4 - S. 234 - W. 074
 County JACKSON District RAVENSWOOD
 Engineer John A. Holahan
 Engineer's Registration No. 1341
 File No. _____ Drawing No. 319
 Date APRIL 16, 1945. Scale 1" = 660'

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

WELL LOCATION MAP
 FILE NO. JAC - 486

+ 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
 6-6-1945
 Deep Well

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Jac 486
Ripley Quad.

Company
Address
Farm
Location
Well No.
District
Surface

Columbian Carbon Company
Box 873, Charleston, 23, W.Va.
T.W. Armstrong et al Acres 394
Mud Fork of Sandy Creek
1-GW-797 Elev. 658.7 DF
Ravenswood Jackson County
T.W. Armstrong et al
Rt 3, Box 382, Charleston, W.Va.

Mineral
Commenced
Completed
Not shot
Volume
Rock Pressure
Fresh Water
Salt Water

Same
4-18-45
7-20-45
2,552,000 G.F.
1835 lbs. 84 hrs.
250' 1 1/2"-13" blr.; 528' 3-13" blrs.
1607' H.F.

Gas Well
CASING & TUBING

16	73#	32	32	
13 3/8	48#	696'	6	pld.
10 1/2	40#	1111'	1	pld.
8 1/2	24#	1990'	7	pld.
6 5/8	24#	4790'	6	Same
2 3/8	4#	4961'	5	Same

PACKER
Midget Btm. Hole
Size 6 5/8"

CASING CEMENTED:
See below

Coal at 842' 24"
1215' 60"

Surface	0	15	Sand - <i>Squaw</i>	1957	1988
Red Rock	15	65	Black Lime	1988	2006
Sand	65	85	Slate & Shells	2006	2060
Red Rock	85	160	Lime	2060	2100
Sand	160	175	Slate & Shells	2100	2337
Red Rock	175	235	Coffee Shale	2337	2342
Sand	235	265	Dorea Grit	2342	2349
Slate	265	285	Slate & Shells	2349	3040
Red Rock	285	305	White Slate	3040	3200
Sand	305	320	Slate & Shells	3200	3550
Red Rock	320	408	Shale, Slate, & Shells	3550	3565
Lime	408	430	Slate & Shells	3565	3580
Red Rock	430	475	Shelly Shale	3580	3700
Sand - <i>1 1/2" Pits Sand?</i>	475	537	Lime	3700	3725
Slate & Shells	537	635	Dark Slate	3725	3762
Sand	635	683	Slate & Shells	3762	3827
Slate & Shells	683	691	Brown Shale	3827	4124
Sand	691	703	White Slate	4124	4510
Red Rock	703	726	Brown Shale	4510	DLM4734
Sand	726	747	Corniferous Lime <i>4 1/3</i> SLM	4746	4862
Red Rock	747	800	Oriskany Sand	4862	4916
Slate & Shells	800	842	Lime <i>3</i>	4916	4920
Coal	842	844	Sand <i>3</i>	4920	DLM4936
Lime	844	895	TOTAL DEPTH <i>485</i>	4936	DLM4936
Slate & Shells	895	938			SLM
Lime	938	956			
Black Slate	956	962	Show gas 3840'		
Lime	962	968	Gas 4870' SLM show		
Slate & Shells	968	1078	PAYS: 4870-78' 74/10 W 7" 3,711 MCF		
Pink Rock	1078	1098	4897-4903 40/10 W 7" 2726 MCF		
Sand & Shells	1098	1101	4912-15' 50/10 W 7" 3,051 MCF		
Black Slate	1101	1109	4919-21 40/10 W 7" 2,728 MCF		
White Slate	1109	1116	CEMENT RECORD		
Sand	1116	1140	4-28-45 13 3/8 casing. Ran 12 sacks		
Slate & Shells	1140	1215	Aquagel and 50# Fibrotex. Circulation		
Coal	1215	1220	while mixing. Returns at 580'.		
Slate & Shells	1220	1303			
Slate	1303	1310	5-5-45 10 1/2" casing. Ran 23 sacks		
Lime	1310	1323	aquagel and 50# Fibrotex through 2"		
Sand	1323	1344	tubing to float pipe in.		
Lime	1344	1381			
Slate & Shells	1381	1450	5-23-45 8 5/8" casing. Ran 24 sacks		
Sand	1450	1493	Aquagel and 50# Fibrotex. through 2"		
Slate & Shells	1493	1556	tubing to float in casing.		
Sand - <i>Salt Sand</i>	1556	1680			
Dark Hard Lime	1680	1693	7-5-45 6 5/8" Casing. Ran 80 bags		
Slate	1693	1701	Aquagel and 6 bags Fibrotex. through		
Big Lime	1701	1775	tubing to float in pipe. Set Midget		
Sand - <i>Kaver</i>	1775	1800	Bottom Hole Packer - ran 27' cement		
Dark Lime	1800	1830	in 1st jt.		
Slate & Shells	1830	1845			
Big Injun Sand	1845	1955	Delbert Lawson, Cementer, C.C. Crew		
Slate	1955	1957			

ACB

WR-35

DATE: 11-07-02
API #: 47-035-00486

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

Well Operator's Report of Well Work

Farm name: Mrs B. Deberry Operator Well No.: Ripley # 7305

LOCATION: Elevation: 658' Quadrangle: Sandyville, WV.

District: Ravenswood County: Jackson

Latitude: Feet South of 38 Deg. 53 Min. 03 Sec.

Longitude: Feet West of 81 Deg. 40 Min. 54 Sec.

Company: Columbia Gas Transmission

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>RR 2 BOX 138</u> <u>Sandyville, WV 25275</u>				
Agent: <u>Paul Amick</u>				
Inspector: <u>Larry Parrish</u>				
Date Permit Issued: <u>6-04-02</u>				
Date Well Work Commenced: <u>7-05-02</u>				
Date Well Work Completed: <u>8-27-02</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 4862' + 54916'

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

* Gas Storage - Does not apply

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: *John McCallister*

By:

Date: 11-07-02

FEB 27 2003

JAC 0486

Installed new API 5M Wellhead

8-22-02

Fractured Oriskany Sandstone using:

1000 gal 28% HCl

408 bbls Fluid

146 mscf N₂

25,900 # 20/40 sand

AVG Pressure 3400 psig

AVG Rate 13 bpm