

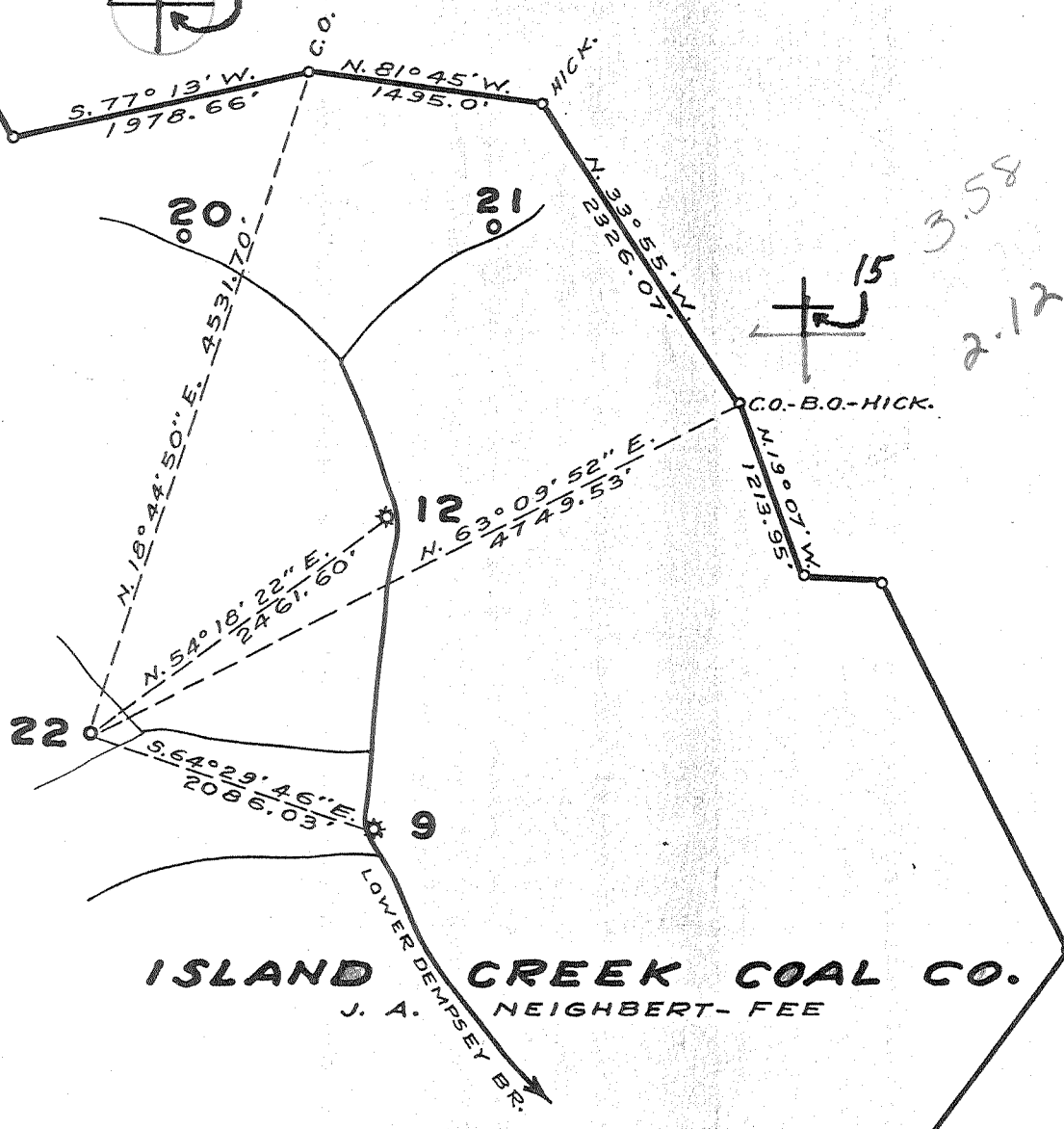
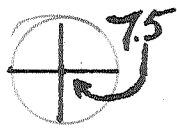
Janis 6/10/88

11350

Latitude 37° 55' 30" 37° 52' 20"

Longitude 82° 00' 00" 82° 00' 00"

GAY COAL & COKE CO.

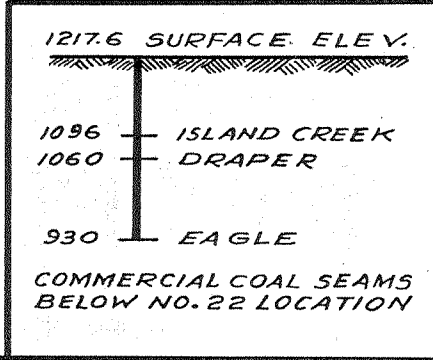


ISLAND CREEK COAL CO.

J. A. NEIGHBERT-FEE

NOTE: THIS MAP BASED ON SURVEY AND DATA FURNISHED BY THE ISLAND CK. COAL CO.

New Location
 Drill Deeper -6-13-88
 Abandonment



Company OXY, USA, INC. 3072
 Address P.O. Box 873-Charleston, WVa. 25323
 Surface: Georgia Pacific Corp.
 Farm ISLAND CREEK COAL CO.
 Tract Acres 34.953.47 Lease No. C-2448
 Well (Farm) No. 22 Serial No. EC
 Elevation (Spirit Level) 1217.6 HOLDENT. 5
 Quadrangle HOLDEN 6-351-221
 County LOGAN District LOGAN 2
 Engineer J. M. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 338
 Date JULY 9, 1945 Scale 1" = 1200'

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

WELL LOCATION MAP

FILE NO. LOG-142-DD

+ 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.

JUN 21 1988

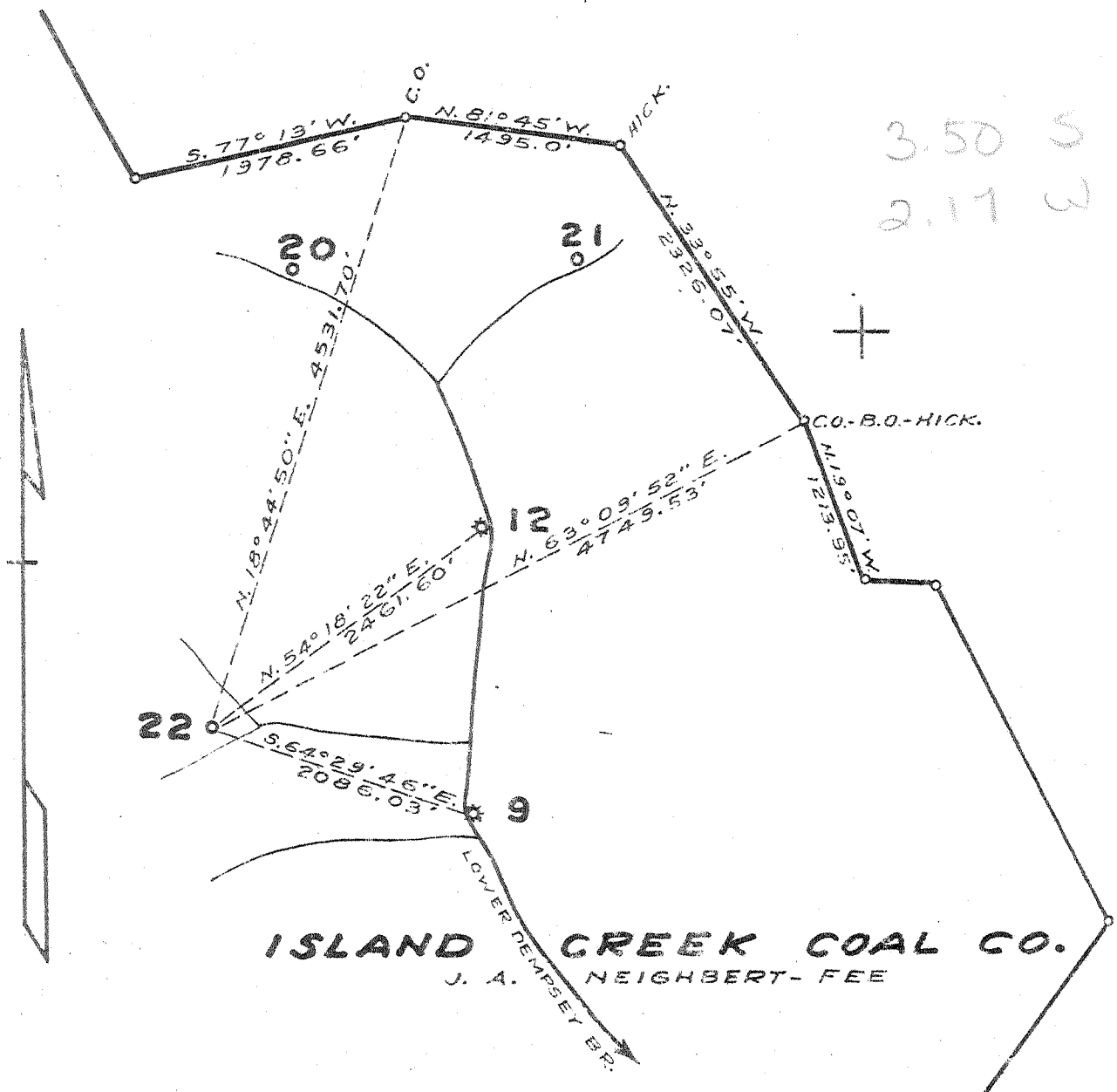
47-045

DEEP WELL 46600 6-6 Holden Logan - Dingsess (274) Dev. Shale

GAY COAL & COKE CO.

3.50 S
2.17 W

Longitude 82 00

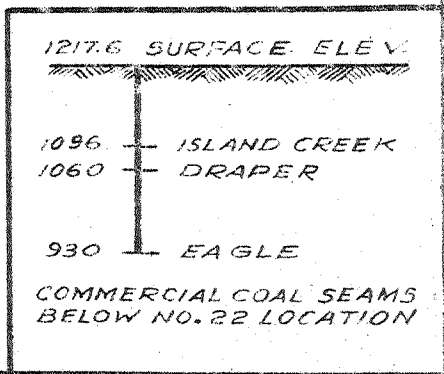


ISLAND CREEK COAL CO.

J. A. NEIGHBERT-FEE

NOTE: THIS MAP BASED ON SURVEY AND DATA FURNISHED BY THE ISLAND CK. COAL CO.

New Location
Drill Deeper
Abandonment



Company COLUMBIAN CARBON CO.
 Address CHARLESTON W. VA.
 Farm ISLAND CREEK COAL CO.
 Tract _____ Acres 34,953.47 Lease No. C-2448
 Well (Farm) No. 22 Serial No. _____
 Elevation (Spirit Level) 1217.6
 Quadrangle HOLDEN E 6-351-221
 County LOGAN District LOGAN
 Engineer J. A. Neighbert-Fee
 Engineer's Registration No. 772
 File No. _____ Drawing No. 338
 Date JULY 9, 1945 Scale 1" = 1200'

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

WELL LOCATION MAP

FILE NO. LOG-142

+ 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.

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

Permit No. Log 142		Gas Well
Holden Quad.		CASING & TUBING
Company	Columbian Carbon Company	
Address	Box 873, Charleston 23, W.Va.	13 3/8 42 42
Farm	Island Creek Coal Co. A-34,953.47	10 1/2 32.75 346'4 Same
Location	Lower Dempsey Branch	8 1/2 24-28# 1384 pld.
Well No.	22- GW 815 Elev. 1222.6 DF	7 1803'7 Same
District	Logan Logan County	2 3/8 4# 2634'2 Same
Surface	Island Creek Coal Co., Guaranty Bank Bldg. Huntington, W.Va.	No liners
Mineral	Same	
Commenced	8-6-45	Midget Bottom Hole
Completed	11-13-45	Size 7"
Date shot	11-15-45 Depth 2570' to 2600' SLM with 350# Detonite	Depth 1803'
Open flow	8/10ths M in 2"	Coal at 146' 48"
Volume	440,000 C.F.	304' 108"
Rock Pressure	505 lbs. 19 hrs.	
Salt Water	971' 4-10" blr. 1 hr.; 1185'	

Surface	0	20	
Slate	20	146	
Coal <i>- DRAPPA</i>	146	150	
Slate	150	190	
Blue Sand	190	283	
Slate	283	291	
Sand	291	304	
Coal Mine <i>EDGE</i>	304	313	
Sand	313	325	
Slate & Shells	325	410	
Sand	410	440	
Slate	440	466	
Lime Shells	466	481	
Slate	481	520	
Sand	520	550	
Slate & Shells	550	670	
Sand	670	705	
Slate	705	711	
Sand	711	885	Gas 821' show
D. Slate	885	891	
Salt Sand	891	978	
D. Slate	978	995	Gas 1068' show
Sand	995	1345	
Lime	1345	1374	
Slate	1374	1580	
Lime	1580	1610	
Slate & Shells	1610	1700	
Black Lime	1700	1760	
Slate	1760	1771	
Big Lime	1771	2066	Gas 2003 show
Big Injun	2066	2074	
Slate & Shells	2074	2178	
Lime	2178	2245	
Slate & Shells	2245	2600	
Derea Sand	2600	2619	
Broken Sand	2619	2652	DLM
TOTAL DEPTH	2652 DLM-2623' SLM		Gas Pays: 2571-2588 SLM

CEMENT RECORD: 8-22-45 10 1/2" casing cemented with 115 bags of cement run by Jack Huges and Edwin Gandoe, C.C.Crew.

9-29-45 8 5/8" casing. Ran 16 bags aquagel mixed with 1 bale Fibrotex. Good returns. C.C. Crew

10-8-45 7" casing. Ran 13 bags aquagel mixed with 1 bale Fibrotex. Good returns. C.C. Crew

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13-Jun-88
API # 47- 45-00142 D

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas
DEPARTMENT OF ENERGY
Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: A-22, GW-815

LOCATION: Elevation: 1217.60 Quadrangle: HOLDEN

District: ISLAND CREEK County: LOGAN
Latitude: 3720 Feet South of 37 Des. 52Min. 20 Sec.
Longitude: 11350 Feet West of 82 Des. 0 Min. 0 Sec.

Company: OXY USA, INC.
P.O. BOX 873
CHARLESTON, WV

Agent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 06/13/88
Well work Commenced: 7/14/88
Well work Completed: 12/29/88
Verbal Flushing
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 4590'
Fresh water depths (ft) _____

Salt water depths (ft) 971', 1135'

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 146', 304'

Size	Used in	Left	Cement
Conductor	Drillings	in Well	(Fill Up)
			Cu. Ft.
13-3/8"	Existing	42	42
Fresh Wtr	Existing		
10-3/4"	Existing	346	346
Intermediate	Existing		
7"	Existing	1809	1809
Production			TOC
4 1/2"	Existing	4570'	4570'
Tubing			
1 1/2"	Existing		4476'

OPEN FLOW DATA

Producing formation Rhinestreet, Java, Lower Huron Pay zone depth (ft) 3645.5 to 4481.5
Gas: Initial open flow 68 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 42 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 280 Psig (surface pressure) after 47 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.

DELBERT G. OLIVER, APPALACHIAN PROJECT MANAGER
For: OXY USA, INC.
By: *Delbert G. Oliver*
Date: JAN 24, 1989

FEB 3 1989

ISLAND CREEK "A" #22

Details of perforated intervals, fracturing or stimulating, physical change, etc.

RHINESTREET 4195.5' to 4481.5' with 162 holes. Pumped 2580 gal. 2% k c l w with 324 ball sealers. Fracture stimulated with 260,000# of 20-40 sand in 764 BW and 1,658,158 SCF of N₂.

JAVA/LOWER HURON 3645.5' to 4115.5' with 254 holes. Pumped 4900 gal. 2% k c l w with 393 ball sealers. Fracture stimulated with 260,000 lbs. 20-40 sand in 728 BW and 1,428,919 SCF of N₂.

WELL LOG

Note: Well was deepened from 2652' to 4565'

<u>Formation</u>	<u>Top (ft)</u>	<u>Bottom (ft)</u>
Devonian	2652'	3641'
Lower Huron	3641'	3970'
Java	3970'	4219'
Rhinestreet	4219'	4529'
Marcellus	4529'	4551'
Onondaga	4551'	4565'

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

277

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: 3072 OXY USA INC 36805, 5, 401
- 2) Operator's Well Number: Island Creek A-22, GW-815 3) Elevation: 1217.6
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): 441 Devonian Shale
- 6) Proposed Total Depth: 4600' feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: 971', 1135'
- 9) Approximate coal seam depths: 146', 304'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DEVONIAN SHALE DEEPENING
- 12) *NEW TUBULARS
 **TUBING TO BE PULLED CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8		48	42	42	
Fresh Water	10 3/4		33	346	346	115 sx Aquage
Coal	8 5/8		24 & 28	1384	0	16 sx Aquagel
Intermediate	7		22	1809	1809	13 sx Aquagel
* Production	4 1/2	K55	11.6	4600	4600	300 cu ft
* Tubing	2 3/8	NUE	4.7	4600	4600	
** LINES TUBING	2 3/8		4.0	2634	2634	

PACKERS : Kind MBH
 Sizes 7"
 Depths set 1803'

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71777
 30071
 For Division of Oil and Gas Use Only
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50 Blanket Agent
 (Type)

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Page 1 of
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: May 27, 1988
- 2) Operator's well number
Island Creek A-22, GW-815
- 3) API Well No: 47 - 045 - 0142-DD
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Georgia Pacific Corp.
Address 133 Peachtree St. NE
Atlanta, GA 30348
 - (b) Name Attn: W. C. Covington
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Arthur St. Clair
Address P. O. Box 468
Benton, WV 24818
Telephone (304)-732-6223 (436-4507)

- 5) (a) Coal Operator:
 - Name N/A
 - Address _____
- (b) Coal Owner(s) with Declaration
 - Name Island Creek Corporation
 - Address Island Creek Division
P. O. Box 840, Holden, WV 25625
 - Name Attn: Jerry Workman, Mgr Engr
 - Address _____
- (c) Coal Lessee with Declaration
 - Name N/A
 - Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

x Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- x Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator OXY USA Inc
 By: Delbert G. Oliver *[Signature]*
 Its: Project Manager
 Address P. O. Box 873
Charleston, WV 25323
 Telephone (304) 344-8383

Subscribed and sworn before me this 24th day of May, 1988

Charles S. Steensbury Commissioner Notary Public
 My commission expires April 9, 1989