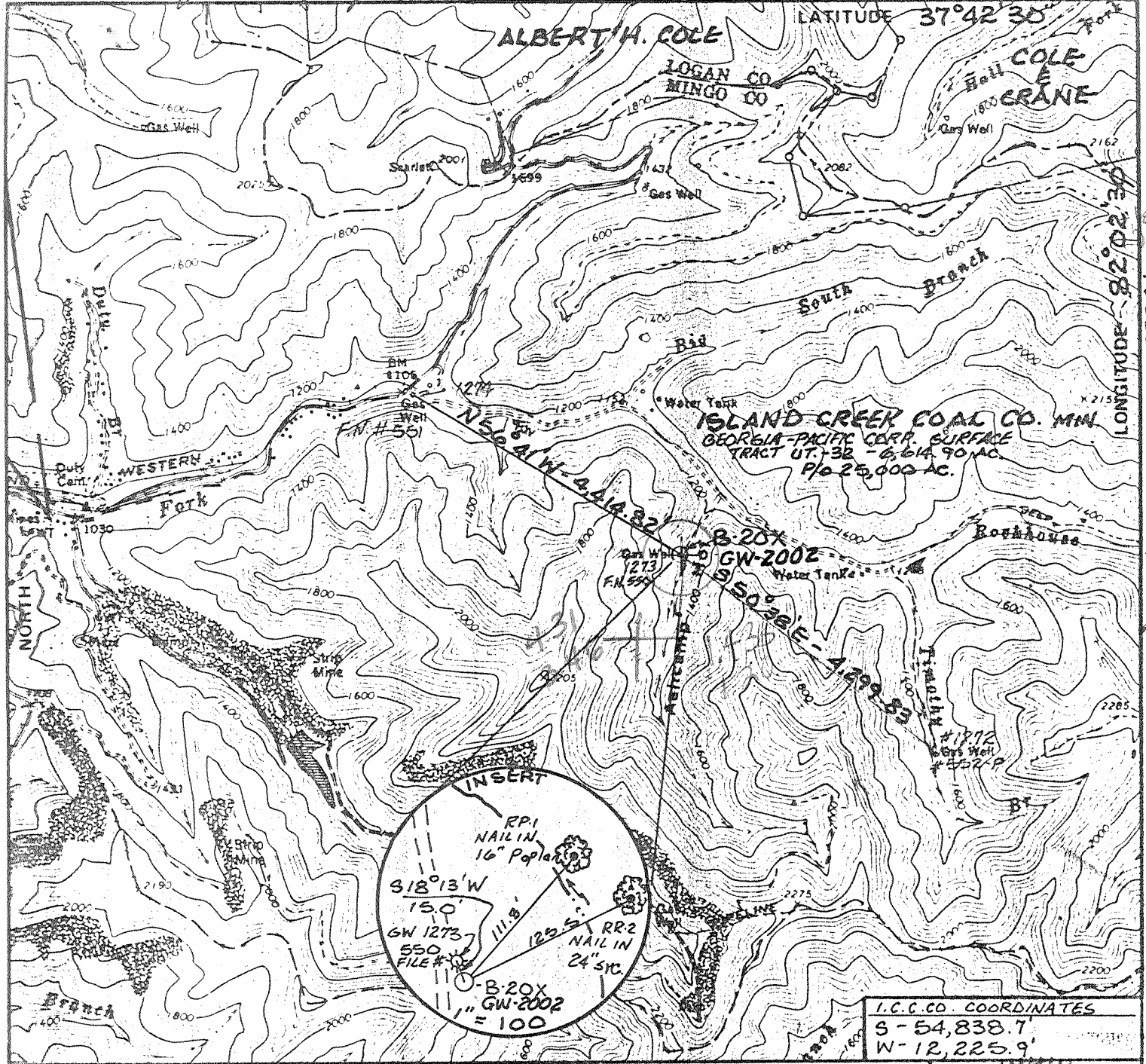


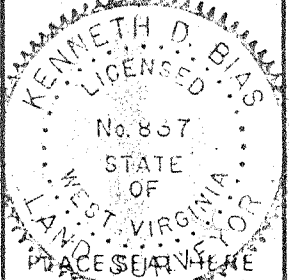
Jamie 6/24/88



I.C.C. CO. COORDINATES
 S - 54,838.7'
 W - 12,225.9'

FILE NO KDB-1-G
 DRAWING NO _____
 SCALE 1" = 2,000'
 MINIMUM DEGREE OF ACCURACY 1:2,500
 PROVEN SOURCE OF ELEVATION USGS - BM FL. 1105'

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 MINES
 (SIGNED) Kenneth D. Bias
 R P E _____ L L S 837



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV 6
 (8-78)



DATE 5-9 19 88
 OPERATOR'S WELL NO I.C.C. B20X, GW-2002
 API WELL NO 47-059-1123
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Deviated well

WELL TYPE OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 1248.8 WATER SHED ROCKHOUSE FK. - PIGEON CK. - TUG RIVER
 DISTRICT LEE COUNTY MINGO
 QUADRANGLE BARNABUS 7 1/2' 232 076 25 Matewan NW
 SURFACE OWNER GEORGIA-PACIFIC CORP ACREAGE 6,614 Ac. P1025,000 Ac.
 OIL & GAS ROYALTY OWNER ISLAND CREEK CORPORATION LEASE ACREAGE 35,053.47
 LEASE NO WV-486
 PROPOSED WORK DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5300' JUL 1 1988
 WELL OPERATOR OXY U.S.A., INC. DESIGNATED AGENT DELBERT G. OLIVER
 ADDRESS P.O. Box 873 ADDRESS P.O. Box 873
CHARLESTON WV 25323 3072 CHARLESTON WV 25323

DEEP WELL 3-3 Magnolia (265) DPD-Rhinest.

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

- 1) Well Operator: ³⁰⁷² OXY USA INC. 36205, 4, 232
- 2) Operator's Well Number: Island Creek B-20X, GW 2002
- 3) Elevation: 1248.80
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Devonian Shale 441
- 6) Proposed Total Depth: 5090 TVD; 6353 MD feet
- 7) Approximate fresh water strata depths: 38'-42'
- 8) Approximate salt water depths: 1423-33' & 1938-47'
- 9) Approximate coal seam depths: 135'
- 10) Does land contain coal seams tributary to active mine? Yes X / No ___ /
- 11) Proposed Well Work:
- 12) New Drilling (Deviated Well) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	H-40	65	48 MD	48 TVD	40 sx CIA cmt
Fresh Water	11-3/4"	H-40	42	240 MD	240 TVD	120 sx CIA <u>CAS</u>
Coal						38CSRB-11-3 38CSRB-11-2 <u>CAS</u>
Intermediate	8-5/8"	K-55	24	2668 MD	2530 TVD	375 sx CIA w/2% gel 100 sx CIA
Production	5-1/2"	K-55	17	6353 MD	5090 TVD	350 sx CIA foamed cmt. Cmt to 2450'
Tubing	2-3/8"	K-55	4.7	6353 MD	5090 TVD	
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

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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DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: June 20, 1988
Operator's well number
Island Creek B-20X, GW 2002
API Well No: 47 - 059 - 1123
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 Corporation
Address 133 Peachtree St., NE
Atlanta, GA 30344
(b) Name Attn: W. L. Covington
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name Enoxy Coal, Inc.
Address P. O. Drawer 309
Ragland, WV 25690
(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
Address _____

6) Inspector _____
Address _____
Telephone (304)- _____

(c) Coal Lessee with Declaration
Name Enoxy Coal, Inc.
Address P. O. Drawer 309
Ragland, WV 25690

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 *Delbert G. Oliver*
Its: Project Manager
Address P. O. Box 873
Charleston, WV 25323
Telephone (304) 344-8383

Subscribed and sworn before me this 20 day of June, 1988

James J. Bay
My commission expires June 11, 1989

Commissioner
Notary Public

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State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: R-20X, GW-2002

LOCATION: Elevation: 1248.80 Quadrangle: BARNABUS

District: LEE County: MINGO
Latitude: 7700 Feet South of 37 Des. 42Min. 30 Sec.
Longitude: 6300 Feet West of 82 Des. 2 Min. 30 Sec.

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

Agent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 06/28/88
Well work Commenced: 7/04/88
Well work Completed: 12/12/88
Verbal Plugging: *PI-7D reached 8/3/88*
Permission granted on: _____
Rotary Cable Ris _____
Total Depth (feet) 7039' MD, 5139' TD
Fresh water depths (ft) _____

Size	Used in	Left	Cement
Conductor	Drilling	in Well	Fill Up
			Cu. Ft.
16"	46' KB	46' KB	Surface
11.75"	293' KB	293' KB	Surface
Inter- mediate			
8.625"	2770' KB	2770' KB	Surface
5.5"	7039' KB	7039' KB	TOC 4750'
2.375"		6118'	

Salt water depths (ft) _____
Is coal being mined in area (Y/N)? Y
Coal Depths (ft): _____

OPEN FLOW DATA

Producing formation Lower Huron Pay zone depth (ft) 5552-6129.5'
 Gas: Initial open flow 200 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 165 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1,000 psig (surface pressure) after 336 Hours

Second producing formation Cupper Devonian Pay zone depth (ft) 4103
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 115 MCF/d Final open flow 0 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: 3-22-88

APR 28 1989

Directional well

ISLAND CREEK "B" 20-X

Details of Perforated Intervals, Fracturing or Stimulating, Physical Change, etc.

Rhinestreet 6689-6823.5' with 104 holes. Pumped 200 MSCF N₂ followed by 1500 gal. 2% kclw followed by 6850 gal. 75 to 0² quality foam. Acidized with 1500 gal. 15% Hcl acid. Pumped 203 bbl. frac gel. Pumped 3200 gal. 28% Hcl. Pumped 40 bbls. 2% kcl water followed by 2000 gal. 28% Hcl. Abandoned zone by setting Baker Model "S" bridge plug at 6235'

Lower Huron 5552-6129.5' with 452 holes. Pumped 108 bbls. 2% kclw with 900 perf balls. Fracture stimulated using 160,000 lbs. 20-40 sand, 781 BW and 2.14 MMSCF N₂.

Upper Devonian Perf'd 4103-4534' (71 holes). Stimulated w/ 50,000# sand, 100 BW w/ 730 MCF N₂.

Well Log:
Formation

	Top (ft)	Bottom (ft)
Slate and Sand	0	1185
Sand and Shale	1185	1861
Black Lime	1861	2215
Sand	2215	2297
Maxton	2297	2405
Shale	2405	2518
Little Lime	2518	2584
Big Lime	2584	2947
Sandy Shale	2947	3141
Weir	3141	3328
Shale	3328	3836
Sunbury	3836	3888
Berea	3888	3912
Devonian Shale	3912	5527
Lower Huron	5527	6130
Java	6130	6638
Rhinestreet	6638	7032
Onondaga Lime	7032	7039

7039
6638
401 - expl ftg.

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DEPARTMENT OF ENERGY

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