

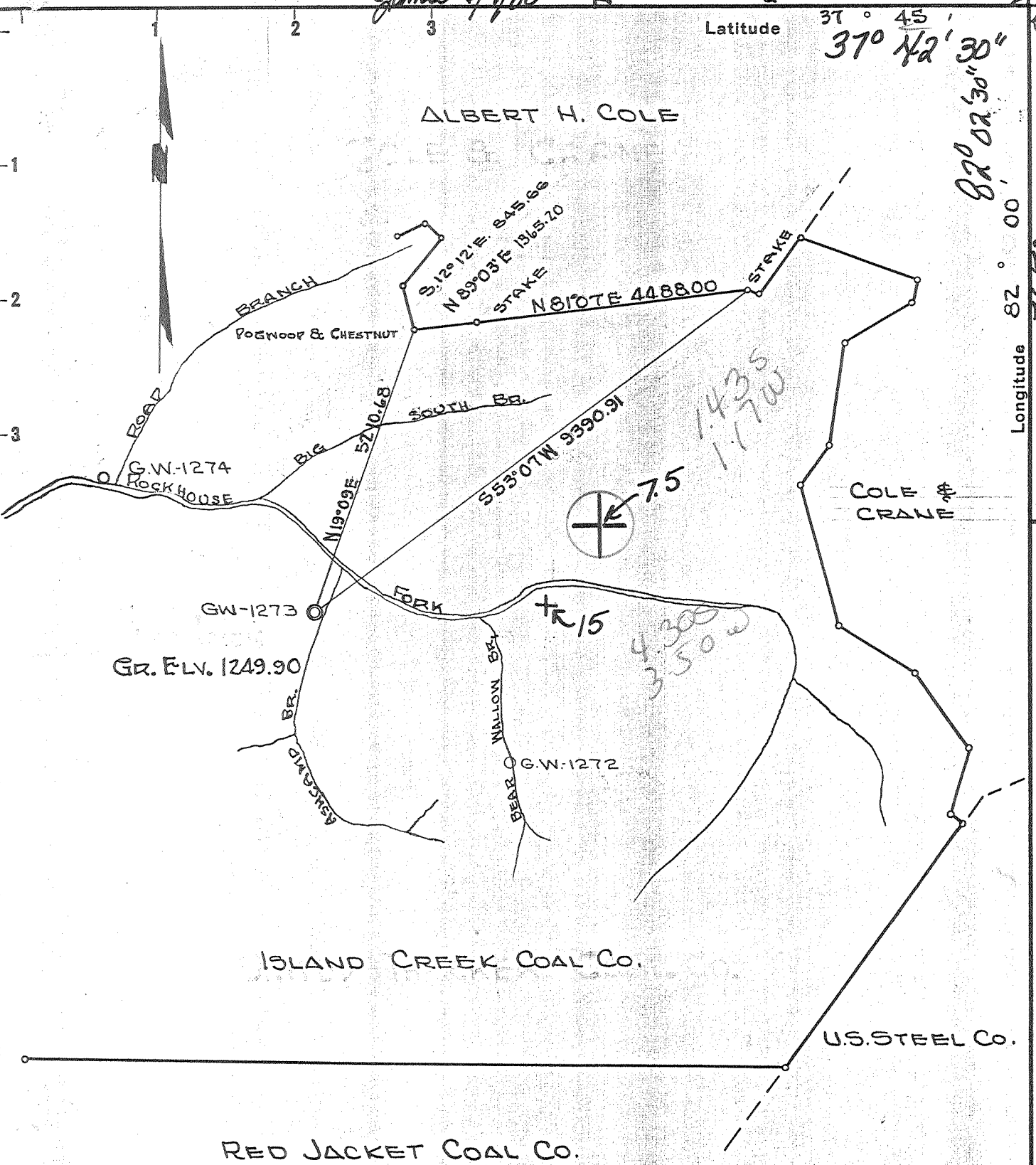
Jamie 6/9/88

6300

Latitude 37° 45' 30" 37° 42' 30"

82° 02' 30" 82° 00'

Longitude 82° 00' 7050



New Location...
 Drill Deeper..... - 6/9/88
 Abandonment.....

ISLAND CREEK COOR.
 S- 54,821.70
 W- 12,234.98

Company OX-Y USA INC. C-30227
 Address BOX 873 CHARLESTON W.VA. 25323
 Farm ISLAND CREEK COAL COMPANY
 Tract UT-32 Acres 6614.90 Lease No. C-4473
 Well (Farm) No. B-13 Serial No. GW-1273
 Elevation (Spirit Level) 1249.90 BARNABUS 75
 Quadrangle MATEWAN S-443 W-354
 County MINGO District LEE
 Engineer W.E. Hood
 Engineer's Registration No. 270
 File No. 5740-SF Drawing No. W-18-57
 Date AUGUST 12, 1957 Scale 1" = 2400'

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

WELL LOCATION MAP
 FILE NO. MIN-550-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. JUN 10 1988

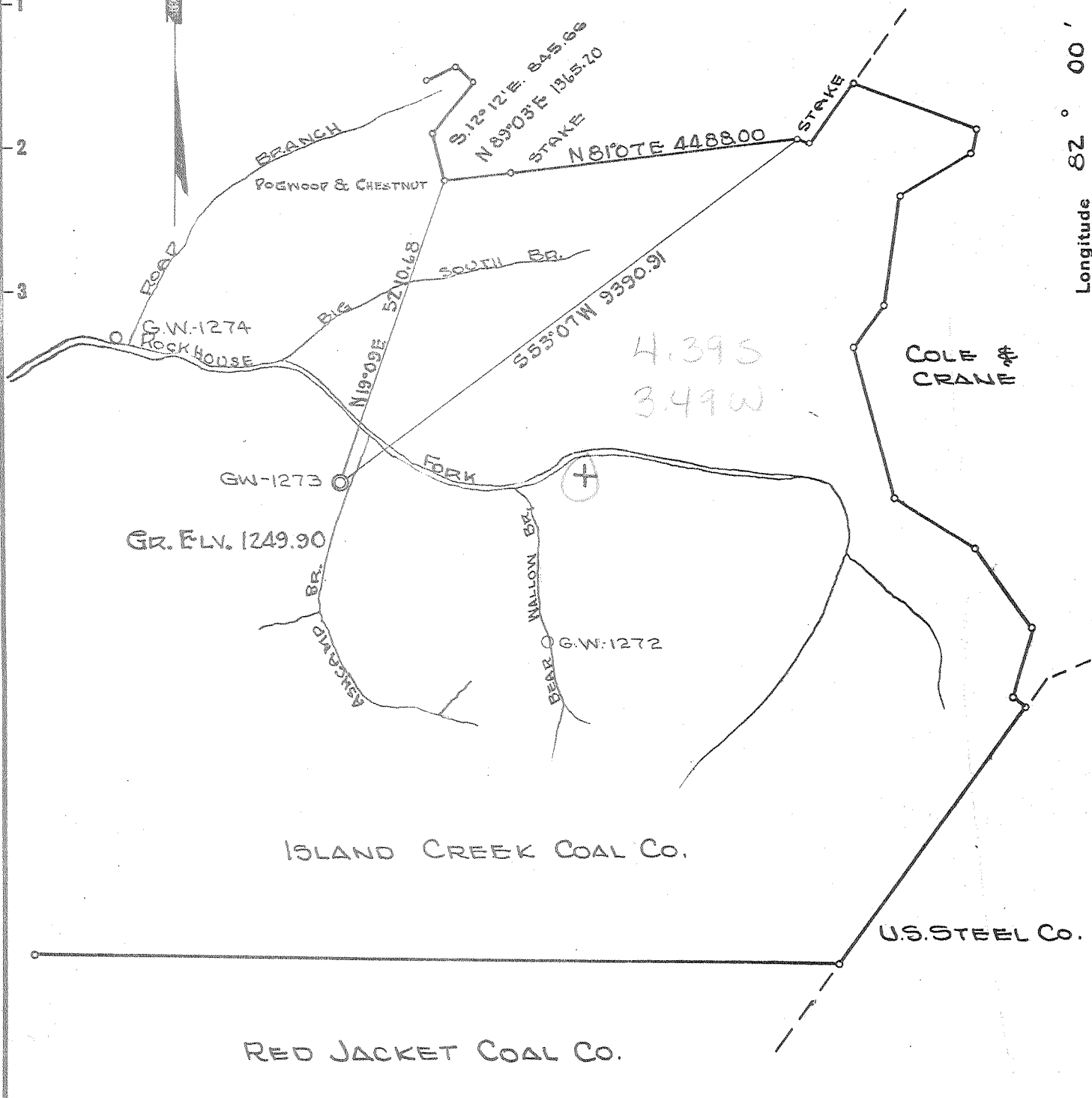
- Denotes one inch spaces on border line of original tracing. 47-059

DEEPWELL 5090' dev. shale
 6-6 magnolia (265)

Latitude 37° 45'

ALBERT H. COLE

Longitude 82° 00'



4.39 S
3.49 W

COLE & CRANE

ISLAND CREEK COAL Co.

U.S. STEEL Co.

RED JACKET COAL Co.

ISLAND CREEK COAL Co.
S- 54,821.70
W- 12,234.98

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

Company COLUMBIAN CARBON COMPANY
 Address BOX 873 CHARLESTON W.VA.
 Farm ISLAND CREEK COAL COMPANY
 Tract UT-32 Acres 5614.90 Lease No. C-4473
 Well (Farm) No. B-13 Serial No. GW-1273
 Elevation (Spirit Level) 1249.90
 Quadrangle MATEWAN S-443 ^{NE} W-354
 County MINGO District LEE
 Engineer D.E. Good
 Engineer's Registration No. 270
 File No. 5740-SF Drawing No. W-18-57
 Date AUGUST 12, 1957 Scale 1" = 2400'

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

WELL LOCATION MAP
FILE NO. MIN-550

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 7

Quadrangle Matewan SW

Permit No. MIN-550

WELL RECORD

Oil or Gas Well gas
(KIND)

Company Columbian Carbon Company
Address Box 873, Charleston 23, W. Va.
Farm Island Creek Coal Co. Acres 25,000

Location (waters) Ashcamp Branch
Well No. B-13, GW-1273 Elev. 1249.90' G
District Lee County Mingo

The surface of tract is owned in fee by Island Creek Coal Co.
Chafin Building Address Huntington, W. Va.

Mineral rights are owned by same
Address _____

Drilling commenced 10-7-57
Drilling completed 12-31-57
Date Shot not shot From _____ To _____

With _____

Open Flow 64 /10ths Water in _____ Inch
3 /10ths Merc. in _____ Inch

Volume 2,800,000 Cu. Ft.
Rock Pressure (before acid) _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED see reverse side

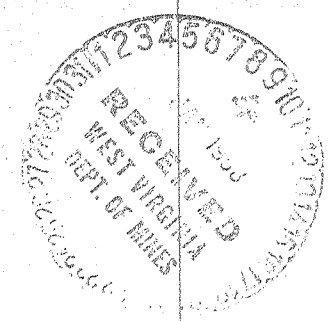
WELL FRACTURED not fractured

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Guiberson
16 3/8" 48#	27'	27'	Kind of Packer Upside Down
18 3/4" 32#	456'1"	456'1"	Size of 7"x3"
8 1/4" 24#	1851'1"	pulled	Depth set 2622'9"
5 3/16" 7" 23#	2507'6"	2507'6"	
3 1/2" 9.2#	2664'9"	2664'9"	Perf. top _____
2 w/ 3" cage at 2656'5"			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
see reverse side
COAL WAS ENCOUNTERED AT 134 FEET 12 INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT 22/10 M. 7" 23# 7,386,000 cubic feet
ROCK PRESSURE AFTER TREATMENT 310# for 17 hours
Fresh Water 38-42' Feet _____ Salt Water 1423-33' Feet 1938-47'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	27			
Sand			27	40	F. water	38-42'	hole full
Slate			40	108			
Sand			108	134			
Coal			134	135			
Sand			135	170			
Slate			170	189			
Sand			189	200			
Slate			200	287			
Broken Sand			287	320			
Sand			320	338			
Slate			338	372			
Sand			372	465			
Slate			465	493			
Broken Sand			493	573			
Sand			573	645	Gas	581-587'	show
Broken Sand			645	683			
Slate			683	777			
Sand			777	832			
Slate			832	873			
Sand			873	910			
Slate			910	940			
Sand			940	1185			
Broken Sand			1185	1214			
Sand			1214	1266			
Slate			1266	1303			
Sand			1303	1579	S. water	1423-33'	hole full



Acid

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			1579	1610			
Sand			1610	1791			
Black Lime			1791	1800			
Slate			1800	1805			
Black Lime			1805	1829			
Sand			1829	1850			
Slate			1850	1906			
Lime			1906	1915			
Slate and Shells			1915	2014	S. water	1938-47'	1/2 8" blr/hr.
Red Rock			2014	2082			
Slate and Shells			2082	2113			
Lime			2113	2138			
Slate			2138	2156			
Sand			2156	2248			
Slate and Shells			2248	2340			
Broken Sand			2340	2380			
Sand			2380	2408			
Black Lime			2408	2457			
Slate			2457	2474			
Big Lime			2474	2500	2480' dlm - 2494' slm.		
Slate			2500	2505			
Big Lime			2505	2682	Gas:		
Big Injune			2682	2684	2603-05' show		
TOTAL DEPTH-----				2684'	2658-64' 34/10 W. 2" = 246MCF		
					2664-68' incr. from 246MXF to 4/10 W. 7" 23# = 853 MCF		
					2668-70' incr. from 853MCF to 50/10 W. 7" 23# = 3,018 MCF		
<u>CASING RECORD</u>							
10-16-57	Ran 10-3/4" casing with shoe 452' DLM - 7 bags Aquagel and 125 bags cement. Good circulation.						
11-23-57	Ran 8-5/8" casing with shoe at 1837' DLM with 21 sacks Aquagel						
12-11-57	Ran 7" casing with shoe 2480' DM = 2494' SLM - 25 bags Aquagel - Circulation.						
<u>ACIDIZING RECORD 1-3-58</u>							
Ran 3-1/2" tubing with Guiberson Upside Down packer set at 2622' 9" - 33' 8" of tail pipe under packer with tubing cage and bull plug at 2656' 5". Before acidizing gas gauged 64/10 M. 3" = 2,800 MCF. Acidized with 4,000 gallons Dowell X acid - 1 bbl. oil to blanket packer. Flushed with 12 bbls. water - on vacuum all the way. Final open flow after acidizing 22/10 M. 7" 23# = 7,386 MCF							

Date January 8, 19 58

APPROVED Columbian Carbon Company, Owner

By R. B. Anderson, General Manager
(Title)

Desued 06/09/88
Expres 06/09/90

059-0550-DD

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 Coal B-13, GW 1273 3) Elevation: 1249.90
- 4) Well type: (a) Oil or Gas /
- (b) If Gas: Production / Underground Storage /
- Deep Shallow /
- 5) Proposed Target Formation(s): Devonian Shale 441
- 6) Proposed Total Depth: 5090' feet
- 7) Approximate fresh water strata depths: 38-42'
- 8) Approximate salt water depths: 1423-33'; 1938-47'
- 9) Approximate coal seam depths: 134-5'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DEEPEN TO DEVONIAN SHALE

12) *NEW TUBULARS
**TUBING AND PACKER
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#	27	27	
Fresh Water	10 3/4		32.75#	456	456	125 sx cmt
Coal	7		23#	2507	2507	25 sx aquagel
Intermediate						
* Production	4-1/2	K55	11.60#	5090	5090	400 cu ft
* Tubing	1-1/2	J55	2.90#	5070	0	
Liners						
**TUBING	3-1/2		9.2#	2664	0	

PACKERS : Kind Guiberson Upside Down
** Sizes 7" X 3"
Depths set 2622.75'

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

7167

300 300 71

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond Blanket Agent

(Type)

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Page 1 of 4
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 B-13, GW-1273
3) API Well No: 47 - 059 - 0550-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 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 Arthur St. Clair
Address P. O. Box 468
Benton, WV 24818
Telephone (304)-732-6227/436-4507

(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 27th day of May, 1988

Robert P. Chandler Jr. Commissioner Notary Public
My commission expires September 1, 1992

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

Well Operator's Report of Well Work

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: B-13, GW-1273

LOCATION: Elevation: 1249.90 Quadrangle: BARNABUS

District: LEE County: MINGO
Latitude: 7650 Feet South of 37 Deg. 42Min. 30 Sec.
Longitude: 6300 Feet West of 82 Deg. 2 Min. 30 Sec.

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

Agent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 06/09/88
Well work Commenced: 6-26-88
Well work Completed: 2-7-89
Verbal Flushing
Permission granted on:
Rotary Cable _____ Ris
Total Depth (feet) 5139'
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)?
Coal Depths (ft): _____

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7.0		2494'	50'
4.5		5127'	246 Cu Ft

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Rhinestreet Pay zone depth (ft) _____
 Gas: Initial open flow 75 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 55/46 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 650 psig (surface pressure) after 14 Hours
 Lower Huron &
 Second producing formation Upper Devonian Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 411 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 12 Hours
 Static rock Pressure 700 psig (surface pressure) after 14 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

For: OXY USA, INC.

By: Delbert G. Oliver
Date: 2-28-89

MAR 31 1989

Island Creek B-13: (DEEPENING)

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

Rhinestreet: Perforated 4957-5040' (118 holes). Frac'd w/ 110,000# Sand, 289 BW, 800 MCF of N2.
Lower Huron: Perforated 4322-4604' (48 holes). Frac'd w/ 50,000# Sand, 106 BW, 556 MCF of N2.
Upper Devonian: Perforated 3471-3899' (53 holes). Frac'd w/ 50,000# sand, 159 BW, 555 MCF of N2.
Berea: Perforated 3327-41' (57 holes); 5317-19' (9 holes). Frac'd w/ 20,900# Sand, 65 BW, 188 MCF of N2.

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG:

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Siltstone	2684	2831
Weir	2831	2960
Shale	2960	3289
Sunbury	3289	3324
Berea	3324	3346
Devonian Shale	3346	4310
Lower Huron	4310	4629
Java	4629	4918
Rhinestreet	4918	5100
Marcellus	5100	5124
Onondaga	5124	5131 = Total Depth

5131 new TD
2684 old TD
2447 - new ftg

MAR 31 1989

C 7/2