

Jan 6/9/88

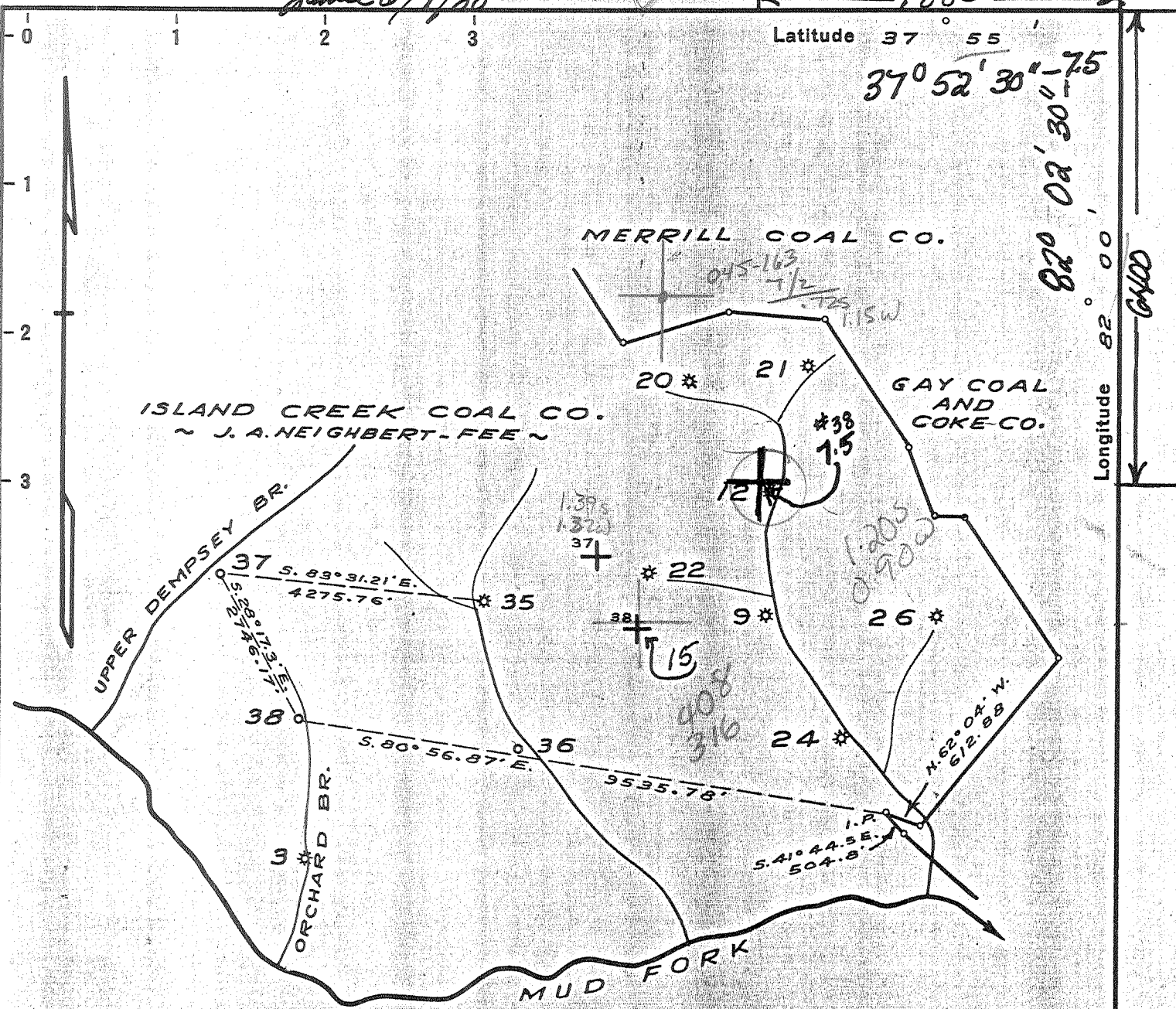
4880

Latitude 37° 55'

37° 52' 30" - 75

82° 02' 30" - 75

Longitude 82° 00'



HOLDEN 75

37 SURF. EL. 962.8	38 SURF. EL. 1039.1
923 EAGLE NO COAL	868 EAGLE NO COAL

COMMERCIAL COAL BELOW WELL LOCATIONS

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

Company OXY USA INC - 30720.
 Address PO BOX 873 - CHAR, W. VA.
 Farm ISLAND CREEK COAL CO.
 Tract _____ Acres 34,953.47 Lease No. C-2448
 Well (Farm) No. 37 & 38 Serial No. 37 = 962.8
 Elevation (Spirit Level) 38 = 1039.1
37 = 6-370-350
 Quadrangle HOLDEN 75 38 = 6-420-323
 County LOGAN District LOGAN 2
 Engineer J. M. Sell
 Engineer's Registration No. 772
 File No. _____ Drawing No. 397
 Date AUG. 28, 1946 Scale 1" = 2400'

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

WELL LOCATION MAP

FILE NO. LOG-163-#37
LOG-164-#38-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 10 1988
 47-045

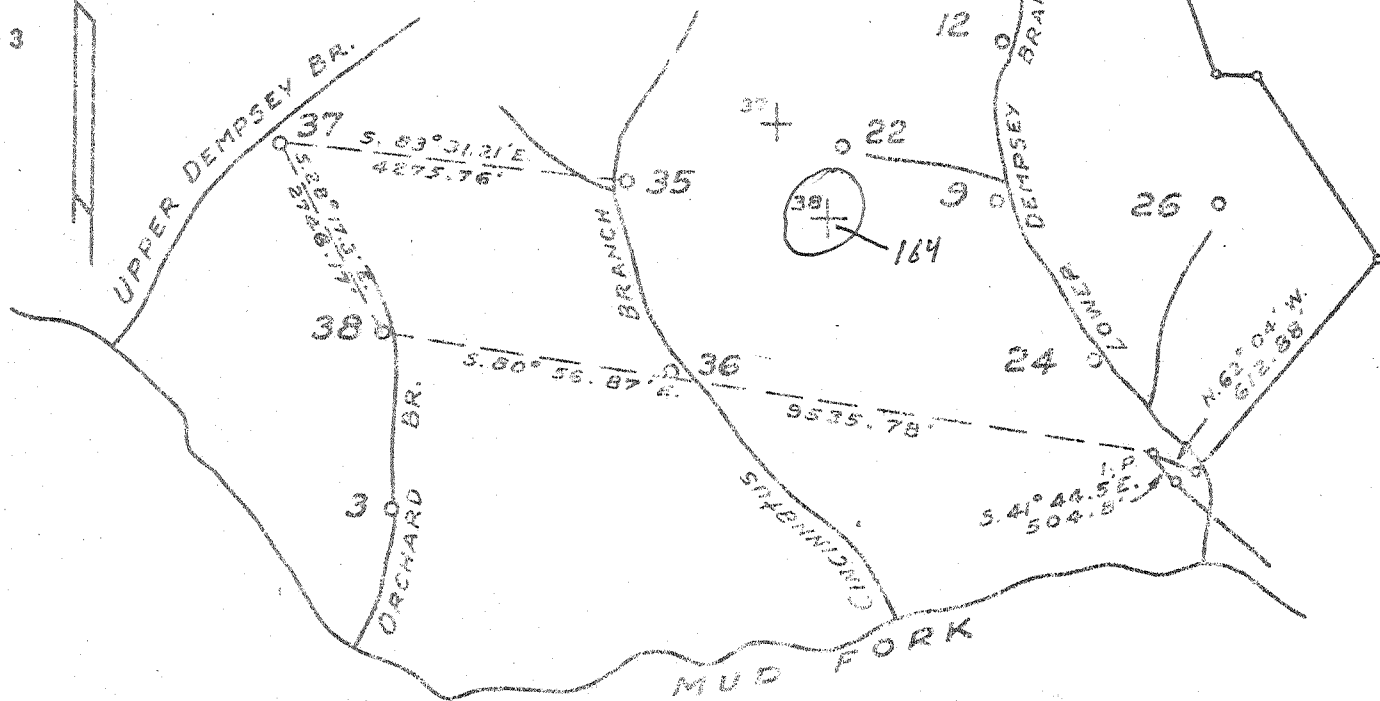
DEEP WELL, OWDD 6-6 Holden Logan - Dingess (274)

4.09 S
3.20 W

MERRILL COAL CO.

ISLAND CREEK COAL CO.

GAY COAL AND COKE CO.



Longitude 82° 00'

No. 37 J.A. NEIGHBERT-FEE
9053.09 Ac.

No. 38 GUYAN MERCANTILE ASSOC.
538.33 Ac.

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

- New Location
- Drill Deeper
- Abandonment (REVISED PLAT)

37 SURF. EL. 962.8'	38 SURF. EL. 1039.1'
323 EAGLE NO COAL	368 EAGLE NO COAL

COMMERCIAL COAL BELOW WELL LOCATIONS

Company COLUMBIAN CARBON CO.
 Address BOX 373 CHARLESTON, W. VA.
 Farm ISLAND CREEK COAL CO.
 Tract _____ Acres 34353.47 Lease No. C-2448
 Well (Farm) No. 37 & 38 Serial No. _____
 Elevation (Spirit Level) 37 = 962.8
38 = 1039.1
 Quadrangle HOLDEN-6-38-S. 420 W. 323 EC
 County LOGAN District LOGAN
 Engineer C.A. Branham
 Engineer's Registration No. 683
 File No. _____ Drawing No. WG-46
 Date AUG. 23, 1946 Scale 1" = 2400'

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

WELL LOCATION MAP
FILE NO. 600-164-#38

⊕ 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.

60 274

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

Permit No. Log 164

Holden Quad.

Company

Address

Farm

Location

Well No.

District

Surface

Mineral

Commenced

Completed

Date shot

Open flow

Volume

Rock Pressure

Salt Water

Columbian Carbon Company
Box 873, Charleston 23, W.Va.
Island Creek Coal Co. A 34,953.47
Orchard Branch
38 (GW-922) Elev. 1039.1
Logan Logan County
Island Creek Coal Co.
Huntington, W.Va.

10-22-46
12-7-46
12-17-46 Depth 2454 to 2381
12-28-46 " 2424 to 2399
with 500# and 900# gelatin
60/10ths W in 1"
81,630 C.F.
400 lbs. 48 hrs.
800' 1/2-10" blr. per hr.
1022' 300' rises

Gas Well
CASING & TUBING

13 3/8	33'3	same
10 1/2	208'	"
8 5/8	1244'10	0
7	1693'7	same
2 3/8	2478'11	"

Casing cemented:
10" 208' 10-26-46
(see below)

Coal at 172' 36"

Surface	0	10	Slate & Shells	2053	2395
Clay	10	20	Brown Shale	2395	2414
Sand & Gravel	20	35	Berea Grit	2414	2424
Slate	35	40	Slate & Shells	2424	2454 SLM
Blue Mud	40	47	Total Depth		2454 SLM
Sand	47	85			
Blue Mud	85	100	Gas 1718 show		
Sand	100	172	Gas 1826 73 MCF decreased to 21,060 C.F.		
Coal <i>EAGLE</i>	172	175	Gas Pay: 2422'		
Sand	175	210			
Slate	210	225	CEMENT RECORD: 10-26-46 10 1/2" casing.		
Sand	225	231	Ran 60 bags cement followed with wood		
Slate	231	280	plug. Pumped plug to 200' SLM. Good		
Sand	280	300	returns.		
Slate	300	319	Edwin Gandee, cementer, Columbian Carbon		
Sand	319	365	Co.		
Slate	365	398			
Sand	398	435	11-16-46 8 5/8" casing. Ran 16 sacks		
Slate	435	457	aquagel mixed 6% with 1 bale fibrotex		
Sand	457	467	followed with plug. Pumped plug to 800'.		
Slate & Shell	467	525	Good circulation and returns.		
Sand	525	569	Columbian Carbon Company Crew		
Slate	569	588			
Sand	588	630	11-27-46 7" casing. Ran 13 sacks aquagel		
Slate	630	647	mixed 6% with 1 bale fibrotex followed		
Sand	647	804	by plug. Pumped plug to 1560'. Good		
Slate	804	876	circulation and returns. Pipe went to		
Sand	876	1132	bottom O.K.		
Shale	1132	1152	Columbian Carbon Company Crew		
Sand	1152	1176			
Slate	1176	1193			
Lime	1193	1208			
Slate	1208	1212			
Red Rock	1212	1230			
Lime	1230	1233			
Shale	1233	1238			
Red Rock	1238	1242			
Lime	1242	1254			
Red Rock	1254	1293			
Lime	1293	1309			
Slate	1309	1402			
Lime	1402	1416			
Sand	1416	1464			
Slate & Shells	1464	1589			
Lime	1589	1616			
Slate	1616	1620			
Lime	1620	1646			
Slate	1646	1649			
Big Lime	1649	1893			
Big Injun Sand	1893	1917			
Slate & Shells	1917	2010			
Weir Sand	2010	2053			

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JAN 30 1989

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

Farm name: GEORGIA PACIFIC CORP. Operator Well No.: A-38, GW-922

LOCATION: Elevation: 1039.10 Quadrangle: HOLDEN

District: LOGAN County: LOGAN
Latitude: 6400 Feet South of 37 Deg. 52Min. 30 Sec.
Longitude: 4880 Feet West of 82 Deg. 2 Min. 30 Sec.

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

Asent: DELBERT G. OLIVER

Inspector: ARTHUR ST. CLAIR
Permit Issued: 06/09/88
Well work Commenced: 7-8-88
Well work Completed: 12-29-88
Verbal Plussions
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 4274'
Fresh water depths (ft) None

Salt water depths (ft) 800', 1022'
Is coal being mined in area (Y/N)? Y
Coal depths (ft) 172'

OPEN FLOW DATA

Size	Existing	Used in	Left	Cement
Conductor		Drilling	in Well	Fill Up
13 3/8"	33'		33'	Cu. Ft.
Fresh Wtr	Existing			60 Sx
10 3/4"	208'		208'	Cmt
Coal				
8-5/8"	1244'		0'	
Intermediate				13 Sx
7"	1694'		1694'	Aquagel
Production				TOC
4-1/2"	4274'		4274'	1952'
Tubing				
2-3/8"			4239'	

Producing formation Rhinestreet, Lower Huron Pay zone depth (ft) 3433' to 4212
Gas: Initial open flow 124 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 115 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 440 Psig (surface pressure) after 720 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

2428' TO 4274'
2428' TO 4274'

Island Creek A-38:

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

Rhinestreet: 4071.5'-4212' with 113 holes. Fracture stimulated with 235,000 lbs 20-40 sand in 667 BW and 1,328,736 SCF of N2.

Lower Huron: 3433'-3721' with 311 holes. Fracture stimulated with 260,000 lbs 20-40 sand in 762 BW and 1,297,206 SCF of N2.

WELL LOG: (Note: Well was deepened from 2428' to 4274')

<u>Formation</u>	<u>Top (Ft)</u>	<u>Bottom (Ft)</u>
Devonian Shale	2428 ²⁴²⁴	3430
Lower Huron	3430	3746
Java	3746	4053
Rhinestreet	4053	4246
Marcellus	4246	4270
Onondaga	4270	4274

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

7166

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

Issued 06/09/88

Expires 06/09/90

- 1) Well Operator: ³⁰⁷² OXY USA INC. 30205, 2, 401
- 2) Operator's Well Number: Island Creek A-38, GW-922 3) Elevation: 1039.1
- 4) Well type: (a) Oil or Gas
 - (b) If Gas: Production / Underground Storage
 - Deep Shallow
- 5) Proposed Target Formation(s): Devonian Shale 44
- 6) Proposed Total Depth: 4360 feet
- 7) Approximate fresh water strata depths: None
- 8) Approximate salt water depths: 800, 1022'
- 9) Approximate coal seam depths: 172'
- 10) Does land contain coal seams tributary to active mine? Yes / No

11) Proposed Well Work:

12) DEVONIAN SHALE DEEPENING.

*NEW TUBULARS

**TUBING & LINER TO

CASING AND TUBING PROGRAM

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TYPE BE PULLED SPECIFICATIONS FOOTAGE INTERVALS DIVISION OF OIL & GAS CEMENT DEPARTMENT OF ENERGY

	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	13 3/8		48	33	33	
Fresh Water	10 3/4		36	208	208	60 sx cmt
Coal	8 5/8		24	1244	0	16 sx Aquagel
Intermediate	7		23	1694	1694	13 sx Aquagel
* Production	4 1/2	K-55	11.6	4360	4360	300 cu ft
* Tubing	2 3/8	NUE	4.6	4360	4360	
** Liners	3 1/2		7.7	2454 (101')	2454 (101')	
**TUBING	2 3/8			2478	2478	

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

Plat WW-9 WW-2B Bond Blanket Agent

(Type)

30071

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JUN 08 1988

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 A-38, GW-922
3) API Well No: 47 - 045 - 0164-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 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) 732-6227 (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
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. Stensbury Commissioner
My commission expires April 9, 1989
_____ Notary Public