

- NEW LOCATION
- RECONDITION
- DRILL DEEPER - 7/25/90
- ABANDONMENT

CERTIFICATE
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."
 Minimum degree of accuracy is one part in 200

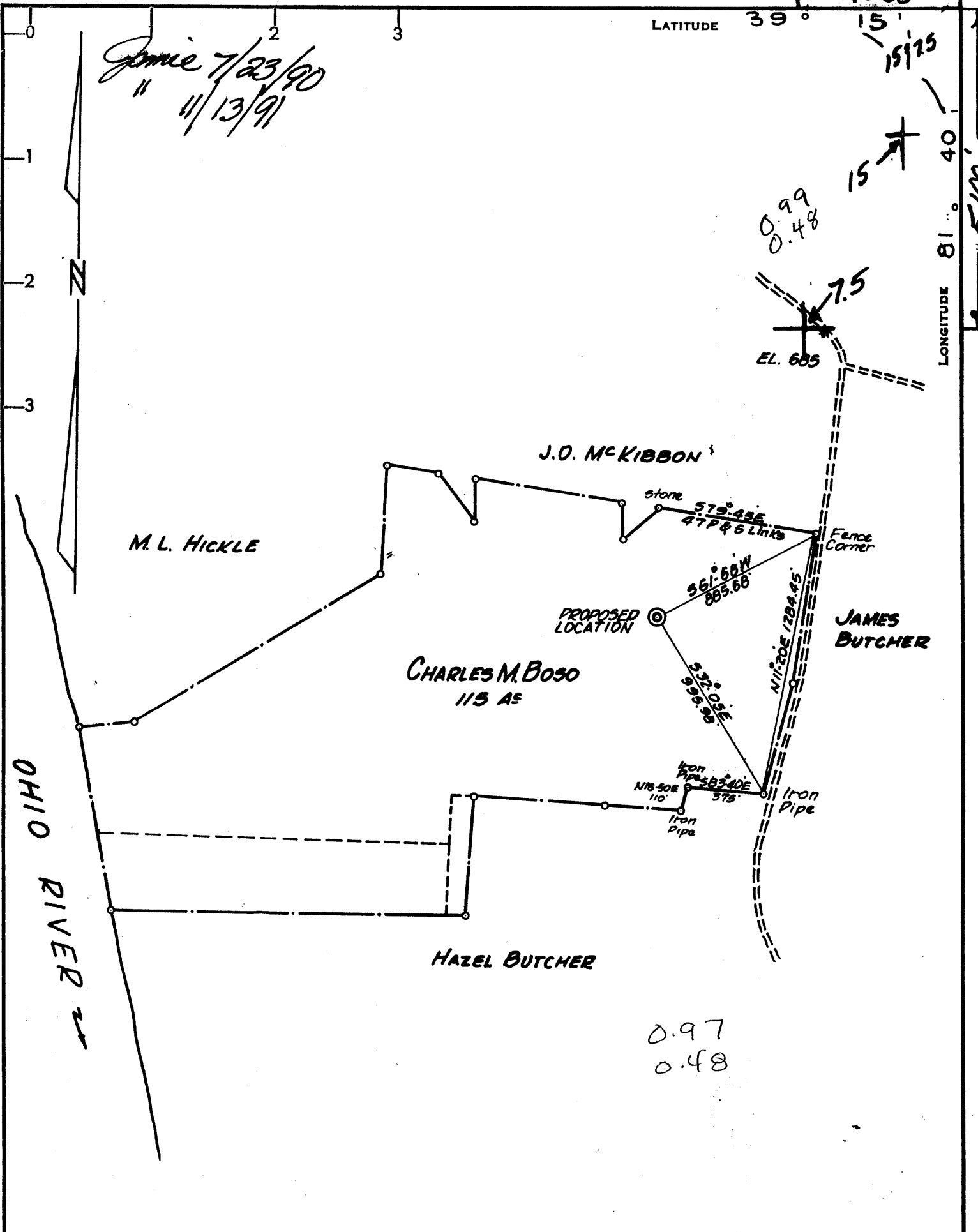
Signed Frank D. Barker U.S. #289

COMPANY E. J. DU PONT DE NEMOURS
 ADDRESS PO BOX
 FARM CHARLES M. BOSO
 MAP _____ ACRES 115 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. 130
 ELEVATION (SPIRIT LEVEL) 632.09
 QUADRANGLE BELLYVILLE 15/LUBECK 7.5
 COUNTY WOOD DISTRICT LUBECK
 POINT OF PROVEN ELEVATION USGS Data Road Intersection
Shown above El. 685
 FILE NO. _____ DRAWING NO. _____
 DATE JAN. 17, 1976 SCALE 1" = 600 FT.

STATE OF WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil & Gas
 Division
WELL LOCATION MAP
Prod Well No. 47-107-00727-P

+ 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.

WOOD 727-00 F



CERTIFICATE

- NEW LOCATION
- RECONDITION
- DRILL DEEPER - 7/25/90
- ABANDONMENT

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

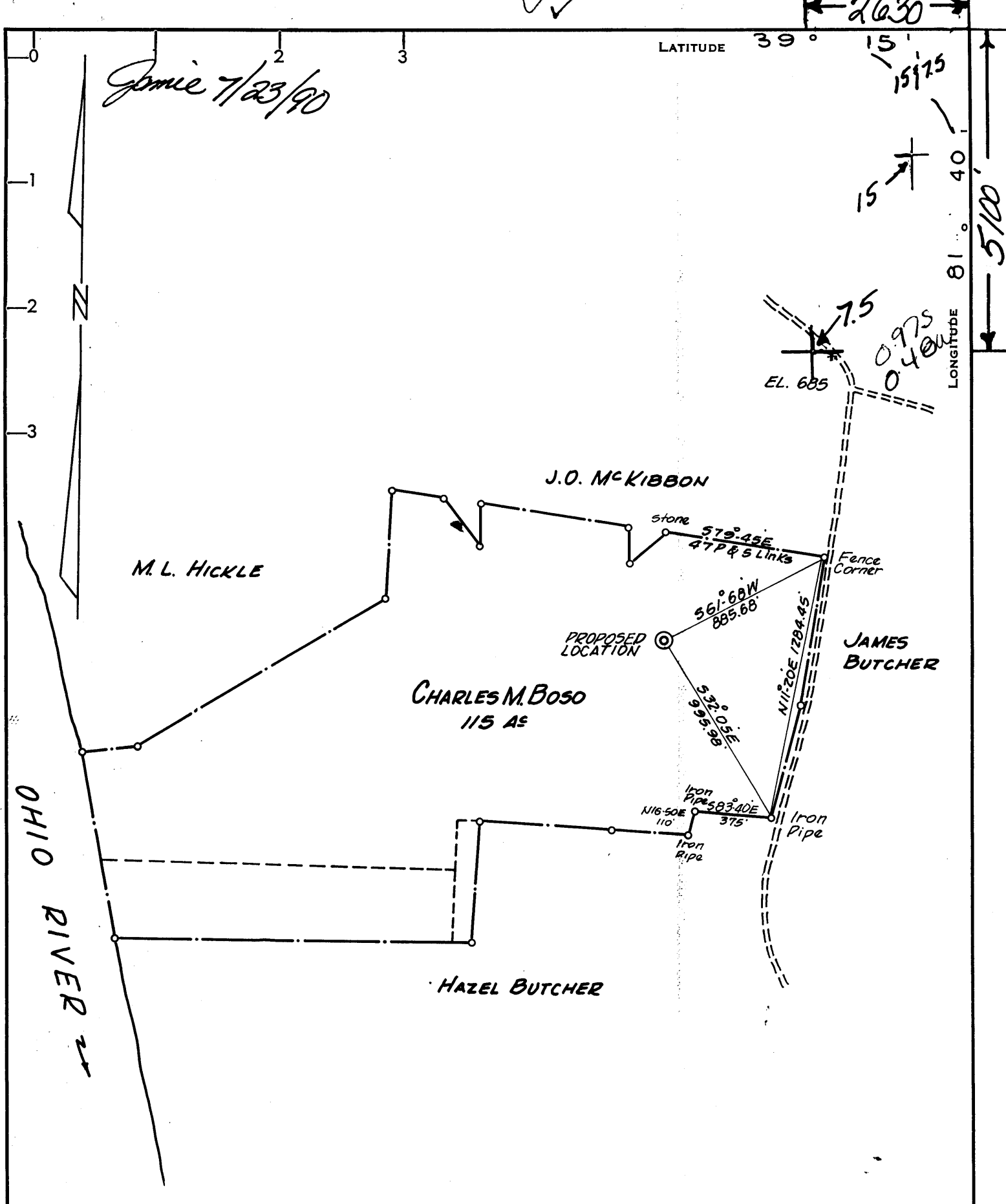
Minimum degree of accuracy is one part in 200
 Signed Frank W. Barker U.S.#289

COMPANY F. I. DU PONT DE NEMOURS 239
 ADDRESS WOOD
 FARM CHARLES M. BOSO
 MAP _____ ACRES 115 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. 130
 ELEVATION (SPIRIT LEVEL) 652.09
 QUADRANGLE BELLEVILLE 15/LUBECK 7.5
 COUNTY WOOD DISTRICT LUBECK 3
 POINT OF PROVEN ELEVATION USGS Data Road Intersection
Shown above El. 685
 FILE NO. _____ DRAWING NO. _____
 DATE JAN. 17, 1976 SCALE 1" = 600 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON NOV 18 1991
 WELL LOCATION MAP
 FILE NO. WOO-727-DD
11/4/91 FRAC
 + 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. 47-107
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

WOOD 727-DD

DEEP WELL 4500 Drilling - 66 Washington bottom (357)



0.975
0.48W
Bellevue W

CERTIFICATE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

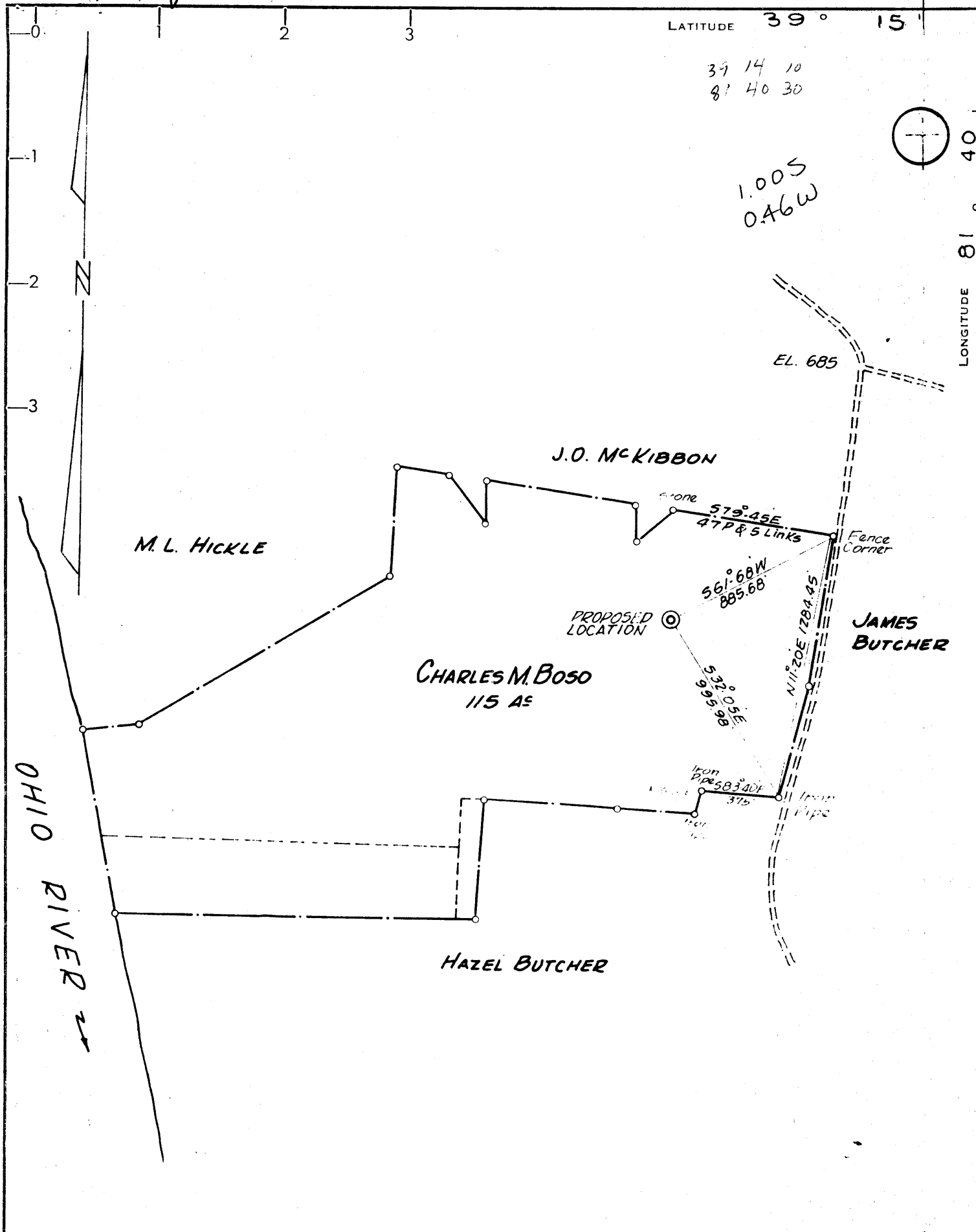
Minimum degree of accuracy is one part in 200
Signed Frank B. Barker U.S.#289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER -7/25/90
- ABANDONMENT

COMPANY E.I. DU PONT DE NEMOURS 239
 ADDRESS PO BOX
 FARM CHARLES M. BOSO
 MAP _____ ACRES 115 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. 130
 ELEVATION (SPIRIT LEVEL) 652.09
 QUADRANGLE BELLEVILLE 15/LUBECK 7.5
 COUNTY WOOD DISTRICT LUBECK 3
 POINT OF PROVEN ELEVATION USGS Data Road Intersection
Shown above El. 685
 FILE NO. _____ DRAWING NO. _____
 DATE JAN. 17, 1976 SCALE 1" = 600 FT.

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
 WELL LOCATION MAP
 FILE NO. W00-727-DD
JUL 27 1990
 + 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. **47-107**
 - DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

WOOD DEEP 4500; Driftlines



- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

CERTIFICATE

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Minimum degree of accuracy is one part in **200**

Signed Frank D. Barker us #289

COMPANY CARL E. SMITH INC
 ADDRESS SANDYVILLE WEST VIRGINIA
 FARM CHARLES M. BOSO
 MAP _____ ACRES 115 LEASE NO. _____
 WELL (FARM) NO. 1 SERIAL NO. 130
 ELEVATION (SPIRIT LEVEL) 652.09
 QUADRANGLE BELLEVILLE NW Lubeck
 COUNTY WOOD DISTRICT LUBECK
 POINT OF PROVEN ELEVATION USGS Data Road Intersection
Shown above El. 685
 FILE NO. _____ DRAWING NO. _____
 DATE JAN. 17, 1976 SCALE 1" = 600 FT.

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

WELL LOCATION MAP

FILE NO. **W00-727**

actual
 Ac 357

+ 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. **47-107**

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

1-1 Now a part of Washington Bottom field (357)

Reviewed TM6
Recorded _____

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

RECEIVED

WV Division of Environmental Protection

JUN 17 92

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: BOSO, CHARLES & ROWENA L. Operator Well No.: BOSO 1 (G-3)

LOCATION: Elevation: 652.09 Quadrangle: LUBECK

District: LUBECK County: WOOD
Latitude: 5100 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 2630 Feet West of 81 Deg. 40 Min. 0 Sec.

Company: DUPONT, E.I. de NEMOURS & CO.
P.O. BOX 1217 WASHINGTON WORKS
PARKERSBURG, WV 26102-1217

Agent: CRAIG K. DILLON

Inspector: GLEN P. ROBINSON
Permit Issued: 11/14/91
Well work Commenced: 11/18/91
Well work Completed: 4/2/92
Verbal Plugging _____
Permission granted on: NA
Rotary NA Cable NA Rig
Total Depth (feet) 4370'
Fresh water depths (ft) NA
Salt water depths (ft) NA

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NA

Casing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10-3/4"	182'	182'	Surface
7"	1957'	1957'	500' (+100 cu.ft.)
4-1/2"	4370'	4370'	1023' (+120 cu.ft.)
2-3/8"		4139'	

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth (ft) 4,144
Gas: Initial open flow 10 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 8 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 100+ Hours
Static rock Pressure 1100 psig (surface pressure) after 24 Hours

Second producing formation Devonian Shale Pay zone depth (ft) 2900'
Gas: Initial open flow 3 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 3 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock Pressure 800 psig (surface pressure) after 100+ 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.

Craig K. Dillon
For: DUPONT, E.I. de NEMOURS & CO. (INC.)
By: Craig K. Dillon
Date: 6/12/92

JUN 26 1992

Physical Change:

- Perforated top of Oriskany from 4,144'-4,149' w/4 SPF.
- Set CIBP at 4,153' and acidized new perfs with 500 gals 15% HCl.
- Flow tested.
- Knocked CIBP to bottom of hole.
- Ran tubing to 4,139'.
- Acidized Oriskany perfs 4,144-4,149 and 4,154'-4,174' with a total of 1000 gals. 7 1/2% acid.
- Flow tested Oriskany.

NOTE: No pit was used during workover operations. All fluids were flowed into stock tank and disposed of into water disposal well.

0609

JUN 26 1992

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

Well Operator's Report of Well Work

Farm name: BOSO, CHARLES & ROWENA L. Operator Well No.: BOSO #1 (G-3)

LOCATION: Elevation: 652.09 Quadrangle: LUBECK

District: LUBECK County: WOOD
Latitude: 5100 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 2630 Feet West of 81 Deg. 40 Min. 0 Sec.

Company: DUPONT, E.I. de NEMOURS &

P.O. BOX 1217 WASHINGTON WORKS | Casing | Used in | Left | Cement

PARKERSBURG, WV 26102-1217

Agent: FREDERICK L. PHILLIPS

Inspector: GLEN P. ROBINSON
Permit Issued: 07/25/90
Well work Commenced: Sept. 30, 1990
Well work Completed: Dec. 10, 1990
Verbal Plugging
Permission granted on: N/A
Rotary X Cable _____ Rig
Total Depth (feet) 4370'
Fresh water depths (ft) _____
N/A
Salt water depths (ft) _____
N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Size	Drilling	in Well	Fill Up Cu. Ft.
Existing 10-3/4"	182'	182'	Surface
Existing 7"	1957'	1957'	500 ft. (+/- 100 cu.ft.)
4-1/2" 10.5#	4370'	4370'	1023 ft. (Est. 120 cu.ft.)
2-3/8" 4.6# 10R		3900'	-

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth (ft) 4160'
Gas: Initial open flow 33 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 37 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 100+ Hours
Static rock Pressure approx. 1200 psig (surface pressure) after 24 Hours

Second producing formation Devonian Shale Pay zone depth (ft) 2900'
Gas: Initial open flow 3 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 3 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure approx. 830 psig (surface pressure) after 100+ 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.

Frederick L. Phillips
For: DUPONT, E.I. de NEMOURS & CO. (INC.)
By: [Signature]
Date: Feb 13, 1991

PERFORATED INTERVAL: ORISKANY S.S. 4154' - 4164'

TREATMENT: 500 GAL. 15% HCl ACID. BROKE DOWN PERFS AT 800 PSI,
1/2 BPM. ISIP 550 PSI. SWABBED WELL IN.

FORMATION (TOPS) ENCOUNTERED): MARCELLUS SH., APPROX. 3890' (-3228')
ONONDAGA LS., APPROX. 4070' (-3408')
ORISKANY SS., APPROX. 4150' (-3488')

4370 new TD.
4078 - old TD

292 - new ftg.

1088



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD₅

Quadrangle Belleville

Permit No. Woo-727

Rotary X Oil X
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company <u>CARL E. SMITH, INC.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>P.O. Box 4, Sandyville, W. Va.</u>	Size			
Farm <u>Charles M. Boso</u> Acres <u>115</u>	20-16			
Location (waters) <u>Ohio River</u>	Cond.			
Well No. <u>1</u> (Serial # <u>130</u>) Elev. <u>652.09'</u>	<u>13-10" 10 3/4</u>	<u>182'</u>	<u>182'</u>	<u>80 sks.</u>
District <u>Lubeck</u> County <u>Wood</u>	<u>9 5/8</u>			
The surface of tract is owned in fee by <u>Charles M. Boso</u>	<u>8 5/8</u>			
Address <u>Rt. 1, Box 75, Washington, W. Va.</u>	<u>7 7"</u>	<u>1957'</u>	<u>1957'</u>	<u>70 sks.</u>
Mineral rights are owned by <u>Same</u>	<u>5 1/2</u>			
Address _____	<u>4 1/2</u>			
Drilling Commenced <u>3-4-76</u>	<u>3</u>			
Drilling Completed <u>3-11-76</u>	<u>2 2 3/8</u>	<u>4005'</u>	<u>4005'</u>	
Initial open flow <u>60,000</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>110,000 M</u> cu. ft. per day _____ bbls.				
Well open <u>3</u> hrs. before test <u>800#</u> RP.				

Attach copy of cementing record.

Well treatment details:
Shot with 11,000# - 80% Gel
Tamped with 9 ton Pea Gravel
Shot 3-24-76

Coal was encountered at None Feet _____ Inches _____
 Fresh water 150' Feet _____ Salt Water _____ Feet 1351'
 Producing Sand Brown Shale Huron + Rhinestreet Depth 2890' to 4078'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil			0	30		
Sand			30	36		
Slate			36	58		
Red Rock			58	123		
Slate			123	192		
Sand			192	206		
Red Rock			206	229		
Slate			229	276		
Red Rock			276	314		
Slate			314	378		
Red Rock			378	394		
Slate			394	407		
Sand			407	419		
Red Rock			419	429		
Slate			429	441		
Sand			441	476		
Slate			476	543		
Red Rock			543	559		
Lime			559	583		
Red Rock			583	652		
Lime			652	671		
Slate			671	699		
Red Rock			699	742		
Slate			742	760		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Red Rock			760	768		
Slate			768	869		
Sand			869	924		
Slate & Shells			924	949		
Sand			949	962		
Slate & Shells			962	994		
Sand			994	1036		
Slate & Shells			1036	1124		
Sand			1124	1203		
Slate			1203	1214		
Sand			1214	1236		
Slate & Shells			1236	1292		
Sand			1292	1316		
Slate & Shells			1316	1369		
Sand			1369	1381		
Slate & Shells			1381	1405		
Sand			1405	1441		
Slate			1441	1513		
Sand			1513	1564		
Slate			1564	1571		
Sand			1571	1622		
Slate & Shells			1622	1848		
Berea Sand			1848	1851		
Slate & Shells			1851	2899		
Brown Shale			2899	3348		
Slate & Shells			3348	3456		
Brown Shale			3456	3602		
Slate			3602	3824		
Brown Shale - Rhinestreet			3824	4078		
				T.D.4078		at, or very near, top Onondaga

4078
1851
2227

Date July 8, 19 76

APPROVED CARL E. SMITH, INC. Owner

By *Carl E. Smith*
(Title)
Manager, Land & Engineering

RECEIVED
NOV 07 1991
DEPT. OF ENERGY

FORM WW-2B

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

107-0727 Frac
Issued 11/14/91
Page of
Expires 11/14/93

- 1) Well Operator: E. I. du Pont de Nemours & Co. ²³⁹ 1,465.0 (3) 449
- 2) Operator's Well Number: Boso No. 1 (G-3) 3) Elevation: 652.09
- 4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production X/ Underground Storage /
Deep X/ Shallow /
- 5) Proposed Target Formation(s): Oriskany 475
- 6) Proposed Total Depth: 4,370 feet
- 7) Approximate fresh water strata depths: NA
- 8) Approximate salt water depths: NA
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: Set CIBP over existing Oriskany perforations 4,154'-74' and re-perforate Oriskany at 4,144'-49'. Will acidize if necessary.
- 12)

CASING AND TUBING PROGRAM

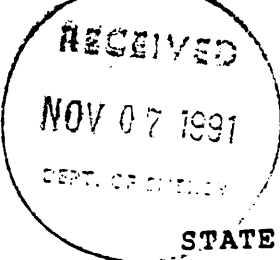
TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	10-3/4"	NA	NA	182'	182'	80 Sks
Coal						
Intermediate	7"	NA	20#	1957'	1957'	70 Sks
Production	4-1/2"	J-55	10.5#	4370'	4370'	100 Sks
Tubing	2-3/8"	J-55	4.6#	NA	3900'	
Liners						

*Electric
from well record*

PACKERS : Kind NA
Sizes
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent
(Type)



- 1) Date: November 4, 1991
- 2) Operator's well number Boso No. 1 (G-3)
- 3) API Well No: 47 - 107 - 727 DD - 1 *Fract*
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 M/M Charles M. & Rowena L. Boso
 - Address Route 1, Box 75
Washington, WV 26181
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
 - Name NA
 - Address _____
 - (b) Coal Owner(s) with Declaration
 - Name NA
 - Address _____
 - Name _____
 - Address _____
 - (c) Coal Lessee with Declaration
 - Name NA
 - Address _____
- 6) Inspector Glen P. Robinson
- Address Box 1
Belleville, WV 26133
- Telephone (304)- 863-8766

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 _____ on the above named parties, by:
X Personal Service (Affidavit attached)
 _____ 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 E. I. du Pont de Nemours & Co.
 By: Craig K. Dillon *Craig K. Dillon*
 Its: Designated Agent
 Address P. O. Box 1217
Parkersburg, WV 26102
 Telephone (304) 863-2189

Subscribed and sworn before me this 6th day of November, 1991

My commission expires July 1, 1994

COMMISSIONER FOR WEST VIRGINIA
 Notary Public

47-107-727-DD
 Issued: 7/25/90
 Expires: 7/25/92 Page 3 of 6

FORM WW-2B

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

- 1) Well Operator: E. I. DU PONT DE NEMOURS 1465^c
- 2) Operator's Well Number: BOSO NO. 1 (G-3) 3) Elevation: 652'
- 4) Well type: (a) Oil / or Gas X/
 (b) If Gas: Production X/ Underground Storage /
 Deep / Shallow X/ (EXISTING)
- 5) Proposed Target Formation(s): ORISKANY SANDSTONE
- 6) Proposed Total Depth: 4500 feet
- 7) Approximate fresh water strata depths: N/A (LESS THAN 1957')
- 8) Approximate salt water depths: " "
- 9) Approximate coal seam depths: " "
- 10) Does land contain coal seams tributary to active mine? Yes / No X/
- 11) Proposed Well Work: DRILL DEEPER (4085' to ±4500')
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Existing Fresh Water	10-3/4"			182'	182'	SURFACE
Coal						
Existing Intermediate	7"		20	1957'	1957'	500 FT. (± 100 CU.FT.)
Proposed Production	4-1/2"	J-55	10.5	4500'	--	500 FT. (110 CU.FT.)
Proposed Tubing	2-3/8"	J-55	4.7	4100'	--	--
Liners						

PACKERS : Kind N/A
 Sizes
 Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Agent

10936

1) Date: JUNE 18, 1990
2) Operator's well number
BOSO NO. 1 (G-3)
3) API Well No: 47 - 107 - 727-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 CHARLES M. & ROWENA L. BOSO
Address RT. 1, BOX 75
WASHINGTON, WV 26181
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector GLEN ROBINSON
Address RT. 1 NO. 6 MT. PLEASANT EST.
MINERAL WELLS, WV 26150
Telephone (304)- ~~489-2736~~ 863-8766

5) (a) Coal Operator:
Name NONE
Address _____
(b) Coal Owner(s) with Declaration
Name NONE
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name NONE
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 6 on the above named parties, by:

- X Personal Service (Affidavit attached)
- 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 E. I. DU PONT DE NEMOURS & CO.
By: FREDERICK L. PHILLIPS
Its: DESIGNATED AGENT
Address P. O. BOX 1217
PARKERSBURG, WV 26102
Telephone 304-863-2189 (W) 304-464-4689 (H)

Subscribed and sworn before me this 27th day of June, 1990

My commission expires July 1, 1994
Harold P. Cook
COMMISSIONER FOR WEST VIRGINIA



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

FEB - 9 1976

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE February 4, 1976

Surface Owner Charles M. Boso
Address Rt. 1, Box 75, Washington, W. Va.

Company CARL E. SMITH, INC.
Address P. O. Box 4, Sandyville, W. Va.

Mineral Owner Same
Address "

Farm Charles M. Boso Acres 115

Address "

Location (waters) Ohio River

Coal Owner "

Well No. 1 (Serial #130) Elevation 652.09'

Address "

District Lubeck County Wood

Coal Operator None

Quadrangle Belleville

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 6-9-76.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Donald Conner
PH: 428-8172 ADDRESS Mineral Wells, W. Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated June 27 19 75 by Charles M. and Rowena L. Boso made to CARL E. SMITH, INC. and recorded on the 1st day of July 19 75 in Wood County, Book 654 Page 633

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey
P. O. Box 879
Morgantown, W. Va. 26505
AC 304-296-4461

Address
of
Well Operator

Very truly yours, CARL E. SMITH, INC.
(Sign Name) [Signature]
Well Operator
P. O. Box 4
Street
Sandyville
City or Town
West Virginia 25275
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

Woo-727 PERMIT NUMBER
47-107

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME CARL E. SMITH, INC. NAME CARL E. SMITH, INC.
 ADDRESS P. O. Box 4, Sandyville, W. Va. ADDRESS P. O. Box 4, Sandyville, W. Va.
 TELEPHONE (304) 273-9313 TELEPHONE (304) 273-9313
 ESTIMATED DEPTH OF COMPLETED WELL: 4000' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Brown Shale
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 10"	Approx. 180'	180'	
9 - 5/8			
8 - 5/8			
7	Approx. 1900'	1900'	
5 ½			
4 ½	4000' If Necessary		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Charles M. Boso Operator Well No.: 1 G-3

LOCATION: Elevation: 652.09 Quadrangle: Belleville 15/Lubeck 7.5
District: Lubeck County: Wood
Latitude: 39° Feet South of 15' Deg. Min.
Longitude 81° Feet West of 40' Deg. Min.

Well Type: OIL _____ GAS xx

Company: E.I. Dupont De Nemours
PO Box 1217
Parkersburg WV 26102

Coal Operator _____
or Owner _____

Agent: David Prather

Coal Operator _____
or Owner _____

Permit Issued: 12/14/94

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Lincoln ss:

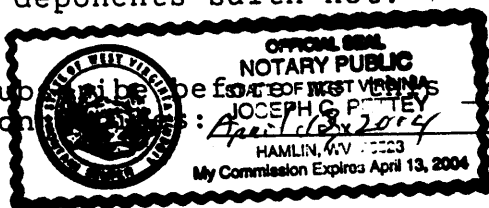
Scott Parsons and Vernon Eplin Jr. being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Glen Robinson Oil and Gas Inspector representing the Director, say that said work was commenced on the 7th day of August, 1995, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Gel Hole	surface	4078'		
Cement	4078'	4034'		
Cut & Pull 4 1/2"		3100'	3100'	1269'
Cement	3080'	2980'		
Cement	2048'	1748'		
Attempted to pull 7"	- not free left	in well		1957'
Perforate 7"	150' circulate	cement to surface		
Cement	100'	surface		

Description of monument: Erect monument with API No. 47-107-00727P and that the work of plugging and filling said well was completed on the 11th day of August, 1995.

And further deponents saith not.

Sworn and subscribed before me
My commission expires



Scott Parsons
Vernon Eplin Jr.
11th day of August, 1995
Joseph C. Petty
Notary Public

Oil and Gas Inspector: Glen Robinson