

Minimum Error of Closure 1' IN 200'
 Source of Elevation AT DWELLING 781.00

Fracture.....
 New Location.....
 Drill Deeper.....
 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.

Signed: L. F. Dye
 Map No. _____ Squares: N S E W

Company ¹⁰³ HARRY C. BOGGS
 Address 216 MARKET ST., SPENCER, W. VA.
 Farm C. S. WEST
 Tract _____ Acres 138.75 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spirit Level) 900.00
 Quadrangle ^{Looneyville 444 125} WALTON 45' EC6
 County ROANE District SMITHFIELD⁵
 Engineer L. F. Dye
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date 2-6-67 Scale 1" = 40 POLES

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

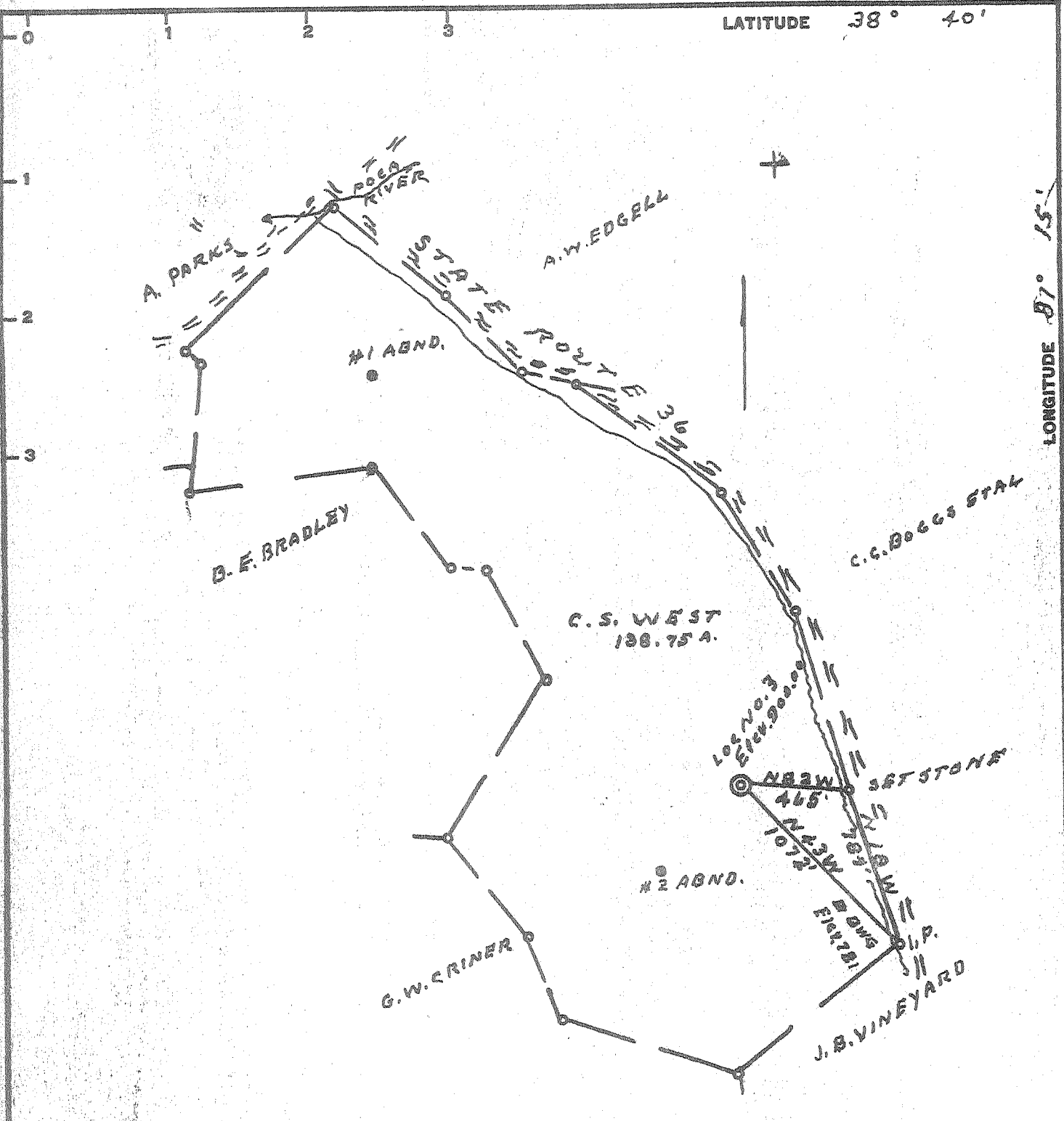
WELL LOCATION MAP

FILE NO. ⁰⁸⁹ ROA-1575-DA-
 (Renewed 8-31-84)

† Denotes location of well on United States Topographic Map, 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.

deep well



Minimum Error of Closure 1" IN 200'

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Fracture

New Location

Drill Deeper 9-11-68

Abandonment

Signed: L. F. Dyer

Squares: N S E W

Company HARRY C. BOGGS
210 MARKET ST.,
 Address SPENCER, W. VA.

Farm C. S. WEST

Tract _____ Acres 138.75 Lease No. _____

Well (Farm) No. 3 Serial No. _____

Elevation (Spirit Level) 900.00

Quadrangle WALTON EC

County ROANE District SMITHFIELD

Engineer L. F. Dyer

Engineer's Registration No. 804

File No. _____ Drawing No. _____

Date 2-6-67 Scale 1" = 40 POLES

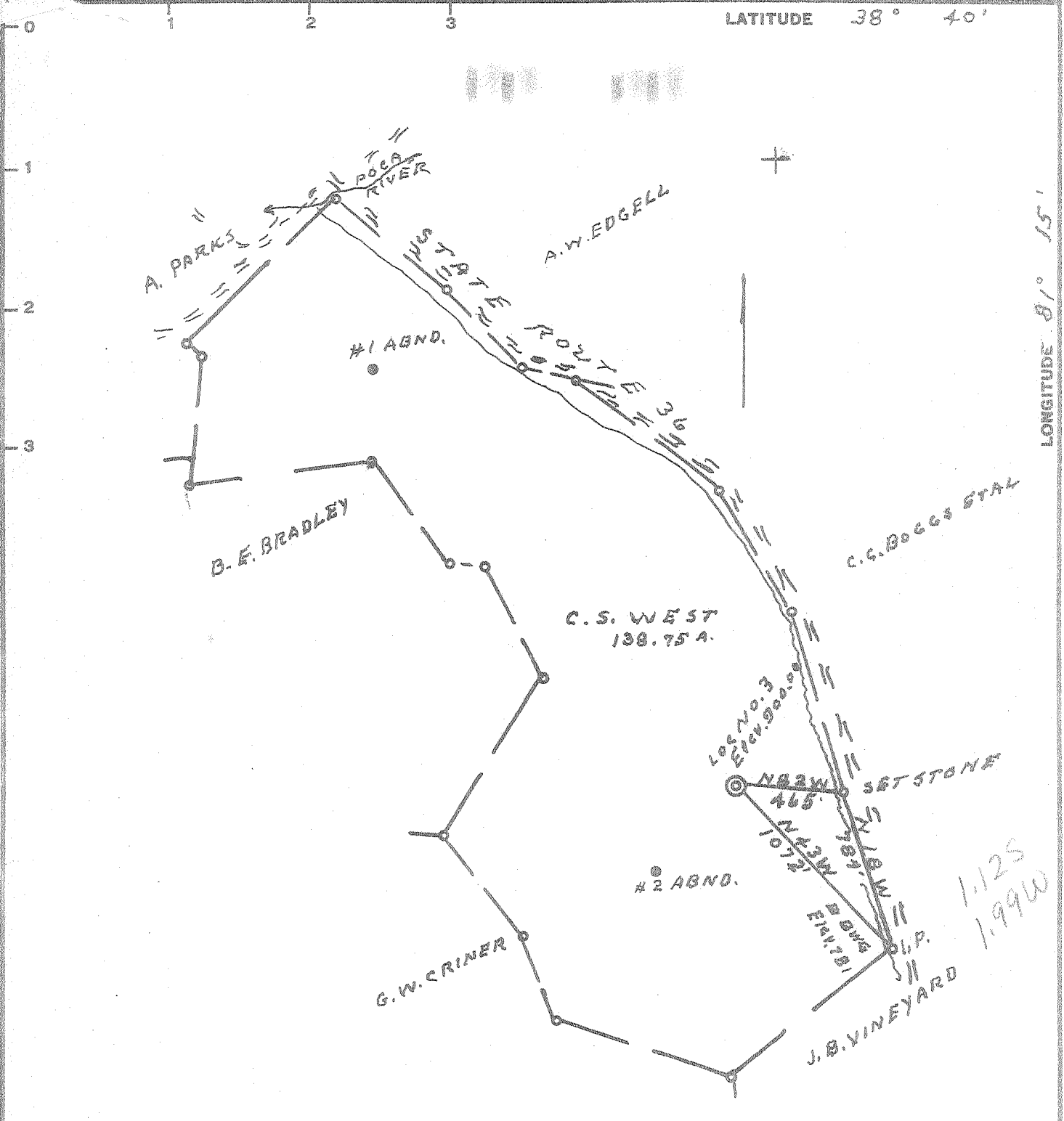
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. RoA-1575-DD-Conalle
9-8-7
 (Renewed 8-11-67)

+ 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.



Minimum Error of Closure 1' IN 200'

Source of Elevation AT DWELLING 781.00

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Fracture.....
 New Location.....
 Drill Deeper..... 9-11-68
 Abandonment.....

Signed: L. F. Dye
 Squares: N S E W

Company HARRY C. BOGGS
216 MARKET ST.
 Address SPENCER, W. VA.
 Farm C. S. WEST
 Tract _____ Acres 138.75 Lease No. _____
 Well (Farm) No. 3 Serial No. _____
 Elevation (Spiral Level) 900.00
 Quadrangle WALTON EC
 County ROANE District SMITHFIELD
 Engineer L. F. Dye
 Engineer's Registration No. 804
 File No. _____ Drawing No. _____
 Date 2-4-67 Scale 1" = 40 POLES

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

WELL LOCATION MAP

FILE NO. ROA-1575-AD
 (Renewed 8-11-67)

+ 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

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well Gas
(KIND)

Quadrangle

Permit No. ROA-1575

Company Harry C. Boggs
Address Spencer, W. Va. 25276
Farm C. S. West Acres 132
Location (waters) Poca River
Well No. 3 Elev. 900
District Smithfield County Roane
The surface of tract is owned in fee by C. S. West
Address Looneyville, W. Va.
Mineral rights are owned by F. F. Wells
Address

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
12 14	40	40	Size of <u>3 1/2</u>
8 8 5/8	1879	1879	Depth set <u>1850</u>
6 3/4			Perf. top <u>1813</u>
5 3/16			Perf. bottom <u>1819</u>
4 1/2			Perf. top
3			Perf. bottom
2			
Liners Used			

Drilling commenced September 11, 1967
Drilling completed October 4, 1967
Date Shot From

Attach copy of cementing record.
CASING CEMENTED 8 5/8 SIZE 1879 No. Ft. 9/20/67 Date
Amount of cement used (bags) 250 bags
Name of Service Co. Well Service

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume **See note below. Cu. Ft.
Rock Pressure 1,000 lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)

COAL WAS ENCOUNTERED AT FEET INCHES
..... FEET INCHES
..... FEET INCHES
..... FEET INCHES

WELL FRACTURED (DETAILS) **Volume of gas from shale 3250 - 4820 Approximately 40,000 MCF

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water Feet Salt Water Feet
Producing Sand Depth

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Sand			10	30			
Redrock			30	60			
Slate			60	90			
Redrock			90	125			
Sand & Limeshells			125	150			
Redrock			150	190			
Slate			190	210			
Redrock			210	250			
Slate & Broken sod			250	1280			
Salt & Sand			1280	1430			
Slate			1430	1448			
Sand			1448	1450			
Slate			1450	1456	Gas	3250	Showing
Maxon Sand			1456	1560	Gas	3260	Showing
Slate			1560	1584	Gas	3295	Showing
Little Lime			1584	1608	Gas	4640	Showing
Slate			1608	1630	Gas	4820	Showing
Big Lime			1630	1704			
Big Irgan			1704	1768			
Slate			1768	1816			
Sand			1816	1832			
Slate & Shells	U.O. ~	2355	1832	5250			
	H ~	3353					
	J ~	4267					
	K ~	4467					
	R ~	4751					
	C.S. ~	5190					
	WR ~	5916					
				Total	5250		

FEB 27 1968

NOTE***Ran 3 1/2 inch pipe on packer to fracture well. Have 1/2 of packer and 30 feet tail pipe still in hole with slip of packer on top. Fishing:

RECEIVED

JAN - 3 1985
OIL & GAS DIV.
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date January 2, 1985
Operator's
Well No. C.S. West No. 3
Farm C. S. West
API No. - 087 - 1575-D D

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 900' Watershed Pocatalico River
District: Smithfield County Roane Quadrangle Looneyville

COMPANY Harry C. Boggs
ADDRESS P. O. Box 198 Spencer, WV 25276
DESIGNATED AGENT Harry C. Boggs
ADDRESS P. O. Box 198 Spencer, WV 25276
SURFACE OWNER Robert Lloyd
ADDRESS Akron, Ohio
MINERAL RIGHTS OWNER Fred Wells, Et.al.
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Homer Daugherty
ADDRESS Looneyville, WV
PERMIT ISSUED 8/24/84
DRILLING COMMENCED 8/24/84
DRILLING COMPLETED 10/9/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1890	1890	Existing
7			
5 1/2	5190	5190	264
4 1/2			
3			
2-7/8	5684	564	41
Liners used			

GEOLOGICAL TARGET FORMATION Wild Cat Depth 7000 feet
Depth of completed well 5684 feet Rotary X / Cable Tools
Water strata depth: Fresh 100 feet; Salt 5684 feet
Coal seam depths: N/A Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 4850-5100 feet
Gas: Initial open flow 450 Mcf/d Oil: Initial open flow Bbl/d
Final open flow 450 Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 1200 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Rhinestreet
 Perforated 4850-5100 32 holes .39"
 Stimulated with 1,400 Mscf of N₂ and 500 gal. acid
 Breakdown Pressure: 2500 Psig
 N₂ Rate 64,000 Scf/Min

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil			0	0	
Sand			10	30	
Redrock			30	250	
Sand Slate			250	1450	
Maxon			1456	1560	
Big Lime			1630	1704	
Big Injun			1704	1768	
Shale			2200	4690	
Brown Shale			4690	5460	Oil @ 5100' Gas Show
Oriskany			5465	5490	
Onadoga Lime			5490	5650	
Oriskany			5650	5684 TD	1,000 Mcf/day Gas 100 bbl Salt H ₂ O

5684
 5460

 224' expl. ftg.

5684 new TD
 5250 old TD

 434 -DD ftg

(Attach separate sheets as necessary)

 Harry C. Boggs
 Well Operator

By: _____

Date: January 2, 1985

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

