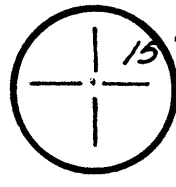


Longitude 80° 05' 00"
9950'



FRACTURE

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure 1:200
Source of Elevation INTERSECTION ROADS - S FORKS
E.L. = 1883

"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." *Paul Dean*

Company GLENN L JOHNSON dba JOHNSON PRODUCING Co.
 Address P.O. BOX 298, BUCKHANNON, W. VA.
 Farm POST - RADABAUGH, HR BOOTH
 Tract 1 Acres 50 Lease No. _____
 Well (Farm) No. ONE Serial No. _____
 Elevation (Spirit Level) 1770
 Quadrangle AUDRA, PHILIPPI 15'
 County UPSHUR District UNION
 Engineer Paul L. Dean
 Engineer's Registration No. 1856
 File No. 136-15-50 Drawing No. 77-B-1
 Date 8/17/77 Scale 1" = 500'

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

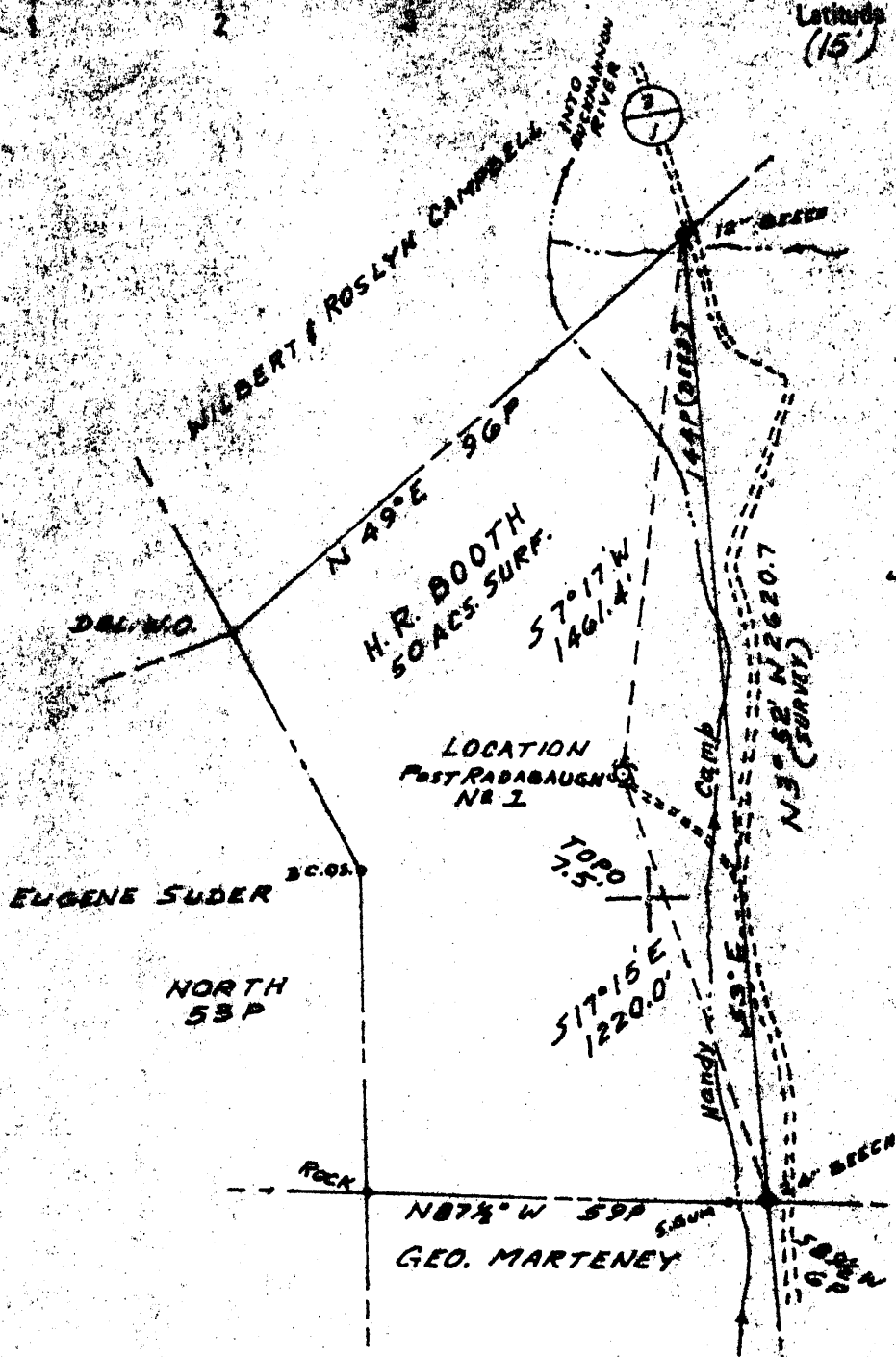
WELL LOCATION MAP
FILE NO. UPS-1779-FRAC

+ 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.

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

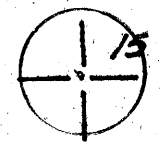
Latitude $39^{\circ} 02' 30''$
 (15') $39^{\circ} 05'$

Longitude $80^{\circ} 05' 00''$
 9950'



JUNE POST

39 00 55
 80 06 20



4.745
 1.23W

New Location
 Drill Disper
 Abundant

Minimum Error of Closure 1:200
 Source of Elevation INTERSECTION ROADS - 5 FORKS
EL. 1103

"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." *Paul H. Dean*

Company GLENN L. JOHNSON dba JOHNSON PRODUCING CO.
 Address P.O. BOX 296, BUCKNANNON, W. VA.
 Farm POST - RADABAUGH, HR. BOOTH
 Tract 1 Acres 50 Lease No. _____
 Well (Farm) No. ONE Serial No. _____
 Elevation (Spirit Level) 1770 SC
 Quadrangle AUDRA, PHILIPPI 15'
 County UPSHUR District UNION
 Engineer Paul H. Dean
 Engineer's Registration No. 1856
 File No. 136-15-50 Drawing No. 77-B-1
 Date 8/17/77 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. UPS-1779

+ 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.

47-097 OCT 21 1977



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

WELL RECORD 44

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

Quadrangle Audra
Permit No. UPS 1779

097

Glenn H. Johnson

Company dba Johnson Producing Company
Address P. O. Box 298, Buckhannon, W. Va.
Farm H. R. Booth Acres 50
Location (waters) Handy Camp
Well No. 1 Elev. 1770
District Union County Upshur
The surface of tract is owned in fee by _____
H. R. Booth
Address Buckhannon, W. Va.
Mineral rights are owned by Post-Radabaugh
Address Buckhannon, W. Va.
Drilling Commenced 11-02-77
Drilling Completed 11-06-77
Initial open flow _____ cu. ft. _____ bbls.
Final production 184 M cu. ft. per day _____ bbls.
Well open 3 hrs. before test 1280 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"	20	20	10 sacks
9 5/8			
8 5/8	523	523	130 sacks
7			
5 1/2			
4 1/2		3810	465 sacks
3			
2			
Liners Used			

Well treatment details:
Hydraulic Frac:

Date: 11-14-77

Fresh Water: 702 bbls.

20/40 Sand: 37,000#

Attach copy of cementing record.

Coal was encountered at 80, 90 Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Benson Depth 3705

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			0	22		
Shale			22	30		
Sand			30	50		
Sand			50	80		
Coal			80	85		
Sand & Shale			85	90		
Coal			90	95		
Sand			95	195		
Sand			195	315		
Sand & Shale			315	543		
Shale			543	655		
Red Rock			655	699		
Shale & Red Rock			699	1060		
Lime			1060	1193		
Sand			1193	1250		
Sand & Shale			1250	1565		
Red Rock			1565	1695		
Red Rock			1695	1740		
Sand & Shale			1740	1810		
Red Rock & Shale			1810	2399		
Sandy Shale			2399	3078		
Sandy Shale			3078	3700		
Benson			3700	3820		

(over)

* Indicates Electric Log tops in the remarks section.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE September 21, 1977

Surface Owner H. R. Booth

Company Glenn H. Johnson
D/B/A Johnson Producing Co.

Address Buckhannon WV 26201

Address P.O. Box 298 Buckhannon WV 26201

Mineral Owner Post-Radabaugh Et-Al

H.R. Booth Farm Acres 50

Address Buckhannon WV 26201

Location (waters) Handy Comp

Coal Owner J. D. LaRosa

Well No. #1 Elevation 1770

Address Clarksburg WV 26301

District Union County Upshur

Coal Operator _____

Quadrangle Audra

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 2-6-78.

Robert [Signature]
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Bill Hatfield
PH: 472-4268 ADDRESS Buckhannon, 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 Farmout Sept. 1 19 77 by Consolidated Gas Supply Corp. made to Glenn H. Johnson and recorded on the _____ day of _____ 19____, in _____ County, Book _____ Page _____

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 This 21st day September 77 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

Very truly yours,
(Sign Name) [Signature]
Well Operator
P.O. Box 298
Street
Buckhannon
City or Town
W. Va. 26201
State

Address
of
Well Operator

*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.

BOND DRILL

Ups-1779 PERMIT NUMBER
47-097

THIS IS AN ESTIMATE ONLY
 ALL INFORMATION WILL BE OBTAINED FROM THE RECORDS OF THE COMMISSION

PROPOSED WORK ORDER NO. X
 NAME S. W. Jack ADDRESS Buckhannon WV TELEPHONE 472-2101
 NAME Glenn H. Johnson ADDRESS P.O. Box 298 Buckhannon WV 26201 TELEPHONE 472-0373
 ESTIMATED GALLONS OF COMPLETED WELLS 4000 ROTARY CABLE TOOLS
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 REVENUE _____ WATER FLOOD _____ OTHER _____
 TYPE OF WELL: _____ **Benson**

PIPE AND TUBING SIZE	USED FOR DRILLING	DEPTH IN FEET	CEMENT FILL UP OR SACKS - CUBIC FT.
	600	600	To Surface
	4000	4000	
			Perf. Top
			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS _____
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

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

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF GC - 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 GC - 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 GC - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND.

Required forms must be filed with the records of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

follow:

Coal Company, ...

...

...

...

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. H.R. Booth #1

API Well No. 47-097-1779 - 1779

State County Permi

47-097-1779-FRAC.

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1770' Watershed: Handy Camp
District: Union County: Upshur Quadrangle: Audra

WELL OPERATOR Glenn H. Johnson dba Johnson
Producing Co.
Address P.O. Box 298
Buckhannon, W. Va. 26201

DESIGNATED AGENT Barbara Byrd
Address P.O. Box 298
Buckhannon, W. Va. 26201

OIL & GAS ROYALTY OWNER Post - Radabaugh
Address Buckhannon, W. Va. 26201

COAL OPERATOR None
Address _____

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name James D. LaRosa
Address Clarksburg, W. Va. 26301

SURFACE OWNER H. R. Booth
Address Buckhannon, W. Va. 26201

Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

Name _____
Address _____

FIELD SALE (IF MADE) TO:

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Robert Stewart
Address Jane Lew, W. Va.
Tele: 884-7782

AUG 13 1979
ON & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract Farmout dated 09/01, 19 77, to the undersigned well operator from Consolidated Gas Supply Corporation

[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /

Other physical change in well (specify) This well not producing and would like permission to fracture 5th Sand at 2149 Ft. When well was completed this formation cemented over
--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1415 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

COND DRILL

Glenn H. Johnson dba Johnson Producing Co.
Well Operator

By Barbara Byrd
Its Designated Agent

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Co.

Address Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, 5th Sand 1964-1968', 2124-2128', 2144-2149'

Estimated depth of completed well, 2149' feet Rotary / Cable tools /

Approximate water strata depths: Fresh, feet; salt, feet.

Approximate coal seam depths: Is coal being mined in the area? Yes / X

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate									
Production									Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 fracturing. This permit shall expire if operations have not commenced by 5-4-79.

Robert L. [Signature]
Deputy Director - Oil & Gas Division

has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

By

Its