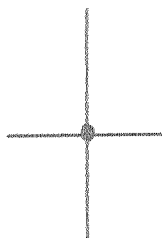


LATITUDE

39° 02' 30"

81° 07' 30"

LONGITUDE

$$\begin{array}{r} 7\frac{1}{2} \\ \hline 1.055 \\ 1.460 \end{array}$$


7'5 OGIS topo location

7.5' loc _____ 15' loc _____
 _____ (calc.) _____

Company Richter Oil Co. 750

Farm Emily McCray hrs 2

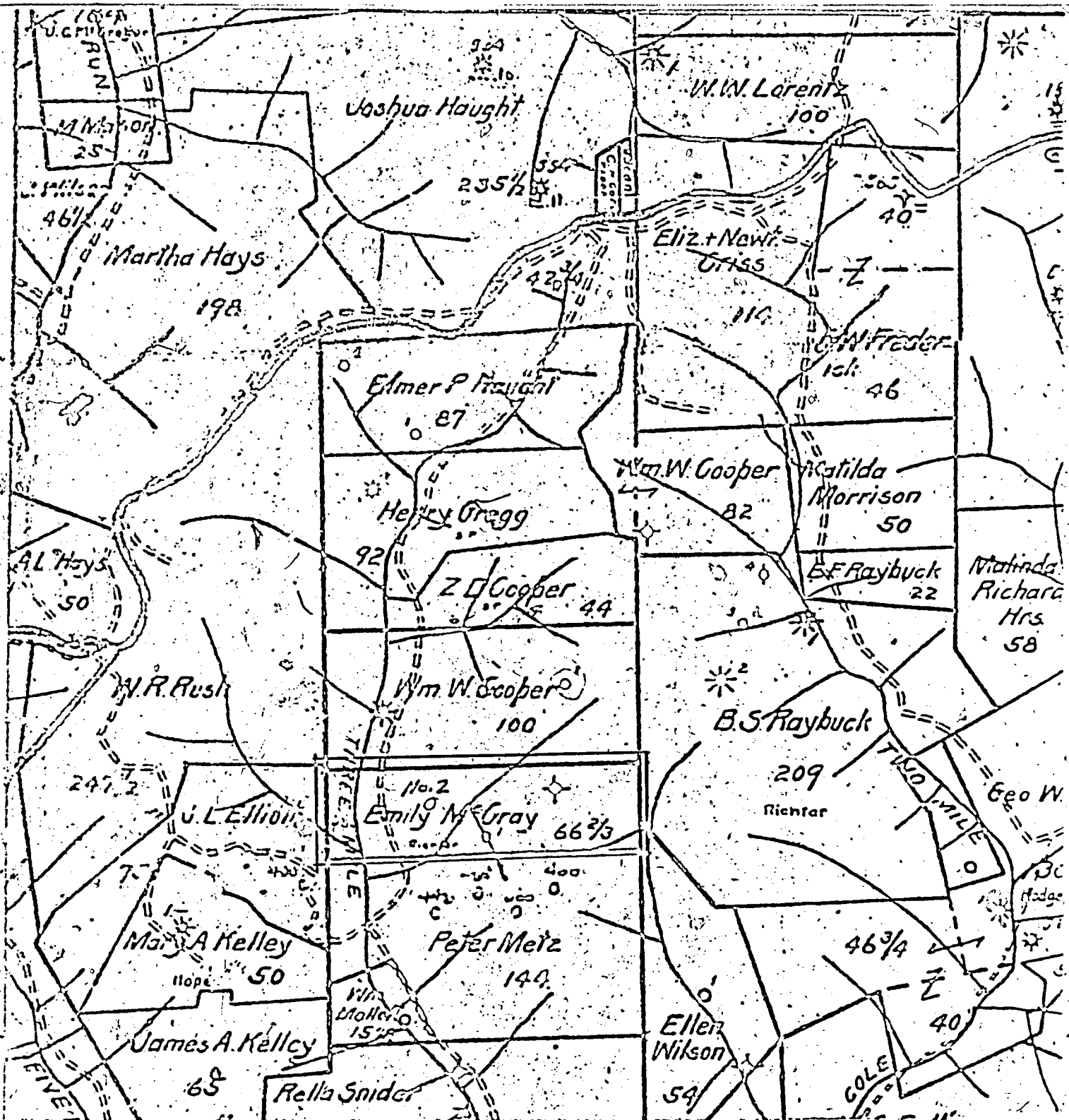
Quad Macfarla

County _____

District Shuida

WELL LOCATION MAP

File No. 013-287



FORM IV-6

[08-79]

J-20 O MAP

Date: Feb 25, 1981

Operator's Well No. E. McCray No 2

API Well No. 47 - N/A - 3290
State County Permit:

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

WELL PLAT

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

LOCATION: Elevation N/A Watershed Three mile
 District Sheridan County Calhoun Quadrangle Harrisville

SURFACE OWNER McCray Helps - New Snider, Agent Farm acreage 67
 OIL & GAS ROYALTY OWNER McCray Helps Lease acreage 67 Lease No. 15

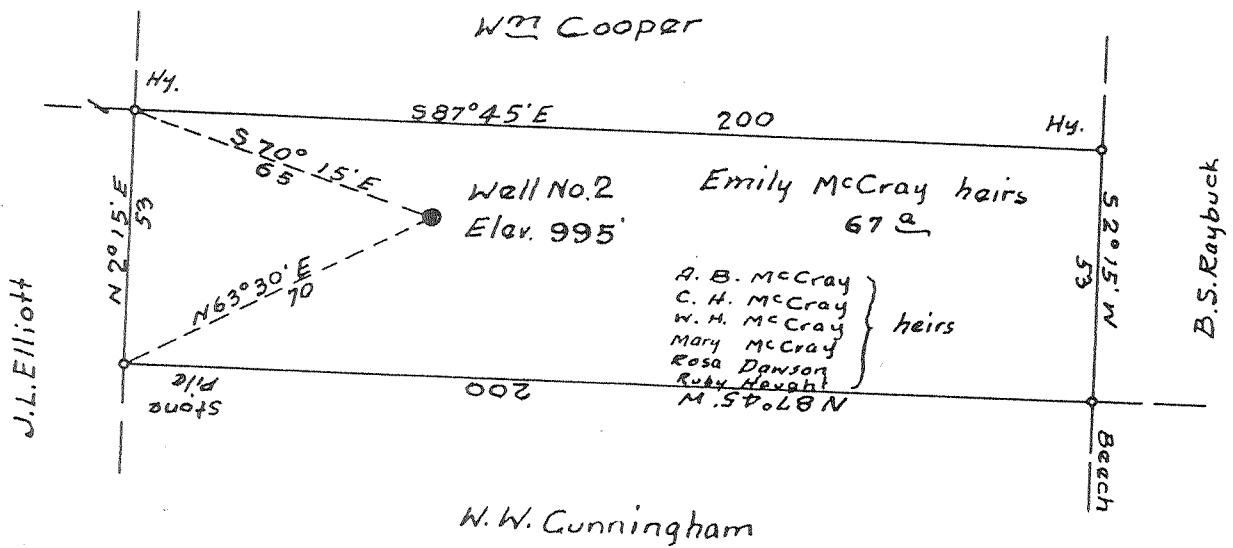
PROPOSED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) Applying for API well No. and NGA section 108 stripper well
 Plug and abandon / Clean out and replug

TARGET FORMATION Maxon Sand Estimated depth 1832

WELL OPERATOR N.G. & K.E. Busch DESIGNATED AGENT K. E. Busch
 Address cba Richter Oil Co. Address Brohard, WV 26136
Brohard, WV 26138

Plat of the proposed location of Well No. 2, of the Richter Oil Co. of Brohard, West Virginia, on the Emily McCray farm, consisting of 67 acres, located in Sheridan district, Calhoun county, West Virginia.

CAL-287



ENGINEER'S CERTIFICATE

I, the undersigned, hereby certify that this Map is correct, and shows all the information, to the best of my knowledge and belief, required by the Oil and Gas Section of the Mining Laws of West Virginia.

Logan McDonald

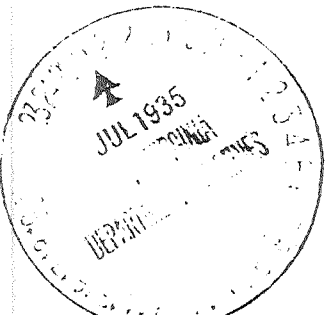
 Engineer

Acknowledged before me, a Notary Public, this the 22nd. day of July, 1935,

[Signature]

 Notary Public

My commission expires on the 2 day of July, 1940.



108-78

WELL OPERATOR'S REPORT

Operator's Well No. E. McCray No. 2
API Well No. 17-013-3290
State Court Permit

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production / Underground storage ___ / Deep ___ / Shallow ___)
LOCATION: Elevation: 995 Watershed: Three Mile
District: Sharidan County: Calhoun Quadrangle: Harrisville

WELL TO: V. P. & E. Busch DESIGNATED AGENT K. E. Busch
Braha Oil Co. Address Brohard, WV 26138
Broha WV 26138

PERMITTED WORK: Drill ___ Convert ___ Drill deeper ___ Re-drill ___ Fracture or stimulate ___
Plug off old formation ___ Perforate new formation ___
Other physical change in well (specify) Applying for API well No. and section 108 of the NGPA of 1978.

PERMIT ISSUED ON , 19

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

OIL & GAS INSPECTOR FOR THIS WORK:

Name: Richard J. Morris
Address: P.O. Box 372
Grantsville, WV 26147

GEOLOGICAL TARGET FORMATION: Maxon Sand Depth 1802 feet

Depth of completed well, 1832 feet Rotary ___ / Cable Tools ___

Water strata depth: Fresh, 90 feet; salt, N/A feet.

Coal seam depth: None Is coal being mined in the area? No

Work was commenced Aug. 1, 1935 and completed Aug. 31, 1935

LOGGING AND TUBING PROGRAM

| LOGGING OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic-feet) | PACKERS |
|------------------------|----------------|-------|---------------|-----|-------------------|--------------|--------------------------------------|---------------|
| | Size | Grade | Weight per ft | New | Used | For drilling | | |
| Conductor | | | | | | | | |
| Fresh water | 10" | | | | | 433 | 0 | Kinds |
| Intermediate | 8" | | | | | 1085 | 0 | Sizes |
| Production | 6" | | | | | 1627 | 1627 | Depth set |
| Gas | 2" | | | | | 1800 | 1800 | Perforations: |
| | | | | | | | | Top Bottom |
| | | | | | | | | 1627 to 1832 |
| | | | | | | | | open hole |

FLOW DATA

Producing formation: Maxon Sand Pay zone depth 1802 feet

Gas: Initial open flow, N/A Mcf/d Oil: Initial open flow, N/A 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 measurement) after ___ 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 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

[08-78]

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

Complete well log not available

WELL LOG

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks Including indication of all fresh and salt water, coal, oil and gas |
|------------|-------|--------------|----------|-------------|--|
| Gobel Sand | | | 1081 | 1105 | |
| Gas Sand | | | 1350 | 1418 | |
| Salt Sand | | | 1624 | 1665 | |
| | | | 1740 | | |
| Gas | | | 1802 | | |
| Oil | | | 1813 | 1825 | |

(Attach separate sheets to complete as necessary)

N.G. & K.E. Busch dba RICHTER OIL Co.
Well Operator

By *N.G. & K.E. Busch*
Its Designated Agent

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."

WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

PRELIMINARY DATA SHEET NO. 1

File No. CAL-287

Well No. 2

Richter Oil Company Company of Brohard, W. Va.

on the Emily McCray Heirs Farm

containing 67 acres. Location

Sheridan District, in Calhoun County, West Virginia

The surface of the above tract is owned in fee by Emily McCray Heirs A. B. McCray Agt. of Brohard, W. Va. address, and the mineral rights are owned by

Emily McCray Heirs of

The oil and gas privileges are held under lease by the above named company, and this well is drilled under permit No. Cal-287 issued by the West Virginia Department of Mines, Oil and Gas Division

August 5, 1935.

Elevation of surface at top of well, 995 Spirit Barometric.

The number of feet of the different sized casings used in the well.

16 feet 13" size. Wood conductor.

433 feet 10" size, csg. 1085 feet 8 1/4" sized csg.

1627 feet 6" size, csg. feet sized csg.

 feet size, csg. feet sized csg.

None packer of size, set at

 packer of size, set at

None, in casing perforated at feet to feet.

2" Tubing, in casing perforated at 1816 feet to feet.

Coal was encountered at None feet, thick ness inches, and at

feet; thickness inches; and at feet; thickness inches.

Liners were used as follows: (Give details) None

12/3/35

Date.

Approved Richter Oil Company, Owner.

By W. S. Kinney (TITLE) Sup't.



CAL 281

OIL OR GAS WELL McCray #2

Richter Oil Company Company

COMPLETION DATA SHEET

Brohard, W. Va. Address

No. 2

WELL No. 2

FARM Emily McCray Heirs

FORMATION RECORD

| Name | Color | Character | Oil, Gas or Water | Top | Bottom | Thickness | Total Depth | Remarks |
|-------------|-------|-----------|-------------------|------|--------|-----------|-------------|---------|
| Red Soil | Red | clay | | 0 | 12 | 12 | 12 | |
| Sand Rock | white | sand | | 12 | 30 | 18 | | |
| White Slate | " " | | | 30 | 75 | 45 | | |
| Sand | | | | 75 | 95 | 20 | | |
| White Slate | " | | | 95 | 125 | 30 | | |
| Red Rock | Red | | | 125 | 150 | 25 | | |
| Lime | Gray | | | 150 | 170 | 20 | | |
| White Slate | White | | | 170 | 200 | 30 | | |
| Red Rock | Red | | | 200 | 225 | 25 | | |
| Sand | Gray | | | 225 | 255 | 30 | | |
| Slate | White | | | 255 | 280 | 25 | | |
| Rock | Red | | | 280 | 315 | 35 | | |
| Slate | White | | | 315 | 370 | 55 | | |
| Sand | " | | | 370 | 400 | 30 | | |
| Slate | " | | | 400 | 410 | 10 | | |
| Rock | Red | | | 410 | 449 | 39 | | |
| Lime | Gray | | | 449 | 470 | 21 | | |
| Slate | White | | | 470 | 520 | 50 | | |
| Shell | Gray | | | 520 | 529 | 9 | | |
| Rock | Red | | | 529 | 535 | 6 | | |
| Slate | White | | | 525 | 560 | 25 | | |
| Rock | Red | | | 560 | 567 | 7 | | |
| Shell | Gray | Lime | | 567 | 575 | 8 | | |
| Sand | " | | | 575 | 605 | 30 | | |
| Slate | White | | | 605 | 663 | 58 | | |
| Rock | Red | | | 663 | 670 | 7 | | |
| Slate | White | | | 670 | 694 | 24 | | |
| Sand | " | | | 694 | 720 | 26 | | |
| Slate | " | | | 720 | 733 | 13 | | |
| Sand | " | | | 733 | 810 | 83 | | |
| Rock | Red | | | 810 | 900 | 90 | | |
| Slate | White | | | 900 | 930 | 30 | | |
| Lime | Shell | | | 930 | 937 | 7 | | |
| Slate | White | | | 937 | 965 | 28 | | |
| Lime | " | | | 965 | 985 | 20 | | |
| Sand | " | | | 985 | 1015 | 30 | | |
| Slate | Black | | | 1015 | 1035 | 20 | | |
| Rock | Red | | | 1035 | 1049 | 14 | | |
| Slate | White | | | 1049 | 1070 | 21 | | |
| Lime | " | | | 1070 | 1081 | 11 | | |
| Gobel | " | Rock | | 1081 | 1105 | 26 | | |
| Slate | Black | | | 1105 | 1130 | 25 | | |
| Slate | White | | | 1130 | 1160 | 30 | | |
| Lime | Gray | | | 1160 | 1178 | 18 | | |

Continued:

Well was shot at 1816 to 1839 feet; well was shot at ... feet.

Fresh water at 90 feet and 376 feet; salt fresh water at 1850 - 1853 feet.

Well was producing hole

12/3/35
Date

Approved Richter Oil Co., BY: W.S. Kinney Owner

NOTE: All bottom formations must be noted as indicated above and all key-rocks and oil and gas sands must be recorded under their proper geological names in the district as well as any local names commonly used in the district for such strata.

CAL- 287

| Name | Color | Character | Oil, Gas or Water | Top | Bot. | Thickness |
|-----------|-------|-----------|----------------------|-------|------|-----------|
| Slate | Black | | | 1178 | 1200 | 22 |
| Sand | White | | | 1200 | 1230 | 30 |
| Slate | Black | | | 1230 | 1261 | 31 |
| Shell | Gray | | | 1261 | 1268 | 7 |
| Slate | White | | | 1268 | 1300 | 32 |
| Shell | " | | | 1300 | 1307 | 7 |
| Slate | Black | | | 1307 | 1350 | 43 |
| Sand | White | | 1410 Gas | 1350 | 1448 | 98 |
| Slate | black | | | 1448 | 1530 | 82 |
| Sand | Gray | | | 1530 | 1570 | 40 |
| Break | Black | | | 1570 | 1624 | 54 |
| Gas Sand | Gray | Sand | 1647 Gas | 1624 | 1665 | 41 |
| Break | black | slate | | 1665 | 1740 | 75 |
| Salt Sand | White | | | 1740 | | |
| | | | 1816-1820 Oil | | | |
| | | | 1825-1832 Oil | Total | 1853 | |

RECEIVED
MAR 1 1981

30

FERC-121

OIL & GAS DIVISION
DEPT. OF MINES

| | | | | |
|---|---|---------------------------|---|-------------------------------|
| 1.0 API well number: (If not available, leave blank. 14 digits.) | <u>013-3290</u> | | | |
| 2.0 Type of determination being sought: (Use the codes found on the front of this form.) | <u>108</u> Section of NGPA | <u>T</u> Category Code | | |
| 3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) | _____ feet | | | |
| 4.0 Name, address and code number of applicant: (35 letters or less maximum. If code number not available, leave blank.) | <u>N.G. & K.E. Busch dba RICHTER OIL Co.</u> Name _____ Seller Code _____ Street <u>Brohard</u> State <u>WV</u> Zip Code <u>26138</u> City _____ State _____ Zip Code _____ | | | |
| 5.0 Location of this well: (Complete (c) of (b).) (c) For onshore wells (35 letters maximum for field name.) | <u>Sheridan District</u> Field Name _____ State <u>WV</u> County <u>Hoan</u> State _____ | | | |
| (b) For OCS wells: | Area Name _____ Block Number _____ Date of Lease: _____ M/o. Day Yr. OCS Lease Number _____ | | | |
| (c) Name and identification number of this well: (35 letters and digits maximum.) | <u>E. McCray No. 2</u> | | | |
| (d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) | _____ | | | |
| 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) | <u>Pennzoil Company</u> | | | <u>014730</u> Buyer Code |
| (b) Date of the contract: | <u>8-1-80</u> M/o. Day Yr. | | | |
| (c) Estimated annual production: | <u>0.250</u> M/Mcf. | | | |
| | (c) Base Price (C/M/MSTU) | (b) Tax | (c) All Other Prices (Indicate (+) or (-).) | (d) Total of (a), (b) and (c) |
| 7.0 Contract price: (As of filing date. Complete to 3 decimal places.) | <u>0.250</u> | <u>0.024</u> | <u>0.000</u> | <u>0.274</u> |
| 8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.) | <u>2.855</u> | <u>0.245</u> | <u>0.000</u> | <u>3.100</u> |
| 9.0 Person responsible for this application: | <u>K.E. Busch</u> Designated Agent Name _____ Title _____ <u>[Signature]</u> Signature _____ <u>Feb. 25, 1981</u> <u>304-477-3527</u> Date Application is Completed Phone Number | | | |
| Agency Use Only | | | | |
| Date Received by Juris. Agency | <u>MAR 10 1981</u> | | | |
| Date Received by FERC | | | | |

PARTICIPANTS:

DATE: JUN 23 1981

BUYER-SELLER CODE

WELL OPERATOR: M. G. & K. E. Busch dba Richter Oil Co.

N A

FIRST PURCHASER: Pennzoil Company

014730

OTHER:

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
81-3-10-109-DIS-3290
 Use Above File Number on all Communications
 Relating to Determination of this Well

Qualifies F. H. Haggerty

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 1 Items not completed - Line No. 7.0 & 8.0
- 2. IV-1 Agent 1 K. E. Busch
- 3. IV-2 Well Permit 1
- 4. IV-6 Well Plat 1
- 5. IV-35 Well Record 1 Drilling 1 Deepening -
- 6. IV-36 Gas-Of1 Test: 1 Gas Only - Was Oil Produced? - Ratio -
- 7. IV-39 Annual Production 2 years
- 8. IV-40 90 day Production 92 Days off line: -
- 9. IV-48 Application for certification. Complete? 1
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - (56) - 57 - 58 Complete? 1 Affidavit Signed 1
- 18-28. Other: Survey - Logs - Geological Charts -
 Structure Map - 1: 4000 Map - Well Tabulations -
 Gas Analyses -
- (5) Date commenced: 8-1-35 Date completed 9-31-35 Deepened -
- (5) Production Depth: 1902
- (5) Production Formation: Mazon
- (5) Final Open Flow: N A
- (5) After Frac. R. P.: N A
- (6) Other Gas Test: -
- (7) Avg. Daily Gas from Annual Production: $\frac{304}{365} = 0.83 \text{ MCF}$ or $\frac{73}{365} = 0.2 \text{ BWL}$
- (8) Avg. Daily Gas from 90-day ending w/1-120 days $\frac{47}{92} = 1.0 \text{ MCF}$ or $\frac{11}{92} = 0.2 \text{ BWL}$
- (8) Line Pressure: 2-1/2 PSIG from Daily Sec.:
- (5) Oil Production: - From Completion Report -
- 10-17. Does lease inventory indicate enhanced recovery being done? NO
- 10-17. Is affidavit signed? 1 Notarized? 1
- Does official well record with the Department confirm the submitted information? YES
- Additional information - Does computer program confirm? -
- Was Determination Objected to - By Whom? -

Date Feb. 25 19 81

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

Operator's Well No. E. McCray No. 2

API Well No. 47 State 013 County 3290 Permit N/A

WELL CLASSIFICATION FORM

STRIPPER GAS WELL

NGPA Section 100

DESIGNATED AGENT K. E. Busch

ADDRESS Brohard,
W.V. 26138

WELL OPERATOR N. G. & K. E. Busch
ADDRESS dba RICHTER OIL Co.
Brohard, W.V. 26138

LOCATION: Elevation 995
Watershed Three Mile
DIST. Sherdian County Calhoun Quad. Harrisville

GAS PURCHASER PENNZOIL COMPANY
ADDRESS P. O. Drawer 1588
Parkersburg, W.V. 26101

Gas Purchase Contract No. 1772
Meter Chart Code 2052
Date of Contract 8-1-80

* * * * *

Provide a complete inventory of the lease and production equipment used for the well for the previous 24 months or, if less than 24 months, the period the well has been in production. Include a complete list of equipment or processes used in connection with recognized enhanced recovery techniques during completion or production. (Attach separate sheets, if necessary.)

67 Acre Lease

1627 Ft. 6" Casing

1800 FT. 2" Tubing

1800 Ft. 5/8" Rods

Old Std. Pumping Unit

100 Bbl. Tank

Pipeline and equipment necessary to connect to purchaser

List all records reasonably available to you which contain information relevant to a determination of eligibility (including production records, E&O Tax Records and royalty payment records) and indicate the location of such records:

Sales records

B&o tax records.

Royalty payment records

Operating and production expenses

Records beginning 1-1-80 are located at Brohard, W.V. 26138

Records before 1-1-80 are located at the office of Stanley D'Orazio
P. O. Box 147
Grantsville, W.V. 26147

Describe the search made of any records listed above:

Search of all available records located at Brohard, W.V. 26138

Search of all records made available to by Stanley D'Orazio, previous agent

Are you aware of any other information which would tend to be inconsistent with the information specified above? Yes No X. If yes, indicate the type and source of the information

AFFIDAVIT

I, K. E. Busch, having been first sworn according to law, state that I have caused to be made a diligent search of those records hereinbefore indicated in the manner herein described, that the information contained in this document is true and accurate and that on the basis of the records and examinations hereinbefore described, and to the best of my information, knowledge and belief, the well for which this certification is sought, qualifies as a stripper well.

K. E. Busch

STATE OF WEST VIRGINIA.

COUNTY OF Wirt TO WIT:

I, Carolyn Kay Bennett a Notary Public in and for the state and county aforesaid, do certify that K. E. Busch, whose name is signed to the writing above, bearing date the 19th day of Feb., 1981, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 19th day of Feb., 1981.

My term of office expires on the 18th day of July, 1982.

Carolyn Kay Bennett
Notary Public

[NOTARIAL SEAL]