

ch 2/2

Plot Card USD

3300

LATITUDE 39° 25'

5350' SOUTH

3300' WEST

80° 40'  
LONGITUDE 80° 42' 30"

5350

N. ALLEN  
T.M. 10-02  
36 AC.

A. DOTSON  
T.M. 10-03  
30 AC.

F. MOORE  
T.M. 10-05  
87.75 AC.

M. HAMILTON  
T.M. 10-04  
153.9 AC.

J. SMITH  
T.M. 10-06  
12.5 AC.

C. CARPENTER  
T.M. 10-09  
188.5 AC.

C. WRIGHT  
T.M. 11-22.1  
30.8 AC.

NORTH

S23W 82.5'  
S70E 167.5'

N52W 280.5'

N61E 165'

S73E 132'

S17 1/2 E 231'

SOUTH EDGE RD

S34W 930'

S7W 720'

S87E 561'

S21E 495'

N80E 314'

N27E 1320'

J454

23

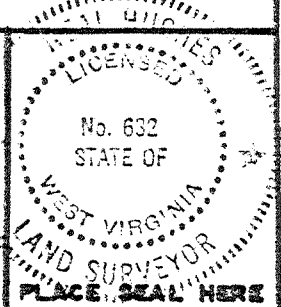
SYCAMORE ON CREEK BANK

MCLELLAN

CREEK

FILE NO. K930  
DRAWING NO. 1  
SCALE 1"=500'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION BM 747

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
(SIGNED) Neal Hughes  
R.P.E. \_\_\_\_\_ L.L.S. 632



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6  
(8-78)



DATE JAN. 27, 1981  
OPERATOR'S WELL NO J454  
API WELL NO. 47-017-2978  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
( IF "GAS", PRODUCTION \_\_\_\_\_ STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
LOCATION: ELEVATION 775' WATER SHED MCLELLAN COUNTY DODDRIDGE  
QUADRANGLE CENTER POINT 7.5' & 11' WC  
SURFACE OWNER FORREST MOORE ACRES 87.75  
OIL & GAS ROYALTY OWNER OCIE SMITH LEASE NO. K930 LIASE ACRES 87.75  
PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUS OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
PLUS AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUS \_\_\_\_\_  
TARGET FORMATION Alexander ESTIMATED DEPTH 5300  
WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H. L. Barnett  
ADDRESS Box 48 ADDRESS P.O. Box 48  
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

3-4 Swiger (97)

MAR 23 1981

[08-78,

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 x / Underground storage \_\_\_ / Deep \_\_\_ / Shallow x /)  
Elevation: 775 Watershed: McElroy Creek  
District: McElroy County: Doddridge Quadrangle: Center Point 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Roger Rolston  
Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill x / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_  
Other physical change in well (specify): \_\_\_\_\_  
**RECEIVED**  
APR 30 1981

PERMIT ISSUED ON 2/20, 19 81. OIL & GAS DIVISION  
APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_\_  
Name Stephen Casey  
Address Rt. # 2, Box 232-D  
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth \_\_\_\_\_ feet  
Depth of completed well, \_\_\_\_\_ feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 107 feet; salt, 0 feet.  
Coal seam depths: 285-87, 532-35 Is coal being mined in the area? No  
Work was commenced 3/11, 19 81, and completed 3/19, 19 81

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      | Left in well |                                      |               |
| Conductor              | 11 3/4         | H-40  | 42            | x   |      | 0                 | 0            | 0 sks.                               | Winds         |
| Fresh water            | 8 5/8          | ERW   | 23            | x   |      | 1482.65           | 1482.65      | 340 sks.                             |               |
| al                     | 8 5/8          | ERW   | 23            | x   |      | 1482.65           | 1482.65      | 340 sks.                             | Sizes         |
| Intermediate           |                |       |               |     |      |                   |              |                                      |               |
| Production             | 4 1/2          | J-55  | 10.5          | x   |      | 2798.14           | 2798.14      | 220 sks.                             | Depth set     |
| tings                  |                |       |               |     |      |                   |              |                                      |               |
| ers                    |                |       |               |     |      |                   |              |                                      | Perforations: |
|                        |                |       |               |     |      |                   |              |                                      | Top Bottom    |
|                        |                |       |               |     |      |                   |              |                                      | 2190 2410     |
|                        |                |       |               |     |      |                   |              |                                      | 2625 2646     |

WELL FLOW DATA

Producing formation Gordon Pay zone depth 2625-2646 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Combined Final open flow, 220 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 850 psig (surface measurement) after \_\_\_\_\_ hours shut in.  
[If applicable due to multiple completion--]  
Second producing formation Berea & Weir Pay zone depth 2190-2410 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.

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

Gordon: Perforations: 2625-2646 (13 holes)  
Fracturing: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 500 Bbls. fluid

Berea & Weir: Perforations: 2190-2410 (14 holes)  
Fracturing: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 500 gal. Acid:  
500 Bbls. fluid.

ELL 107

| FORMATION                 | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks<br>Including indication of all gases and salt water, coal, oil and gas |
|---------------------------|-------|--------------|----------|-------------|--|
| Clay                      |       |              | 0        | 5           |  |
| Shale & Red rock          |       |              | 5        | 20          | Oil odor @ 1900  |
| Sand, shale & red rock    |       |              | 20       | 49          |  |
| Sand & shale              |       |              | 49       | 87          | Gas ck @ 2071 3/10-1/2" w/water  |
| White sand                |       |              | 87       | 130         | 3,289 cu.ft.   |
| Sand, shale & Red rock    |       |              | 130      | 285         | Gas ck @ 2712 60/10-1/2" w/water   |
| Coal                      |       |              | 285      | 287         | 14,590 cu.ft.  |
| Sand & shale              |       |              | 287      | 308         | Gas ck @ 2449 12/10-1/2" w/water   |
| Sand, shale & red rock    |       |              | 308      | 360         | 6,321 cu.ft.   |
| Sand & shale              |       |              | 360      | 440         | Gas ck @ 3803 8/10-1/2" w/water  |
| Sand, shale & red rock    |       |              | 440      | 499         | 5,324 cu.ft.   |
| Red rock, sand & shale    |       |              | 499      | 532         | Gas ck @ 4282 6/10-1/2" w/water  |
| Coal                      |       |              | 532      | 535         | 4,611 cu.ft.   |
| Sand & shale              |       |              | 535      | 570         | Gas ck @ 4635 9/10-1/2" w/water  |
| Sand, shale & red rock    |       |              | 570      | 690         | 5,650 cu.ft.   |
| Sand, shale & red rock    |       |              | 690      | 1081        | Gas ck @ 4957 6/10-1/2" w/water  |
| Sand & shale              |       |              | 1081     | 1276        | 4,611 cu.ft.   |
| Sand & shale              |       |              | 1276     | 1429        | Gas ck @ 5281 7/10-1/2" w/water  |
| Sand & shale              |       |              | 1429     | 1687        | 4,981 cu.ft.   |
| Red rock, shale & lime    |       |              | 1687     | 1758        | Gas ck @ TD 6/10-1/2" w/water  |
| Little Lime & sand        |       |              | 1758     | 1813        | 4,611 cu.ft.   |
| Big Lime                  |       |              | 1813     | 1890        |  |
| Injun                     |       |              | 1890     | 2190        |  |
| Berea & Weir              |       |              | 2190     | 2410        |  |
| Sand & shale              |       |              | 2410     | 2625        |  |
| Gordon                    |       |              | 2625     | 2646        |  |
| Sand & shale              |       |              | 2646     | 4910        |  |
| Brown sand                |       |              | 4910     | 4915        |  |
| Sand & shale              |       |              | 4915     | 5145        |  |
| Lt. Brown sand <i>BEM</i> |       |              | 5145     | 5170        |  |
| Sand & shale              |       |              | 5170     | 5235        |  |
| Lt. Brown sand            |       |              | 5235     | 5245        |  |
| Sand & shale              |       |              | 5245     | 5507TD      |  |

5507  
5170  

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337ft.  
exploratory

Alex. (Attach separate sheets as complete as necessary.)

J & J Enterprises, Inc.

Well Operator  
By: *[Signature]*  
Peter Battles  
Geologist

NOTE: Regulation 2.32(f) 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."

(Obverse)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-454  
API Well No. 47 - 0172978  
State County Perm

WELL TYPE: Oil \_\_\_ / Gas x /  
(If "Gas", Production x / Underground storage \_\_\_ / Deep \_\_\_ / Shallow x /)  
LOCATION: Elevation: 775 Watershed: McElroy Creek  
District: McElroy County: Doddridge Quadrangle: Center Point 7.5'

WELL OPERATOR J & J Enterprises, Inc.  
Address P.O. Box 48  
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett  
Address P.O. Box 48  
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Ocie Smith et al/Glenn Smith, Agent  
Address Rt. 50, West  
Salem, WV 26426

COAL OPERATOR None  
Address

SURFACE OWNER Forrest Moore  
Address Star Route  
West Union, WV 26456  
Acreage 87.75

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Ocie Smith et al /Glenn Smith Agent  
Address Rt. 50, West  
Salem, WV 26426

FIELD SALE (IF MADE) TO:  
Name Unknown  
Address

Name  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Steve Casey  
Address Rt. # 2, Box 232-D  
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address  
RECEIVED  
FEB 20 1981

OIL & 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 x / dated 7/3, 1979, to the undersigned well operator from Key Oil Co.  
[If said deed, lease, or other contract has been recorded:]

Recorded on 8/15, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas lease Book 110 at page 181. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate x /  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

--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  
615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311

J & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
Geologist

