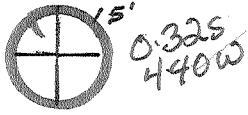
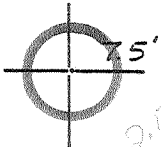


ch 2/16

Plot Card CSD



LATITUDE 39° 15'  
1700' SOUTH  
11,850' WEST



G. BEE  
T.M. 5-03  
49 AC.

D. ATKINSON  
T.M. 5-04  
52.3 AC.

39 14 45  
80 39 55

LATITUDE 80° 37' 30"  
80° 35'

E. ROSS  
T.M. 5-06  
44 AC.

R. SCHOOLS  
T.M. 5-05  
78.3 AC.

C. FARR  
T.M. 3-33  
(GREENBRIER)  
66.5 AC.

T.M. 3-33.1  
20.4 AC.

E. ROSS  
T.M. 5-6.1  
1 AC

J.S. ROSS  
T.M. 5-08  
46.9 AC.

NORTH

WOLF PEN RUN

W. SIDE ROAD

1465

N86E 1130'

N73E 1772'

S40W 780'

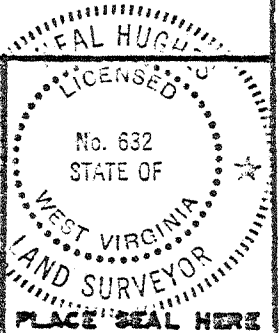
N40 1/2 E 228'

HICKORY

T.M. 3-33.1  
20.4 AC.

FILE NO. J1046  
DRAWING NO. 1  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION BM 844

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



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



DATE JAN 27, 1981  
OPERATOR'S WELL NO. 1465  
API WELL NO. 47-017-2976  
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 1142' WATER SHED WOLF PEN RUN  
DISTRICT NEW MILTON COUNTY DODDRIDGE  
QUADRANGLE NEW MILTON 75' 4D 15' NC  
SURFACE OWNER EARL ROSS ACRES 44 AC  
OIL & GAS ROYALTY OWNER RAYMOND PARKS LEASE ACRES 44  
LEASE NO. J1046  
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 5450  
WELL OPERATOR J.J. Enterprises DESIGNATED AGENT H.L. Barrett  
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48  
Buckhannon WV 26201 Buckhannon WV 26201

6-6 NEW MILTON N.

144 MAR 23 1981

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

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

RECEIVED  
 DEC 3 1981

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
 (If "Gas", Production  / Underground storage  / Deep  / Shallow   
 LOCATION: Elevation: 1142 Watershed: Wolfpen Run  
 District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT James R. Willett  
 Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 10/23, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:  
 Name Stephen Casey  
 Address Rt. # 2, Box 232-D  
Jane Lew, 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth 5412-5515 feet  
 Depth of completed well, 5683 feet Rotary  / Cable Tools   
 Water strata depth: Fresh, 155 feet; salt, 1680-50 feet.  
 Coal seam depths: 270-75 Is coal being mined in the area? No  
 Work was commenced 10/28, 19 81, and completed 11/3, 19 81

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		
Conductor	11 3/4	H-40	42	x		39	39	0 sks. Kinds
Fresh water	8 5/8	ERW	23	x		1223.10	1223.10	295 sks.
Coal	8 5/8	ERW	23	x		1223.10	1223.10	295 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		5567.25	5567.25	200 sks. Depths set
Tubing								
Liners								Perforations:
								Top Bottom
								4919 5066
								5174 5335
								5478 5492

OPEN FLOW DATA  
 Producing formation Alexander Pay zone depth 5478-92 feet  
 Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Combined Final open flow, 492 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, 4 hours  
 Static rock pressure, 1625 psig (surface measurement) after 96 hours shut in  
 [If applicable due to multiple completion--] 4919-5066  
5174-5335  
 Second producing formation Benson & Riley 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

Bottom Hole Pressure Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
 Pf=PweXGLS  

$$=60 + (0.0075 \times 5567) + 459.7 = 561 \quad X=53.34 \times t \quad X=53.34 \times 561 = 29948 = 0.0000334$$

$$f=1625 \quad 2.72 \quad 0.0000334 \quad 0.690 \quad 5206 \quad 0.9 = 1625 \times 2.72 \quad 0.108 = 1625 \times 1.114$$

DEC 16 1981

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

Alexander: Perforations: 5478-5492 (15 holes)  
Fracturing: 150 sks. 80/100 sand: 300 sks. 20/40 sand: 500 Bbls. fluid.

Benson: Perforations: 5174- 5332 (7 holes) 5177-5335 (5 holes)  
Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 500 gal. Acid:500 Bbls.fluid.

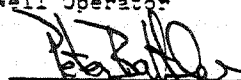
Riley: Perforations: 4919-5066 (14 holes)  
Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 500 gal. Acid: 500 Bbls.fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Fill & shale			0	15	
Red rock, sand & shale			15	80	
Sand & shale			80	118	½" stream @ 155'
Red rock, sand & shale			118	270	
Coal			270	275	Gas ck @ 2300 50/10-½" w/water 13,312 cu.ft.
Sand & shale			275	290	
Sand & shale			290	355	
Sand, shale & red rock			355	500	Gas ck @ 5278 30/10-½" w/water 10,304 cu.ft.
Sand & red rock			500	555	
Shale & sand			555	640	
Red rock, sand & shale			640	800	Gas ck @ 5527 35/10 35/10-½" w/water 11,117 cu.ft.
Shale			800	850	
Sand & shale			850	960	
White sand			960	995	
Red rock			995	1035	
Red rock & gray sand			1035	1095	
Sand, shale & red rock			1095	1235	
Sand & shale			1235	1600	
2nd salt sand			1600	1650	
Sand & shale			1650	1680	
3rd salt sand			1680	1765	
Gray shale			1765	1810	
Maxton sand			1810	1865	
Sand & shale			1865	1935	
Brown shale			1935	1960	
Dark gray shale			1960	2160	
Big Lime			2160	2210	
Big Injun			2210	2295	
Sand & shale			2295	4919	
Riley			4919	5066	
Sand & shale			5066	5160	
Benson			5160	5332	
Sand & shale			5332	5412	
Alexander			5412	5515	
Sand & shale			5515	5683	

(Attach separate sheets to complete as necessary!)

J & J Enterprises, Inc.

Well Operator  
By   
Peter Battles  
Geologist

NOTE: Regulation 2.02(d) 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."

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas x /  
(If "Gas", Production x / Underground storage \_\_\_ / Deep \_\_\_ / Shallow x /)  
Elevation: 1142 Watershed: Wolfpen Run  
District: New Milton County: Doddridge Quadrangle: New Milton 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

WELL & GAS LEASE OWNER Raymond Parks  
Address Box 188, Route # 1  
West Union, WV 26456

COAL OPERATOR None  
Address \_\_\_\_\_

ACREAGE 44  
SURFACE OWNER Earl Boss  
Address Route # 1, Box 7  
New Milton, WV 26411  
ACREAGE 44

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Willis G. Tetrick, Jr.  
Address Box 267  
Clarksburg, WV 26301

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

WELL & 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 \_\_\_\_\_  
Address \_\_\_\_\_

**RECEIVED**

OCT 23 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease x / other contract \_\_\_ / dated 12-2, 1980, to the undersigned well operator from Key Oil Co. [if said deed, lease, or other contract has been recorded:]

Recorded on 12-11, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in oil & gas lease Book 118 at page 417. 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 decision they wish to make or are required to make by Code § 22-5-3 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 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 PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
15 WASHINGTON STREET EAST

J & J Enterprises, Inc.  
Well Operator

BLANKET BOND

PROPOSED WORK ORDER

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

DRIILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Company  
Address Box 48  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5450 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 150 feet; salt, 0 feet.  
Approximate coal seam depths: 500 IS coal being mined in the area: Yes      No X

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		30	30	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1000	1000	275 sks.	
Oil	8 5/8	ERW	23	x		1000	1000	275 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5400	5400	450 sks.	Depths per
Logging									
Packers									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, unaccompanied 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 § 22-4-2a 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 part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code; the location is hereby approved for drilling renewed. This permit shall expire if operations have not commenced by 6-26-82

Fred J. Biedt  
Deputy Director - Oil & Gas Division

The following waiver must be signed by the coal operator and by any coal owner or coal lessee who 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 this 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: February 11, 1981

Consolidation Coal Company  
By Donald D. Boin  
As Senior Mining Engineer

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

API Well No. 47-017-2976  
State County Perm

WELL TYPE: Oil \_\_\_ / Gas x /  
(If "Gas", Production x / Underground storage \_\_\_ / Deep \_\_\_ / Shallow x /)  
LOCATION: Elevation: 1142 Watershed: Wolfpen Run  
District: New Milton County: Doddridge Quadrangle: New Milton 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 Raymond Parks  
Address Box 188, Route # 1  
West Union, WV 26456  
Acreage 44

COAL OPERATOR None  
Address: \_\_\_\_\_

SURFACE OWNER Earl Boss  
Address Route # 1, Box 7  
New Milton, WV 26411  
Acreage 44

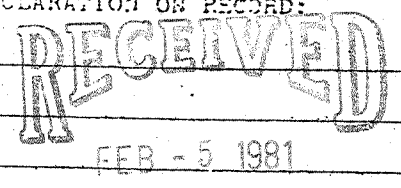
COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Willis G. Tetrick, Jr.  
Address Box 267  
Clarksburg, WV 26301

FIELD SALE (IF MADE) TO:  
Name \_\_\_\_\_  
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 \_\_\_\_\_  
Address \_\_\_\_\_



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 x / other contract \_\_\_ / dated 12-2, 1980, to the undersigned well operator from Key Oil Co.

[If said deed, lease, or other contract has been recorded:]  
Recorded on 12-11, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in oil & gas lease Book 118 at page 417. 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 obligation they wish to make or are required to make by Code 5 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  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25301

BLANKET BOND

J & J Enterprises, Inc.  
Well Operator

Peter Battles  
Peter Battles  
Geologist

