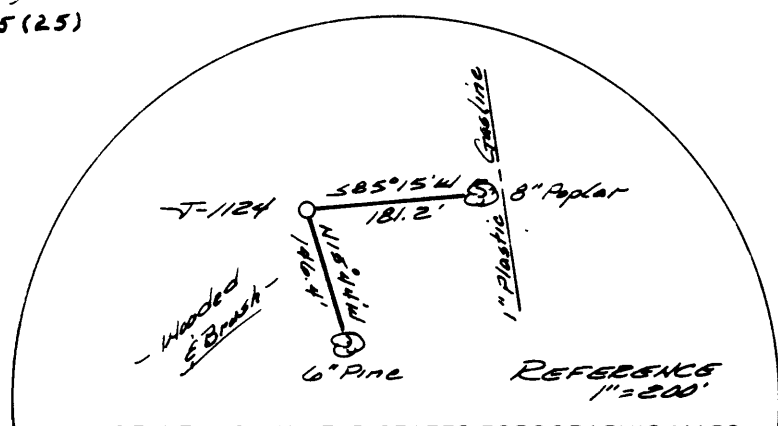
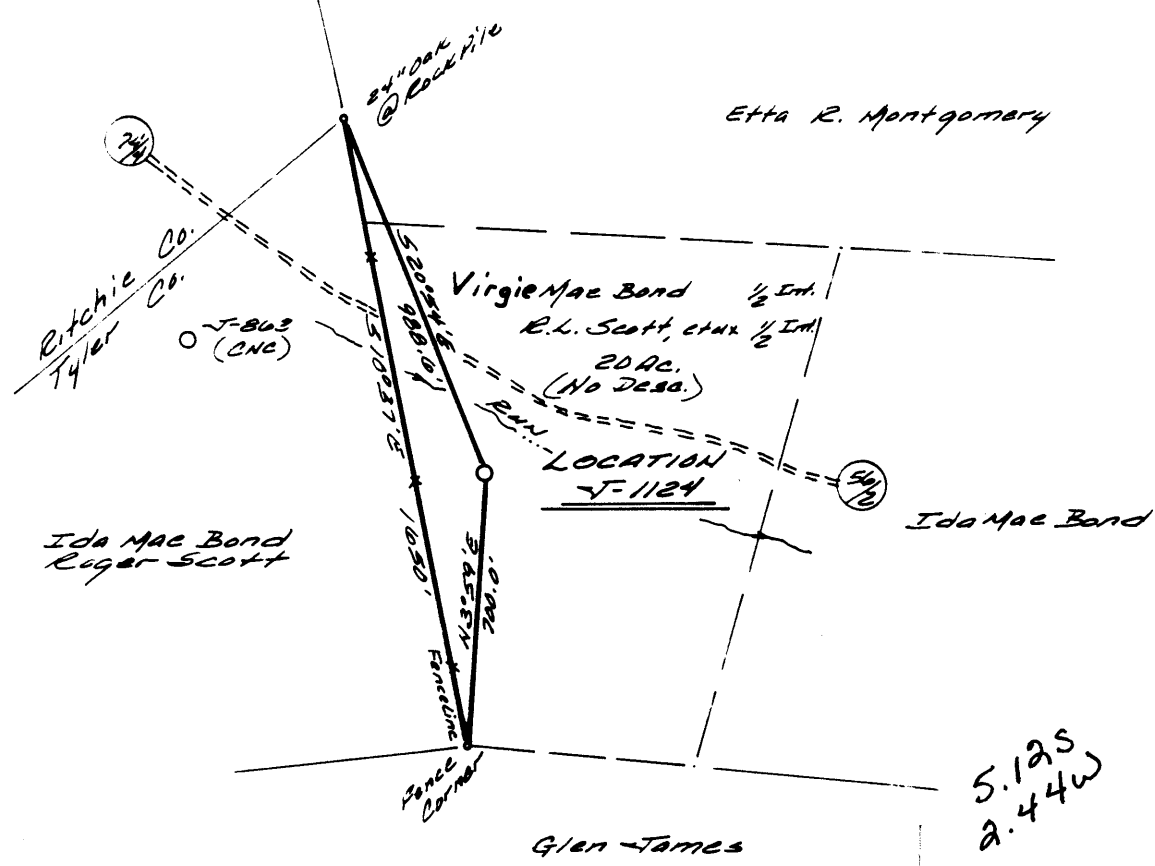


CODE _____ CARD _____ PLOT _____

LATITUDE $39^{\circ}22'30''$
 $39^{\circ}25'$

1,050'

LONGITUDE $82^{\circ}50'8''$
 $82^{\circ}58'11''$



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 346.01
 DRAWING NO. 84-122
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Well J-748
Elev. = 948' East of Location.

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) Cyril J. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 14 November, 19 84
 OPERATOR'S WELL NO. J-1124
 API WELL NO. _____

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 1088' WATER SHED Short Run to Arnolds Creek
 DISTRICT Centerville COUNTY 133 Tyler
 QUADRANGLE 539 Pennsboro West Union 15' Cs

SURFACE OWNER Virgie Mae Bond, Roger L. Scott and Donna J. Scott ACREAGE 80
 OIL & GAS ROYALTY OWNER VM Bond, R.L. Scott & D.J. Scott LEASE ACREAGE 50

LEASE NO. JJ-1340
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Devonian Shale ESTIMATED DEPTH 5950'
 WELL OPERATOR J-E-T Enterprises, Inc. DESIGNATED AGENT Richard Reddecliff
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
427 Buckhannon, WV 26201 Buckhannon, WV 26201

JAN 14 1985

FORM IV-6 (8-78)

COUNTY NAME PERMIT



Date October 29, 1985
 Operator's Well No. J-1124
 Farm Virgie Mae Bond
 API No. 47 - 095 - 1095

RECEIVED
 OCT 30 1985

State of West Virginia
 Department of Mines
 Oil and Gas Division

DIVISION OF OIL & GAS
DEPT. OF ENERGY

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 /)

LOCATION: Elevation: 1088 Watershed Short Run to Arnolds Creek
 District: Centerville County Tyler Quadrangle Pennsboro

COMPANY J&J Enterprises, Inc.
 ADDRESS P.O. Box 48, Buckhannon, WV 26201
 DESIGNATED AGENT Richard Reddecliff
 ADDRESS P.O. Box 48, Buckhannon, WV 26201
 SURFACE OWNER Mae Bond / Roger Scott
 ADDRESS Rt. 2 / Rt. # 2, Box 213
Pennsboro, WV 26415 Pennsboro, WV 26415
 MINERAL RIGHTS OWNER Same as surface
 ADDRESS
 OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS Gen. Del. Middlebourne, WV
26419
 PERMIT ISSUED 1/10/85
 DRILLING COMMENCED 10/1/85
 DRILLING COMPLETED 10/7/85
 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"	205.65	205.65	110
9 5/8			
8 5/8	1614.40	1614.40	125 sks.
7			
5 1/2			
4 1/2	5071.05	5071.05	215 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth feet
 Depth of completed well 5508 feet Rotary x / Cable Tools
 Water strata depth: Fresh 50 feet; Salt 0 feet
 Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4954-59 feet
 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
 Combined Final open flow 1,078 Mcf/d Final open flow Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 1700 psig (surface measurement) after 96 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Riley Pay zone depth 4560-90 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

NOV 12 1985
 (Continue on reverse side)

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

Benson: Perforations: 4954-59 (8 holes)

Fracturing: 450 sks. 20/40 sand: 513 Bbls. fluid.

Riley: Perforations: 4560-63 (4 holes) 4570-71 (2 holes) 4579-80 (4 holes) 4589-90(4holes)

Fracturing: 380 sks. 20/40 sand: 500 gal. acid: 503 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe^{XGLS}

$$t=60 + (0.0075 \times 5071) + 459.7=558 \quad X=\frac{1}{53.35} \times 558 = \frac{1}{29769} \quad Pf=1700 \times 2.72^{(0.000034)(0.8)}$$

$$(4760)(0.9) = 1700 \times 2.72^{0.1} = 1700 \times 1.1$$

Pf= 1870 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
Sandy Shale			0	50	
Sand, sandy shale & red rock			50	185	½" stream @ 50'
Sand, sandy shale & red rock			185	265	
Sand & sandy shale			265	440	½" stream @ 675'
Sandy shale & sand			440	745	
Sandy shale & red rock			745	925	Gas ck @ 2136 No show
Sandy shale & sand			925	1456	
Sand & sandy shale			1456	1735	Gas ck @ 2415 No show
Sand & sandy shale			1735	1895	
Little lime			1895	1930	Gas ck @ 3467 No show
Shale			1930	1940	
Big Lime			1940	1995	Gas ck @ 4611 No show
Sand & sandy shale			1995	2290	
Sand & sandy shale			2290	3450	Gas ck @ 4952 4/10-2" w/water
Sandy shale & sand			3450	4560	84,000 cu.ft.
Riley			4560	4590	
Sand & sandy shale			4590	4954	Gas ck @ 5294 6/10-2" w/water
Benson			4954	4959	103,000 cu.ft.
Sandy shale & sand			4959	5508	
				T.D..	Gas ck @ collars 6/10-2" w/water
					103,000 cu.ft.

Top Dev @ 2550'

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:

Date: 10/29/85

Robert Dahlin-Geologist

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 soil, encountered in the drilling of a well."



1) Date: 14 November, 19 84
 2) Operator's Well No. J-1124
 3) API Well No. 47 - 095 - 1095
 State County Permit

RECEIVED

JAN - 3 1985

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

OIL & GAS DIV.
 DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 1088' Watershed: Short Run to Arnolds Creek
 District: Centerville County: Tyler Quadrangle: Pennsboro
- 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48 Address PO Box 48
Buckhannon, WV 26201 24150 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name SW Jack Drilling Co.
 Address General Delivery Address PO Box 48
Middlebourne, WV 26419 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate XX /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 5950 feet
- 13) Approximate strata depths: Fresh, 3340' feet; salt, feet.
- 14) Approximate coal seam depths: Is coal being mined in the area? Yes / No XX /
- 15) 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:	11 3/4	H-40	42	X		370 30	370 0	0 sks	to surface
Fresh water	8 5/8	ERW	23	X					
Coal	8 5/8	ERW	23	X		1600'	1600'		to surface
Intermediate									Sizes
Production	4 1/2	J-55	10.5	X		5900	5900	350 sks	to surface
Tubing									Depos
Liners									Perforations:
									Top Bottom

Handwritten notes: "by rule 15.05" and "by rule 15.01" are present in the table.

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1095 Date January 10, 1985

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work.** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires January 10, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
82	MW	MW	MW	1887

Margaret J. Nasse
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File