



PLAN NO. 81-894-D  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION EL. 1089 AT INT. OF 20/2 and 20/49, J'SE. OF WELL SITE.

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 John Robert Baker  
 RISE 5566 FLS. \_\_\_\_\_

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE APRIL 7, 1982  
 OPERATOR'S WELL NO. J-656  
 AP WELL NO. 47-033-2794  
 STATE COUNTY PERMIT

WELLS FOR GAS  OIL  WASTE DISPOSAL   
 DEEP  SHALLOW   
 AT 1372 WATER BED LITTLE ELK CREEK  
 TOWNSHIP SARDIS COUNTY HARRISON  
 COUNTY CLARKSBURG 15' NW  
 OWNER MINNIE M FERREE, et al ACREAGE 85  
 OPERATOR EDNA D. BRAMER LEASE ACREAGE 85  
 LESSEES E-11

CONVERT TO DEEPER  REPAIR  FRACTURE OR  
 REPAIR  REPAIR  INFORMATION  REGRAB NEW  
 INFORMATION  OTHER PHYSICAL CHANGE IN WELL SPECIFY: \_\_\_\_\_

ESTIMATED DEPTH 2950  
 OPERATOR JJ ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT  
 ADDRESS BOX 48 ADDRESS BOX 48  
BUCKHANNON W. VA. 26201 BUCKHANNON W. VA. 26201

MAY 17 1982

**RECEIVED**

JUL 26 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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

Date: July 20, 1982

Operator's Well No. J-656  
API Well No. 47 - 033 - 2794  
State County Permit

WELL OPERATOR'S REPORT  
JP

DRILLING, FRACTURING AND/OR STIMULATIONS, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X)  
LOCATION: Elevation: 1372 Watershed: Little Elk Creek  
District: Sardis County: Harrison Quadrangle: Wallace

WELL OPERATOR J&I Enterprises, Inc. DESIGNATED AGENT H.L. Barnett  
Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 4/23, 1982 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR 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: 5th Sand Depth 3094-3112 feet  
Depth of completed well, 3257 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, 190 feet; salt, 0 feet.  
Coal seam depths: 432-38, 579-84 Is coal being mined in the area? No  
Work was commenced 6/15, 1982, and completed 6/19, 1982

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		25	25	0 sks.	Blinds
Fresh water	8 5/8	ERW	23	X		1404.55	1404.55	340 sks.	
Coal	8 5/8	ERW	23	X		1404.55	1404.55	340 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		3178.05	3178.05	115 sks.	Depos set
Tubing									
Liners									Perforations:
									Top Bottom
									2864 2866
									2938 2940
									3060 3062
									3094 3112

OPEN FLOW DATA

Producing formation 5th Sand Pay zone depth 3094-3112 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Combined Final open flow, 198 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 6 hours  
Static rock pressure, 600 psig (surface measurement) after 96 hours shut in  
[If applicable due to multiple completion--]  
2864 2866-50 Ft.  
2938 2940-30 Ft.  
Second producing formation 4th, 30ft. & 50ft. sand Pay zone depth 3060 3062-4th 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  
 $t=60+(0.0075 \times 3178)+459.7=544$   $X=\frac{1}{53.35 \times 544} = \frac{1}{28998} = 0.0000345$   $Pf=600 \times 2.72 (0.0000345) (0.733)$   
 $(3025) (0.9) = 600 \times 2.72^{0.069} = 600 \times 1.07 =$   
AUG 2 1982

[08-78]

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

4th & 5th Sand: Perforations: 3060-62 (3 holes)  
3094-3112 6 holes)

Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 500 Bbls. fluid.

30' & 50' Sand: Perforations: 2938-40 (3 holes)  
2864-66 (3 holes)

Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 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
Sandy shale & red rock			0	432	
Coal			432	438	
Sand & shale			438	579	1/2" stream @ 190'
Coal			579	584	
White sand			584	627	Oil odor @ 1350'
Lime			627	631	
Shale, red rock & lime			631	850	Damp @ 1960'
Shale & sand			850	1269	
Red rock, sand & shale			1269	1335	
Sand & shale			1335	1662	
Shale & sand			1662	1925	
Sand & shale			1925	1934	
White sand			1934	1970	
Sand & shale			1970	2143	
White sand			2143	2163	
Lime & shale			2163	2210	
Big Lime			2210	2500	
Sand & shale			2500	2864	
50ft. sand			2864	2866	
Sand & shale			2866	2938	
30ft. sand			2938	2940	
Sand & shale			2940	3060	
4th. sand			3060	3062	
Sand & shale			3062	3094	
<u>5th sand</u>			3094	3112	
Sand			3112	3127	
Sand & shale			3127	<u>3258</u>	
				TD	

(Attach separate sheets as complete as necessary.)

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

NOTE: Regulation 2.0216 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."

RECEIVED

Date: April 22, 1982, 19

[08-78]

APR 23 1982

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-656

API Well No. 47-033-2794 State County Per-

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

LOCATION: Elevation: 1372 Watershed: Little Elk Creek District: Sardis County: Harrison Quadrangle: Wallace

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

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

OIL & GAS ROYALTY OWNER Edna D. Bramer Address Rt. # k, Box 136 Wallace, WV 26448

COAL OPERATOR Address

SURFACE OWNER Minnie M. Ferree and Jeffrey Ferree Address 1214 Cherry St., Rt. # 5 Clarksburg, WV 26301

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Consolidation Coal Company Address P.O. Box 1314 Morgantown, WV 26505

FIELD SALE (IF MADE) TO: Name Unknown Address

Name Address

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

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

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 9/1, 19 80, to the undersigned well operator from Minnie M. Ferree & Jeffrey W. Ferree [If said deed, lease, or other contract has been recorded:]

Recorded on 10/3, 19 80, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas leasebook 1096 at page 397. 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 § 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 plan 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 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

J&J Enterprises, Inc. Well Operator

By Peter Battles Geologist

[08-78]

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 Company

Address P.O. Box 48

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, 5th Sand

Estimated depth of completed well, 2950 feet Rotary  Cable tools

Approximate water strata depths: Fresh, 120 feet; salt, Noen feet.

Approximate coal seam depths: 20, 170, 490 Is coal being mined in the area? Yes  No

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		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		800	800	To surf.	
Coal	8 5/8	ERW	23	x		800	800	To surf.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		2900	2900	175 sks.	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 § 22-4-2a from the owner of any water well or dwelling 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,**

**ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY**

**APPROVED FOR** Drilling **THIS PERMIT SHALL EXPIRE**

**IF OPERATIONS HAVE NOT COMMENCED BY** 1-8-83

BY [Signature]  
The following waiver must be completed 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 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