



FILE NO. D.E. 2-21  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION INTERSECTION RT. 14 AND 14/1 4500' S. OF LOCATION  
 ELEVATION 1019'

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) *Daniel L. Wheeler*  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE JULY 2<sup>nd</sup>, 19 80  
 OPERATOR'S WELL NO. J-324  
 API WELL NO. 47-033-2439  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1200' WATER SHED LITTLE ROCKCAMP RUN  
 DISTRICT SARDIS COUNTY HARRISON  
 QUADRANGLE WALLACE 7.5' CLARKSBURG 15' WC  
 SURFACE OWNER ORLANDO AND ISABEL D'CARLO ACREAGE 45 Ac.  
 OIL & GAS ROYALTY OWNER ROY B. SMITH LEASE ACREAGE 45 Ac.  
 LEASE NO. S-581  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) # 2 STK  
 REVISED LOCATION  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR J. AND J. ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
BUCKHANNON WEST VIRGINIA 26201 BUCKHANNON WEST VIRGINIA 26201

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

Date January 22, 1981

FORM IV-35  
(Obverse)

Operator's  
Well No. J-324

[08-78]

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

API Well No. 47-033-2439  
State County Permit

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

LOCATION: Elevation: 1200 Watershed: Little Rock Camp Run  
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J & J 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  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate   
Plug off old formation  / Perforate new formation  /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON 7/9, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett  
Address 321 Beech St.  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth \_\_\_\_\_ feet

Depth of completed well, 5170 feet Rotary  / Cable Tools \_\_\_\_\_

Water strata depth: Fresh, 23,50 feet; salt, None feet.

Coal seam depths: 60-63, 165-69, 315-18 Is coal being mined in the area? No

Work was commenced 12/10, 1980, and completed 12-15, 1980

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		29	29	0 sks.	Minds
Fresh water	8 5/8	ERW	23	x		1825	1825	440 sks.	
Coal	8 5/8	ERW	23	x		1825	1825	440 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5076.30	5076.30	365 sks.	Deaths set
Tubing									
Liners									Perforations:
									Top Bottom
									3354 3365
									3511 3867
									4983 4987

RECEIVED

JAN 23 1981

OIL & GAS DIVISION

DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4983-87 feet

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d

Combined Final open flow, 304 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1450 psig (surface measurement) after 96 hours shut in.

[If applicable due to multiple completion--]

3511-3867

Second producing formation Balltown & Speechley Pay zone depth 3354-3536 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.

FEB 13 1981

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

Benson: Perforations: 4983-87 (13 holes)

Fracturing: 140 sks. 80/100 sand: 280 sks. 20/40 sand: 400 Bbls. fluid.

Balltown: Perforations: 3511-3867 (18 holes)

Fracturing: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 700 gal. Acid:  
650 Bbls. fluid.

Speechley: Perforations: 3354-3365 (14 holes)

Fracturing: 500 gal. Acid: 140 sks. 80/100 sand: 280 sks. 20/40 sand:  
400 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
Conductor			0	29	
Sandy shale			29	60	1/2" stream @ 23'
Coal			60	63	
Sandy shale			63	90	1/2" stream @ 50'
Sand			90	165	
Coal			165	169	Gas ck @ 2720 6/10-2" w/water 103,000
Sandy shale			169	315	
Coal			315	318	Gas ck @ 3495 4/10-2" w/water 84,000
Sandy shale & sand			318	450	
Sandy shale			450	580	
Sandy shale & sand			580	1110	Gas ck @ 3990 4/10-2" w/water 84,000
Shale, red rock & sand			1110	1360	
Sandy shale			1360	1365	
Coal			1365	1540	Gas ck 10 jts. down 2/10-2" w/ water
Sandy shale & sand			1540	1755	
Sandy shale & sand			1755	1810	60,000
Sandy shale, sand & red rock			1810	1890	
Big Lime			1890	2005	
Sand			2005	2070	
Sandy shale & sand			2070	2815	
Sandy shale			2815	3350	
Speechley			3350	3365	
Sandy shale			3365	3390	
Sandy shale			3390	3511	
Balltown			3511	3867	
Sandy shale			3867	4025	
Sand & sandy shale			4025	4975	
<u>Benson</u>			4975	4990	
Sandy shale			4990	5170 TD	

(Attach separate sheets to complete as necessary)

I & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
Peter Battles  
Its 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 coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-324  
API Well No. 47 - 033 - 2439  
State County Perm

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
LOCATION: Elevation: 1200 Watershed: Little Rock Camp Run  
District: Sardis County: Harrison Quadrangle: Wallace 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 Roy B. Smith  
Address Rt. 1  
Wallace WV 26448

COAL OPERATOR None  
Address

ACREAGE 45  
SURFACE OWNER Orland & Isabel DiCarlo  
Address Rt. 4 Box 115H  
Clarksburg W.V. 26301  
ACREAGE 45

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Willis Guy Tetrick  
Address P.O. Box 267  
Clarksburg W.V. 26301

FIELD SALE (IF MADE) TO:  
Name  
Address

Name  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech St.  
Clarksburg W.V. 26301

COAL LESSEE WITH DECLARATION ON RECORD:  
Name Pittston Coal Co.  
Address Wellington Heights  
Philippi, WV 26416

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 May 6, 1980, to the undersigned well operator from Roy B. Smith.

[If said deed, lease, or other contract has been recorded:]  
Recorded on May 8, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Deed Book 1092 at page 264. 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 objections they wish to make 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.

BLANKET BOND

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1616 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

JUL 9 1980

OIL & GAS DIVISION  
DEPT. OF MINES

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

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 Co. Address P.O. Box 48 Buckhannon W.V. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 80 feet; salt, 1200 feet.

Approximate coal seam depths: 125 Is coal being mined in the area: Yes / No X

GRADING AND TUBING PROGRAM

Table with columns: GRADING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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 § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELL SITE. A separate Form IV-2 shall 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 not shown on the Form IV-2 filed in connection therewith.

of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-24-81

Deputy Director - Oil & Gas Division

The following conditions must be complied with 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.

By Its