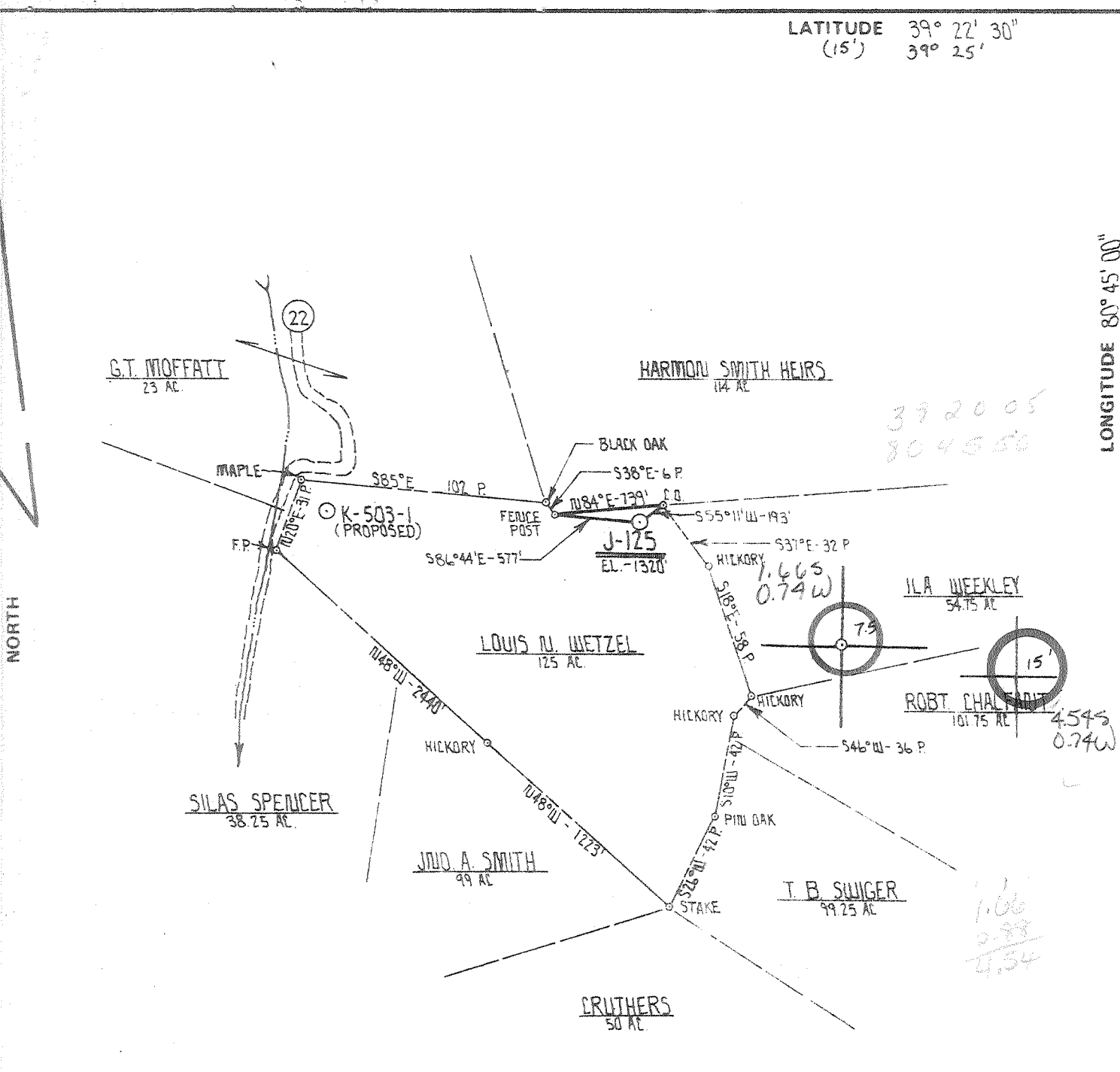


LATITUDE 39° 22' 30"  
(15') 39° 25'

LONGITUDE 80° 45' 00"



FILE NO. 19/56  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION INT. S.L.S. RT. 28 & S.L.S. RT 22 EL. - 801'

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) Samuel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

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



DATE APRIL 28 19 80  
 OPERATOR'S WELL NO J-125  
 API WELL NO 47-017-2693  
 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 1320' WATER SHED WOLF PEN RUN  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 75' & 15' EC  
 SURFACE OWNER PORTER S. SMITH ACREAGE 125  
 OIL & GAS ROYALTY OWNER LOUIS W. WETZEL LEASE ACREAGE 125  
 LEASE NO. K-503  
 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 ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR J.E.J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
6-6 BUCKHANNON, W. VA. 26201 WILBUR BUCKHANNON, W. VA. 26201

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

Date: \_\_\_\_\_, 19\_\_

FORM IV-3  
(Obverse)

Operator's Well No. J-125

[08-78,

WELL OPERATOR'S REPORT (0

API Well No. 47 - 017 - 2693  
State County Permit

**RECEIVED**  
MAY 19 1980  
OIL & GAS DIVISION  
DEPT. OF MINES

DATE OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: DEPT OIL & GAS Gas  / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas" Fracturing  / Underground storage \_\_\_ / Deep \_\_\_ / Shallow  /)

ELEVATION: 1325 Watershed: Wolfpen Run  
District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR: J & J Enterprises, Inc. DESIGNATED AGENT: H.L. Barnett  
Address: Box 48 Address: 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 4-29, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:  
Name: Paul Garrett  
Address: 321 Beech St.  
Clarksburg, WV 26301

LOGICAL TARGET FORMATION: Benson Depth 5285-95 feet  
Depth of completed well, 5459 feet. Rotary  / Cable Tools \_\_\_  
Water strata depth: Fresh, 1332 feet; salt, None feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced 4-30, 1980, and completed 5-5, 1980

LOGGING AND TUBING PROGRAM

LOGGING OR LOGGING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Drill pipe	1 3/4	H-40	42	<input checked="" type="checkbox"/>		28	0	0 sks Kinds
Shallow water	8 5/8	ERW	23	<input checked="" type="checkbox"/>		1679.70	1679.70	385 sks
1	8 5/8	ERW	23	<input checked="" type="checkbox"/>		1679.70	1679.70	385 sks Sizes
Intermediate								
Production	4 1/2	J-55	10.5	<input checked="" type="checkbox"/>		5348	5348	710 sks Depth set
Logging								
Perforations								Perforations: Top Bottom 2578 2626 2754 2770 2992 2996 3650 3652 3778 3782 4834 4836 5276 5279

FLOW DATA

Producing formation: Benson Pay zone depth: 5285-95 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Combined Final open flow, 750 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1200 psig (surface measurement) after 48 hours shut in.  
[If applicable due to multiple completion--] 3650-3782  
2754-2996  
Second producing formation: Weir, Gordon, Berea & Warren Pay zone depth: 2578-2626 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 JUL 7 1980

[08-78]

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

Benson - Perforations: 5276-79 (10 holes) 4834-36 (4 holes)  
Fracturing: 10,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 250 gal Acid  
400 Bbls. fluid.

Warren - Perforations: 3650-3782 (14 holes)  
Fracturing: 500 gal Acid: 5,000 lbs. 80/100 sand: 15,000 lbs. 20/40  
sand: 300 Bbls. fluid.

Gordon - Berea: Perforations: 2754-2996 (14 holes)  
Fracturing: 500 gal Acid: 10,000 lbs. 80/100 sand: 30,000 lbs.  
20/40 sand: 300 Bbls. fluid.

Weir - Perforations: 2578-2626 (14 holes)  
Fracturing: 500 gal Acid: 10,000 lbs. 80/100 sand: 30,000 lbs. 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	39	
Sandy Shale			39	50	
Sand			50	116	Damp @ 50'
Red Rock			116	129	
Sand			129	152	
Red Rock			152	158	
Sandy Shale			158	230	
Red Rock & Shale			230	245	
Sandy Shale			245	275	
Sandy			275	312	
Shale			312	341	
Sand & Sandy Shale			341	362	
Sand & Red Rock			362	383	
Sand & Red Rock			383	400	
Sand & red Rock			400	415	
Sandy Shale			415	421	
Red Rock & Shale			421	434	
Sand & Sandy Shale			434	462	
Red Rock			462	467	
Sandy Shale			467	510	
Red Rock & Shale			510	520	
Sandy Shale & Shale			520	580	
Sand & Sandy Shale			580	588	
Sand & Shale			588	606	
Sandy Shale & Red Rock			606	658	
Sandy Shale			658	675	
Shale			675	695	
Sand & Lime			695	726	
Shale & Red Rock			726	742	
Shale, Sand & Lime			742	787	
Shale & Sand			787	858	
Sandy Shale			858	888	Damp @ 830'
Shale			888	950	
Sand			950	963	
Shale & Red Rock			963	1045	
Sand & Sandy Shale			1045	1093	
Red Rock			1093	1115	

(Attach separate sheets to complete as necessary)

J & 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."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of oil, fresh and salt water, coal, oil and gas
Sandy Shale			1115	1153	
Shale & Red Rock			1153	1170	
Red Rock & Shale			1170	1221	
Sandy Shale			1221	1265	
Red Rock			1265	1300	
Sandy Shale			1300	1540	1/2" stream @ 1350'
Shale			1540	1550	
Sandy Shale			1550	1590	
Shale & Sand			1590	1654	
Sandy Shale			1654	1670	
Shale & Sand			1670	1709	
Sandy Shale			1709	1722	
Shale			1722	1731	
Sandy Shale			1731	1736	
Sandy Shale			1736	2105	
Sandy Shale			2105	2110	
Little Lime & Shale			2180	2102	
Shale			2193	2214	
Big Lime			2214	2298	
Injun Sand			2298	2308	
Sandy Shale			2308	2578	
Weir			2578	2626	
Sandy Shale			2626	2754	
Gordon			2754	2950	
Berea			2950	2996	
Sandy Shale			2996	4436	Gas @ 3705 No show check
Sandy Shale			4436	5285	Gas @ 5107 2/10 thru 1" w/wat
Benson			5285	5295	Gas @ 5332 25/10 thru 1"
Sandy Shale			5295	5459	T.D. 5459 "w/wat

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-I25

API Well No. 47-017 2693  
State County Perm

WELL TYPE: Oil  / Gas  /  
(If "Gas", Production  / Underground storage  / Deep  / Shallow  /  
LOCATION: Elevation: I320 Watershed: Wolfpen Run  
District: West Union County: Doddridge Quadrangle: West Union 7.5

WELL OPERATOR J&J Enterprises Inc  
Address Box 48  
Buckhannon, WV 2620I

DESIGNATED AGENT H.L. Barnett  
Address Box 48  
Buckhannon WV 2620I

OIL & GAS ROYALTY OWNER S.Porter Smith  
Address 286N.Grafton St.  
Romney WV 26757

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

SURFACE OWNER S.Porter Smith  
Address 286 N. Grafton WV 26757  
Romney WV 26757

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name S,Porter Smith  
Address 286 N. Grafton St.  
Romney WV 26757

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

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_  
**RECEIVED**  
APR 29 1980

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 32I Beech St.  
Clarksburg WV 2630I

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  dated 12-8- 1978, to the undersigned well operator from S.Porter Smith & Barbara Smith & Freeman Smith

[If said deed, lease, or other contract has been recorded:]  
Recorded on 5-I 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 108 at page 421. A permit is requested as follows:

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

--classified as shown on the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 20-4-3 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 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  
601 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

J&J Enterprises Inc.  
Well Operator

By Peter Battles  
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 Co. Address Box 48 Buckhannon WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5600 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 1800 feet; salt, feet.

Approximate coal seam depths: none Is coal being mined in the area? Yes No X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kind, 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.

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 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, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-29-80

Robert L. [Signature] 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 obtained a declaration under Code § 22-4-20, if the permit is to be forced within fifteen (15) days of receipt thereof:

WARRANTY

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 marked on 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