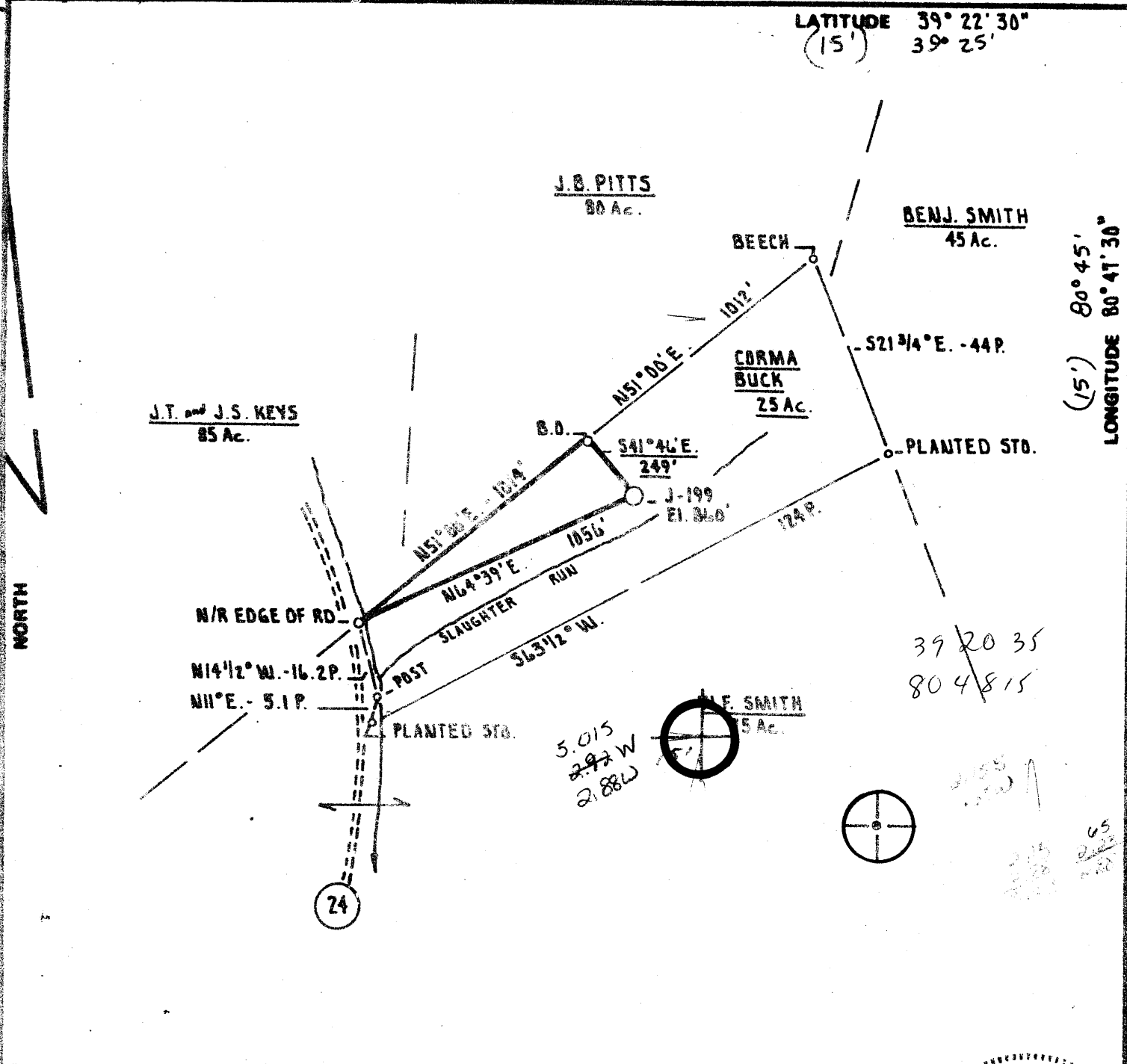


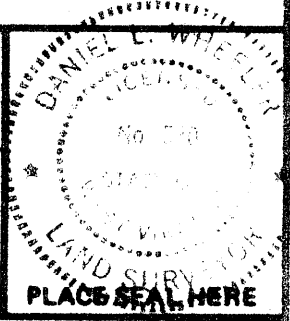
LATITUDE 39° 22' 30" (15') 39° 25'

LONGITUDE 80° 45' (15') 80° 41' 30"



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION BM INTERSECTION OF RT. # 18 and RT. 28 ELEVATION 752'

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



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



DATE OCTOBER 9<sup>th</sup> 1980  
 OPERATOR'S WELL NO. J-199  
 API WELL NO. \_\_\_\_\_  
47 - D17 - 2860  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS.") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 860' WATER SHED SLAUGHTER RUN  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5' & 15' EC  
 SURFACE OWNER JERRY L. MYER ACREAGE 25 Ac.  
 OIL & GAS ROYALTY OWNER CORMA BUCK LEASE ACREAGE 25 Ac.  
 LEASE NO. K-910  
 PROPOSED WORK: DRILL X 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' 6-6 Wilbur (92)  
 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

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: 860 Watershed: Slaughter Run  
District: West Union County: Doddridge Quadrangle: West Union 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 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 10/27, 19 80, 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: Alexander Depth 5055-5135 feet  
Depth of completed well, 5255 feet Rotary X / Cable Tools  
Water strata depth: Fresh, 145 feet; salt, None feet.  
Coal seam depths: None Is coal being mined in the area? no  
Work was commenced 1/3, 1981, and completed 1/8, 1981

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	13/4	H-40	42	X		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	X		1328.21	1328.21	380 sks.	
Coal	8 5/8	ERW	23	X		1328.21	1328.21	380 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		4833.97	4833.97	180 sks.	Detens set
Tubing									
Liners									Perforations:
									Top Bottom
									4767 4769
									4337 4340

RECEIVED

FEB - 5 1981

OPEN FLOW DATA

OIL & GAS DIVISION  
DEPT. OF MINES  
Producing formation Benson Ray zone depth 4767-69 feet  
Gas: Initial open flow, Mscf/d Oil: Initial open flow, Bbl/d  
Combined Final open flow, 481 Mscf/d Final open flow, Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1550 psig (surface measurement) after hours shut in  
[If applicable due to multiple completion--]

Second producing formation Riley Ray zone depth 4337-40 feet  
Gas: Initial open flow, Mscf/d Oil: Initial open flow, Bbl/d  
Final open flow, Mscf/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

MAR 9 1981

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

Benson: Perforations: 4767-69 (8 holes)  
Fracturing: 150 sks. 80/100 sand: 450 sks. 20/40 sand: 600 Bbls. fluid.

Riley: Perforations: 4337-4340 (12 holes)  
Fracturing: 130 sks. 80/100 sand: 400 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 fractures and salt water, coal, oil and gas
Clay			0	10	
Shale & red rock			10	50	½" stream @ 145'
Sand & shale			50	470	
Sand & shale			470	975	Gas ck @ 60/10-1½" w/water
Sand & shale			975	1185	31,316 cu.ft.
Sand & shale			1185	1430	
Sand & shale			1430	1725	Gas ck @ 2257 60/10-1½" w/water
Big Lime			1725	1800	31,316 cu.ft.
Big Injun			1800	1865	
Shale & sand			1865	2865	Gas ck @ 3247 84/10-1½" w/water
Shale & sane			2865	3920	155,393 cu.ft.
Shale			3920	4337	Gas ck @ 4823 100/10-1½" w/water
Riley			4337	4340	169,444 cu.ft.
Shale			4340	4760	
Benson			4760	4775	Gas ck @ collars 100/10-1½" w/water
Gray shale			4775	5055	169,444 cu.ft.
Alexander			5055	5135	
Shale			5135	5355	
				TD	

(Attach separate sheets to complets as necessary.)

J & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
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 by the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-199

API Well No. 47 - 017 2860  
State County Perm

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

LOCATION: Elevation: 860 Watershed: Slaughter Run  
District: West Union County: Doddridge Quadrangle: West Union 7.5'

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

DESIGNATED AGENT H.L. Barnett  
Address Box 48  
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Corma Buck  
Address 1025 44th. St.  
Parkersburg, WV 26101

COAL OPERATOR None  
Address

ACREAGE 25  
SURFACE OWNER Jerry L. Myer  
Address Wilbur, WV 26459  
ACREAGE 25

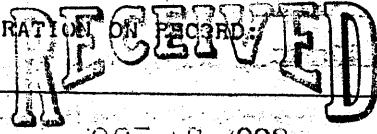
COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Jerry L. Myer  
Address Wilbur, WV 26459

FIELD SALE (IF MADE) TO:  
Name Columbia 12" # 2 (Most Probably)  
Address

Name  
Address

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

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address



OCT 27 1980

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 12-19, 1979, to the undersigned well operator from Key Oil Company

[If said deed, lease, or other contract has been recorded:]

Recorded on 1-3, 1979, in the office of the Clerk of the County Commission of County, West Virginia, in Oil & Gas lease Book 106 at page 707. 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)

--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 objection they wish to make or 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1614 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

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

Address P.O. Box 48 Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

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

Approximate water strata depths: Fresh, 120 feet; salt, none 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 (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 § 22-4-2a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall be required for fracturing or stimulating a well where fracturing is to be part of the work for which a permit is sought and this permit must be posted at the well site 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. This permit shall expire if operations have not commenced by 6-29-81

Signature of Deputy Director - Oil & Gas Division

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