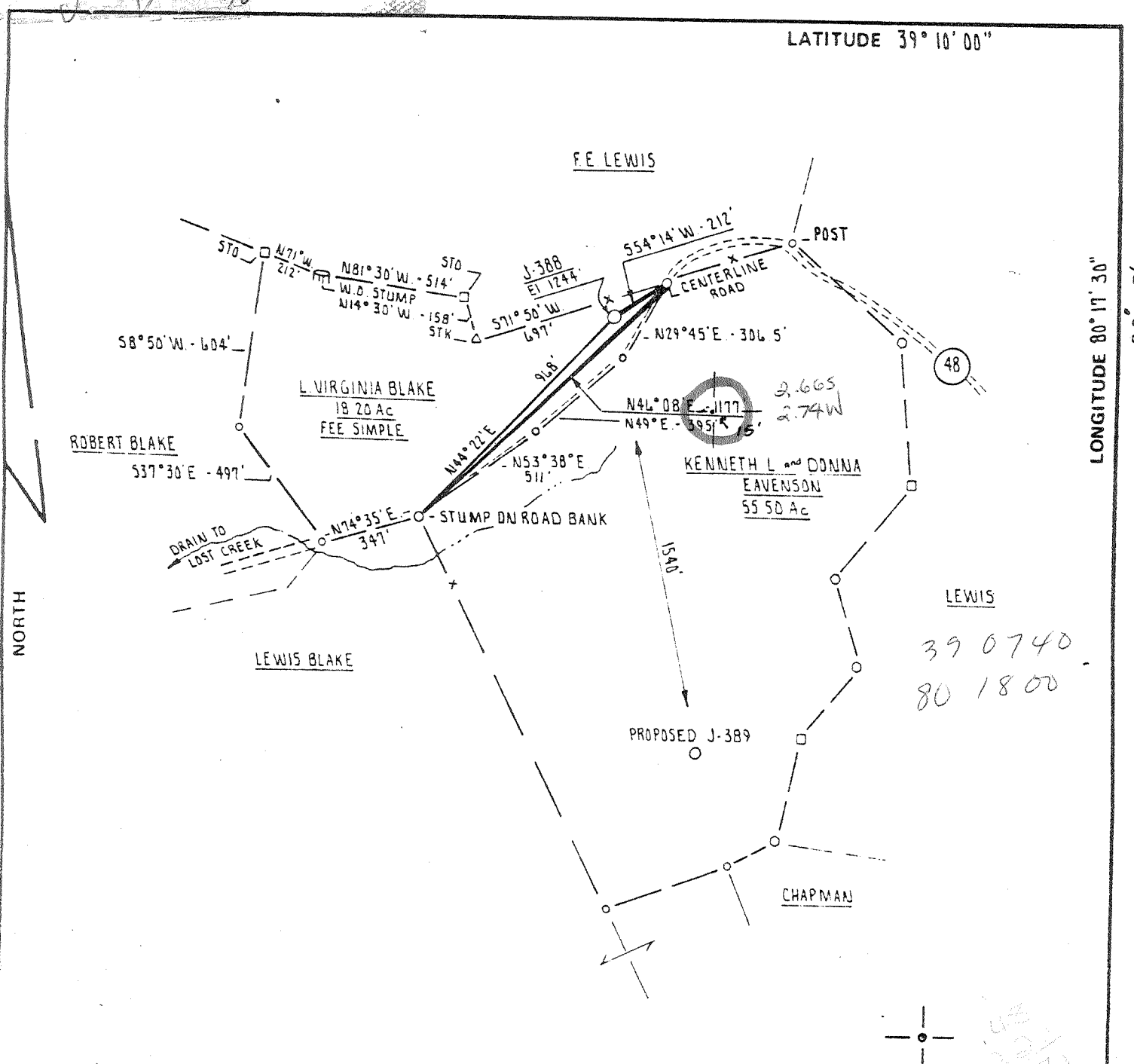


LATITUDE 39° 10' 00"

LONGITUDE 80° 17' 30" 80° 15'



39 0740  
80 1800

FILE NO. D.E. 4-10  
 DRAWING NO. VAR. 3-08  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF  
 ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF  
 ELEVATION USC AND GS BENCHMARK  
1350' ± EAST OF LOCATION  
ELEVATION 1391'

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

⊙ DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (3-78)



DATE OCTOBER 15<sup>TH</sup> 19 80  
 OPERATOR'S WELL NO. J-388  
 API WELL NO. 47 - 033 2517  
 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 1244' WATER SHED LOST CREEK  
 DISTRICT GRANT COUNTY HARRISON  
 QUADRANGLE MT. CLARE, W.Va. T.5. Weston 15' 20'  
 SURFACE OWNER L. VIRGINIA BLAKE ACREAGE 18.20 Ac.  
 OIL & GAS ROYALTY OWNER L. VIRGINIA BLAKE LEASE ACREAGE 19 Ac.  
 LEASE NO. 5-3-30  
 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 HAVERTY ESTIMATED DEPTH 5700'  
 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

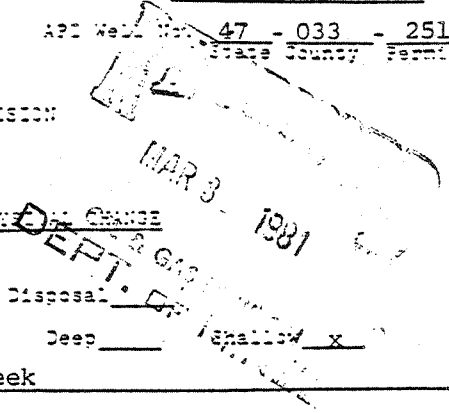
JAN 2 1981

6-6 ~~Jarvisville~~ (151) (153)

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

WELL OPERATOR'S REPORT 14

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE



WELL TYPE: Oil  / Gas  / Liquid Injection  Waste Disposal   
 (If "Gas", Production  / Underground storage  Deep  / Shallow   
 LOCATION: Elevation: 1244 Watershed: Lost Creek  
 District: Grant County: Harrison Quadrangle: Mt. Clar, WV 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 11/26, 1980 OIL & GAS INSPECTOR FOR THIS WORK:  
 (IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Steve Casey  
 Address Rt. # 2, Box 232-D  
Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Haverty Depth \_\_\_\_\_ feet  
 Depth of completed well, 4520 feet Rotary  / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh 300, 1795 feet; salt, 0 feet.  
 Coal seam depths: 340-43, 660-65 Is coal being mined in the area? No  
 Work was commenced 1/18, 1981, and completed 1/24, 1981

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Outside Feet)	PACKERS
	Size	Grade	Weight per Ft	New	Used	For drilling	Left in well		
Conductor	13/4	H-40	42	<input checked="" type="checkbox"/>		0	0	0 sks.	Winds
Fresh water	8 5/8	ERW	23	<input checked="" type="checkbox"/>		686.85	686.85	230 sks.	
Coal	8 5/8	ERW	23	<input checked="" type="checkbox"/>		686.85	686.85	230 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	<input checked="" type="checkbox"/>		4395.8	4395.8	120 sks.	Cement set
Tubing									
Liners									Perforations:
									Top Bottom
									4297 4318

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4297-4318 feet  
 Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow, 163 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, 4 hours  
 Static rock pressure, 1150 psig (surface measurement, after 96 hours shut in)  
 (If applicable due to multiple completion--)  
 Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ 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)

(Continue on reverse side)

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

Benson: Perforations: 4297-4318 (15 holes)

Fracturing: 200 sks. 80/100 sand: 500 sks. 20/40 sand: 700 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
Fill			0	5	
Shale & Red rock			5	30	2" stream @ 300'
Red rock & sand			30	50	Gas ck @ 1721 10/10-1" w/water
White sand			50	100	
Sand, shale & red rock			100	340	2½" stream @ 1795'
Coal			340	343	
Shale & white sand			343	465	2½" stream @ 1950'
Sand & shale			465	660	2½" stream @ 2100'
Coal			660	665	
Shale, sand & red rock			665	770	Gas ck @ T.D. 22/10 1" w/water
Red rock and shale			770	840	35,313 cu.ft.
Sand, shale & red rock			840	985	
Sand, shale & red rock			985	1230	
Sand & shale			1230	1434	
Big Lime			1434	1530	
Big Injun			1530	1595	
Sand & shale			1595	1780	
Sand, shale & red rock			1595	2185	
Shale & red rock			2185	2880	
Sand & shale			2880	3075	
Sand & shale			3075	4240	
Brown sand			4240	4270	
Sand & shale			4270	4290	
Benson			4290	4305	
Sand & shale			4305	4520 TD	

(Attach separate sheets as complete as necessary.)

J & J Enterprises, Inc.

Well Operator  
 By Peter Battles  
 Peter Battles Geologist

NOTE: Regulation 8.0016 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-388 API Well No. 47 - 033 - 2517 State County Permit

WELL TYPE: Oil / Gas x / (If "Gas", Production x / Underground storage / Deep / Shallow x /) LOCATION: Elevation: 1244 Watershed: Lost Creek District: Grant County: Harrison Quadrangle: Mt. Clare, W.Va. 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

LAND & GAS INTERESTS OWNER L. Virginia Blake Address Rt. # 2 Lost Creek, WV 26385

COAL OPERATOR None Address

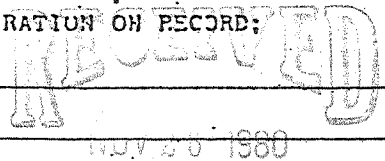
ACREAGE 19 SURFACE OWNER L. Virginia Blake Address Rt. # 2 Lost Creek, WV 26385 Acreage 18.20

COAL OWNER(S) WITH DECLARATION ON RECORD: Name L: Virginia Blake Address Rt. # 2 Lost Creek, WV 26385

DEED SALE (IF MADE) TO: Name Unknown Address

COAL LESSEE WITH DECLARATION ON RECORD: Name None Address

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



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 x / other contract x / dated 5/9, 1980; to the undersigned well operator from Lock 3

If said deed, lease, or other contract has been recorded: Recorded on 6/13, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Assignment Book 15 at page 255. 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)

as 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 application 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 614 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 345-3092

BLANKET BOND

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

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 Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Haverty

Estimated depth of completed well, 5700 feet Rotary x / Cable tools /
Approximate water strata depths: Fresh, 120 feet; salt, None feet.
Approximate coal seam depths: 670 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 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.

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 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 8-1-81

[Signature] Deputy Director - Oil & Gas Division

The undersigned 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 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