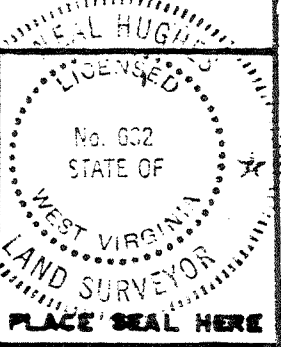


FILE NO. J+J H31
 DRAWING NO. 3
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION RD INTER 827

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) Neal Hughes
 R.P.E. _____ L.L.S. 632



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



DATE MARCH 31, 1981
 OPERATOR'S WELL NO J509
 API WELL NO. 47-017-3007
 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 838' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' Valley 13 NW
 SURFACE OWNER GAYLE MAXWELL ACREAGE 107.7
 OIL & GAS ROYALTY OWNER LEWIS MAXWELL LEASE ACREAGE 90 AC.
 LEASE NO. H-31
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Alexander ESTIMATED DEPTH 5600
 WELL OPERATOR I+J Enterprises, Inc. DESIGNATED AGENT Roger Ralston
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 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 / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 838 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: _____

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT James R. Willett
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 5/6, 19 81, 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 4864-4910 feet
Depth of completed well, 5089 feet Rotary / Cable Tools
Water strata depth: Fresh, 98,155 feet; salt, _____ feet.
Coal seam depths: 95-98,710-14 Is coal being mined in the area? NO
Work was commenced 8/21, 19 81, and completed 8/27, 19 81

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		
Conductor	1 3/4	H-40	42	x		30	0	0 sks. Kinds
Fresh water	8 5/8	ERW	23	x		5015.80	5015.80	350 sks.
Coal	8 5/8	ERW	23	x		5015.80	5015.80	350 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		5023.80	5023.80	450 sks. Depths set
Tubing								
Liners								Perforations:
								Top Bottom
								2269 2284 GORDON
								2933 2935 WREN
								2969 2999 WREN
								4482 4577 BNSN
								4731 4733
								4864 4910

RECEIVED

SEP 21 1981

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 4864-4910 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 622 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1200 psig (surface measurement) after 48 hours shut in
[If applicable due to multiple completion--] 4731 4733
4482 4577
Second producing formation Leopold, Benson, Speechley, Warren, Gordon Pay zone depth 2969 2999 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=Pwe XGLS $\frac{1}{53.34} \times \frac{1}{557} = 0.0000337$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$
 $60 + 10.0075 \times 5024 + 459.7 = 557$ $x = 53.34 \times 557 = 29710$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$ $\frac{1}{29710} = 0.0000337$
 $0.670 (3590) (0.9) = 1200 \times 2.72 \times 0.073 = 1200 \times 1.076$
Pf=1291 psi

OCT 08 1981

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

Alexander: Perforations: 4864-4910 (11 holes)
 Fracturing: 13,000 lbs. 80/100 sand: 32,000 lbs. 20/40 sand: 200 lbs. Citric Acid:
 500 Bbls. fluid.

Leopold, Benson & Riley: Perforations: 4482-86 (3 holes) 4731-4733 (2 holes)
 Fracturing: 15,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand:
 600 Bbls. fluid.

Speechley & Warren: 2933-35 (2 holes) 2969-99 (6 holes)
 50 sks. 80/100 sand: 200 sks. 20/40 sand: 500 gal. Acid: 280 Bbls. fluid.

Gordon: Perforations: 2269-84 (13 holes)
 Fracturing: 10,000 lbs. 80/100 sand: 20,000 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
Top Soil			0	15	
Sand			15	38	3½" to 4" stream @ 98'
Sand, shale & red rock			38	70	
Dark Blue Sand			70	95	1½" stream @ 155'
Coal			95	98	
Sand & shale			98	175	More water @ 1310'
Coal			175	178	
Shale & sand			178	325	Gas ck @ 1741 16/10-½" w/water
Red rock & sand			325	690	7,530 cu.ft.
Sand & shale			690	710	Gas ck @ 2300 36/10-½" w/water
Coal			710	714	11,300 cu.ft.
Sand & shale			714	1090	
Shale & sand			1090	1550	Gas ck @ 3076 11/10 ½" w/water
Big Lime			1550	1640	6,244 cu.ft.
Big Injun			1640	1705	Gas ck @ 4501 70/10-1" w/water
Sand & shale			1705	2060	15,745 cu.ft.
Sand & shale			2060	2269	
Gordon			2269	2284	Gas ck @ 4624 16/10-1" w/water
Sand & shale			2284	2933	7,560 cu.ft.
Warren			2933	2935	Gas ck @ 4965 12/10-1" w/water
Sand & shale			2935	2969	6,521 cu.ft.
Speechley			2969	2999	
Sand & shale			2999	4482	
Benson & Riley			4482	4580	
Sand & shale			4580	4731	
Leopold			4731	4733	
Sand & shale			4733	4864	
Alexander			4864	4910	
Sand & shale			4910	5089	
				T.D.	

(Attach separate sheets to complets as necessary)

J & J Enterprises, Inc.

Well Operator

By

Peter Battles

Its

Geologist

NOTE: Regulation 2.02(f) 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-509
API Well No. 47 - 017 - 3007
State County Permit

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)
Elevation: 838 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton

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

DESIGNATED AGENT Roger Rolston
Address P.O. Box 48
Buckhannon, WV 26201

COAL & GAS LEASE OWNER Lewis Maxwell
Address C/O Paul Maxwell & Anita Young
Blandsville, WV

COAL OPERATOR None
Address

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Gayle Maxwell
Address Rt. # 1
New Milton, WV 26411

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Gayle Maxwell
Address Rt. # 1
New Milton, WV 26411

ACREAGE 90
FACE OWNER Gayle Maxwell
Address Rt. # 1,
New Milton, WV 26411

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

RENTAL SALE (IF MADE) TO:
Unknown
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
MAY - 6 1981

INSPECTOR TO BE NOTIFIED Steve Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

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 x / dated 5/30, 1980, to the undersigned well operator from Justin Henderson [said deed, lease, or other contract has been recorded:]

Recorded on 7/8/80, 19 in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas leasebook 116 at page 119. 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 action they wish to take 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 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 PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
100 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 345-3092

J & J Enterprises, Inc.
Well Operator

By Peter Battles
Its Geologist

BLANKET BOND

[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, Alexander

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

Approximate water strata depths: Fresh, 200 feet; salt, 1250 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 § 22-4-8a 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 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 1-21-82

J. G. Muzey Deputy Director, Oil & Gas Division

Handwritten signature

The following declaration 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.