



FILE NO _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION J AND J ENTERPRISES, INC.
WELL P.S. 1#1 ELEV. 750'

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

WELL DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV 6
 2-78

WELL TYPE OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 IF GAS IS PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION ELEVATION 800' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT CENTERVILLE COUNTY TYLER
 QUADRANGLE WEST UNION 15' & 15' C
 HEAD OWNER EDWIN D. MULVAY ET. UX. ACREAGE 107 Ac.
 GAS ROYALTY OWNER A.E. PRATT ESTATE LEASE ACREAGE 107 Ac.
 LEASE NO. P.S. 28
 WORK DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PROD AND ABANDON _____ CLEAN OUT AND REPLUG _____
 REPORT FORMATION ALEXANDER ESTIMATED DEPTH 5100'
 OPERATOR J AND J ENTERPRISES 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 AUGUST 4th 19 80
 OPERATOR'S WELL NO. J-314
 API WELL NO. 47-095-0830
 STATE COUNTY PERMIT



FORM IV-35
(Obverse)

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

Carnegie
Date: January 7, 1980

[08-78,

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

Operator's Well No. J-314
API Well No. 47 - 095 - 830
State County Perm

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

LOCATION: Elevation: 800 Watershed: Middle Island Creek
District: Centerville County: Tyler 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 / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON 8/6, 1980

OIL & GAS INSPECTOR FOR THIS WORK:
Name Phillip Lee Tracy
Address Box 173 Dodd St.
Middlebourn, WV 26149

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
_____, 19____)

GEOLOGICAL TARGET FORMATION: Alexander Depth 4905-5005 feet
Depth of completed well, 5126 feet Rotary / Cable Tools _____
Water strata depth: Fresh, 380 feet; salt, 315-410 feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 11/21, 1980 and completed 11/26, 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	1 13/4	H-40	42	x		34	34	0 sks.	Minds
Fresh water	8 5/8	ERW	23	x		1105.85	1105.85	214 sks.	
Coal	8 5/8	ERW	23	x		1105.85	1105.85	214 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		4775.9	4775.9	410 sks.	Deaths set
Liners									Perforations: Top Bottom
									4710 4713

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DEPT. OF MINES

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4710-4713 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1,200 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 96 hours
Static rock pressure, 1400 psig (surface measurement) after 4 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

FEB 23 1981

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

Benson: Perforations: 4710-4713 (12 holes)

Fracturing: 500 gal. Acid: 650 sks. 80/100 sand: 450 sks. 20/40 sand:
440 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
Red rock & sand			0	25	
Sand, shale & red rock			25	48	
Sand, shale & red rock			48	100	Damp @ 120
Sand, shale & red rock			100	155	
Red rock & sand			55	200	
White sand			200	235	
Sand, shale & red rock			235	295	
Sand & shale			295	315	
Salt sand			315	410	1/2" stream @ 380'
Sand & shale			410	550	
Sand, shale & red rock			550	930	Gas ck @ 1866 20/10-3/4" w/water
Salt sand			930	995	8,944 cu.ft.
Sand & shale			995	1110	Gas ck @ 4347 15/10-3/4" w/water
Salt sand			1110	1125	16,406 cu.ft.
Sand & shale			1125	1610	Gas ck @ 4597 No show
Little lime			1610	1625	
Sand & shale			1625	1655	Gas ck @ 4721 2/10-1/2" w/water
Big Lime			1655	1710	2,553 cu.ft.
Big Injun			1710	1850	Gas ck @ 5033 10/10-1/2" w/water
Sand & shale			1850	1995	5,953 cu.ft.
Sand & shale			1995	4705	
Benson			4705	4720	
Sand & shale			4720	4905	
Alexander			4905	5005	
Sand & shale			5005	5126	
					T.D.

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.

Well Operator

By

Peter Battles

Its

Peter Battles 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."

Date: 8/5/1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-314

API Well No. 47 - 095
State County

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

LOCATION: Elevation: 800 Watershed: Middle Island Creek
District: Centerville County: Tyler Quadrangle: West Union 7.5

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

DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48
Buckhannon W.V. 26201

OIL & GAS
ROYALTY OWNER A.E. Pratt; Edwin & Patricia Mulvay
Address Box 132 ; Star Rt.
Washington Pa. West Union W.V. 26456

COAL OPERATOR None
Address

ACREAGE 107
SURFACE OWNER Edwin & Patricia Mulvay
Address Star Rt.
West Union W.V. 26456
ACREAGE 107

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Edwin & Patricia Mulvay
Address Star Rt.
West Union W.V. 26456

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Lee Tracy
Address Box 173 Dodd St.
Middlebourn W.V. 26149

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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 4/20, 1980, to undersigned well operator from Petroleum Services

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

Recorded on 5/3, 1980, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 224 at page 472. 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 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 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, Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

J&J Enterprises, Inc
Well Operator

By

Its

Peter Rattler
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 P.O. Box 48
Buckhannon W.V. 26201

GEOLOGICAL TARGET FORMATION, Alexander
Estimated depth of completed well, 5100 feet Rotary / Cable tools
Approximate water strata depths: Fresh, 73 feet; salt, 1000 feet.
Approximate coal seam depths: None Is coal being mined in the area: Yes No

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	1 13/4	H40	42	X		30	30	0	Kinds
Fresh water	8 5/8	ERW	23	X		1100	1100	300sks	
Coal									Sizes
Intermediate									
Production Tubing	4 1/2	J55	10.5	X		5050	5050	400sks.	Depths set
Liners									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 drilling 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 done on the well for which a permit is sought and is ~~THIS PERMIT MUST BE POSTED AT THE WELL SITE~~ 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 4-19-81.

[Signature]
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 [Signature]