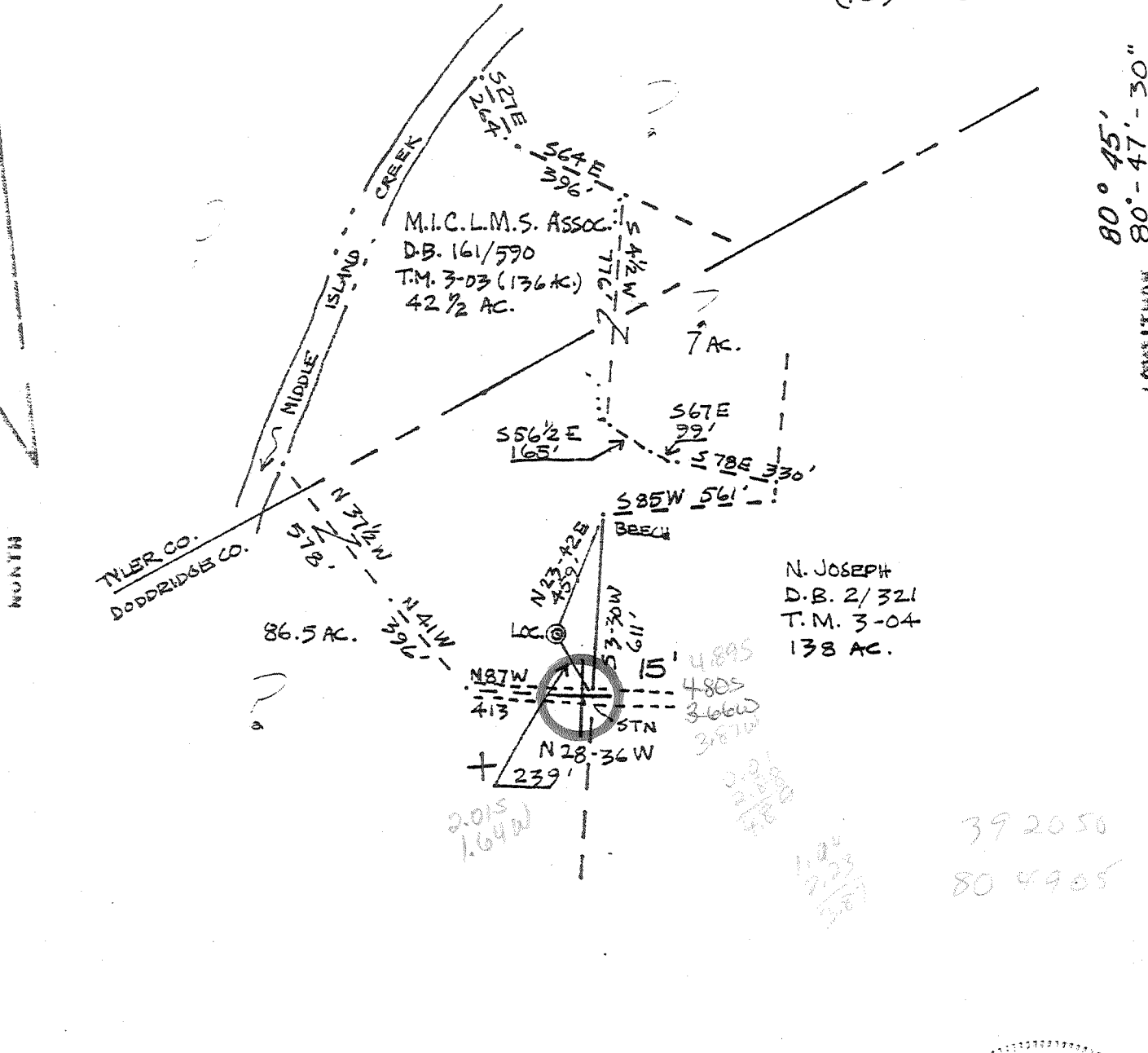


LATITUDE 39°-22'-30"
(15') 39° 25'

LONGITUDE 80°-45'
80°-47'-30"



FILE NO. K-906
 DRAWING NO. 1
 SCALE 1"-500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. 790 AT RT. 12

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (3-73)



DATE 30 July, 1979
 OPERATOR'S WELL NO K-906-#1
 API WELL NO. 47-017-2936
 STATE COUNTY _____
 Formerly: 017-2676

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 845 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION (7.5' SERIES), 15' EC
 SURFACE OWNER M.I.C.L.M.S. ASSOC. ACREAGE 136 AC.
 OIL & GAS ROYALTY OWNER Paul Joseph, John Earl Strickling LEASE ACREAGE 44.425 AC.
 LEASE NO. K-906-#1
 PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUS OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUS AND ABANDON CLEAN OUT AND REPLUS
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500
 WELL OPERATOR J+J Enterprises Inc. DESIGNATED AGENT Harry Barnett
 ADDRESS Box 48 ADDRESS Box 48
Buckhannon W. Va. 26201 Buckhannon W. Va. 26201

OIL AND GAS WELL PERMIT APPLICATION

Date: 4-8-1978

Operator's Well No. K-906-#1 (J-92)

API Well No. 47-017-2674

State County Term

Now: 017-2936

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Spallow X /)
Elevation: 845 Watershed: Middle Island Creek
District: West Union, County: Doddridge Quadrangle: West Union

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

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

OWNER Paul, Joseph, John, Earl Strickling
Address Star Route
West Union, WV 26456
Acreage 42

COAL OPERATOR None
Address

FACE OWNER Paul Strickling
Address Star Route
West Union, WV 26456
Acreage 136

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address

SALE (IF MADE) TO:
Address

Name
Address

GAS INSPECTOR TO BE NOTIFIED Paul Garrett
Address Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

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 / dated 12-13-1978, 1978, to the undersigned well operator from Paul Strickling

deed, lease, or other contract has been recorded:
dated on 12-13, 1978, in the office of the Clerk of the County Commission of Doddridge

County, West Virginia, in Gas Lease Book 106 at page 693. 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)

Enclosed are copies of the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any time they wish to take or are required to take by Code § 22-4-3 must be filed with the Department and within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plot and declaration plan have been mailed 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.

SEVEN COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
VIRGINIA OIL AND GAS CONSERVATION COMMISSION
WASHINGTON STREET EAST
LEWISBURG, WV 25911
PHONE: (304) 345-1000

J & J Enterprises, Inc.
Well Operator

BLANKET BOND

Peter Battles
Mr. Geologist

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRIILLING 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, 5500 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 200 feet; salt, 1000 feet.

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

LOGGING AND TUBING PROGRAM

LOGGING 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	113/4	H-40	42	x		30	0	0 sks.	Hinds	None
Fresh water	8 5/8	ERW	23	x		1200	1200	190 sks.		
	8 5/8	ERW	23	x		1200	1200	190 sks.		Sizes
Intermediate										
Production	4 1/2	J-55	9.5	x		5450	5450	400 sks.		Depths set
Line										
Perforations										Perforations: -
										Top Bottom

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 plot 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 100 feet of the proposed well.

A separate Form IV-7 shall not be required for fracturing or stimulating a well when fracturing or stimulating is to be part of the work for which a permit is sought and this permit must be posted for the well in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the hereto is hereby removed for drilling. This permit shall expire if operations have not commenced by 12-11-80.

[Signature]
Deputy Director - Oil & Gas Division

This permit shall be void if the coal operator and by any coal owner or coal lessee who has not made a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

WARRANTY

The undersigned coal operator / owner / lessee of the coal under this well warrants that this proposed well location, if a mine map exists which covers the area of the proposed well location has been added to the mine map. The undersigned has no objection to any operations 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 _____

RECEIVED

AUG 24 1981

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

WELL OPERATOR'S REPORT
OF
MINING, 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: 845 Watershed: Middle Island Creek
District: West Union County: Doddridge Quadrangle: West Union
WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Roger Rolston
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 1/7, 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 _____ feet
Depth of completed well, 4900 feet Rotary x / Cable Tools ___
Water strata depth: Fresh, 95,370 feet; salt, 0 feet.
Coal seam depths: 0 Is coal being mined in the area? No
Work was commenced 5/17, 19 81, and completed 5/22, 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	Left in well		
Conductor	11 3/4	H-40	42	x		32	32	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1403.55	1403.55	305 sks.	
Coal	8 5/8	ERW	23	x		1403.55	1403.55	305 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	9.5	x		4784.20	4784.20	252 sks.	Testers set
Tubing									
Liners									Perforations:
									Top Bottom
									4324 4328
									4745 4748

OPEN FLOW DATA:
Producing formation Benson Pay zone depth 4745-48 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 984 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1650 psig (surface measurement) after 96 hours shut in
[If applicable due to multiple completion--]
Second producing formation Bradford Pay zone depth 4324-28 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=PweXGLS
=1650 e=2.72 T=60+(0.0075 x 4784)+459.7=T=556 x=53.34(T) =53.34(556)=29657 =0.0000337 G=0.676
L=4536 S=0.9 Pf=1650 x 2.72 (0.0000337) (4536) (0.9)=1650 x 2.72^{0.093}=1650x1.098 = 1812
SEP 9 1981

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

Benson: Perfs: 4745-48 (12 holes)

Fracturing: 130 sks. 80/100 sand: 320 sks. 20/40 sand: 500 Bbls. fluid.

Bradford: Perfs: 4324-28 (12 holes)

Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid.
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
Fill & shale			0	15	
Red rock & shale			15	20	
Sand, shale & red rock			20	135	½" stream water @ 95'
Sand & shale			135	205	
Red rock, sand & shale			205	410	More water @ 250'
Red rock, sand & shale			410	550	
Sand & shale			550	610	
Red rock, sand & shale			610	1235	1" stream @ 1370'
Sand & shale			1235	1340	
Sand & shale			1340	1470	
Sand & shale			1470	1700	Gas ck @ 1893 No show
Big Lime			-1700	1795	
Big Injun			1795	1870	Gas ck @ 4374 8/10-½" w/water 5324 cu.ft.
Sand & shale			1870	4324	
Bradford			4324	4328	Gas ck @ 4715 3/10-½" w/water 3260 cu.ft.
Sand & shale			4328	4735	
Sand & shale			4735	4745	
Benson			-4745	4748	
Sand & shale			4748	4900	Gas ck @ 4777 96/10-½" w/water 18,448 cu.ft.
				TD	

(Attach separate sheets to complete 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 in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-906-#1 (J-92) Re-Apply 47-017-2936 API Well No. State County Perm old No. 2676

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Shallow X /) LOCATION: Elevation: 845 Watershed: Middle Island Creek District: West Union, County: Doddridge Quadrangle: West Union

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

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

COAL & GAS LEASE OWNER: Paul, Joseph, John, Earl Strickling Address: Star Route West Union, WV 26456 Acreage: 42

COAL OPERATOR: None Address:

COAL SURFACE OWNER: Paul Strickling Address: Star Route West Union, WV 26456 Acreage: 136

COAL OWNER(S) WITH DECLARATION ON RECORD: Name: None Address: RECEIVED JAN - 7 1981

DEED SALE (IF MADE) TO: Address:

Name: Address: OIL & GAS DIVISION DEPT. OF MINES

COAL & GAS INSPECTOR TO BE NOTIFIED: Paul Garrett Address: Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD: Name: Address:

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated 12-13, 1979, to the undersigned well operator from Paul Strickling [said deed, lease, or other contract has been recorded:]

Recorded on 12-13, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Gas Lease Book 106 at page 693. 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)

Explains 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 time they wish to take or are required to take by Code § 22-4-3 must be filed with the Department 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 registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee before the day of the filing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO: VIRGINIA OIL AND GAS CONSERVATION COMMISSION WASHINGTON STREET EAST CHARLESTON, WV 25301 PHONE: (304) 345-3093

BLANKET BOND

J & J Enterprises, Inc. Well Operator By 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 P.O. Box 48 Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 200 feet; salt, 1000 feet.

Approximate coal seam depths: None Is coal belms 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 § 22-4-4a 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 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 9-9-81.

[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 T 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 well 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