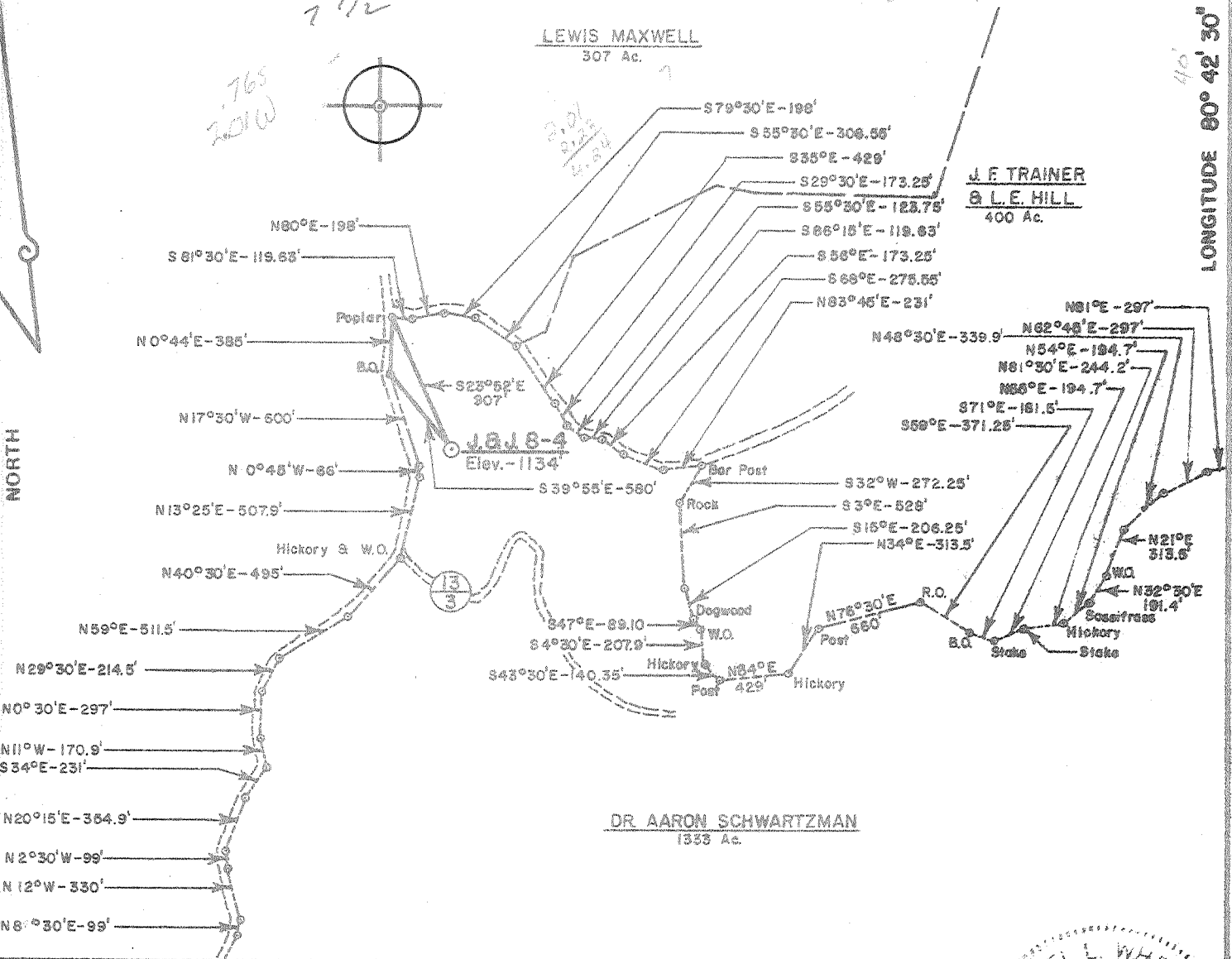




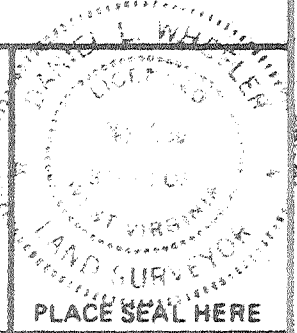
39 14 20
80 44 40

LONGITUDE 80° 42' 30"



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 Part In 200
PROVEN SOURCE OF ELEVATION B.M. 1,800' North of Inter. of 13 & 13/3. Elev. 1269'

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 December 10, 19 79
OPERATOR'S WELL NO. J & J. 8-4
API WELL NO. _____
47 - 017 - 2560
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 1134' NW WATER SHED Right hand fork of Lick Run
DISTRICT New Milton COUNTY Putnam
QUADRANGLE New Milton 7.5' VA 015 15' NW
SURFACE OWNER Dr. Aaron Schwartzman ACREAGE 1333.8
OIL & GAS ROYALTY OWNER Porter Maxwell Hrs. LEASE ACREAGE 1333.8
LEASE NO. J & J. 8-4
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5,350'
WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Harry Barnett
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

Date: 4-23, 1980

Operator's Well No. J-35

API Well No. 017-2560
State County Permit

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

WELL OPERATOR'S REPORT 9
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: 1134 Watershed: Right Hand Fork of Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 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 12-20, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett

Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well, 5275 feet Rotary / Cable Tools
Water strata depth: Fresh, 310,938 feet; salt, 0 feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 3-31, 1980, and completed 4-8, 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				
Conductor	1 3/4	H-40	42	X		31	0	0 sks	
Fresh water	5/8	ERW	23	X		1090.70	1090.70	300 sks	Kind
Coal	5/8	ERW	23	X		1090.70	1090.70	300 sks.	Size
Intermediate									
Production	1 1/2	J-55				5211.71	5211.71	600 sks.	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									3922 3926
									4110 4114
									4812 4816

OIL & GAS DIVISION
DEPT. OF MINES

5100 5106

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5100-5106 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

Combined

Final open flow 1,316 Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1520 psig (surface measurement) after 72 hours shut in

[If applicable due to multiple completion--]

Second producing formation Benson, Balltown Pay zone depth 4812 4816 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

[08-78]

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

Alexander-Perforations: 5100-5106 (16 holes)
Fracturing: 500 gal Acid: 20,000 lbs sand, 80/100 wire mesh:
40,000 lbs sand, 20/40 wire mesh, 586 Bbls fluid.

Benson-Perforations: 4812-16 914 holes)
Fracturing: 500 gal Acid: 20,000 lbs sand 80/100 wire mesh:
40,000 lbs sand, 20/40 wire mesh: 581 Bbls Fluid

Balltown-Perforations: 3922-26 (6 holes), 4110-14 (6 holes)
Fracturing: 500 gal Acid: 15,000 lbs. Sand 80/100 wire mesh:
30,000 lbs Sand 20/40 wire mesh: 450 Bbls Fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all water and salt water, coal, oil, etc.
Fill			0	15	
Red Rock & Shale			15	40	
Sand			40	70	
Red Rock			70	80	
Sand & Shale			80	108	
Sand			108	135	
Sand & Shale			135	430	1/2" stream water @ 310'
Sand			430	450	
Sand & Shale			450	545	
Red Rock			545	555	
Shale			555	585	
Red Rock & Shale			585	630	
Sand & Shale			630	720	
Red Rock			720	730	
Sand & Shale			730	755	
Shale			755	780	
Sand & Shale			780	855	
Red Rock			855	870	1" stream water @ 938
Sand & Shale			870	1160	
Sand			1160	1230	
Red Rock			1230	1235	
Sand & Shale			1235	1305	
Sand			1305	1348	
Sand & Shale			1348	1525	
Sand			1525	1547	
Sand & Shale			1547	1740	
Little Lime			- 1740	1755	
Big Lime			- 1755	1850	
Big Injun			- 1850	1928	
Shale			1928	2080	
Weir			2080	2178	Gas @ 2087 20/10 thru 1" w/water
Shale			2178	2284	
Berea			- 2284	2298	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.
Well Operator

By Peter Battles
Its Peter Battles Geologist

NOTE: Regulation 2.03(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."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil flow and salt water, coal, etc. and gas
Sand & Shale Gordon			2298 2500	2500 2528	
Sand & Shale Speechley			2528 3164	3164 3284	
Sand & Shale Balltown			3284 3919	3919 4136	
Sand & Shale Benson			4136 4810	4810 4816	Gas @ 4595 45/10 thru 1" w/water Gas @ 4812 32/10 thru 1" w/water
Sand & Shale Alexander			4816 5092	5092 5160	
Shale			5160	5275	T.D. 5275'

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. JJ-8-#4
API Well No. 47-017 - 2560
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1134 Watershed: Right Hand fork of Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7 1/2

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

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

OIL & GAS ROYALTY OWNER Porter Maxwell Heirs
Address Box 2190
Clarksburg, W. Va. 26301
Acreage 1333.8

COAL OPERATOR Aaron & Veatrice Schwartzman
Address 2007 Nichols Ave., S. E.
Washington, D. C. 20020

SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington, D. C. 20070
Acreage 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____
RECEIVED
DEC 20 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 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 ___ / other contract X / dated October 24, 1979, to the undersigned well operator from Delmur Oil Company

[If said deed, lease, or other contract has been recorded:]
Recorded on October 30, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 112 at page 337. 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 special change in well (specify) _____

--- attached as shown on the work order on the reverse side hereof.

To the above named well operator, coal owner(s), and coal lessee are hereby notified that any other permits which 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.

Dates 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
1601 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J ENTERPRISES, INC.
Well Operator
By Peter Battles
PETER BATTLES
Its 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 Company

Address P. O. Box 48

Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5350 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 300 feet; salt, 1300 feet.

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

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		Kinds	Depths
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None	
Fresh water	8 5/8	ERW	23	X		1400	1400	320 sks.		
Coal	8 5/8	ERW	23	X		1400	1400	320 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5325	5325	280 sks.	Depths set	
Tubing										
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 dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE DEPOSITED AT THE WELL SITE. This permit 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 8-26-80.

[Signature]
Deputy Director - Oil & Gas Division

This permit is not to be used by 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 used 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