



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
JUNTER. RT. 13 & RT 13 1/3. EL. 1249'

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF MINES.
 (SIGNED) Donald L. Wheeler
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JANUARY 30, 19 80
 OPERATOR'S WELL NO. J & J 8-7
 API WELL NO. 47-017-2599
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1125 WATER SHED LICK RIVER
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' Quad 15' NW
 SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 1333.8
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8
 LEASE NO. J & J 8
 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 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

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

WELL OPERATOR'S REPORT
OF

DRILLING, REWORKING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1125 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 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 2-12, 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 26330

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well 5408 feet Rotary Cable Tool: _____
Water strata depth: Fresh, 135-225 feet; salt, 1185-1230 feet.
Coal seam depths: 14-19; 275-78 Is coal being mined in the area? NO
Work was commenced 6-5, 1980, and completed 6-11, 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		55	0	0 sks.	Kinds
Fresh water	8 5/8	ERM	23	x		1530	1530	355 sks.	
Coal	8 5/8	ERM	23	x		1530	1530	355 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5306	5306	750 sks.	Design set
Tubing									
Liners									Perforations
									Top
									Bottom
									5180
									5225
									4440
									4895
									3256
									3378

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5180 - 5225 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 1205 Mcf/d Final open flow, _____ Bbl/d

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

Static rock pressure, 1072 psig (surface measurement) after 80 hours shut in

[If applicable due to multiple completion--]

Second producing formation Benson & Warren Pay zone depth 3256-3378 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

JUN 25 1980

BLANKET RUN

JUL 28 1980

DETAILS OF PERFORATED INTERVALS, FRACTURING (IF APPLICABLE), PHYSICAL PROPS, ETC.

Alexander: Perforations: 5180-5225 (10 holes)
Fracturing: 200 lbs Acid: 300 sks. 80/100 sand: 300 sks. 20/40 sand: 55 Bbls. fluid.

Benson: Perforations: 4440-42 (5 holes) 4892-95 (6 holes)
Fracturing: 500 gal. Acid: 200 sks. 80/100 sand, 400 sks. 20/40 sand: 625 Bbls. fluid.

Warren: Perforations: 3256-3378 (15 holes)
+500 Fracturing: 500 gal. Acid, 200 sks. 80/100 sand, 400 sks. 20/40 sand: 535 Bbls. fluid.

ELL 109

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil flow and salt water, coal, etc.
Fill & Shale			0	14	
Coal			14	19	
Sand & Shale			19	45	
Sand, Shale & Red Rock			45	94	
Sand & Red Rock			94	139	Damp @ 135'
Red Rock & Shale			139	190	
Red Rock & Sand			190	225	1" stream @ 225'
Red rock & sand			225	265	
Red rock & shale			265	275	
Coal			275	278	
Sand, Shale & Red Rock			278	300	
Sand, Red Rock & Shale			300	390	
Sand & Shale			390	465	
Red Rock & Shale			465	600	
Sand & Red Rock			600	680	
Shale & Red Rock			680	700	
Shale & Red Rock			700	715	
Sand, Shale & Red Rock			715	735	
Sand, Shale & Red Rock			735	785	
Sand & Shale			785	870	
Sand & Shale			870	950	
Sand & Shale			950	1185	
Salt & White Sand			1185	1230	
Sand & Shale			1230	1435	
Sand & Shale			1435	1925	
Big Lime			1925	1990	
Big Injun			1990	2028	
Shale			2028	2178	
Weir			2178	2266	
Sand & shale			2266	3250	
Warren			3250	3386	
Sand & Shale			3386	4430	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

Well Operator

By

Its

Peter Battles
Peter Battles

Geologist

NOTE: Regulation C.25.11, provides as follows:

"The person in charge of well logs shall keep 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. JJ-8-#7
API Well No. 47 - 017 - 2599
State County Permit

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

LOCATION: Elevation: 1125 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

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

COAL OPERATOR None
Address

ACREAGE 1333.8
SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Avenue
Washington, D. C. 20020
ACREAGE 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD;
Name Aaron & Veatrice Schwartzman
Address 2007 Nicholes Ave., S. E.
Washington, D. C. 20020

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD;
Name None
Address FEB 12 1980

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 / 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 / Re-drill / Fracture or stimulate /
Other physical change in well (specify)

Enclosed is a copy of the work order on the reverse side hereof.

Coal operator, coal owner(s), and coal lessee are hereby notified that any additional records or records to be made 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
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
100 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

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

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, 290 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	None
Conductor	11 3/4	H-40	42	X		30	0	0 sks.		None
Fresh water	8 5/8	ERW	23	X		1400	1400	350 sks.		
Coal	8 5/8	ERW	23	X		1400	1400	350 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5350	5350	300 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.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where the permit is posted at the well site as 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 10-13-80.

Robert R. [Signature]
Deputy Director - Oil & Gas Division

This permit shall be posted at the well site by the coal operator and by any coal owner who has an interest in the coal under Code § 22-4-20, if the permit is posted at this site, the date of receipt thereof:

WITNESSETH

The undersigned coal operator / owner / lessee / of the coal under this well location has examined the 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

FORMATION	Color	Height or Depth	4		Remarks Including indicators of oil or gas and salt water, sand, etc.
			Top Feet	Bottom Feet	
Sand			4430	4452	
Sand & Shale			4452	4890	Gas @ 4764 20/10 thru 1/2" w/water
Benson			-4890	4896	Gas @ 4979 110/10 thru 1/2" w/ water
Sand & Shale			4896	5178	
Alexander			5178	5246	Gas @ 5316 30/10 thru 1/2" w/ water
Shale			5246	5408	
					T.D. 5408

JUL 28 1980