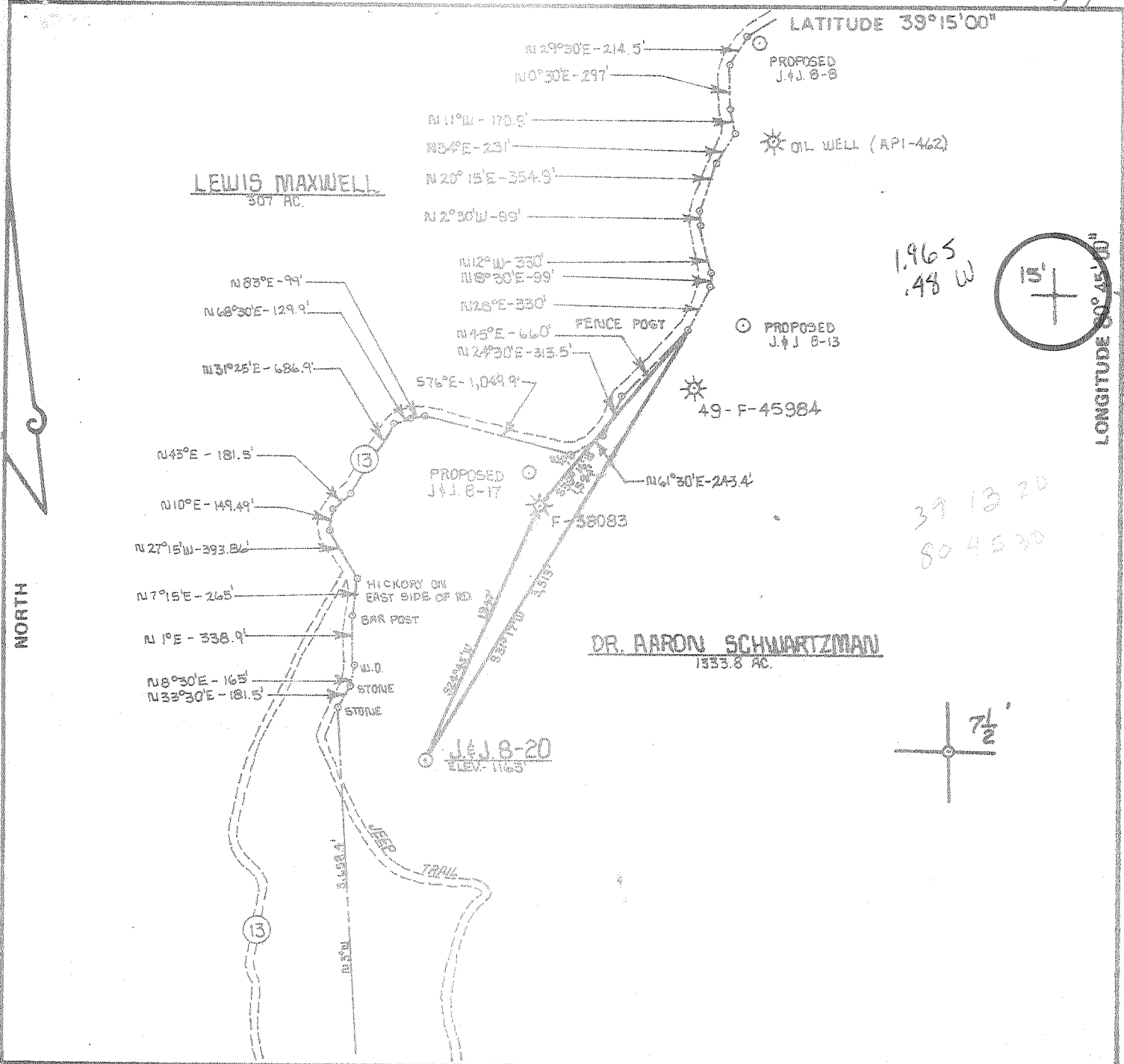


1/2/80



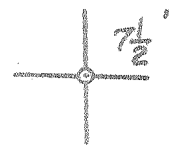
1965
48 W



LONGITUDE 80° 45' 00"

39 13 30
80 45 30

DR. ARRON SCHWARTZMAN
1333.8 AC.



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION INT. OF RDS. 4,700'
SOUTH OF INT. OF 13 & 13 1/3.
ELEV. 1245'

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) Ronell S. Mueller
R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE DECEMBER 20, 19 79
OPERATOR'S WELL NO. J.J. 8-20
API WELL NO. 47-017-2571
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 ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1165' WATER SHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE OXFORD 7.5', Holbrook 15' NE
SURFACE OWNER DR. ARRON SCHWARTZMAN ACREAGE 1333.8
OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8
LEASE NO. J.J. 8
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' 5400'
WELL OPERATOR J. & J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 1740
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201

2-6 Straight Fork - Bluestone Cr (133)

FEB 6 1980

RECEIVED

JUL 31 1980

Date: July 30 1980
 Operator's Well No. J-51
 Well No. 017 2571

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

OIL & GAS DIVISION
 DEPT. OF MINES

WELL OPERATOR'S REPORT

REPAIRS, REPAIRS, REPAIRS AND REPAIRS, REPAIRS, REPAIRS, REPAIRS

WELL TYPE: Oil Gas / Drilled / Reamed / Cased / Other
 If "Gas", Production / Underground Storage / Deep / Shallow

LOCATION: Elevation: 1163 Watershed: Lick Run
 District: New Milton County: Doddridge Quadrangle: Oxford 7.5'

WELL OPERATOR: J & J Enterprises, Inc. Designated Agent: H.L. Barnett
 Address: P.O. Box 48 Buckhannon, WV 26201
 Address: P.O. Box 48 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: 1-2, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
 Name: Paul Garrett
 Address: 321 Beech Street
 Clarksburg, WV 26301

IF APPLICABLE: PLUGGING OF OLD HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED
 GEOLOGICAL TARGET FORMATION: Alexander Dept: 5060-5130 feet
 Depth of completed well, 5252 feet Rotary Cable Tools
 Water strata depths: Fresh, 25 feet; salt, 0 feet.
 Coal seam depths: 0 Is coal being mined in the area? No
 Work was commenced 3-2-80, 1980, and completed 3-7, 1980

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Conductor	113/4H-40	42	x			0	0	0 sks	None
Fresh water	8 5/8ERW	23	x			520	520	260 sks	
Seal	8 5/8ERW	23	x			520	520	260 sks	Slips
Intermediate									
Production	4 1/2J-55	10.5	x			5177	5177	970 sks	Perforated
Slips									
Slips									
								3156	3165
								3211	3261
								3875	3924
								4064	4344
								4782	5129

OPEN FLOW DATA
 Producing formation: Alexander Pay zone depth:
 Gas: Initial open flow, _____ Mscf/d Oil: Initial open flow, _____ Bbl/d
 Combined Final open flow, 1,186 Mscf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, 6 hours
 Static rock pressure, 1400 psi surface measurement after 96 hours shut in

IF APPLICABLE (see on multiple completions)
 Second producing formation: Benson & Warren Pay zone depth:
 Gas: Initial open flow, _____ Mscf/d Oil: Initial open flow, _____ Bbl/d
 Final open flow, _____ Mscf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours
 Static rock pressure, _____ psi surface measurement after _____ hours shut in

Alexander: Perforations: 5065-5129 (14 holes)
 Fracturing: 650 lbs. 80/100 sand: 200 lbs. 20/40 sand: 500 Bbls. fluid.

Benson & Warren: Perforations: 4084-4786 (12 holes) 3221-4086 (19 holes)
 Fracturing: 300 lbs. Acid: 65,000 80/100 sand: 20,000 20/40 sand: 500 Bbls. fluid.

ELL 103

FORMATION	Depth	Top of Sand	Top Feet	Bottom Feet	ESPANAS Including Indicator Gas and Salt Water, Gall. per Barrel
Sand			50	75	Water @ 25'
Red Rock & Shale			75	85	
Sand			85	100	
Red Rock & Shale			100	130	
Sand & Shale			130	17-	
Sand			175	200	
Sand & Shale			200	230	
Red Rock			230	270	
Sand			270	360	
Shale			360	365	
Sand & Shale			365	412	
Sand & Shale			412	811	
Red Rock & Shale			811	910	
Sand & Shale			910	960	
Sand			960	1015	
Sand & Shale			1015	1160	
Sand			1160	1200	
Sand & Shale			1200	1275	
Salt Sand			1275	1325	
Sand & Shale			1325	1330	
Shale			1330	1365	
Sand			1365	1396	
Sand & Shale			1396	1519	
Sand			1519	1565	
Sand & Shale			1565	1570	
Maxon			1570	1605	
Sand & Shale			1605	1670	
Little Lime			- 1670	1680	
Sand, Shale & Red Rock			1680	1740	
Big Lime			- 1740	1845	
Big Injun			1845	1905	
Sand			1905	2140	

Print separate sheets to complete as necessary.

J & J Enterprises, Inc.

By: *Peter Battles*
 Peter Battles
 Geologist

Handwritten notes in a box at the bottom left corner, including the name "Peter Battles" and some illegible text.

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand			2140	2180	Gas ck @ 2794 40/10 thru 1" w/water
Sand & Shale			2180	2435	
Sand			2435	2460	
Sand & Shale			2460	2883	Gas ck @ 4005 40/10 thru 1" w/water
Sand & Shale			2883	3150	
Sand			3150	3221	Gas ck @ 4591 120/10 thru 1" w/water
Barren			3221	3757	
Shale & Sand			3757	3765	Gas ck @ 4816 158/10 thru 1" w/water
Sand			3765	4084	
Wenonah			4084	4786	
Sand & Shale			4786	5065	Gas ck @ T.D. 130/10 thru 1" w/water
Alexander			5065	5129	
Shale			5129	5252	T.D. 5252

AUG 11 1960

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. JJ-8-#20
API Well No. 47-017-2571
State County Permit

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

LOCATION: Elevation: 1163 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: Oxford 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

COAL OPERATOR _____
Address _____

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

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Nichols 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 Street
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____
RECEIVED
JAN - 2 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 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:

PROJECTED WORK: Drill X / Re-drill deeper ___ / Re-drill ___ / Fracture or stimulate X /
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

--closed as per work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any other permits which 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 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
1616 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, 5400 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		Kind	Depth
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None	
Fresh water	8 5/8	ERW	23	X		1430	1430	320 sks.		
Coal	8 5/8	ERW	23	X		1430	1430	320 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5380	5380	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 ~~fracturing or stimulating~~ **THIS PERMIT MUST BE POSTED AT THE WELL SITE** 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 9-2-80

[Signature]
Deputy Director - Oil & Gas Division

The undersigned 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