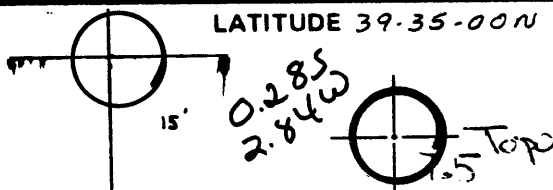


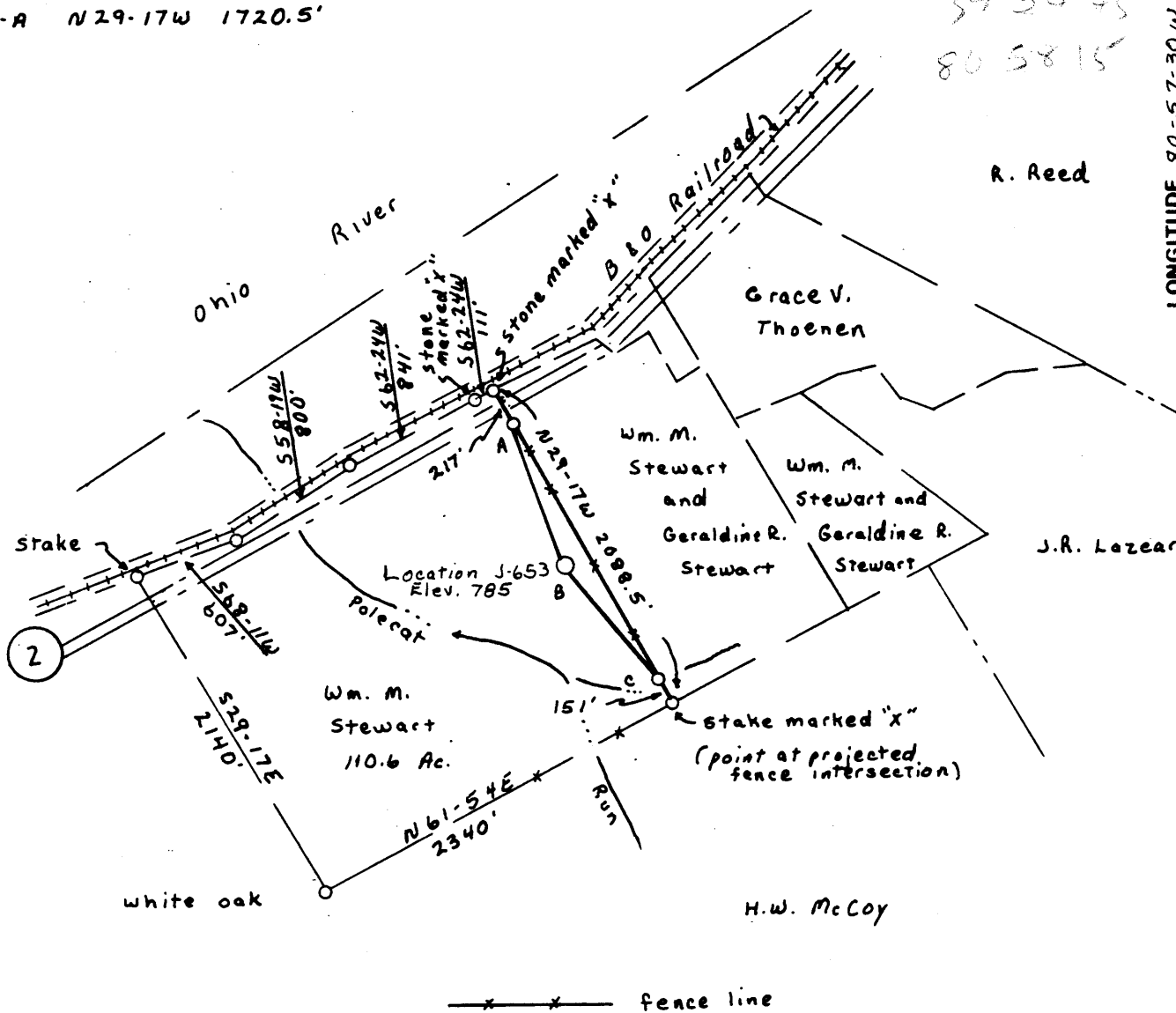
A 30" twin B.O.
 C 13" W.O on creek bank
 A-B S 21-49 E 866.5'
 B-C S 36-44 E 868.7'
 C-A N 29-17 W 1720.5'

LATITUDE 39-35-00N



39 34 45
80 58 15

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 2500
 PROVEN SOURCE OF ELEVATION Rd. junct. 1100' N of loc. ; El. 650 and Rd. junct. 1500' NW of location. El. 645

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) David L. Jackson
 R.P.E. _____ L.L.S. 708

PLACE SEAL HERE

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



DATE March 10, 1982
 OPERATOR'S WELL NO. J-653
 API WELL NO. _____
47 - 095 - 0988
 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 785 WATER SHED Palecat Run
 DISTRICT Lincoln COUNTY Tyler
 QUADRANGLE Paden City 7 1/2 min New Martinsville 15' SW
 SURFACE OWNER William M. Stewart ACREAGE 110.6
 OIL & GAS ROYALTY OWNER Joshua Russell Estate LEASE ACREAGE 316
 LEASE NO. D-23
 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 Devonian Shale ESTIMATED DEPTH 5100 6-6 SISTERSVILLE
 WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Harry L. Barnett MAR 29 1982
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48 28
3- Buckhannon, WV 26201 Buckhannon, WV 26201

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

WELL OPERATOR'S REPORT
OF
DRILLING, FRACURING AND/OR STIMULATIONS, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 780 Watershed: Ohio River
District: Lincoln County: Tyler Quadrangle: Paden City
WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT Harry 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 3/10, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Philip L. Tracy
Address Rt. 23

Alma, WV 26320
GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 2325-4200 feet
Depth of completed well, 5012 feet Rotary / Cable Tools _____
Water strata depth: Fresh, 54,286 feet; salt, None feet.
Coal seam depths: 187-91 Is coal being mined in the area? No
Work was commenced 3/12, 19 82, and completed 3/19, 19 82

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		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		829.25	829.25	200 sks.	
Coal	8 5/8	ERW	23	x		829.25	829.25	200 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		4298.15	4298.15	540 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom
									4200 3966
									3381 3101
									2558 2325

RECORDED
MAY 13 1982
OIL & GAS DIVISION
WV DEPARTMENT OF MINES

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3966-4200 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 696 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1125 psig (surface measurement) after 96 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

[08-78]

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

Devonian Shale: Perforations: 2325-2558 (39 holes)
3101-3381 (27 holes)
3966-4200 (29 holes)

*Up. Dev. undrift
Huron*

Nitrogen Frac.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Shale & sand			0	58	
Sandy shale & sand			58	78	
Sandy shale & green shale			78	92	
Red rock & sandy shale			92	138	1/4" stream @ 54'
Red rock, shale & sand			138	180	
Shale			180	187	1/2" stream @ 286'
Coal			187	191	
Sandy shale & sand			191	248	Oil odor @ 775'
Shale, sand & sandy shale			248	350	
Shale & sand			350	381	1/4" stream @ 1640'
Shale & sandy shale			381	448	
Sand, red rock and shale			448	590	Gas ck @ 1745 35/10-1" w/water 44,470 cu.ft.
Sandy shale & red rock			590	698	
Sandy shale & red rock			698	770	Oil odor @ 2190'
Sandy shale & sand			770	820	
Sandy shale and sand			820	971	Gas ck @ 2221' 12/10-1" w/water 25,087 cu.ft.
Sand & shale			971	1040	
Sand & sandy shale			1040	1320	
Sandy shale			1320	1510	Gas ck @ 2734 No show
Lime			1510	1530	
Shale			1530	1637	Gas ck @ 3244 No show
Injun Sand			1637	1712	
Sandy shale & sand			1712	1945	Gas ck @ 3725 10/10-1" w/water 23,314 cu.f.t.
Sandy shale & sand			1945	2325	
Devonian Shale			2325	4200	
Shale			4200	4343	Gas ck @ 4753 12/10-1" w/water 25,087 cu.ft.
Sandy (Benson?)			4343	4351	
Sandy shale			4351	4625	
Shale <i>DEV</i>			4625	5012	<i>Huron</i>
				TD	

*5012
2325
2687*

(Attach separate sheets as complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By

Peter Battles
Peter Battles

Its

Geologist

NOTE: Regulation 2.02(4) 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. J-653

API Well No. 47 - 095 - 0988
State County Permit

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

LOCATION: Elevation: 780 Watershed: Ohio River
District: Lincoln County: Tyler Quadrangle: Paden City

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

DESIGNATED AGENT Harry L. Barnett
Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Joshua Russell Heirs
Address C/O Grace Thoenen
600 Wells St.
Sistersville, WV 26175

COAL OPERATOR None
Address

ACREAGE 316
SURFACE OWNER William Stewart
Address Sistersville,
West Virginia 26175
Acreage 110

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Grace Thoenen
Address 600 Wells St.
Sistersville, WV 26175

FIELD SALE (IF MADE) TO:
Name Unknown
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip L. Tracy
Address Rt. # 23
Alma, WV 26320

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

RECEIVED

MAR 10 1982

**OIL AND GAS DIVISION
WV DEPARTMENT 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 9/25, 1980, to the undersigned well operator from James Doan

[If said deed, lease, or other contract has been recorded:]
Recorded on 12/12, 1980, in the office of the Clerk of the County Commission of Tyler County, West Virginia, in Deed Book 230 at page 134. A permit is requested to perform:

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 change they wish to make or are required to make in this permit 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
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator

By 
Peter Battles
Its 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, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5100 feet Rotary cable tools _____

Approximate water strata depths: Fresh, 75 feet; salt, 1000 feet.

Approximate coal seam depths: None Is coal being mined in the area: _____

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		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1100	1100	To surf.	
Coal	8 5/8	ERW	23	x		1100	1100	To surf.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5050	5050	400 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 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 part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 11-10-82

BY [Signature]

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 _____