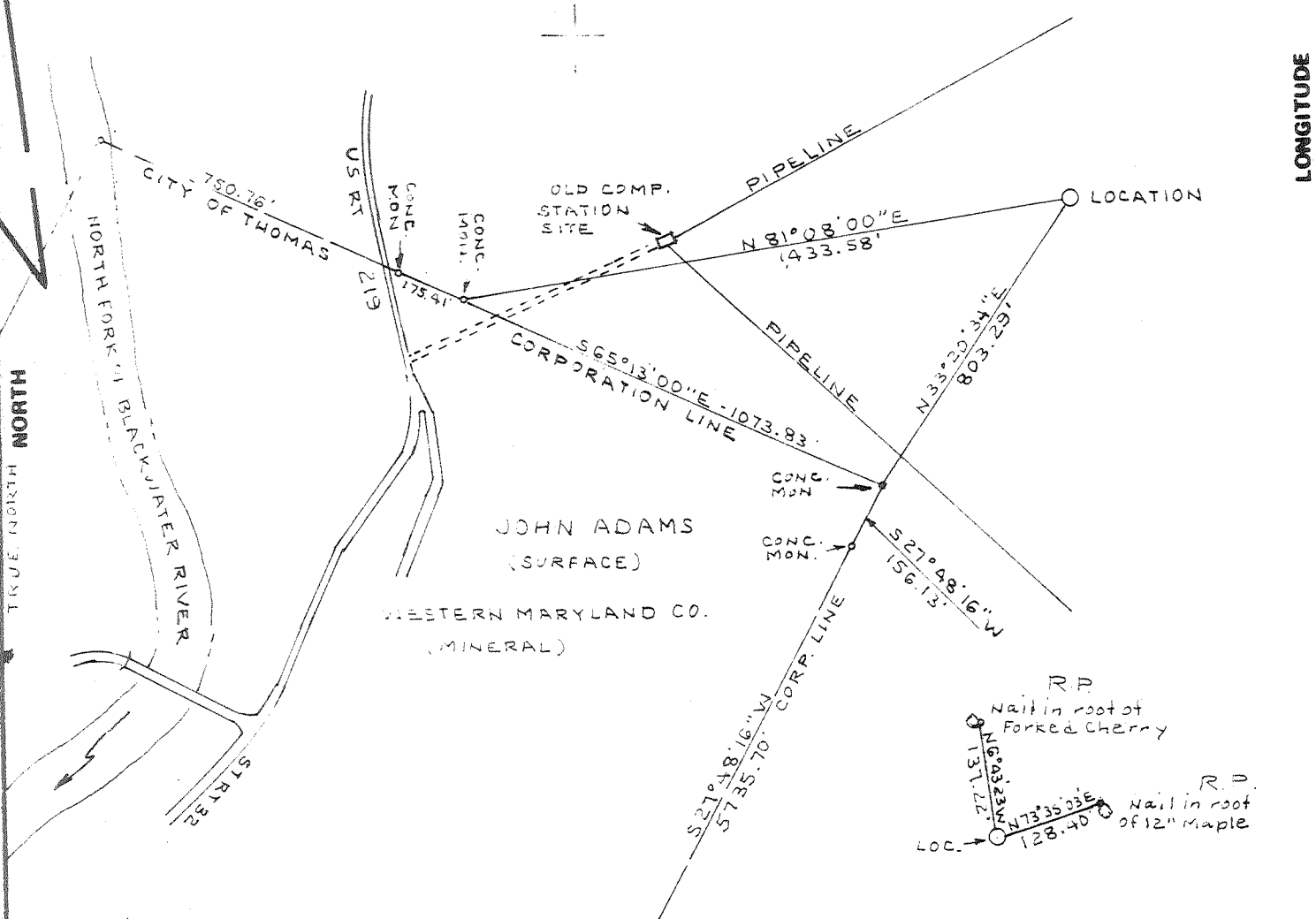


8750'

LATITUDE 39°10'00"

LONGITUDE 79°27'30"

WESTERN MARYLAND PIPE LINE



FILE NO. BK 87 PG 47
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1-5000
 PROVEN SOURCE OF ELEVATION USGS Road fork Rt 219 & 90 EL 2995

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) C. Y. Valley Jr.
 R.P.E. _____ C.S. 92

PLACE SEAL HERE

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



DATE AUG 28, 1984
 OPERATOR'S WELL NO. 2132
 API WELL NO. _____
47-093-0067-P
 STATE COUNTY PERMIT

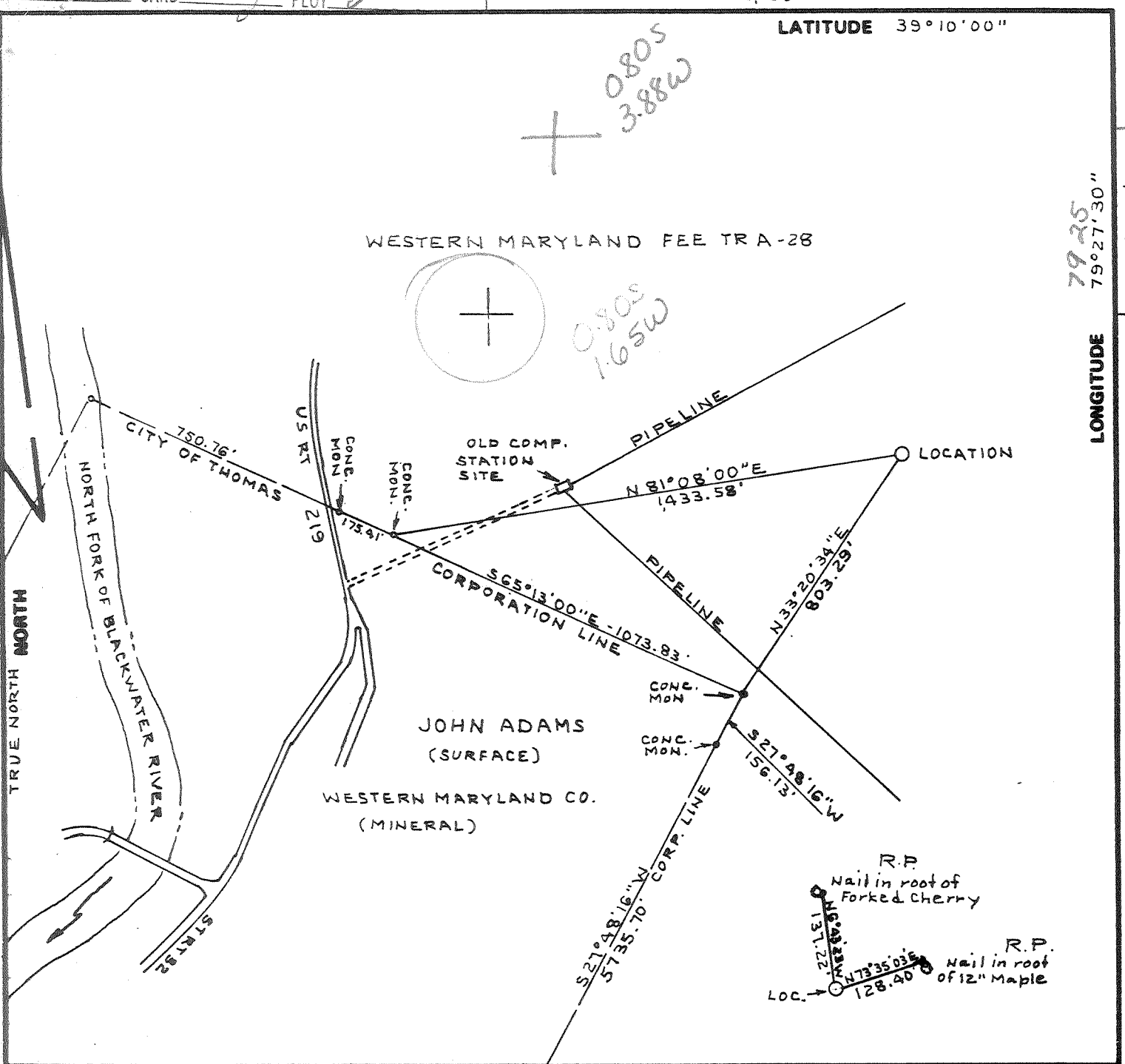
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3163.30 WATER SHED NORTH FORK OF BLACKWATER RIVER
 DISTRICT FAIRFAX COUNTY TUCKER
 QUADRANGLE DAVIS 7.5'
 SURFACE OWNER WESTERN MARYLAND COMPANY ACREAGE 3891.37 TRA-28
 OIL & GAS ROYALTY OWNER WESTERN MARYLAND COMPANY LEASE ACREAGE 56,045.90
 LEASE NO. _____
 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 ORISKANY ESTIMATED DEPTH 10,000
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT MAY 20 1985
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201

TUCKER 0067-P

WESTERN MARYLAND FEE TRA-28



LONGITUDE 79°27'30" 4275'

FILE NO. BK 87 PG 47
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1-5000
 PROVEN SOURCE OF ELEVATION USGS Road fork Rt 219 & 90 EL 2995

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) C. V. Valley Jr.
 R.P.E. _____ C.S. 92

PLACE SEAL HERE

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



DATE AUG 28, 1984
 OPERATOR'S WELL NO. 2132
 API WELL NO. _____
47-093-0067
 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 X SHALLOW ___
 LOCATION: ELEVATION 3163.30 WATERSHED NORTH FORK OF BLACKWATER RIVER
 DISTRICT FAIRFAX 5 COUNTY TUCKER
 QUADRANGLE DAVIS 7.5 314 15' 024 DC4
 SURFACE OWNER WESTERN MARYLAND COMPANY ACREAGE 3891.37 TRA-28
 OIL & GAS ROYALTY OWNER WESTERN MARYLAND COMPANY LEASE ACREAGE 56,045.90
 LEASE NO. _____
 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 ORISKANY ESTIMATED DEPTH 10,000
 WELL OPERATOR UNION DRILLING INC. DESIGNATED AGENT JOSEPH VANZANT DEC 09 1984
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201

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

NONE - Dry Hole

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Big Lime			1830	2124	Water at 52' (1/2")
Balltown			4856	4873	Coal at 222/224'
Sycamore Grit			8333	8374	269/273'
Tully Limestone			9008	9030 9040	363/366'
Purcell Limestone			9392	9420	475/479'
Lower Marcellus			9420	9483	713/717'
Onondaga Limestone			9483	9515	
Huntersville Chert			9515	9518 9618	
Oriskany Sandstone			9687 9647	9828	
Helderberg Limestone			9828	10073TD	

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By:

Joseph C. Pettey

Date: Joseph C. Pettey, Vice President of Production

05/01/85

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including those encountered in the drilling of a well."



1) Date: September 27, 19 84
 2) Operator's Well No. 2132
 3) API Well No. 47 - 093 - 0067
 State County Permit

TO BE HELD CONFIDENTIAL

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production XX / Underground storage / Deep XX / Shallow)
- 5) LOCATION: Elevation: 3163.3 Watershed: North Fork of Blackwater River
 District: Fairfax County: Tucker Quadrangle: Davis
- 6) WELL OPERATOR Union Drilling, Inc. 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address Post Office Drawer 40 Address Post Office Drawer 40
Buckhannon, WV, 26201 50550 Buckhannon, WV, 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name ~~Russell Beall~~ PHILLIP TRACY Name Union Drilling, Inc.
 Address Post Office Box 160 Address Post Office Drawer 40
Philippi, WV 26416 636-8798 Buckhannon, WV, 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate XX /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 10,000 feet
- 13) Approximate trata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No XX

15) 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	13-3/8		54	X		300'	300'	<u>CSS NEAT</u>	Kind:
Fresh water									
Coal									Size:
Intermediate	9-5/8		42 1/2	X		3500'	3500'	to surface	Depth set
Production	5-1/2 J		20	X		10000'	10000'	as required	Perforation
Tubing									To
Liners									Bottom

RECEIVED
 DEPT. OF MINES
 OIL & GAS DIVISION
 NOV 30 1984

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-093-0067 November 30, 19 84
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires November 30, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>162</u>	Agent: <u>✓</u> <u>MH</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>025.033</u>
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Margaret J. Hase
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

