

FILE NO. BK 95 P 90
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:2500'
 PROVEN SOURCE OF ELEVATION USGS BM T-265
South pier R.R. bridge over Shavers Fork El. 3624'

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. J. Alley Jr.
 R.P.E. _____ L.S. 92

PLACE SEAL HERE

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



DATE JULY 28, 1985
 OPERATOR'S WELL NO. 2192-1B
 API WELL NO. _____
47-083-1046-P
 STATE COUNTY PERMIT

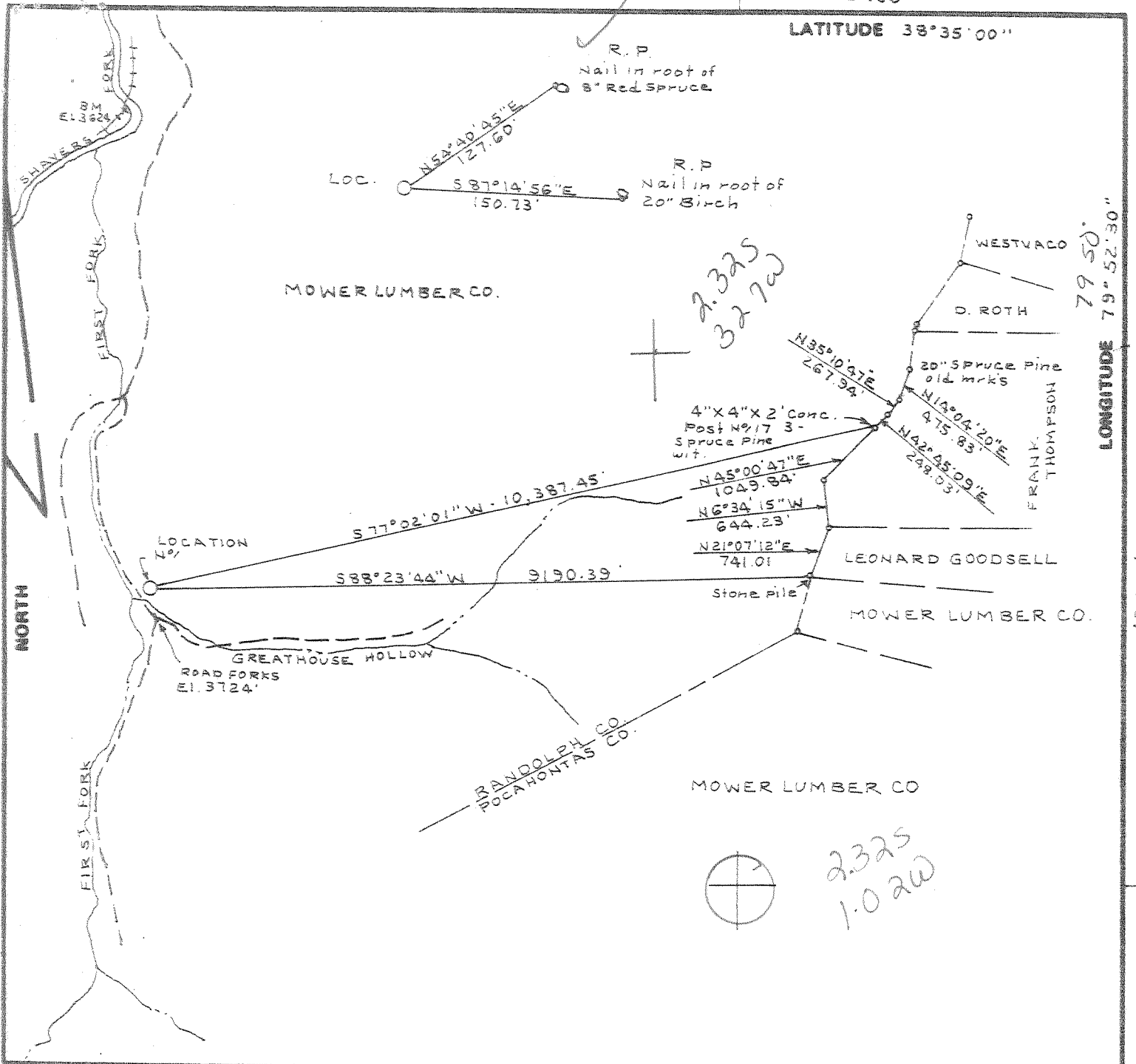
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 3743.37 WATER SHED FIRST FORK OF SHAVERS FORK
 DISTRICT MINGO COUNTY RANDOLPH
 QUADRANGLE SNYDER KNOB Durbin SC
 SURFACE OWNER MOWER LUMBER CO ACREAGE 8405
 OIL & GAS ROYALTY OWNER MOWER LUMBER CO LEASE ACREAGE 8405
 LEASE NO. AMOCO 509354
 PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 8500'
 WELL OPERATOR UNION DRILLING INC DESIGNATED AGENT JOSEPH C. PETTEY
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201

JUN 22 1987

RAND 1046-P



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(SIGNED) G. J. Jolley Jr.

R.P.E. _____ U.S. 92

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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



DATE JULY 28, 1985

OPERATOR'S WELL NO. 2192-1B

API WELL NO. 47-083-1046

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 3743.37' WATER SHED FIRST FORK OF SHAYERS FORK
DISTRICT MINGO 6 COUNTY RANDOLPH
QUADRANGLE SNYDER KNOB 614 OBS SC8

SURFACE OWNER MOWER LUMBER CO ACREAGE 8405

OIL & GAS ROYALTY OWNER MOWER LUMBER CO LEASE ACREAGE 8405
LEASE NO. AMOCO 509354

PROPOSED WORK: DRILL X 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 ORISKANY ESTIMATED DEPTH 8500'

WELL OPERATOR UNION DRILLING INC DESIGNATED AGENT JOSEPH C. PETTEY

ADDRESS PO DRAWER 40 BUCKHANNON WY 26201 893 ADDRESS PO DRAWER 40 BUCKHANNON WY 26201

SEP 09 1985



1) Date: August 1, 19 85
 2) Operator's Well No. 2192
 3) API Well No. 47 -083-1046
 State County Permit

7/85 ***TO BE HELD CONFIDENTIAL***

RECEIVED
AUG 12 1985

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

- DIVISION WELL TYPE: Oil / Gas XX
 DEPARTMENT OF ENERGY "Gas", Production XX / Underground storage / Deep XX / Shallow /
- 5) LOCATION: Elevation: 3743.37 Watershed: First Fork of Shavers Fork
 District: Mingo County: Randolph Quadrangle: Snyder Knob
- 6) WELL OPERATOR Union Drilling CODE: 50550 7) DESIGNATED AGENT Joseph C. Pettey
 Address Post Office Drawer 40 Address Post Office Drawer 40
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Phillip Tracy Name Union Drilling, Inc.
 Address Post Office Box 2536 Address Post Office Drawer 40
Elkins, WV 26241 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 475
 12) Estimated depth of completed well, 8500 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 FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13			X		30'	30'		Kinds
Fresh water									
Coal									Sizes
Intermediate	9-5/8			X		1800'	1800'	to surface	
Production	5-1/2			X		8500'	8500'	as required	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-083-1046 Date August 29 19 85

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 Note 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 August 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>13</u>	<u>MWIMW</u>		<u>34864</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

[Signature]
 Director, Division of Oil and Gas



IV-35
(Rev 8-81)

RECEIVED
JUN 03 1987

State of West Virginia
Department of Mines
Oil and Gas Division

Date June 2, 1987
Operator's
Well No. 1B - 2192
Farm Mower Lumber #1B
API No. 47 - 083 - 1046

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / DeepXX / Shallow ___ /)

LOCATION: Elevation: 3743.37' Watershed First Fork of Shavers Fork
District: Mingo County Randolph Quadrangle Snyder Knob

COMPANY Union Drilling, Inc.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
DESIGNATED AGENT Joseph C. Pettey
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201
SURFACE OWNER Mower Limited Partnership
ADDRESS P.O. Box 27, Durbin, WV 26264
MINERAL RIGHTS OWNER see back
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK
Phil Tracy ADDRESS P.O. Box 2536, Elkins, WV

PERMIT ISSUED 8/29/85 2624
DRILLING COMMENCED 12/15/86
DRILLING COMPLETED 1/12/87

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	72.00	72.00	
9 5/8	1807.00'	1807.00	826 cf
8 5/8			
7			
5 1/2		8526.32	655 cf
4 1/2			
3			
2 3/8"		8279.12	
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8342/8375 feet
Depth of completed well 8575' feet Rotary XXX / Cable Tools _____
Water strata depth: Fresh 170,407' feet; Salt none feet
Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Dry Hole Pay zone depth _____ feet
Gas: Initial open flow no show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow no show 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
(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 Oil: 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

(Continue on reverse side)

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

Halliburton - 1 stage frac - 3/25/87

8342,8343,8344,8345,8346,8347,8348,8349,8350,8351,8353,8354,8364,8365,8366,8370,8371
8372,8373,8374,8375 -

2369 gals fluid and 288,000# sand - Average Pressure: 3458#
Average Rate: 21.8 bpm

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JUN 03 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Ground level			0	10	
Shale			10	107	1/2" stream fresh water @170'
Red Rock			107	140	
Sand			140	200	
Sand & Shale			200	982	1" stream fresh water @407'
Sand			982	1021	
Fifth Sand			2183	2286	
Bayard			2297	2377	
Elizabeth			2384	2438	
Warren			2549	2585	
Speechly			2726	2844	
Balltown			3063	3072	
Bradford			3252	3277	
Riley			3599	3636	
Benson			3762	3804	
Benson Stray			3894	4018	
Alexander			4399	4407	
Lower Alexander			4621	4637	
Elk			4850	4959	
Sycamore			6705	6762	
Harrel Shale			7604	7772	
Tully Limestone			7773	7788	
Upper Marcellus			7908	7961	
Purcell			7962	7982	
Lower Marcellus			7982	8012	
Onondaga			8012	8040	
Huntersville Chert			8040	8212	
Needmore Shale			8212	8238	
Oriskany			8238	8401	
Helderberg			8401	8575' TD	Gas check @TD = no show

Coal Owners:

Mower Limited Partnership
P.O. Box 27
Durbin, WV 26264

Davis Elkins
P.O. Box 850
Elkins, WV 26241

(Attach separate sheets as necessary)

The Equitable Life Assurance
1285 Avenue of Americas
New York, NY 10019

Union Drilling, Inc.

Well Operator

By: Joseph C. Pettey
Date: Joseph C. Pettey, Vice President of Production

6/2/87

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 coal, encountered in the drilling of a well."

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

RECEIVED
JUN 22 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE. ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

Mower Limited Partnership
COAL OPERATOR OR OWNER
P.O. Box 27, Durbin, WV 26264
ADDRESS
COAL OPERATOR OR OWNER
Same as Coal Owner
ADDRESS
LEASE OR PROPERTY OWNER
ADDRESS

Union Drilling, Inc.
NAME OF WELL OPERATOR
P.O. Drawer 40, Buckhannon, WV 26201
COMPLETE ADDRESS
June 18, 19 87
WELL AND LOCATION
Mingo District
Randolph County
Well No. 1B - 2192
Mower Lumber Company #1B Farm

STATE INSPECTOR SUPERVISING PLUGGING..... Phil Tracy

AFFIDAVIT

STATE OF WEST VIRGINIA,

County of Upshur } ss:

Rich Aldridge and Joseph C. Pettey

being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Union Drilling, Inc., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 10th day of June, 19 87, and that the well was plugged and filled in the following manner:

BAND OR ZONE RECORD	FILLING MATERIAL	PLUGS USED	CASING	
			CSG PULLED	CSG LEFT IN
FORMATION		SIZE & KIND		
8575 to 8248	6% gel	13 3/8"		72.00
8248 to 8048	cement plug	9 5/8"		1807.00
8048 to 6402	6% gel	5 1/2"	6481.93	2044.39
6402 to 6202	cement plug			
6202 to 5288	6% gel			
5288 to 5188	cement plug			
5188 to 2995	6% gel			
2995 to 2895	cement plug			
2895 to 1944	6% gel			
1944 to 1844	cement plug			
1844 to 96	6% gel			
96 to 0	cement plug			
COAL SEAMS				
(NAME) none				
(NAME)				
(NAME)				
(NAME)				

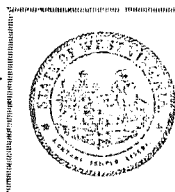
and that the work of plugging and filling said well was completed on the 12th day of June, 19 87.

And further deponents saith not.

Rich Aldridge Rich Aldridge
Joseph C. Pettey Joseph C. Pettey

Sworn to and subscribed before me this 18th day of June, 19 87.

My commission expires:
March 3, 1991



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
Bradford Zimmerman
P.O. Drawer 46, Buckhannon, WV 26201
My commission expires March 3, 1991

Notary Public.
Permit No. 47-083-1046

JUL 13 1987