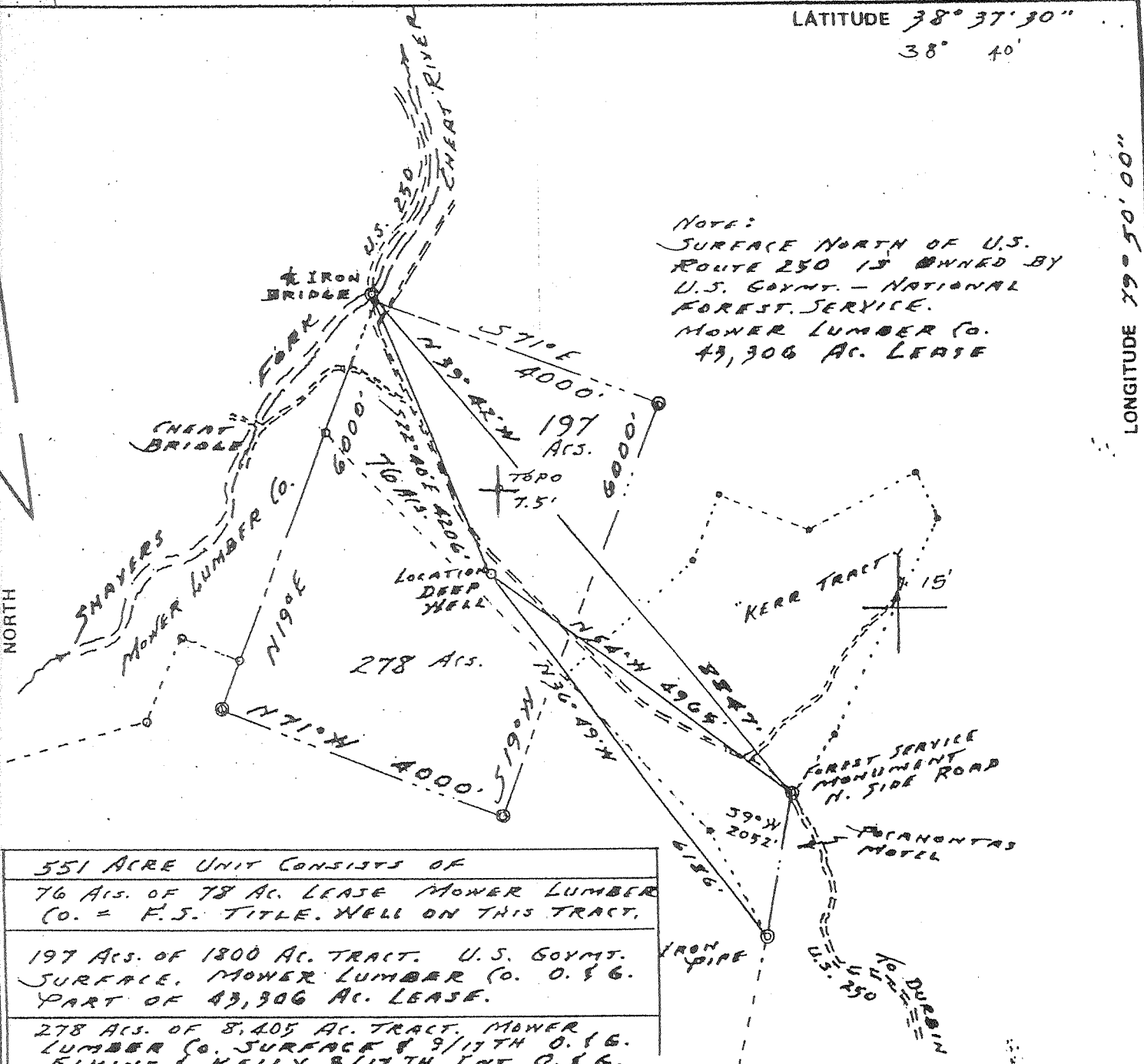


8700

LATITUDE 38° 37' 30"
38° 40'

LONGITUDE 79° 50' 00"

NOTE:
SURFACE NORTH OF U.S.
ROUTE 250 IS OWNED BY
U.S. GOVMT. - NATIONAL
FOREST SERVICE.
MOWER LUMBER CO.
43,306 AC. LEASE



551 ACRE UNIT CONSISTS OF

76 Acs. OF 78 AC. LEASE MOWER LUMBER CO. = F.S. TITLE. WELL ON THIS TRACT.

197 Acs. OF 1800 AC. TRACT. U.S. GOVMT. SURFACE. MOWER LUMBER CO. O. & G. PART OF 43,306 AC. LEASE.

278 Acs. OF 8,405 AC. TRACT. MOWER LUMBER CO. SURFACE 9/17TH O. & G. ELKINS & KELLY 8/17TH INT. O. & G.

FILE NO. UDL-2-45

DRAWING NO. 81-33

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1 IN 500

PROVEN SOURCE OF ELEVATION B.M. ON ROCK N. OF ROAD 2400' N.W. OF LOC. B.M. = 3614

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) Thomas F. Weaver, Jr.

R.P.E. _____ L.L.S. 410

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 Nov. 2, 19 51

OPERATOR'S WELL NO. 1769

API WELL NO. 82,1033

47-083-0545P

STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___

(IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___

LOCATION: ELEVATION 3720 WATER SHED SHAYERS FORK OF CHEAT RIVER

DISTRICT HUTTONSVILLE COUNTY RANDOLPH

QUADRANGLE DURBIN 7.5'

SURFACE OWNER MOWER LUMBER CO. ACREAGE 78 AC. TRACT

OIL & GAS ROYALTY OWNER MOWER LUMBER CO. LEASE ACREAGE 51,789

LEASE NO. 1506-1508 & 10,389

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 ORISKANY ESTIMATED DEPTH 8000'

WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC.

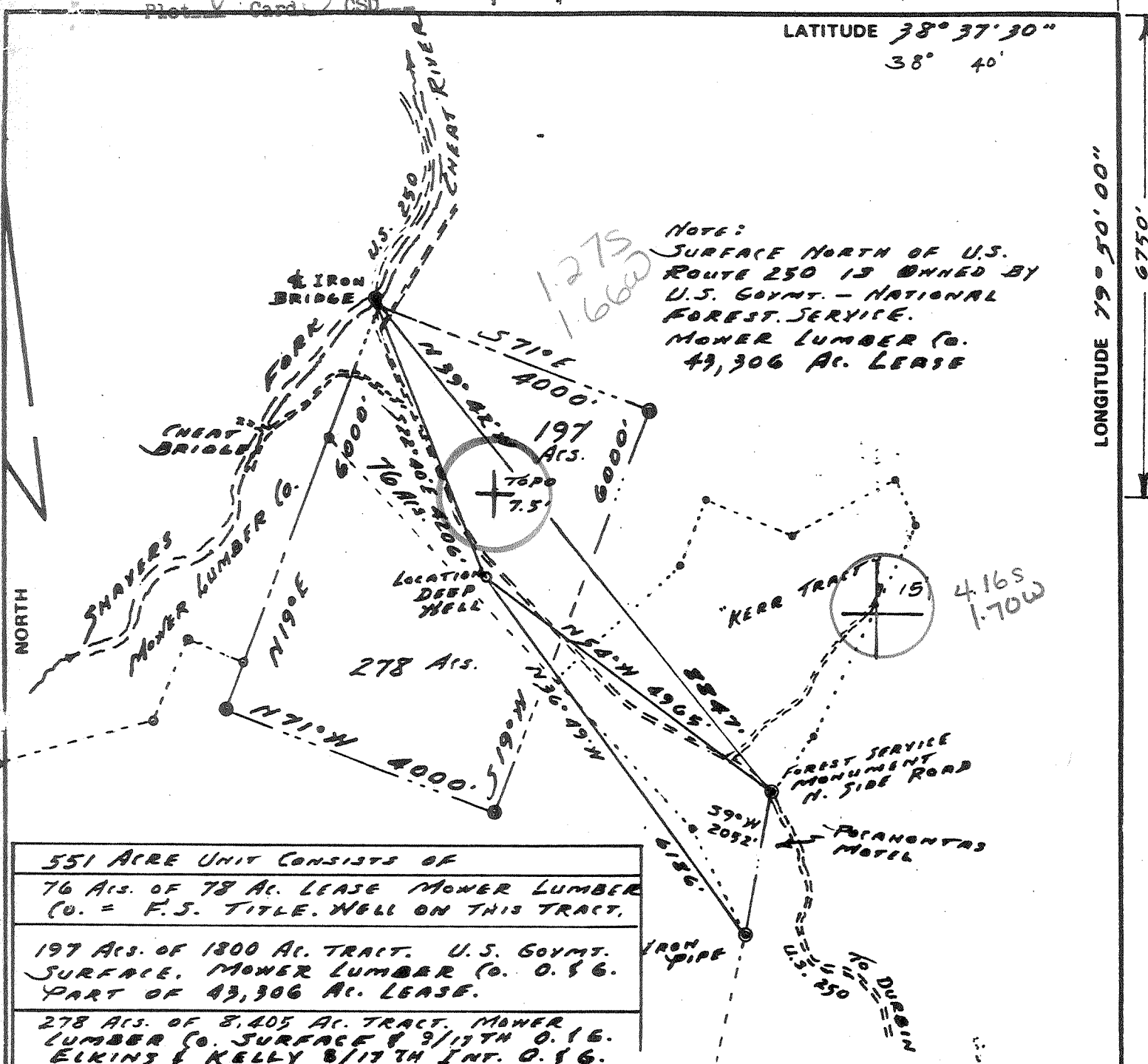
ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40

BUCKHANNON, WY. 26201 BUCKHANNON, WY. 26201

DEEP WELL

JUL 19 2002

RAN 0545P



NOTE:
SURFACE NORTH OF U.S. ROUTE 250 IS OWNED BY U.S. GOVMT. - NATIONAL FOREST SERVICE. MOWER LUMBER CO. 49,306 AC. LEASE

551 ACRE UNIT CONSISTS OF
 76 Acs. OF 78 AC. LEASE MOWER LUMBER CO. = F.S. TITLE. WELL ON THIS TRACT.
 197 Acs. OF 1800 AC. TRACT. U.S. GOVMT. SURFACE. MOWER LUMBER CO. O. & G. PART OF 49,306 AC. LEASE.
 278 Acs. OF 8,405 AC. TRACT. MOWER LUMBER CO. SURFACE 9/17TH O. & G. ELKINS & KELLY 8/17TH INT. O. & G.

FILE NO. UDL-2-45
 DRAWING NO. 81-33
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 500
 PROVEN SOURCE OF ELEVATION B.M. ON ROCK N. OF ROAD 2400' N.W. OF LOC. B.M. = 3614

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) Thomas F. Weaver, Jr.
 R.P.E. _____ L.L.S. 410

PLACE SEAL HERE

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



DATE Nov. 2, 19 81
 OPERATOR'S WELL NO. 1769
 API WELL NO. 47-083-0545
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP SHALLOW ___
 LOCATION: ELEVATION 3720 WATER SHED SHAYERS FORK OF CHEAT RIVER
 DISTRICT HUTTONSVILLE COUNTY RANDOLPH
 QUADRANGLE DURBIN 7.5' 15' C
 SURFACE OWNER MOWER LUMBER CO. ACREAGE 78 AC. TRACT
 OIL & GAS ROYALTY OWNER MOWER LUMBER CO. LEASE ACREAGE 51,789
 LEASE NO. 1506-1508 & 10,389
 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 ORISKANY ESTIMATED DEPTH 8000'
 WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC.
 ADDRESS P.O. DRAWER 40 ADDRESS P.O. DRAWER 40
BUCKHANNON, WY. 26201 BUCKHANNON, WY. 26201



IV-35
(Rev 8-81)

Date June 23, 1982
Operator's
Well No. 1- 1769
Farm Mower Lumber Co. #1 (1769
API No. 47 - 083 - 0545

JAN 10 1983

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT CONFIDENTIAL
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 3720' Watershed Shavers Fork of Cheat River
District: Huttonsville County Randolph Quadrangle Durbin

COMPANY Union Drilling Inc.
ADDRESS P O Drawer 40, Buckhannon WV 26201
DESIGNATED AGENT Union Drilling Inc.
ADDRESS P O Drawer 40, Buckhannon, WV 26201
SURFACE OWNER Mower Lumber Co.
ADDRESS P O Box 27, Durbin WV 26264
MINERAL RIGHTS OWNER Mower Lumber Co.
Mr. Thomas Clark, Agent P O Box 27, Durbin WV 26264
ADDRESS 203 Davis Ave., Elkins WV 26241
OIL AND GAS INSPECTOR FOR THIS WORK Robert
(884-7782)
Stewart ADDRESS P O Box 345, Jane Lew WV
26378
PERMIT ISSUED 11/4/81
DRILLING COMMENCED 11/9/81
DRILLING COMPLETED 12/4/81

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.	14'	14'	
13-10"	36'	36'	
9 5/8			
8 5/8	1520.95'	1520.95'	588
7			
5 1/2			
4 1/2	8452.92'	8452.92'	576
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 8000' feet
Depth of completed well 8555' feet Rotary / Cable Tools
Water strata depth: Freshat ^{Hole damp} 89' feet; Salt feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Oriskany Pay zone depth 8320- 8417.5' feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 531 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests ? hours
Static rock pressure 1550 psig (surface measurement) after 24 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 Water Fractured 2/9/82

8320.5/38.5 Oriskany 527 BBLs Water--Avg. PSI 3400#--Avg. Rate 23.4 BPM
 8352/69 Oriskany 300 sks 20/40 Sand--3000 Gal. 28% Acid--Cla Sta
 8379/17.5 Oriskany 20 Gal.
 8417.5 → Helderberg? ← 8399 → base Orisk/top Ho ld.?
 On 1/26/81--Pumped 1000 Gal. Acid 28%--2 Gal. Cla Sta--2 Gal. #C 2
 Citric Acid 20#

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red Rock & Shale			0	40'	
Sand			40'	220'	Hole Damp @ 99'
Sand & Shale & Red Rock			220'	1086'	
Sand & Shale			1086'	1240'	
Big Lime			1240'	1358'	
Big Injun			1358'	1578'	
Squaw			1578'	1674'	
Sand & Shale			1674'	2052'	
4th Sand			2052'	2147'	
Sand & Shale			2147'	2185'	
5th Sand			2185'	2271'	
Sand & Shale			2271'	2294'	
Bayard			2294'	2360'	
Sand & Shale			2360'	2371'	
Lower Bayard			2371'	2473'	
Sand & Shale			2473'	2564'	
Elizabeth			2564'	2587'	
Sand & Shale			2587'	2668'	
Warren			2668'	2775'	
Sand & Shale			2775'	2809'	
Speechly			2809'	2854'	
Sand & Shale			2854'	3019'	
Balltown			3019'	3062'	
Sand & Shale			3062'	3868'	
Benson			3868'	3989'	
Sand & Shale			3989'	4603'	
Lower Alexander			4603'	4618'	
Sand & Shale			4618'	4859'	
Elk			4859'	4914'	
Sand & Shale			4914'	7777'	
Tully			7777'	7790'	
Sand & Shale			7790'	7926'	
Marcellus			7926'	8023'	
Onondaga			8023'	8055'	
Huntersville			8055'	8206'	
Oriskany			8206'	8399'	
Helderberg			8399'	8448'	
Sand & Shale			8448'	8555' TD	Show

(Attach separate sheets as necessary)

Union Drilling Inc.

Well Operator

By: Joseph C. Pettey
 Joseph C. Pettey, Vice President of Production
 Date: June 23, 1982

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 ... encountered in the drilling of a well."


UNION DRILLING, INC.

 Drawer 40
 Buckhannon, WV 26201

 DRILLING CONTRACTORS
 PRODUCERS OF OIL AND GAS

Attachment to FORM IV-2 (Oil and Gas Well Permit Application)

 DATE: November 4, 1981

 OPERATORS WELL NO. 1 - 1769

 API WELL NO. 47 - -

(Pooling of 551 acres)

 Oil and Gas Royalty Owners: 76 acres of 78 Acre lease (Fee Simple Title)
 Mower Lumber Company
 P. O. Box 27
 Durgin, WV 26264

197 acres of 1800 acre tract, part of 43,306 Acre lease
 Mower Lumber Company

278 acres of 8,405 acre lease
 (9/17) Mower Lumber Company
 (8/17) Mr. Thomas G. Clark, Agent
 203 Davis Avenue
 Elkins, WV 26241

 Surface Ownership: 76 acres of 78 acre lease
 Mower Lumber Company (Fee Simple)

197 acres of 1800 acre tract
 U. S. Government, National Forest Service

278 of 8,405 acre tract
 Mower Lumber Company
 (The well will be on this tract)

 LEASE #1506, Dated 10/28/81 from Mower Lumber Co. to Union Drilling, Inc.
 Recorded in Randolph Co. Book 341 at Page 517 on 10/29/81. 78 A.

 LEASE #1508, Dated 10/30/81 from Mower Lumber Co. to Union Drilling, Inc.
 Recorded in Randolph Co. Book 341 at Page 669 on 11/4/81. 43,306 A.

 LEASE #10389, Dated 12/6/71 from Mower Lumber Co., et. al. to C. E. Beck
 as assigned to Union Drilling, recorded in Randolph Co.
 Book 278 at Page 58 on 7/27/72. 8,405 A.

RECEIVED

NOV - 4 1981

 OIL AND GAS DIVISION
 WV DEPARTMENT OF MINES

Date: November 4, 19 81

Operator's Well No. 1 - 1769

API Well No. 47 - 083 - 0545

State County Permit

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

Mower Lumber Co. #1 (1769)

OIL AND GAS WELL PERMIT

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

LOCATION: Elevation: 3720' Watershed: Shavers Fork of Cheat River
District: Huttonsville County: Randolph Quadrangle: Durbin

WELL OPERATOR UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

DESIGNATED AGENT UNION DRILLING, INC.
Address P. O. Drawer 40
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER SEE ATTACHED SHEET FOR SURFACE, OIL AND GAS, AND COAL OWNERSHIP
Address

COAL OPERATOR
Address

Acreage 51,789

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER
Address

Name
Address

Acreage 78 Acre Tract

Name
Address

FIELD SALE (IF MADE) TO:
Address Not Determined at this time

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Robert Stewart (884-7782)
Address P. O. Box 345
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

Lease #1506, 1508 and 10,389

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease other contract / dated , 19 , to the undersigned well operator from

(SEE ATTACHED SHEET)

(IF said deed, lease, or other contract has been recorded:)
Recorded on , 19 , in the office of the Clerk of the County Commission of Randolph County, West West, in Book at page . A permit is requested as follows:

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 objection they wish to make or are required to make 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 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
1615 WASHINGTON STREET EAST CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

UNION DRILLING, INC.

Well Operator

By Joseph C. Petty
Its Joseph C. Petty, Vice President of
Production

Sumner

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.
Address P. O. DRAWER 40
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Oriskany

Estimated depth of completed well, 8000 feet Rotary X / Cable tools _____ /
Approximate water strata depths: Fresh, ? feet; salt, ? feet.
Approximate coal seam depths: ? Is coal being mined in the area? Yes _____ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft			For drilling	Left in well			
Conductor	11 3/4"			X		60'	60'		Kinds	
Fresh Water										
Coal									Sizes	
Intermediate	8 5/8"		24#	X		1500'	1500'	to surface		
Production	4 1/2"	N80	11.60#	X			8000'	325 Sks. or	Depths set	
Tubing								as req. by rule 15.01.		
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 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 conditions 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 7-5-82.

[Signature]
Deputy Director - Oil & Gas Division

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.

WAIVER

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 _____