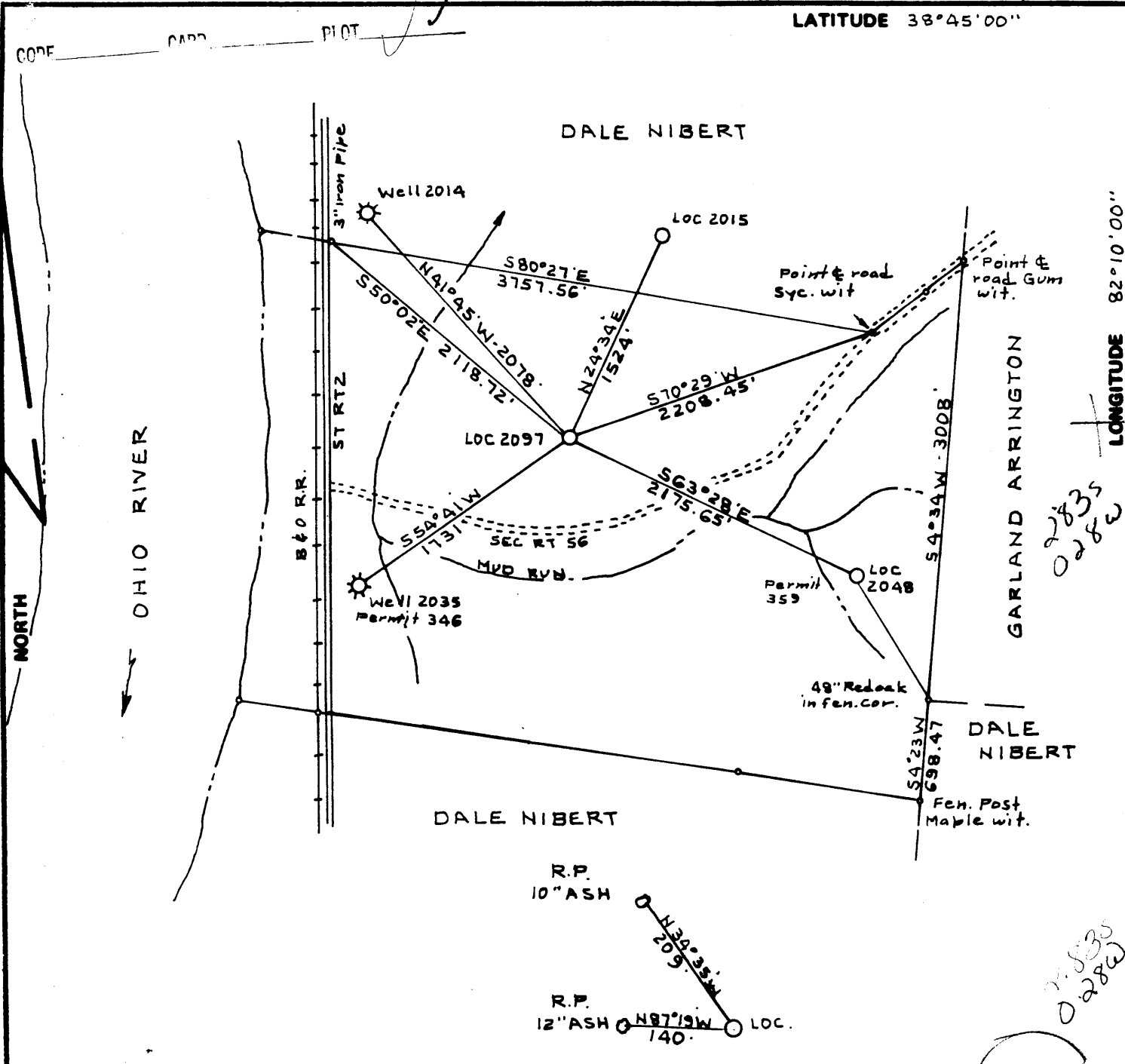
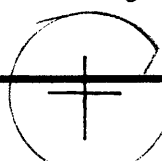


DALE NIBERT



2835
0282

2835
0282



FILE NO. BK 89 P 100
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION USGS BM-E-118
El 558.0'

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. S. 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)

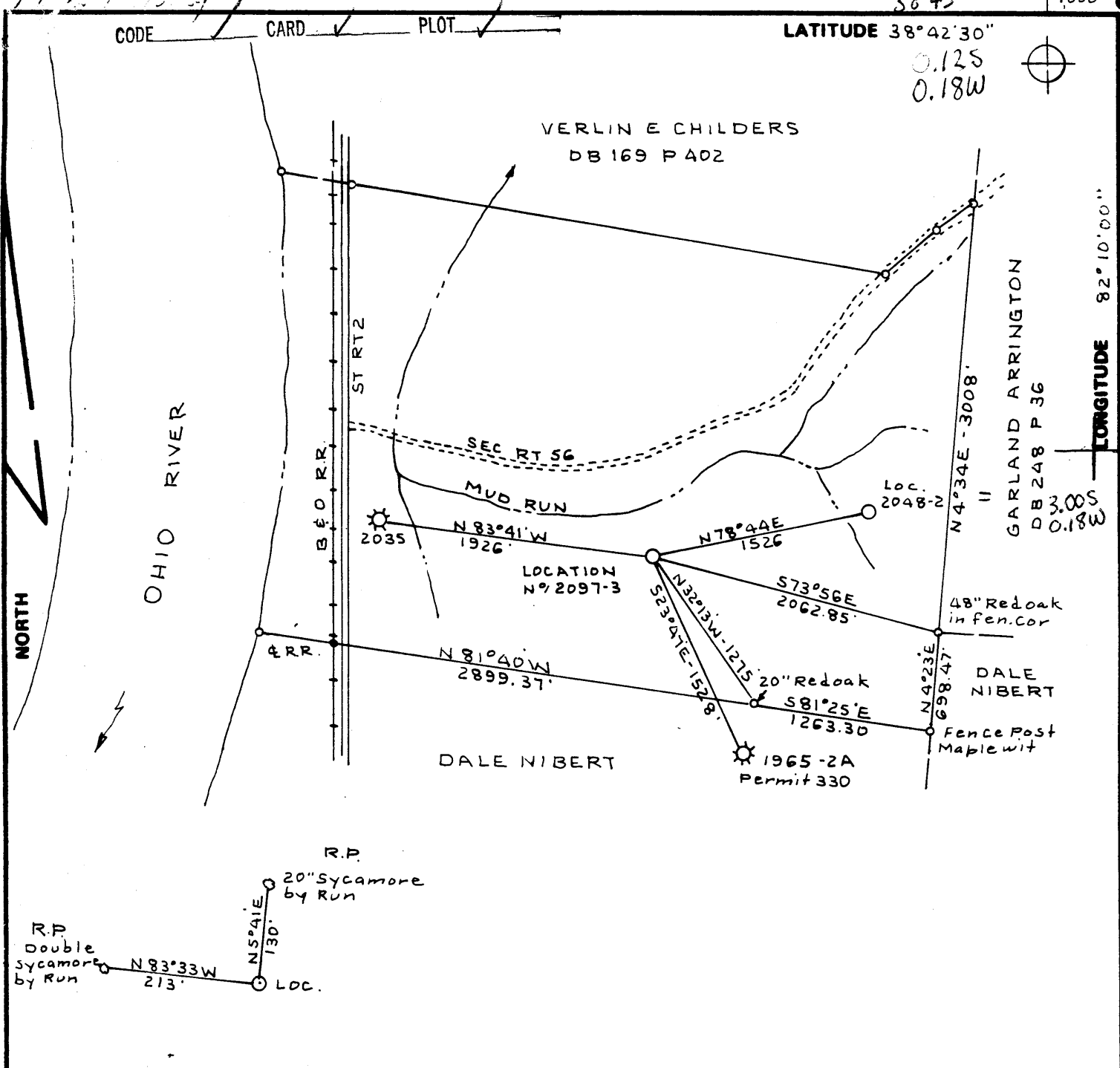


DATE OCT 23, 1984
 OPERATOR'S WELL NO. 2097-3 REV.
 API WELL NO. 47-053-0363-Rev.
 STATE COUNTY PERMIT

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 750.26 WATER SHED MUD RUN OF OHIO RIVER
 DISTRICT CLENDENIN 2 COUNTY MASON
 QUADRANGLE APPLE GROVE 7.5' 216 Glenwood 15' NW, 051
 SURFACE OWNER LEWIS ADKINS ACREAGE 343.60
 OIL & GAS ROYALTY OWNER STEVENS REALTY LEASE ACREAGE 343.60
 LEASE NO. C-2-980
 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 DEVONIAN SHALE ESTIMATED DEPTH 3500'
 WELL OPERATOR UNION DRILLING INC DESIGNATED AGENT JOSEPH VANZANT NOV 19 1984
 ADDRESS P.O. DRAWER 40 895 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201



FILE NO. BK 87 P 96
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION USGS BM E-118
EI 558.0'

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. S. Valley Jr.
 R.P.E. _____ L.C.S. 92

PLACE SEAL HERE

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



DATE SEPT 14, 1984
 OPERATOR'S WELL NO. 2097-3
 API WELL NO. _____
47-053-0363
 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 554.54 WATER SHED MUD RUN OF OHIO RIVER
 DISTRICT CLENDENIN 2 COUNTY MASON
 QUADRANGLE APPLE GROVE 216 GLENWOOD 051 NW1
 SURFACE OWNER LEWIS D. ADKINS ACREAGE 343.60
 OIL & GAS ROYALTY OWNER STEVENS REALTY LEASE ACREAGE 545
 LEASE NO. C-2-980
 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 DEVONIAN SHALE ESTIMATED DEPTH 3500'
 WELL OPERATOR UNION DRILLING INC DESIGNATED AGENT JOSEPH YANZANT
 ADDRESS P.O. DRAWER 40 893 ADDRESS P.O. DRAWER 40
BUCKHANNON WV 26201 BUCKHANNON WV 26201

OCT 22 1984

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

1/9/85 - Halliburton - 1 stage Foam Frac

2815/3128 - Upper Huron - 2,000,000 scf nitrogen, 60,000# ^{sand} scf and 190 Bbls water
Lower Huron

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	1250	1/2" stream water @48'
Big Lime			1250	1358	1/2" stream water @220'
Sand & Shale			1358	1964	1/4" stream salt water @891'
Berea			1964	1988	1" stream salt water @1228'
Top of Devonian			1988		2 1/4" stream salt water @1240'
Upper Huron			2812	2868	1" stream salt water @1445'
Lower Huron			2902	3132	
Angola Shale			3132	3374	
				3418'	TD gas show

from geolog
5-3-82

Ph@-D

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By:

Joseph C. Pettey

Date:

Joseph C. Pettey, Vice President of Production

1/23/85

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 the drilling of a well."

RECEIVED



IV-35 (Rev 8-81)

JAN 24 1985

OIL & GAS DIVISION DEPT. OF MINES

State of West Virginia Department of Mines Oil and Gas Division

Date January 15, 1985 Operator's Well No. 3 - 2097 Farm Stevens Realty #3 API No. 47 - 053 - 0363

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 / Deep / Shallow X /)

LOCATION: Elevation: 750' Watershed Mud Run of Ohio River District: Clendenin County Mason Quadrangle Apple Grove

COMPANY UNION DRILLING, INC. ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 DESIGNATED AGENT Joseph C. Vanzant, Jr. ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 SURFACE OWNER Lewis D. Adkins ADDRESS Box 156, Branchland, WV 25506 MINERAL RIGHTS OWNER Stevens Realty ADDRESS 1401 Sixth Ave, Huntington, WV 25701 OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephbock ADDRESS Rt. #1, Box 101A, Ripley, WV 25271 PERMIT ISSUED 11/9/84 DRILLING COMMENCED 12/31/84 DRILLING COMPLETED 1/4/85 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cord, 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 3500' feet Depth of completed well 3418' feet Rotary XX / Cable Tools Water strata depth: Fresh 48;220' feet; Salt 891', 1228 feet 1240', 1445' Coal seam depths: none Is coal being mined in the area? no

OPEN FLOW DATA Producing formation Upper Huron, Lower Huron Pay zone depth 3128' feet Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d Final open flow 179 Mcf/d Final open flow Bbl/d Time of open flow between initial and final tests 2 hours Static rock pressure 575# psig (surface measurement) after 48 hours shut in (If applicable due to multiple completion--)

FORM 10-100
 (Rev. 7-83)
RECEIVED

SEP 21 1984



1) Date: September 20, 19 84
 2) Operator's Well No. 2097
 3) API Well No. 47 - 053 - 0363
 State County Permit

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

OIL & GAS DIVISION
 DEPT. OF MINES

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 554.54 Watershed: Mud Run of Ohio River 013A
 District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc.
 Address Post Office Drawer 40
Buckhannon, WV 26201
- 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
 Address Post Office Drawer 40
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Jerry Tephabock
 Address Route 1, box 101-A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR:
 Name Union Drilling, Inc.
 Address Post Office Drawer 40
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 3500 feet
- 13) Approximate strata depths: Fresh, ? feet; salt, ? feet.
- 14) Approximate coal seam depths: ? Is coal being mined in the area? Yes / No
- 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	H-40	48	X		30'	30'	to surface	Kinds <u>CTS by rule</u> Sizes <u>15.05</u>
Fresh water	9-5/8	K-55	30	X		600'	600'	as required	
Coal									
Intermediate	7	K-55	23	X		1800'	800'	to surface as required	as required <u>by rule 15.01</u>
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-053-0363 Date October 10, 19 84

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 October 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>162</u>	Agent: <u>MU</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>033</u> <u>602</u>
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Margaret J. Hasse
 Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File



1) Date: October 25, 1984

2) Operator's Well No. 2097 Revised

3) API Well No. 47-053-0363-REV

State WV County Putnam
OCT 26 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil / Gas XX /
B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 750.26 Watershed: Mud Run of Ohio River
District: Clendenin County: Mason Quadrangle: Apple Grove
- 6) WELL OPERATOR Union Drilling, Inc.
Address Post Office Drawer 40
Buckhannon, WV 26201 *50550*
- 7) DESIGNATED AGENT Joseph C. Vanzant, Jr.
Address Post Office Drawer 40
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Jerry Tephabock
Address Route 1, Box 101-A
Ripley, WV 25271
- 9) DRILLING CONTRACTOR:
Name Union Drilling, Inc.
Address Post Office Drawer 40
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Rearill / Stimulate XX /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale
- 12) Estimated depth of completed well, 3500 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	H-40	48	X		30'	30'	to surface	Kinds
Fresh water	9-5/8	K-55	30	X		600'	600'	as required	<u>CLVS NEAT</u>
Coal									Sizes
Intermediate	7	K-55	23	X		1800'	800'	as required	
Production	4-1/2	J	10 1/2	X		3500'	3500'	as required	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-053-0363-REV Date November 9, 1984

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 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>100</u>	Agent: <u>TS</u>	Plat: <u>TS</u>	Casing: <u>WHL</u>	Fee: <u>23783</u>
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Margaret J. Hass
Administrator, Office of Oil and Gas