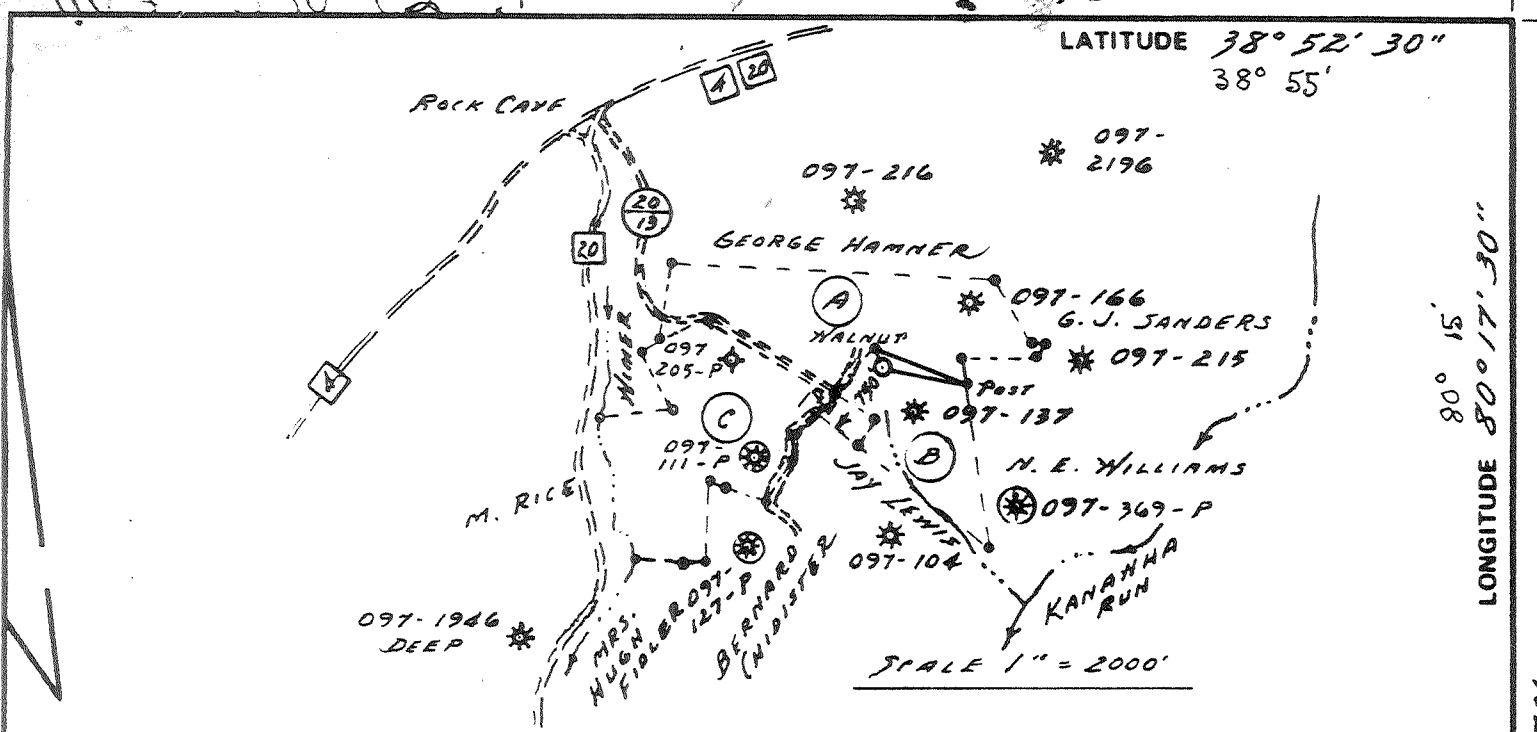
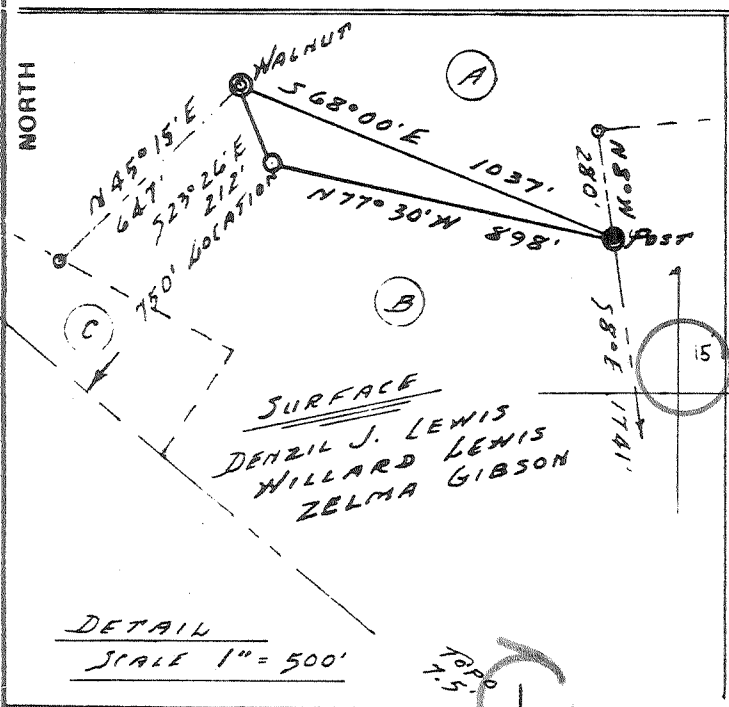


LATITUDE 38° 52' 30"
38° 55'



LONGITUDE 80° 17' 30"
80° 15'



UNIT CONSISTS OF
O. & G. OWNER

(A) ERNEST SAMPLES	81 ACRES
(B) L. F. SIMONS, HRS.	50 ACRES
(C) ROSETTA WIMER	89 ACRES
TOTAL UNIT	220 ACRES

5.685
4.260

Distance from Proposed Well # 1770 to Permit # 47-097-137 is 530' to Permit # 47-097-166 is 1043'

FILE NO. UDP-2-47
DRAWING NO. 82-6
SCALE 1" = 2000'
MINIMUM DEGREE OF ACCURACY 1 IN 500
PROVEN SOURCE OF ELEVATION WELL 097-137 EL. 1779

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 MARCH 2, 1982
OPERATOR'S WELL NO. 1770
API WELL NO. 47-097-2415
STATE 47 COUNTY 097 PERMIT 2415

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 1817 WATERSHED KANAWHA RUN OF LITTLE KANAWHA RIVER
DISTRICT BANKS COUNTY UPSHUR
QUADRANGLE ROCK CAVE 7.5' Crawford 15' EC
SURFACE OWNER DENZIL J. LEWIS, et. al. ACREAGE 50
OIL & GAS ROYALTY OWNER SAMPLES, SIMONS HRS, WIMER LEASE ACREAGE 220
LEASE NO. _____
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. APR 6 1982
ADDRESS P.O. DRAWER 40, BUCKHANNON, N.Y.A. 26201 ADDRESS P.O. DRAWER 40, BUCKHANNON, N.Y.A. 26201

RECEIVED



JUL 23 1982 State of West Virginia

OIL AND GAS DIVISION WV DEPARTMENT OF MINES
Department of Mines
Oil and Gas Division

Date June 24, 1982
Operator's
Well No. 1770-U
Farm L. F. Simons, Jr. et. al. #2
API No. 47 - 097 - 2415

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

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

LOCATION: Elevation: 1817' Watershed Kanawha Run of Little Kanawha River
District: Banks County Upshur Quadrangle Rock Cave

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 Jay Lewis, c/o Willard Lewis
ADDRESS 230 Ridgemont Road, Summersville WV 26651
MINERAL RIGHTS OWNER see attached sheet
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Stewart
(884-7782) ADDRESS P O Box 345, Jane Lew WV 26378
PERMIT ISSUED 3/8/82
DRILLING COMMENCED 3/26/82
DRILLING COMPLETED 4/9/82

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	37'	37'	
9 5/8			
8 5/8	1235.20'	1235-20'	398
7			
5 1/2			
4 1/2	7857.42'	7857.42'	498
3			
2 3/8"		7325.00'	none
Liners used			

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

GEOLOGICAL TARGET FORMATION Oriskany Depth 8000' feet
Depth of completed well 7976' feet Rotary x / Cable Tools
Water strata depth: Fresh 40' ^{Hole, damp} feet; Salt feet
Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Oriskany Pay zone depth 7363-7417' feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow Bbl/d
Final open flow 787 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests ? hours
Static rock pressure 1900# 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

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

Halliburton Water Fractured 5/10/82

7353/7417 Oriskany 655 bbl Water--Reg. H.C. Acid 4500 Gal. 750 sks Frac Sand
(500 sks 20/40, 250 sks 80/100)--Avg. Rate: 32 BPM--Avg. Press.: 2650 PS

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	10'	
Sand & Shale			10'	64'	
Sand			64'	146'	
Shale			146'	371'	
Sand & Shale			371'	432'	
Shale			432'	465'	
Sand & Shale			465'	525'	
Shale			525'	562'	
Sand & Shale			562'	722'	
Sand			722'	897'	
Sand & Shale			897'	955'	
Sand			955'	1009'	
Sand & Shale			1009'	1376'	
Little Lime			1376'	1459'	
Big Lime			1459'	1562'	
Big Injun			1562'	1657'	
Squaw			1657'	1698'	
Sand & Shale			1698'	2126'	
5th Sand			2126'	2148'	
Sand & Shale			2148'	2165'	
Bayard			2165'	2180'	
Sand & Shale			2180'	3334'	
Bradford			3334'	3351'	
Sand & Shale			3351'	3980'	
Benson			3980'	3996'	
Sand & Shale			3996'	6881'	
Tully Limestone			6881'	6942'	
Sand & Shale			6942'	7025'	
Marcellus			7025'	7080'	
Onondaga			7080'	7124'	
Huntersville			7124'	7323'	
Sand & Shale			7323'	7335'	
Oriskany			7335'	7474'	
Helderberg			7474'	7672'	
Sand & Shale			7672'	7976' TD	Show

(Attach separate sheets as necessary)

~~7976~~
~~3996~~
~~3980~~ expl. pit.
offsets up-1946
DPD

Union Drilling Inc.
Well Operator
By: Joseph C. Peffey
Joseph C. Peffey, Vice President of Production
Date: June 24, 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 coal, encountered in the drilling of a well."

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, ? (017) 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					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"			X		20'	20'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"		23#	X		1200'	1200'	to surface	
Production	4 1/2	N80	11.6#	X			8000'	as required	Depths set
Tubing								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 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 11-24-82
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.

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 _____


UNION DRILLING, INC.

 Drawer 40
 Buckhannon, WV 26201

 DRILLING CONTRACTORS
 PRODUCERS OF OIL AND GAS

Date: March 5, 1982

ATTACHMENT FOR OIL & GAS WELL PERMIT APPLICATION

Operator's Well # 1770-U

API Well No: 47- _____

RECEIVED

MAR 05 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL & GAS ROYALTY OWNERS:

A Tract: Ernest Harold Sample
 81-Acres 9403 Broad Run Road
 Fern Creek, KY 40291

Lease Dated 6/16/36, Recorded 6/23/36 in
 Upshur County in Oil and Gas Book 16X at
 Page 482 from G. W. & Belle Samples (wife).
 to C & A.

B Tract Carl F. Simons
 50 acres Box 68
 #5815 Hepzibah, WV 26369

Lease Dated 03/20/40, Recorded 03/30/40 in
 Upshur County in Oil & Gas Book 12X at
 Page 172 from L. F. & Vernie Simons (wife)
 to C & A.

Thelma McLaughlin
 124½ Grove Ave.
 Clarksburg, WV 26301

Betty Helmick
 231 McDowell Street
 Clarksburg, WV 26301

Edna Hedrick
 238 Carlton St.
 Youngstown, Ohio 44505

Danny Hyre
 130 Harrison Avenue
 Cadiz, Ohio 43907

Mardell Powers
 2314 Brokaw Road
 Columbia Station, Ohio 44028

James Hyre
 326 Silver Meadow Boulevard
 Kent, Ohio 44240

Clifford Hyre
 8025 3rd Street
 Apt. D
 Downey, CA 90241

Connie Moore
 351 South 23rd St.
 Clarksburg, WV 26301

C Tract Rosette V. Wimer (widow)
 89 Acres Rock Cave, WV
 26234

Union Drilling, Inc. Lease #416 dated
 8/31/81, recorded in Upshur County on
 9/30/81 in Oil and Gas Book 65 at page 226
 from Rosetta V. Wimer (widow).