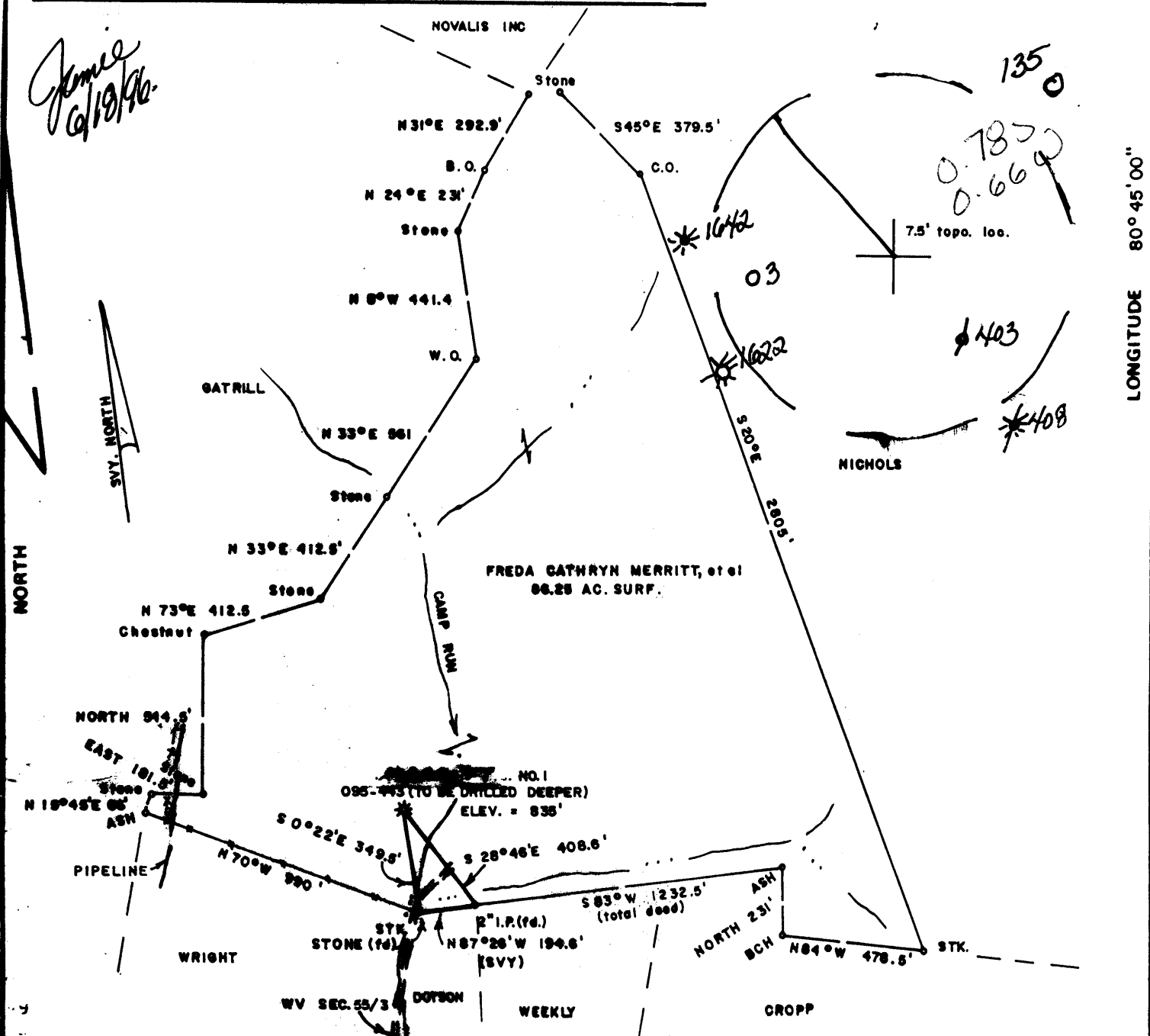


DUCKWORTH HEIRS LEASES 86.25 AC. ±

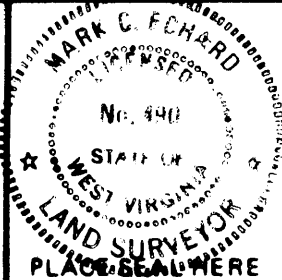
LATITUDE 39° 25' 00"

3490' W



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. WEST OF LEASE
 ELEV. = 737'

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) Mark C. Echard
 MARK C. ECHARD
 R.P.E. _____ L.L.S. 490



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



DATE SEPTEMBER 20, 19 95
 OPERATOR'S WELL NO. 095 - 443 DD
 API WELL NO. 47 - 095 - 00443D
 STATE WEST VIRGINIA COUNTY TYLER PERMIT

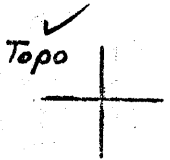
**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION**

WELL TYPE: OIL ___ GAS ✓ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ✓ STORAGE ___ DEEP ___ SHALLOW ✓
 LOCATION: ELEVATION 835' WATERSHED CAMP RUN OF McELROY CREEK
 DISTRICT McELROY COUNTY TYLER
 QUADRANGLE SHIRLEY 7.5
 SURFACE OWNER FREDA CATHRYN MERRITT, et al ACREAGE 86.25
 OIL & GAS ROYALTY OWNER DUCKWORTH HRS. LEASE ACREAGE 86.25
 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) Drill deeper well depth
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION GORDAN ESTIMATED DEPTH 3100' ±
 WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99
ALMA, W.V. 26320 ALMA, W.V. 26320

BIAS BLUEPRINT Huntington, W.V. 579536

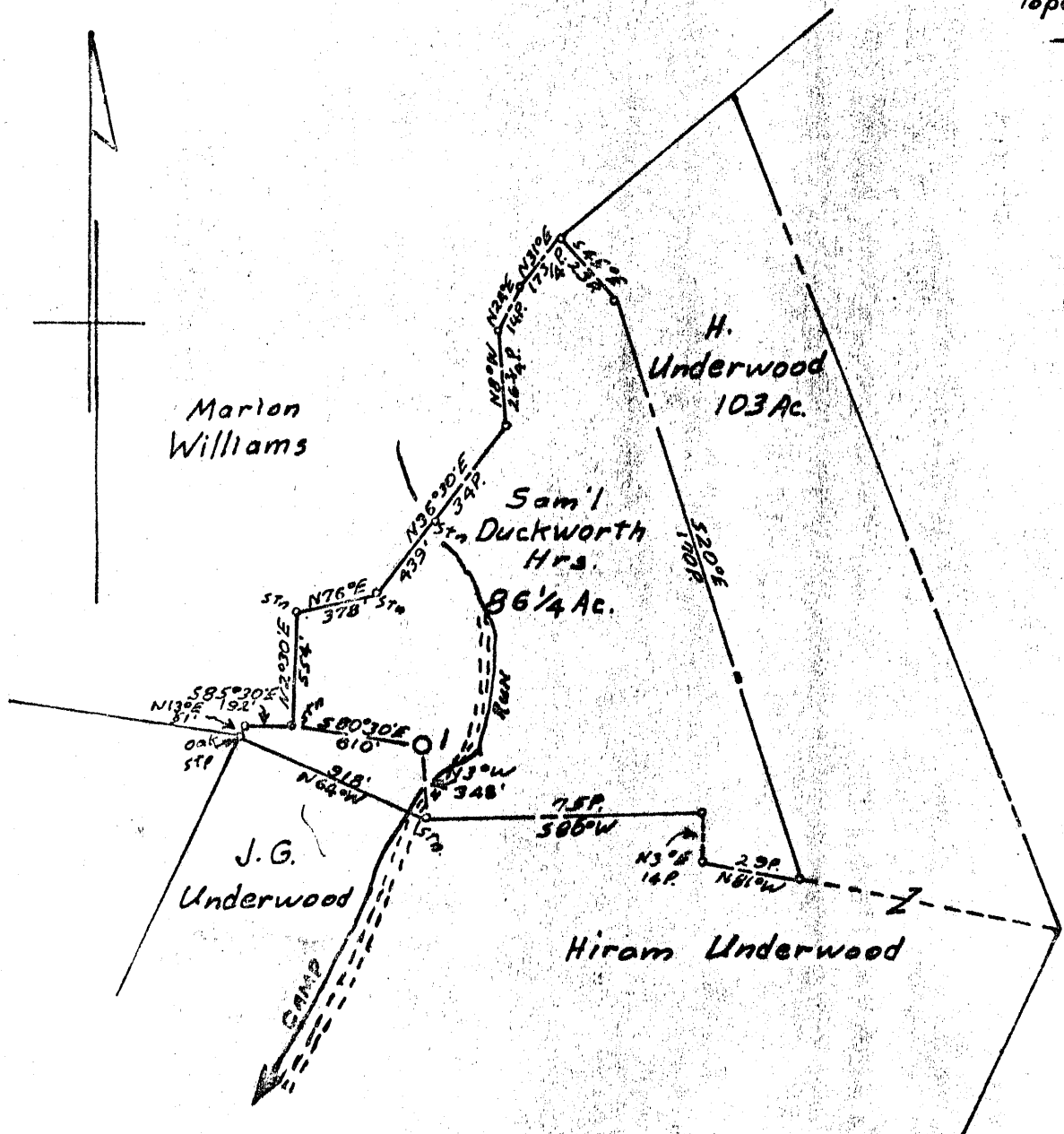
JUL 1 1995

LATITUDE 39° 25'



0.205
0.754

LONGITUDE 80° 45'



Minimum Error of Closure 1' in 200'

Source of Elevation U.S. C. & G. BM at Shirley
Elev. 733.00

- Fracture
- New Location
- Drill Deeper
- Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: Curtis A. Lucas
Squares: N S E W

Map No.

Company MUR OIL CO.
 Address WEST UNION, W.Va.
 Farm SAM'L DUCKWORTH HRS.
 Tract _____ Acres 86 1/4 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 839.89
 Quadrangle West Union EC
 County Tyler District McElroy
 Engineer Curtis A. Lucas
 Engineer's Registration No. 275
 File No. _____ Drawing No. _____
 Date July 11, 1972 Scale 1" = 800'

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

WELL LOCATION MAP

FILE NO. TYL-443

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

AUG 10 1972

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Environmental Protection

AUG 07 1996

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm Name: Merritt	Operators Well No.: #1
Location: Elevation: 839.89	Quadrangle: Shirley
District: McElroy	County: Tyler
Latitude: 4200 Feet South of	39 Deg. 25min. 0sec.
Longitude: 3900 Feet West of	80 Deg. 45 min. 00 sec.

Company: Drilling Appalachian Corp
P. O. Box 99
Alma, WV 26320

casing tubing	used in drilling	left in well	cement fill up sks
9 5/8	190	190	existing
4 1/2	1897	1897	existing
2 7/8	2681	2681	70 sks

Agent: Kenneth Mason

Inspector: Mike Underwood
 Permit Issued: 06/19/96
 Well Work Commenced: 07/01/96
 Well Work Completed: 07/15/96
 Rotary X Cable _____ Rig
 Total Depth (feet) 2753'
 Fresh Water Depths (ft) NA
 Salt Water Depths (ft) NA
 Is coal being mined in area (Y/N) N
 Coal Depths (ft): none

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1800-1908'
 Gas: Initial open flow 30 MCF/D Oil: Initial open flow 0 BBL/D
 Final open flow _____ MCF/D Final open Flow 0 BBL/D
 Static Rock Pressure 80 psig (surface pressure) after 24 Hours

Second producing formation _____* Pay zone depth (ft) ***
 Gas: Initial open flow * MCF/D Oil: Initial open flow * BBL/D
 Final open flow * MCF/D Final open flow * BBL/D
 static rock pressure _____* psig (surface pressure) after * Hours

For: Drilling Appalachian Corp.

By: Kenneth Mason

Date: 07-22-96

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Environmental Protection

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Permitting
Office of Oil & Gas

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

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Latitude: 4200 Feet South of
Longitude: 3900 Feet West of
Operators Well No.: #1
Quadrangle: Shirley
County: Tyler
39 Deg. 25min. 0sec.
80 Deg. 45 min. 00 sec.

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Final open flow * MCF/D Final open flow * BBL/D
static rock pressure * psig (surface pressure) after * Hours

For: Drilling Appalachian Corp.

By: Kenneth Mason

Date: 07-22-96

AUG 9 1996



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

Rotary
Spudder
Cable Tools
Storage

Quadrangle West Union

Permit No. TYLER-443 (API. 47-095)

WELL RECORD 5

Oil or Gas Well Oil & Gas

Company Dilmur Oil, Co.
Address West Union, W. Va. 26456
Farm SAMUEL DUCKWORTH, HRS Acres 86.4
Location (waters) Shirley, W. Va
Well No. One Elev. 839
District Mc Elroy County Tyler
The surface of tract is owned in fee by Freda Merrit
Address Shirley, W. Va
Mineral rights are owned by Samuel Duckworth, HRS
Address Shirley, W. Va
Drilling commenced Aug, 4/ 1972
Drilling completed Aug, 11, 1974
Date Shot From To
With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16	16	16	
13			
10	190	190	Size of
8 1/4	1058		
6 5/8			Depth set
5 3/16			
4 1/2	2052		
3			Perf. top 1814
2			Perf. bottom 1830
Liners Used			Perf. top
			Perf. bottom

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume SHOW Cu. Ft.
Rock Pressure Not Taken lbs. hrs.
Oil Show bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)

Attach copy of cementing record.
CASING CEMENTED 190 SIZE 10 No. Ft. 8/14/72 Date
Amount of cement used (bags) 75, Bags
Name of Service Co. Ready Cementing, Co.
COAL WAS ENCOUNTERED AT NONE FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

WELL FRACTURED (DETAILS) 683 --BBL, 22,000

Sand 500, Gal Acid

RESULT AFTER TREATMENT (Initial open Flow or bbls.)
ROCK PRESSURE AFTER TREATMENT 265, Lbs
Fresh Water Non Feet
Producing Sand Kenner

3, BBL, Oil & 80, Mcf Gas

HOURS 24, Hrs
Salt Water Feet
Depth 1814-- 1950

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil	Yellow	Soft	0	10	Water	45, Ft	
Slate	Black	''	10	25			
Lime	Grey	''	25	55			
Slate Sh	Grey	''	55	63			
Lime	Grey	Hard	63	98			
Red Rock	Red	Med	98	135			
Lime	Grey	Hard	135	155			
Red Rock	Red	Soft	155	173			
Lime	Blue	Hard	173	187			
Red Rock	Red	Soft	187	195			
Slate Shell	Blue	Hard	195	210			
Lime	White	Hard	210	218			
Slate Shell	Blue	Hard	218	250			
Sand	White	Hard	250	265			
Slate Shell	Black	Med	265	270			
Lime	Grey	Med	270	285			
Red Rock	Red	Soft	285	307			
Lime	Grey	Med	307	397			
Red Rock	Red	Med	397	402			
Lime	Grey	Hard	402	514			
Broken Lime	Grey	Med	514	555			
Sand	White	Med	555	590			
Slate	Blue	Med	590	596			
Lime	White	Hard	596	608			
Broken Lime	Blue	Med	608	645			
Red Rock	Red	Med	645	656			
Lime	Med	Blue	656	667			
Red Rock	Med	Red	667	692			
Slate Shell	Grey	Med	692	700			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock	Red	Med	700	750			
Sand	White	Med	750	790			
Slate	Black	Med	790	810			
Lime	Blue	Med	810	820			
Slate Shell	Black	Med	820	845			
Red Rock	Red	Med	845	852			
Lime, B	Grey	Med	852	875			
Slate	Black	Med	875	959			
Sand	White	Hard	959	961			
Shale	Blue	Soft	961	1012			
Red Rock	Red	Med	1012	1025			
Shale	Blue	Med	1025	1035			
Lime	White	Hard	1035	1058			
Shale	Blue	Soft	1058	1077			
Lime	White	Hard	1077	1083			
Shale	Blue	Soft	1083	1131			
Sand	White	Med	1131	1150			
Slate	Brown	Med	1150	1168			
Sand	White	Med	1168	1200			
Slate	Blue	Soft	1200	1277			
Shale	Black	Soft	1277	1302			
Sand	White	Hard	1302	1314			
Slate	Blue	Med	1314	1407			
Sand Salt	White	Med	1407	1424			
Slate	Black	Soft	1424	1604			
Sand, Maxon	White	Hard	1604	1645			
Red Rock	Red	Med	1645	1657			
Shale	Black	Hard	1657	1663			
Red Rock	Red	Med	1663	1697			
Lime, Little	White	Med	1697	1710			
Cave, Pincel	Grey	Med	1710	1730			
Blue Mondy	Blue	Med	1730	1745			
Lime, Big	White	Hard	1745	1804			
Sand, Kener	White	Hard	1804	1846			
<u>Sand, Injin</u>	Grey	Hard	1846	1985			
Slate	Black	Soft	1985	2012			
					OIL & GAS		
					TD		

1730
840
-890

Date November, 3, 1974

APPROVED DILMUR OIL COMPANY, Owner

By [Signature]
(Title) SUPT

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION ³¹¹ 14425 / 5 / 606
- Operator's Well Number: Merritt #1 3) Elevation: 835'
- Well type: (a) Oil x / or Gas x /
(b) If Gas: Production x / Underground Storage /
Deep / / Shallow x /
- Proposed Target Formation(s): 419 Gordon
- Proposed Total Depth: 2800' feet
- 7) Approximate fresh water strata depths: _____
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: _____
- 10) Does land contain coal seams tributary to active mine? Yes / / No x /
- 11) Proposed Well Work: Drill Deeper, perforate, stimulate new formation

22202

Issued 06/19/96
Expires 06/19/98

RECEIVED
WV Division of
Environmental Protection
JUN 17 1996
Permitting
Office of Oil & Gas

Drill Deeper

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		Weight per ft.	For drilling	FOOTAGE INTERVALS Left in well	CEMENT Fill-up (cu. ft.)
	Size	Grade				
Conductor	16"	Existing		16	16	<i>Existing from well record.</i>
Fresh Water						
Coal						
Intermediate	10"	Existing		190'	190'	10" CEMENTUM 75-85
Production	4 1/2"	Existing		2052'	2052'	4 1/2" CEMENTUM ?
Tubing	2-7/8"	J-55	6.5	2700	2700	95 saks <i>(OLK Mfg.)</i>
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

- 1282
- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
- Plat WW-9 WW-2B Bond Blanket (Type) Agent

JUN 17 1996

Permitting
Office of Oil & Gas

1) Date: November 2, 1995
2) Operator's well number
Merritt #1
3) API Well No: 47 - 95 - 0443-DD
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Freda Cathryn Merritt
Address Box 91
Shirley, WV 26434
 - (b) Name Gary Eisiminger
Address RD# 5, Box 166
Waynesburg PA 15370
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt 2, Box 135
Salem WV 26426
Telephone (304)- 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

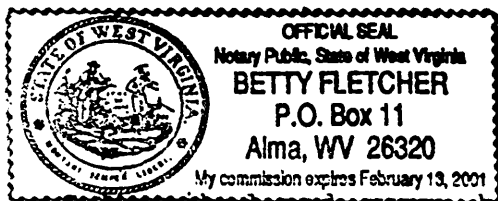
I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator Drilling Appalachian Corporation 14425
By: [Signature]
Its: President
Address PO Box 99
Alma WV 26320
Telephone 304-758-4638

subscribed and sworn before me this 2nd day of November, 1995

[Signature] Notary Public

My commission expires February 13, 2001



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 31 1972

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner Freda C. Merritt
Address Shirley, West Virginia
Mineral Owner Samuel Duckworth Hrs.
Address Freda Merritt Agent
Coal Owner Above
Address "
Coal Operator None
Address _____

DATE 15 July 1972
Company Dilmur Oil Co.
Address Star Rt. West Ujion, West Virginia
Farm Samuel Duckworth Acres 86 1/4
Location (waters) Camp Run
Well No. 1 Elevation 839
District McElroy County Tyler
Quadrangle West Union

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions 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 12-1-72.

Robert L. Todd
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Arthur Hall
Charleston, W. Va. PH: 775-5611

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated 24 July 1971 by Freda C. Merritt made to Dilmur Oil Co. and recorded on the 28 day of July 1971 in Tyler County, Book 158 Page 348

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, J. M. Dillards Pres.
(Sign Name) Dilmur Oil Co.
Well Operator

Address Star Rt.
of West Union
Well Operator West Union
City or Town
West Virginia
State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

TYL-443

BLANKET BOND

PERMIT NUMBER

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Dilmur Oil Co. NAME R. C. Anderson
 ADDRESS Star Rt. West Union, West Virginia ADDRESS RT. 2 Box 80 W st Union, W st Va
 TELEPHONE 304-758-4856 TELEPHONE 758-4876
 ESTIMATED DEPTH OF COMPLETED WELL: 2000' ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: Big Injun
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	200'	200'	Fill Up
9 - 5/8			
8 - 5/8	1100'	-	
7			
5 1/2	2000'		
4 1/2		2000'	
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150) FEET _____ SALT WATER 960 FEET _____
 APPROXIMATE COAL DEPTHS N/A _____
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title