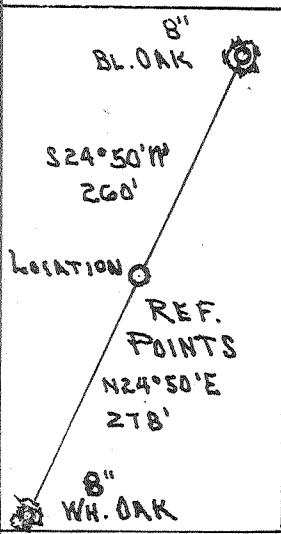
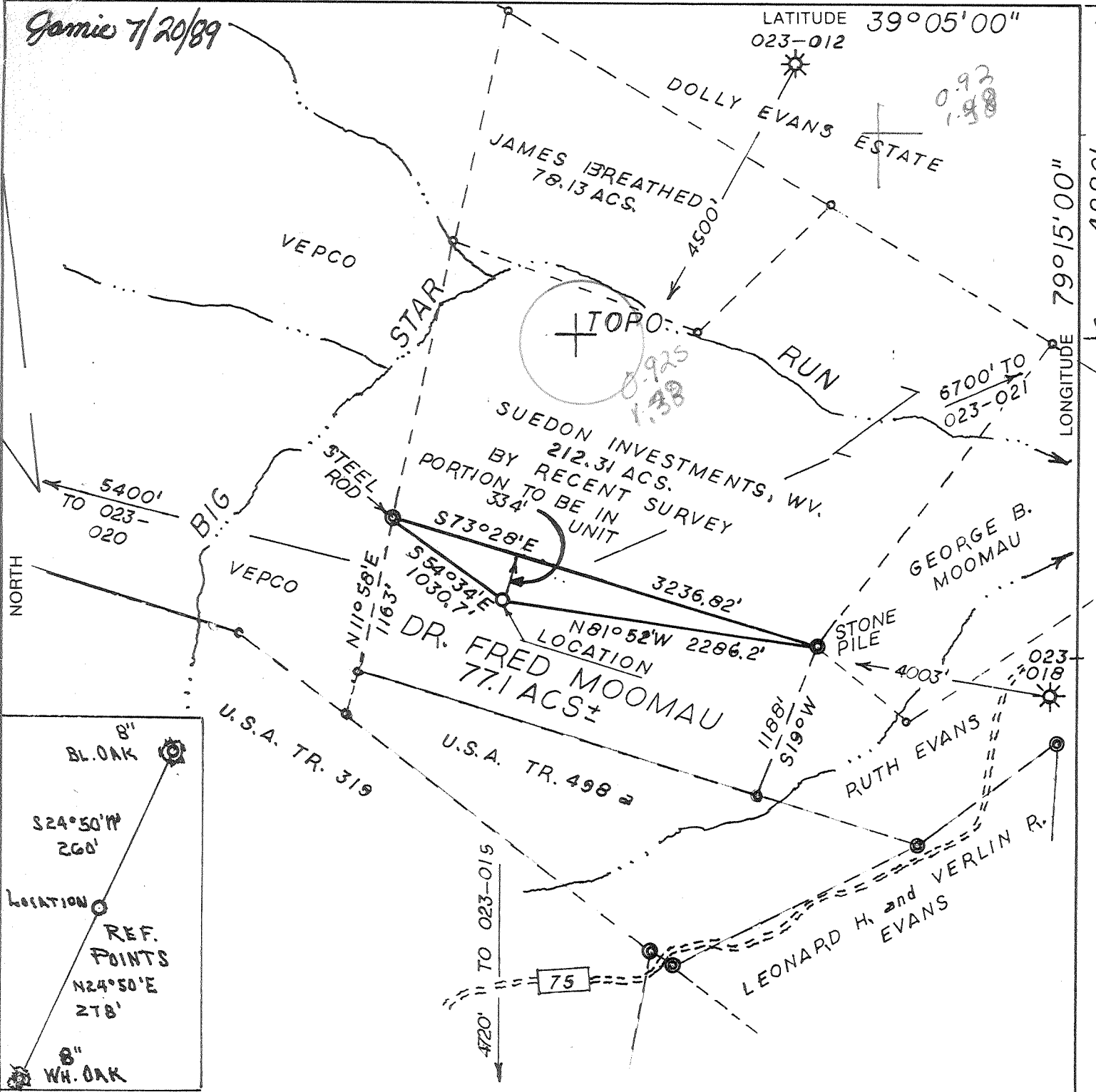


Gamic 7/20/89

7300' LATITUDE 39°05'00" 023-012

LONGITUDE 79°15'00" 4880'



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

FILE NO. 5-2
 DRAWING NO. 89-1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION B.M. S. SIDE ROAD 2900' S. E. OF LOCATION

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE APRIL 19, 1989
 OPERATOR'S WELL NO. WVG02569
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2760 WATERSHED BIG STAR RUN
 DISTRICT UNION 3 COUNTY GRANT
 QUADRANGLE BLACKBIRD KNOB 255 634a Davis SE
 SURFACE OWNER DR. FRED MOOMAU ACREAGE 77.1
 OIL & GAS ROYALTY OWNER DR. FRED MOOMAU LEASE ACREAGE 77
 LEASE NO. 497291 L

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 EQUITABLE RESOURCES EX. DESIGNATED AGENT DOUGLAS P. TERRY
 ADDRESS P.O. DRAWER 40, BUCKHANNON WV. ADDRESS P.O. DRAWER 40, BUCKHANNON, WV.
26201 1800 26201

COUNTY NAME GRANT PERMIT

DEEP WELL 6-1/2 Jordan Run (330)

FORM WW-6 H.T. HALL 48673

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: MOOMAU, FREDERICK DR. Operator Well No.: WVG02569

LOCATION: Elevation: 2760.00 Quadrangle: BLACKBIRD KNOB

District: UNION County: GRANT
Latitude: 4880 Feet South of 39 Deg. 5 Min. 0 Sec.
Longitude 7300 Feet West of 79 Deg. 15 Min. 0 Sec.

Company: EQUITABLE RESOURCES EXP.
P. O. DRAWER 40
BUCKHANNON, WV 26201-0040

Agent: DOUGLAS P. TERRY

Inspector: PHILLIP TRACY
Permit Issued: 07/26/89
Well work Commenced: 9/6/89
Well work Completed: 10/6/89
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 8864
Fresh water depths (ft) 78

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	42.20	42.20	
9 5/8"	2822.05	2822.05	1395 CF
5 1/2"	8832.70	8832.70	622 CF
2 3/8"	8563	8563	

OPEN FLOW DATA

Producing formation Oriskany 2012/2/89 Pay zone depth (ft) 8654
Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 6,519 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 1/2 Hours
Static rock Pressure 1300 psig (surface pressure) after 48 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
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Douglas P. Terry
For: EQUITABLE RESOURCES EXP.

By: Douglas P. Terry, Operations Manager, North
Date: November 29, 1989

RTTS Packer at 8570' (not set)

Perforations: 8599-8654', Oriskany Formation

Breakdown and acidize with 2000 gals. 5% Fe Acid.

Devonian Sand & Shales	0 to 8199
Upper Marcellus	8200
Purcell Limestone	8222
Lower Marcellus	8314
Needmore Shale	8374
Oriskany	8485
Helderberg Limestone	8690

70 8864

Page 7

RECEIVED
JUL 19 1989

023-0024
Issued 7/26/89 Expires 7/26/91

FORM WW-2B

Page 3 of 12

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
DEPARTMENT OF ENERGY PERMIT APPLICATION

16155 (3) 255

- 1) Well Operator: Equitable Resources Exploration, a division of Equitable Resources Energy Company
- 2) Operator's Well Number: WVG02569 3) Elevation: 2760
- 4) Well type: (a) Oil or Gas
 - (b) If Gas: Production / Underground Storage
 - Deep / Shallow
- 5) Proposed Target Formation(s): Oriskany
- 6) Proposed Total Depth: 9500 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
- 11) Proposed Well Work: Drill/Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	13 3/8			30'	30'	
Fresh Water						
Coal						
Intermediate	9 5/8			2800'	2800'	← 38' 5" 10-11.3 38' 5" 10-11.2 to surface
Production	5 1/2			8900'	8900'	← 38' 5" 10-11.1 as required
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

761
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket Sure Agent
 (Type)

5.70.5

Page 1 of 12
Form WW2-A
(09/87)
File Copy

RECEIVED
JUL 19 1989
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 1) Date: July 17, 1989
- 2) Operator's well number WVG02569
- 3) API Well No: 47 - 023 - 0024
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Dr. Frederick Moomau
Address P. O. Box 6414
Silver Springs, MD 20906
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Dr. Frederick Moomau
Address P. O. Box 6414
Silver Springs, MD 20906
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name None
Address _____
- 6) Inspector Phillip Tracy
Address P. O. Box 2536
Elkins, WV 26241
Telephone (304)-636-8798

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
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 12 on the above named parties, by:

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

I have read and understand Chapter 22B 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 Equitable Resources Exploration, a division
 By: Douglas P. Jones of Equitable Resources Energy Company
 Its: Operations Manager - North
 Address P. O. Drawer 40
Buckhannon, WV 26201
 Telephone (304)472-4610

Subscribed and sworn before me this 17th day of July, 19 89

Mary Jean Rylands Commissioned as Mary Jean Harper Notary Public
 My commission expires February 19, 1992