

Jamie 6/29/88

8090'

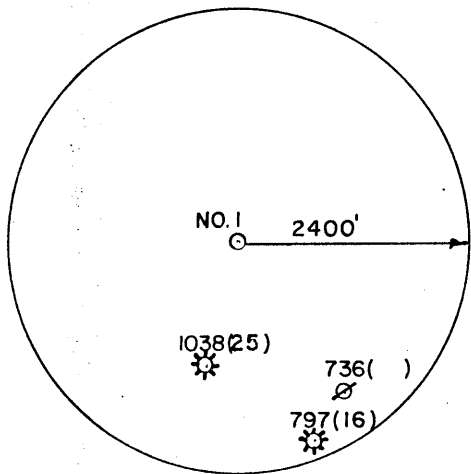
LATITUDE 39-25-00

HENDERSON LEASE WELL NO. 1

LONGITUDE 81-27-30

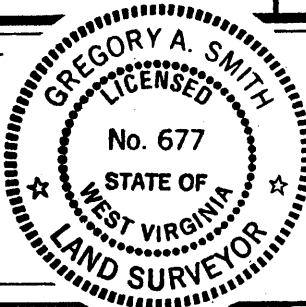
NORTH

190 ACRES TOTAL±



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.

L.L.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 1, 19 88
 OPERATORS WELL NO. HENDERSON HRS. NO. 1
 API WELL NO. 47 - 107 - 1435
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1856 (24-57)
 SCALE 1" = 500'
 PROVEN SOURCE OF ELEVATION WELL NO. 47-107-1038 ELEV.=606

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 605' WATERSHED OHIO RIVER QUADRANGLE MARIETTA OH. 7.5
 DISTRICT WILLIAMS 0 COUNTY WOOD ACREAGE 90
 SURFACE OWNER MICHAEL B. ROLSTON ET AL. LEASE ACREAGE 90 OF 190
 ROYALTY OWNER MICHAEL B. ROLSTON ET AL. LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BEREAUL 1 ESTIMATED DEPTH 1950'

WELL OPERATOR BLAUSER WELL SERVICE, INC. DESIGNATED AGENT STANLEY K. WILSON
 ADDRESS P.O. BOX 829 MARIETTA, OH. 45750 ADDRESS RT. 1 BOX 116 BIG SPRINGS, WV. 26137

COUNTY NAME PERMIT

575

95

WE-35
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 SEP 12 1988

29-Jun-88
 API # 47-107-01435

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: ROLSTON, MICHAEL B. Operator Well No.: HENDERSON 1

LOCATION: Elevation: 605.00 Quadrangle: MARIETTA

District: WILLIAMS County: WOOD
 Latitude: 13550 Feet South of 39 Des. 25Min. 0 Sec.
 Longitude: 8090 Feet West of 81 Des. 27 Min. 30 Sec.

Company: BLAUSER, DENNIS D., WELL
 704 PIKE STREET, P.O. BOX 8291
 MARIETTA, OH

Agent: STANLEY K. WILSON

Inspector: GLEN P. ROBINSON
 Permit Issued: 06/29/88
 Well work Commenced: 7/06/88
 Well work Completed: 7/26/88
 Verbal Flushing
 Permission granted on:
 Rotary Cable Ris
 Total Depth (feet): 1979'
 Fresh water depths (ft) 45' - 120'
 Salt water depths (ft) 1300' - 1470'
 Is coal being mined in area (Y/N)? N
 Coal Depths (ft): n/a

Size	Used in	Left	Cement
	Tubing	Drillings	Fill Up
		in Well	Cu. Ft.
16"	70.2'	70.2'	n/a
11 3/4"	95'	95'	surface
8 5/8"	280'	280'	surface
4 1/2"	1934'	1934'	cement to 600'

OPEN FLOW DATA

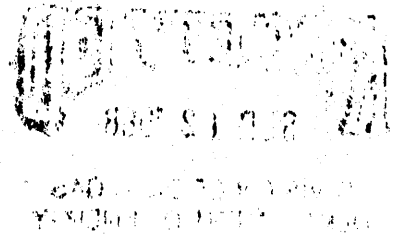
Producing formation Berea Pay zone depth (ft) 1850'
 Gas: Initial open flow 105 MCF/d Oil: Initial open flow 2 Bbl/d
 Final open flow 105 MCF/d Final open flow 2 Bbl/d
 Time of open flow between initial and final tests 48 Hours
 Static rock Pressure 900 psig (surface pressure) after 48 Hours

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.

Aaron M. Huck, Secretary/Treasurer
 For: BLAUSER, DENNIS D., WELL SERVICES, INC.

By: *Aaron M. Huck*
 Date: 9/7/88 SEP 19 1988



Well was perforated @ 1848 - 1852' using .39/diameter strip jet @ 4 shots/ft.
Total 17' shots.

Well was Hydraulic fractured with 37,200 gal. gelled water and 50,000 12/20 mesh sand.

Formation broke @ 1600 psi and treated @ 1700 psi.

Soil & Sand	0 - 40'	
River Sand	40 - 50'	water
River Gravel	50 - 68'	water
Red Rock	70 - 95'	
Gray Rock	95 - 105'	
Red Rock	105 - 120'	
Sand	120 - 130'	water
Red Rock	130 - 200'	
Red & Gray	200 - 300'	
Sand & Shale	300 - 450'	
Shale	450 - 700'	
First Cow Run	700 - 850'	
Shale	850 - 880'	
Second Cow Run	880 - 950'	
Shale	950 - 980'	
Sand	980 - 990'	
Sand & Shale	990 - 1055'	
Sand	1055 - 1130'	
Shale	1130 - 1290'	
Salt Sand	1290 - 1310'	saltwater
Shale	1310 - 1372'	
Big Injun Sand	1372 - 1470'	
Shale	1470 - 1820'	
Coffee Shale	1820 - 1850'	
<u>Berea Sand</u>	1850 - 1854'	oil and gas
Shale	1854 - 1979'	TD

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

7304

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

- 0095
- 1) Well Operator: Blausser Well Service, Inc. (Op. Code 6000), 0, 458
 - 2) Operator's Well Number: Henderson No. 1 3) Elevation: 605'
 - 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
 - 5) Proposed Target Formation(s): Berea 395
 - 6) Proposed Total Depth: 1950' feet
 - 7) Approximate fresh water strata depths: 50' 250"
 - 8) *From Wood 254, 546, 1038* Approximate salt water depths: 900'
 - 9) Approximate coal seam depths: N/A
 - 10) Does land contain coal seams tributary to active mine? Yes / No /
 - 11) Proposed Well Work: Drill & Stimulate
 - 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor				<u>280'</u>	<u>280'</u>	
Fresh Water	8 5/8	H-40	20	250'	250'	CTS or 38 CSR 18-11.3
Coal						
Intermediate						
Production	4 1/2	J-55	9 1/2	1950'	1950'	CTS or 33 CSR 18-11.1
Tubing						
Liners						

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PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only *Casing OK*

Fee(s) paid: 19 Well Work Permit 19 Reclamation Fund 19 WPCP 19
 Plat 19 WW-9 19 WW-2B 19 Bond Single well bond Agent 19
 (Type)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: June 2, 1988
Operator's well number
Henderson No. 1
API Well No: 47 - 107 - 1435
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 Michael B. Rolston - Power of Attorney
Address Henderson Hall
Williamstown, WV 26187
 - (b) Name Sandra Henderson Bauske
Address 10429 S. Millard
Chicago, IL 60655
 - (c) Name Dorothy Henderson
Address 7633 Pinesview Dr.
Scottsdale, AZ 85258
- 5) (a) Coal Operator:
Name N/A
Address _____

 (b) Coal Owner(s) with Declaration
Name N/A
Address _____
Name _____
Address _____

 (c) Coal Lessee with Declaration
Name N/A
Address _____
- 6) Inspector Glen P. Robinson
Address Rt. 1, #6 Mt. Pleasant Estate
Mineralwells, WV 26150
Telephone (304)-489-9162

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 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 7 on the above named parties, by:
 Personal Service (~~Affidavit attached~~) Signatures attached
 _____ 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 ~~denial of~~ denial of ~~environment.~~
 Well Operator Dennis D. Blausner
 By: Blausner Well Service, Inc.
David M. Fuch
 Its: Secretary/Treasurer
 Address P.O. Box 829
Marietta, OH 45750
 Telephone (614) 373-6305

Subscribed and sworn before me this 3rd day of June, 1988

Marilyn S. Lang Zoller Notary Public
My commission expires April 18, 1990