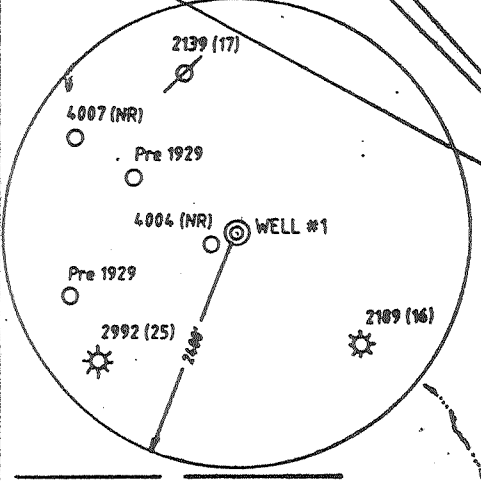
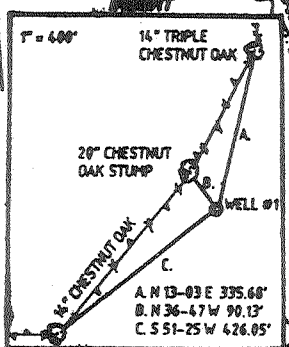
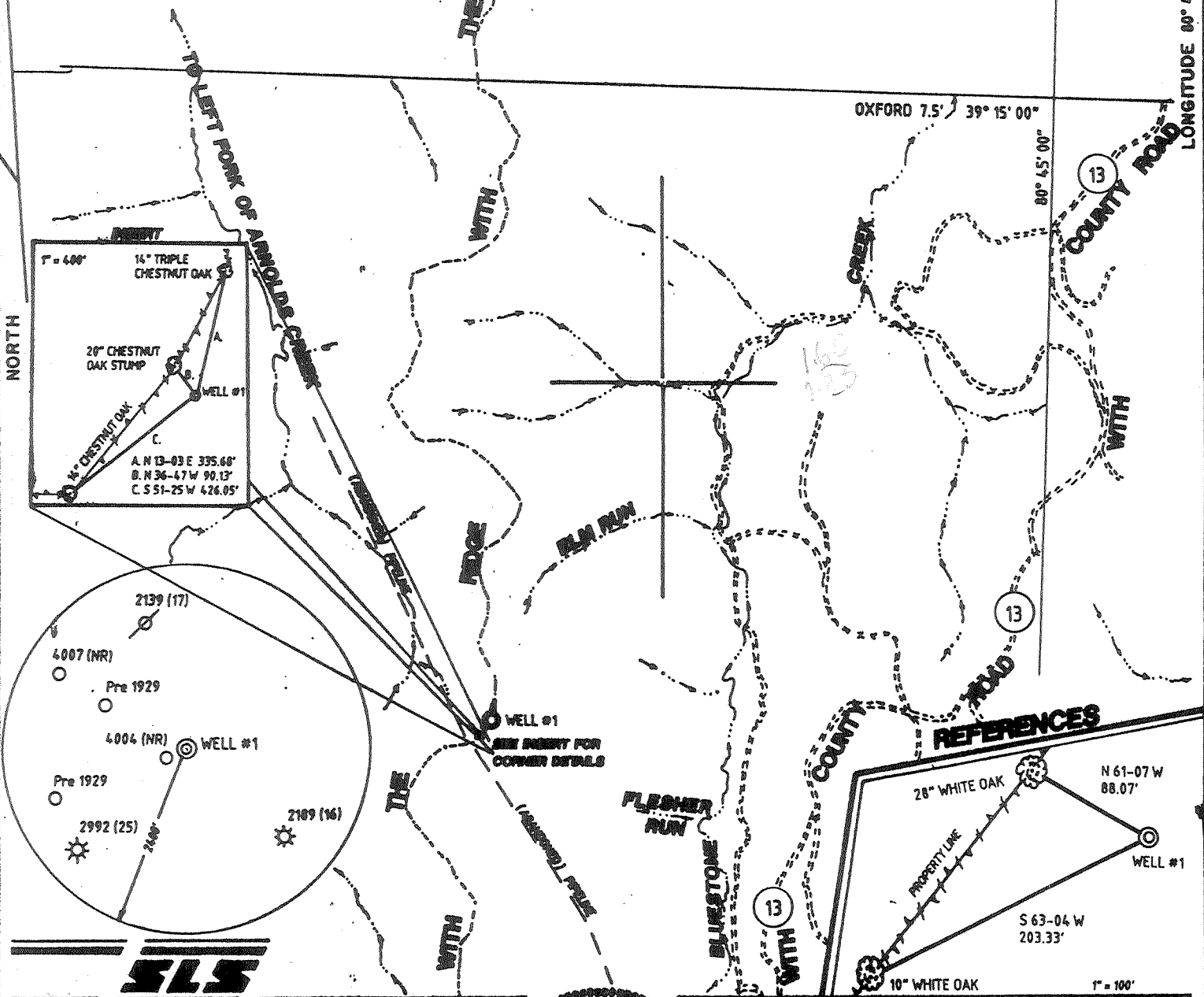


*Small*  
*10/5/93*

# HENDERSON LEASE 1567.64 ACRES± BLUESTONE WELL #1

CHARLES P. HEASTER ET AL.



OXFORD 7.5' 39° 15' 00"

13

13

REFERENCES

N 61-07 W 88.07'

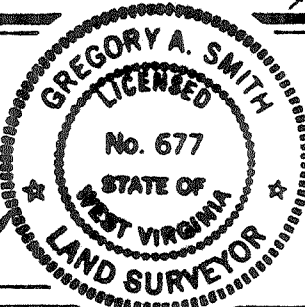
S 63-04 W 203.33'

1" = 100'

# SLS

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 OCTOBER 1, 19 93  
 OPERATORS WELL NO. BLUESTONE WELL #1  
 API WELL NO. 47-017-04057  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3189 (63-8)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1323' SCALE 1" = 2000'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1261' WATERSHED FLESHER RUN OF BLUESTONE CREEK  
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5' NE

SURFACE OWNER JUSTIN M. HENDERSON ACREAGE 1567.64  
 ROYALTY OWNER JUSTIN M. HENDERSON ET AL. LEASE ACREAGE 1567.64

PROPOSED WORK: LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5500'

WELL OPERATOR AMVIL OIL CO. INC. DESIGNATED AGENT JUSTIN M. HENDERSON  
 ADDRESS P.O. BOX 1230 FAIRMONT, WV. 26554-1230 ADDRESS P.O. BOX 1230 FAIRMONT, WV. 26554-1230

COUNTY NAME PERMIT

6-6 133

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

Well Operator's Report of Well Work

Farm name: HENDERSON, JUSTIN M. Operator Well No.: BLUESTONE #1

LOCATION: Elevation: 1,261.00 Quadrangle: OXFORD

District: WEST UNION County: DODDRIDGE  
Latitude: 8370 Feet South of 39 Deg. 15Min. Sec.  
Longitude 7090 Feet West of 80 Deg. 45 Min. Sec.

Company: ANVIL OIL CO., INC.  
P. O. BOX 1230  
FAIRMONT, WV 26554-1230

Agent: JUSTIN L. HENDERSON

Inspector: MIKE UNDERWOOD  
Permit Issued: 10/12/93  
Well work Commenced: 10-7-93  
Well work Completed: 10-13-93  
Verbal Plugging  
Permission granted on:  
Rotary Cable Rig  
Total Depth (feet) 5406  
Fresh water depths (ft) 62'  
Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? no  
Coal Depths (ft): none

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	168	168	80sk
8 5/8	1453	1453	320sk
4 1/2	5324	5324	425sk

OPEN FLOW DATA

Producing formation Alexander/Benson Pay zone depth (ft) 5190'  
Gas: Initial open flow 119mcf MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1897mcf MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4hrs Hours  
Static rock Pressure 1650# psig (surface pressure) after 4hrs Hours

Second producing formation Warren/Riley Pay zone depth (ft) 3275'  
Gas: Initial open flow 119mcf MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow \* MCF/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 0 Hours  
Static rock Pressure 1650 psig (surface pressure) after 4hrs Hours  
\* Commingled zones

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.

For: Justin Henderson  
ANVIL OIL CO., INC.

By: \_\_\_\_\_  
Date: \_\_\_\_\_

Stage	Formation	Perfs	Sand	N2
1st	Alexander	5160-5211	450sks	406,302
2nd	Benson	4709-16	500sks	425,436
3rd	Speechley Balltown	3142-3253	450sks	379,090

### Drillers Log

Formation	Top	Bottom
Dirt	0	5
Sd/Sh	5	125
RR	125	165
Sh/RR	165	343
coal	343	349
Sd/Sh	1620	1705
Lime	1850	1873
Sh	1873	1891
Lime	1891	2025
Sand	2025	2575
Sd/Sh	2575	4092
Sd	4092	4400
Sd/Sh	4400	5406
Td		5406

### Electric Log Tops

Formation	Depth top
Big Lime	1897
Berea	2333
Gordon	2570
Benson	4904

*at well No. 47-017-04051*

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

*Issued 10/12/93*  
*Expires 10/12/95*  
*526*

- 1) Well Operator: Anvil Oil and Gas Co 2275
- 2) Operator's Well Number: Bluestone #1 3) Elevation: 1261
- 4) Well type: (a) Oil    / or Gas XX  
(b) If Gas: Production    / Underground Storage     
Deep    / Shallow XX
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 160'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes    / No XX
- 11) Proposed Well Work: Drill and Stimulate
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor						
Fresh Water	11 3/4			40		
Coal						
Intermediate	8 5/8		23#	1490	1450	Cement to surface
Production	4 1/2		10.5 #	5500	5400	350 sks
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

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

18049

*check #915 21*

1) Date: October 1, 1993  
2) Operator's well number  
Bluestone # 1  
3) API Well No: 47 - 017 - 4051  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |   |  |
|---|--|
| <p>4) Surface Owner(s) to be served:<br/>(a) Name <u>Justin M. Henderson</u><br/>Address <u>108 Wood Street</u><br/><u>West Union, WV 26456</u><br/>(b) Name _____<br/>Address _____<br/>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:<br/>Name _____<br/>Address _____<br/>(b) Coal Owner(s) with Declaration<br/>Name _____<br/>Address _____<br/>Name _____<br/>Address _____<br/>(c) Coal Lessee with Declaration<br/>Name _____<br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Route 2, Box 135</u><br/><u>Salem, WV 26426</u><br/>Telephone (304)-<u>782-1043</u></p>  |  |

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  
~~XXX~~ 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:  
XXX Personal Service (Affidavit 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 fine and imprisonment.

Well Operator Anvil Oil and Gas Co  
 By: Justin L. Henderson *Justin L. Henderson*  
 Its: President  
 Address 1909 Locust Avenue  
Fairmont, WV 26554  
 Telephone 304-363-1362

Subscribed and sworn before me this 1st day of October, 1993  
Belinda Beifore Notary Public  
 My commission expires 11/12/2000