

Latitude 39° 15'

420 →

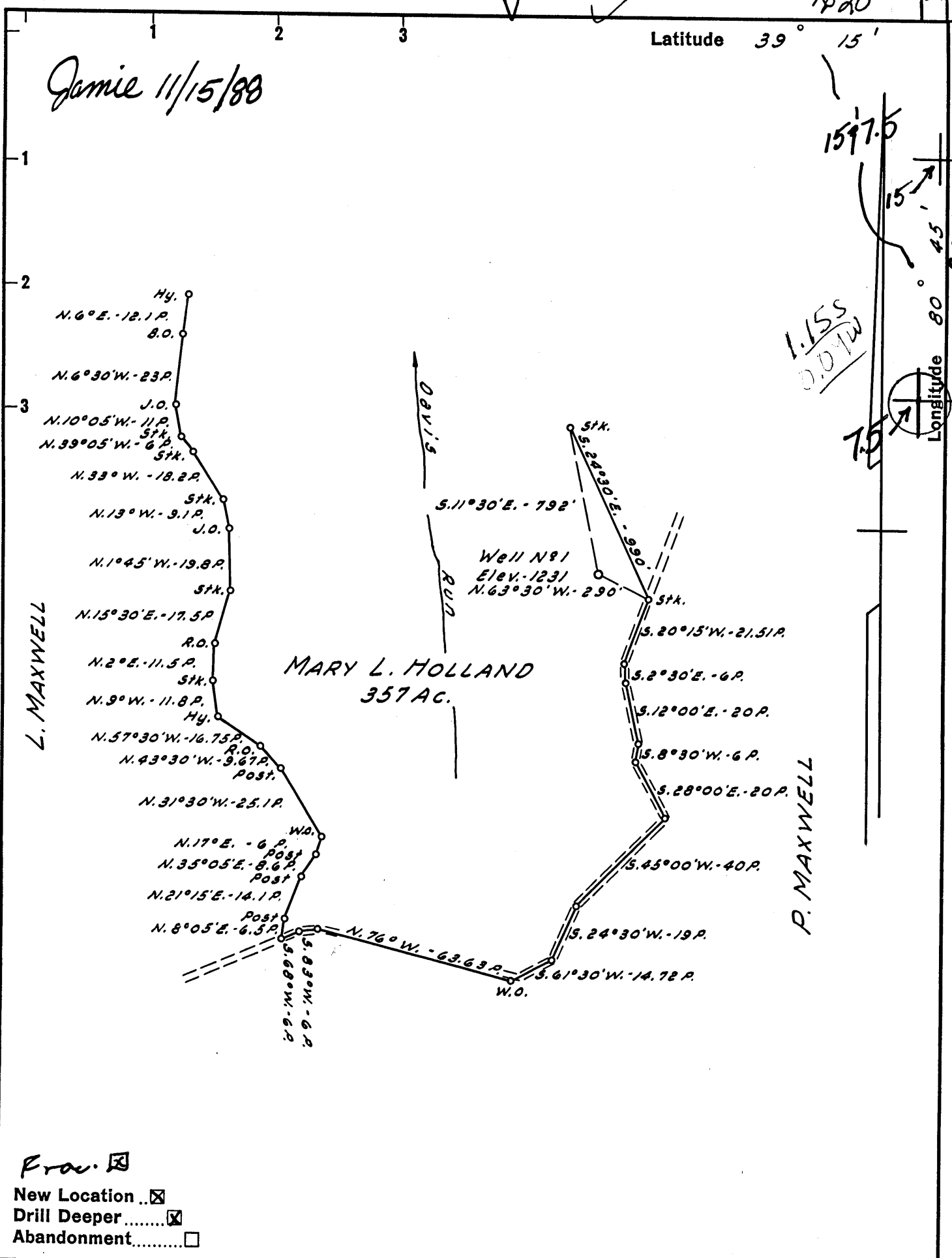
Jamie 11/15/88

1577.5

1.155
0.01W

Longitude 80° 45'

6090



Proc.

New Location...

Drill Deeper...

Abandonment...

Company ANVIL OIL CO. INC. 048

Address 2099 PLEASANT VALLEY RD. FARMERT WV.

Farm MARY L. HOLLAND

Tract _____ Acres 357 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 1231'

Quadrangle HOLBROOK 75 OXFORD 7.5

County DODDRIDGE District WEST UNION

Engineer JOHN W. HAMILTON

Engineer's Registration No. 2274

File No. _____ Drawing No. _____

Date OCT. 11, 1959 Scale 1" = 40 POLES

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

26654

WELL LOCATION MAP

526
059 FILE NO. DOD-290-D-Proc.

47-017-0290-D-Frac.

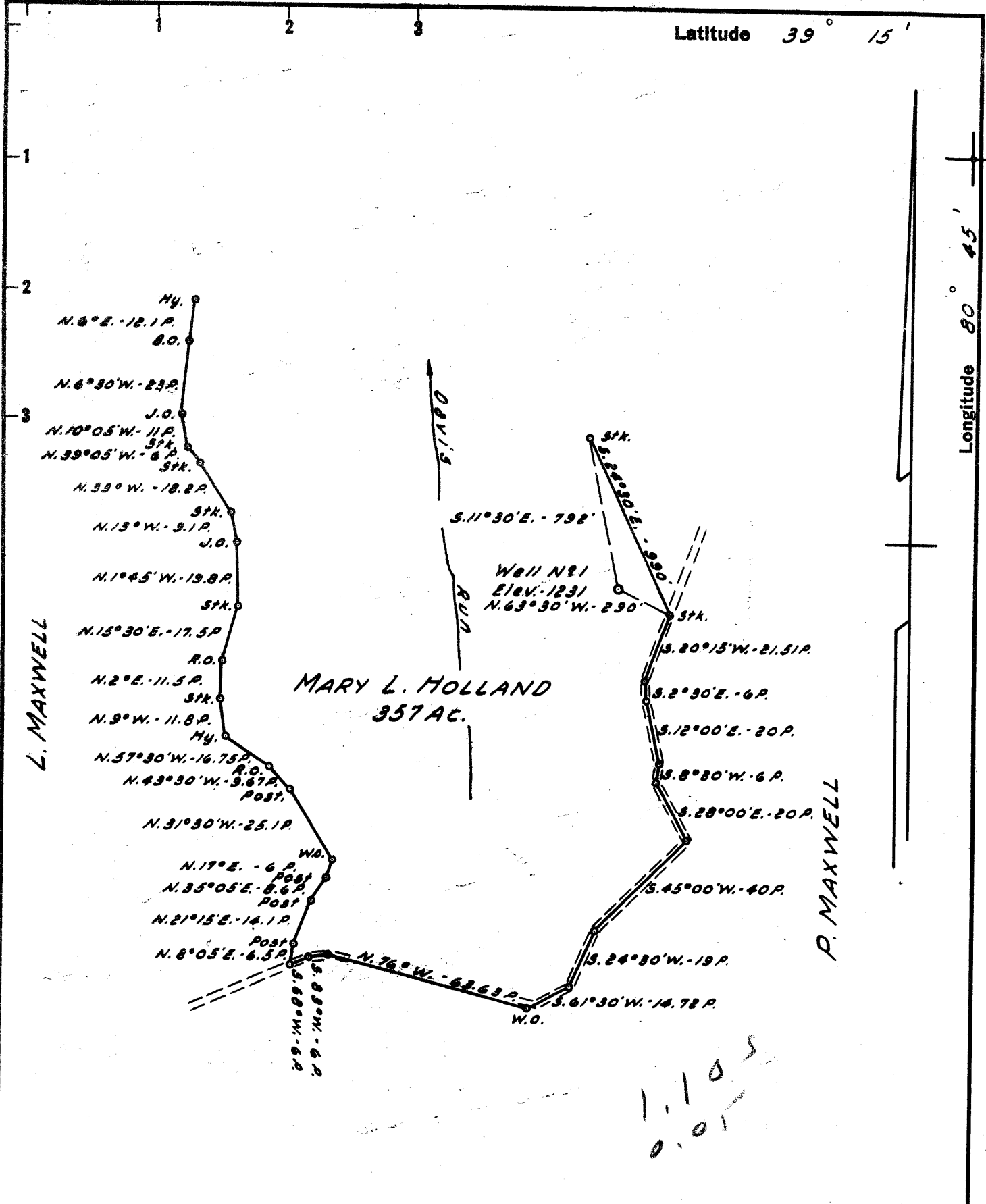
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

NOV 18 1988

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

Latitude 39° 15'

Longitude 80° 45'



1105
0.01

New Location
 Drill Deeper
 Abandonment

Company JUSTIN M. HENDERSON
 Address 108 WOOD ST. - WEST UNION, W. VA.
 Farm MARY L. HOLLAND
 Tract _____ Acres 357 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1231'
 Quadrangle HOLBROOK - NE
 County DODDRIDGE District WEST UNION
 Engineer JOHN W. HAMILTON
 Engineer's Registration No. 2274
 File No. _____ Drawing No. _____
 Date OCT. 11, 1959 Scale 1" = 40 POLES

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

WELL LOCATION MAP
 FILE NO. DOD-290

+ 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.

6-6 133

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

Well Operator's Report of Well Work

Farm name: HOLLAND, MARY

Operator Well No.: HENDERSON 1

LOCATION: Elevation: 1231.00 Quadrangle: OXFORD

District: WESTUNION County: DODDRIDGE
Latitude: 6090 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 420 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: JUSTIN L. HENDERSON

Inspector: MIKE UNDERWOOD
Permit Issued: 11/15/88
Well work Commenced: 12-24-88
Well work Completed: 12-31-88
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Ris
Total Depth (feet) _____
Fresh water depths (ft) none
Salt water depths (ft) none
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Size	Casings & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
4 1/2		previously cemented		
2 7/8			5190	252 sks

OPEN FLOW DATA

Producing formation Alexander Pay zone depth (ft) 4900
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 640 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1250 psis (surface pressure) after _____ Hours

Second producing formation Benson Pay zone depth (ft) 4880
 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 _____ psis (surface pressure) after _____ Hours
 commingled with Alexander

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.

RECEIVED
APR 4 1990

For: ANVIL OIL CO., INC.

By: *[Signature]* DIVISION OF OIL & GAS
Date: 1-15-90 DEPT. OF ENERGY

APR 06 1990

Perforate Alexander with 14 holes from 5196 to 5200 Frac with 50 sks 80/100
 300 sks 20/40 54,000 scf N2 350 bbls treated fluid. Avg rate = 18.4 bpm Avg psi = 3565
 Perforate Benson with 14 holes from 4880 to 4884 frac with 50 sks 80/100 300 sks 20/40
 63,000 scf N2 350 bbls treated fluid Avg rate = 20 bpm avg psi = 3800#

0	1990	previously drilled
1990	2150	sh
2150	2300	sd
2300	2600	sh
2600	2610	sd
2610	5219	sh
	5219	td

E LOG TOPS

Berea	2365
Gordon	2601
Benson	4880

5219 - new TD
 1990 - old TD
 3229 - new ftg

7451



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 3

Quadrangle Holbrookin

Permit No. DOD-290

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Henderson #1
Address West Union, W. Va.
Farm Mary L. Holland Acres 1500
Location (waters) Bluestone Creek
Well No. Henderson #3 #1 Elev. 1231'
District West Union County Doddridge
The surface of tract is owned in fee by Mary L. Holland
308 Church St. Address West Union, W. Va.
Mineral rights are owned by L. B. Maxwell heirs
Address _____

Drilling commenced November 20, 1959
Drilling completed December 23, 1959
Date Shot None From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 180,000 Cu. Ft.
Rock Pressure 650 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED 1000 gals acid.

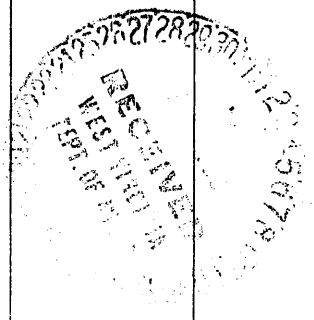
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			<u>Galverson</u>
13			Size of <u>5 1/2</u>
10			Depth set <u>1921</u>
8 1/4			Perf. top <u>1610-1617</u>
6 3/8			Perf. bottom _____
5 3/16	<u>5 1/2 OD 1903</u>	<u>1903'</u>	Perf. top _____
3	<u>1921 fracturing tubing</u>		Perf. bottom _____
2			Perf. top _____
Liners Used <u>Galverson packer</u>			Perf. bottom _____

WELL FRACTURED 350 barrels

CASING CEMENTED None SIZE _____ No. Ft. _____ Date _____
COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 2,800,000 +
ROCK PRESSURE AFTER TREATMENT 700 lbs. - 24 hrs.
Fresh Water _____ Feet cased 400 ft. Salt Water None Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top Soil	Yellow	Soft				0-60	
Slate	Blue	Soft				60-70	
Red Rock	Red	Soft				70-85	
Sand	Grey	Med.				85-95	
Red and Blue Slate		Soft				95-125	
Slate and Shale						125-200	
Red Rock						200-230	
Slate and Shale						230-277	
Lime						277-295	
Red Rock						295-311	
Slate and Shale						311-335	
Lime						335-350	
Red Rock						350-360	
Lime						360-403	
Red Rock						403-448	
Slate and Shale						448-480	
Sand						480-520	
Slate						520-553	
Lime						553-640	
Slate and Shale						640-654	
Lime						654-668	
Slate and Shale						668-745	
Lime						745-765	
While Slate and Shale						765-793	
Red Rock						793-815	
Slate and Shale						815-885	
Sand						885-908	
Red Rock						908-940	
						940-1000	
						1000-1045	



Formation	Color	Hard or Soft	Top <u>3</u>	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand and Shale						1045-1100	
Slate and Shale						1100-1131	
Red Lime						1131-1146	
Little Dunkard						1146-1190	
Sand						1190-1260	
Slate and Shale						1260-1272	
Lime Brittle						1272-1298	
Slate and Shale						1298-1330	
Sand Lime						1330-1332	
Slate and Shale						1332-1370	
Sand						1370-1380	
Black Slate						1380-1425	
Sand						1425-1429	
Slate and Shale						1429-1458	
Sand						1458-1498	
Black Slate						1497-1535	
Sand						1535-1572	
Black Slate						1572-1585	
Sand						1585-1610	
Black Slate						1610-1617	
Sand						1617-1655	
Black Slate						1655-1677	
Gritty Lime						1677-1797	
Black Slate						1797-1802	
Sand						1802-1830	
Slate						1830-1868	
Sand						1868-1874	
Lime						1874-1930	
Slate Lime and Shale						1930-2005	
Gritty Lime							
Lime							
Sand							
Gas							Steel Line Meas. 1617
Sand							
Lime							
Slate and Shale							
Lime							
Sand-Blue Monday							
Big Lime							
Big Lime							
Sand-Big Engine							
Gas							1960 -1990
				Steel Line			

Date....., 19.....

APPROVED....., Owner

By..... (Title)

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

- 1) Well Operator: ⁰⁰⁴⁸ Anvil Oil Inc. 2275; 8,525
- 2) Operator's Well Number: Henderson #1 3) Elevation: 1231
- 4) Well type: (a) Oil ___ / or Gas XXX /
(b) If Gas: Production XXX Underground Storage ___
Deep ___ / Shallow XXX /
- 5) Proposed Target Formation(s): ⁴³⁹ Alexander
- 6) Proposed Total Depth: 5250 feet
- 7) Approximate fresh water strata depths: previously cased off
- 8) Approximate salt water depths: previously cased off
- 9) Approximate coal seam depths: previously cased off
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XXX /
- 11) Proposed Well Work: drill deeper and 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						
Fresh Water						
Coal						
Intermediate	5 1/2				1903	as cemented in 19
Production	2 7/8				5250	2,000' fillup
Tubing						
Liners						

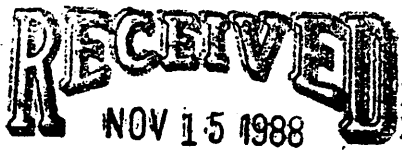
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NOV 15 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1424
30
Fee(s) paid: 100 Well Work Permit 100 Reclamation Fund 100 WPCP
Plat 100 WW-9 100 WW-2B 100 Bond 50000 Agent
(Type)



DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: Nov. 9-1988
Operator's well number
Henderson #1
API Well No: 47 - 017 - 0290-DD-FRA
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:
 (a) Name <u>Mary Holland</u>
 Address <u>308 Church Street</u>
 <u>West Union WV</u>
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____</p> | <p>5) (a) Coal Operator:
 Name _____
 Address _____
 (b) Coal Owner(s) with Declaration
 Name _____
 Address _____
 Name _____
 Address _____
 (c) Coal Lessee with Declaration
 Name _____
 Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u>
 Address _____
 Telephone (304)- _____</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 _____ 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 Co. Inc.
By: Jerry Poling
Its: Vice President
Address 2099 Pleasant Valley Rd.
Fairmont WV 26554
Telephone 304-363-1363

Subscribed and sworn before me this 14th day of November, 1988

My commission expires 7/8/90 Notary Public