

8/4/87

# HADLEY

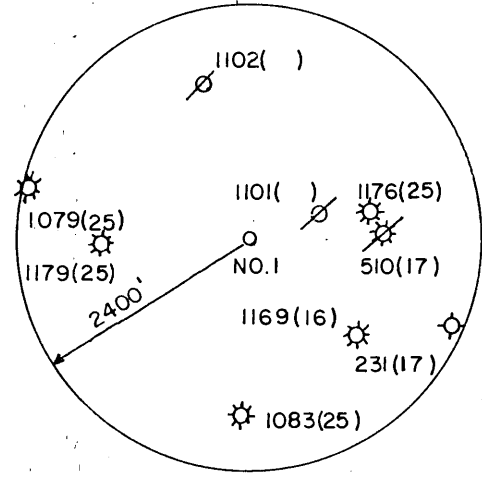
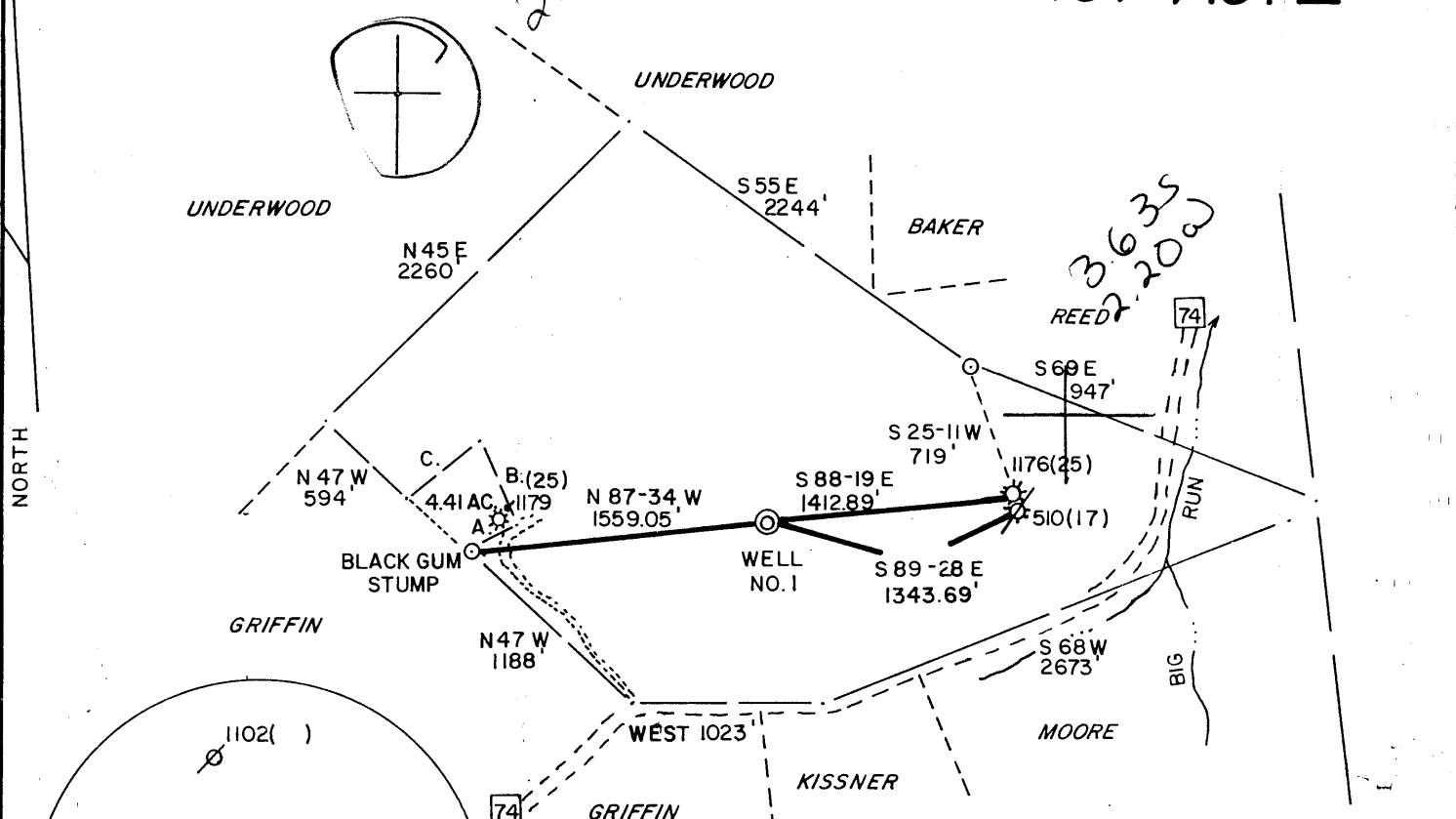
# WELL NO. 1

## LEASE

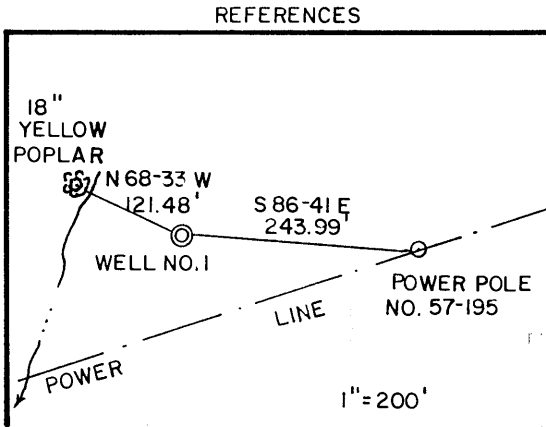
191 AC. ±

0.755  
2200

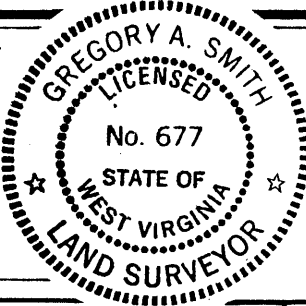
3635  
2200



- A.) N 60 E 280.50'
- B.) N 24 W 490.17'
- C.) S 51-30 W 495'



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. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JULY 25, 19 87  
 OPERATORS WELL NO. HADLEY NO. 1  
 API WELL NO. 47 - 095 - 1205  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1695(21-26)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1110' SCALE 1" = 1000'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

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

LOCATION: ELEVATION 1022' WATERSHED WATERS OF BIG RUN  
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671

SURFACE OWNER Clarence HADLEY ACREAGE 191 133  
 ROYALTY OWNER CLARENCE HADLEY LEASE ACREAGE 191 C5

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 BENSON  
 ESTIMATED DEPTH 5200'

WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDERSON  
 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

048

66 Wilbur (92)

00-05-08 E81UD16N07

COUNTY NAME

PERMIT

S/S

AUG 10 1987



IV-35  
(Rev 8-81)

Date 8-27-87  
Operator's  
Well No. #1  
Farm Hadley  
API No. 47 - 095 - 1205

State of West Virginia  
Department of Mines  
Oil and Gas Division

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas XXX / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production XXX / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow XXX /)

LOCATION: Elevation: 1022 Watershed Big Run  
District: Centerville County Tyler Quadrangle West Union

COMPANY Anvil Oil Co. Inc.  
ADDRESS P.O. Box 2566 Clarksburg WV  
DESIGNATED AGENT Justin Henderson  
ADDRESS As Above  
SURFACE OWNER Ronald Rowland  
ADDRESS General Delivery Wilbur WV  
MINERAL RIGHTS OWNER Ronald Rowland  
ADDRESS As Above  
OIL AND GAS INSPECTOR FOR THIS WORK Bob  
Lowther ADDRESS G. D. Middlebourne  
PERMIT ISSUED 8-5-87  
DRILLING COMMENCED 8-14-87  
DRILLING COMPLETED 8-19-87

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30		
9 5/8			
8 5/8	1165	1165	cts
7			
5 1/2			
4 1/2		5030	rule 15.01
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Benson Depth 4930 feet  
Depth of completed well 5134 feet Rotary XXX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 575 feet; Salt \_\_\_\_\_ feet  
Coal seam depths: \_\_\_\_\_ Is coal being mined in the area? \_\_\_\_\_

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4908-4930 feet  
Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow (2105) Mcf/d Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure 1725 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Riley Pay zone depth 4536-55 feet  
Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow as above Mcf/d Oil: Final open flow 0 Bbl/d  
Time of open flow between initial and final tests 4 hours  
Static rock pressure as above psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

APR 15 1988

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforate Benson (4922-31) with 14 holes frac with 100 sks 80/100, 350 sks 20/40  
400 bbls sand laden fluid Avg rate 19, Avg press. 2145

Perforate Riley 4529-58 with 15 holes frac with 100 sks 80/100, 300 sks 20/40  
350 bbls sand laden fluid Avg rate 15 Avg rate 2080

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Dirt			0	40	
sh/sd			40	55	
red shale			45	165	
sd/sh			165	1100	Damp 575
sand			1100	1165	water 1490 hole damp
sh			1165	1870	
lime			1870	1935	E-Log Tops
sd			1935	2040	
sd/sh			2040	2570	Big Lime 1870
sd			2570	2600	Weir 2246
sh/sd			2600	TD	Berea 2430
TD				5134	Riley 4570 Benson 4908

(Attach separate sheets as necessary)

844

Well Operator  
*Justin J. Henderson*  
 By: \_\_\_\_\_  
 Date: \_\_\_\_\_

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: \_\_\_\_\_, 19\_\_\_\_  
 2) Operator's Well No. Hadley #1  
 3) API Well No. 47 095 1205  
 State County Permit

**RECEIVED**  
 JUL 30 1987

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

APPLICATION FOR A WELL WORK PERMIT  
 DIVISION OF OIL & GAS

- 4) WELL TYPE: A Oil DEPARTMENT OF ENERGY  
 B (If "Gas", Production XXX) / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow XXX / )  
 5) LOCATION: Elevation: 1022 Watershed: Big Run of Middle Island Creek  
 District: Centerville County: Tyler Quadrangle: West Union (670)  
 6) WELL OPERATOR Anvil Oil Co Inc CODE: 2275 7) DESIGNATED AGENT Justin henderson  
 Address P.O. Box 2566 Address P.O. Box 2566  
Clarksburg WV 26301 Clarksburg WV 26301  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Bob Lowther Name Coastal Corporation  
 Address General Delivery Address Parkersburg WV  
Middlebourne WV  
 10) PROPOSED WELL WORK: Drill XXX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate XXX /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Benson  
 12) Estimated depth of completed well, 5050 feet  
 13) Approximate trata depths: Fresh, \_\_\_\_\_ feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No XXX /

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	<u>11 3/4</u>					<u>250</u>	<u>250</u>	<u>cts</u>	<u>as per Rule 15.05</u>
Coal									Sizes
Intermediate	<u>8 5/8</u>					<u>1125</u>	<u>1125</u>	<u>cts</u>	<u>as per Rule 15.05</u>
Production	<u>4 1/2</u>						<u>5000</u>	<u>175 sks</u>	Depths set <u>as per Rule 15.01</u>
Tubing									Perforations:
Liners									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-095-1205 Date August 5 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires August 5, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>2277</u> <u>223</u>	MAP: <u>[Signature]</u>	S&E: <u>[Signature]</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]  
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

12501