

HADLEY LEASE

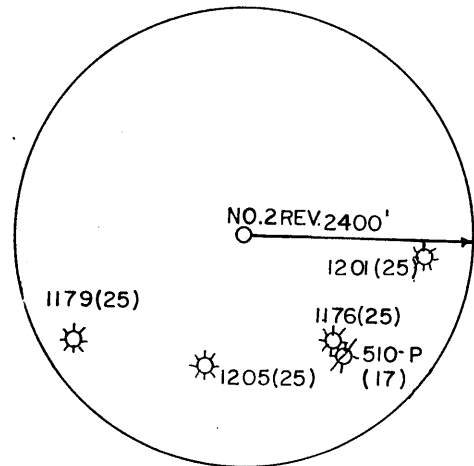
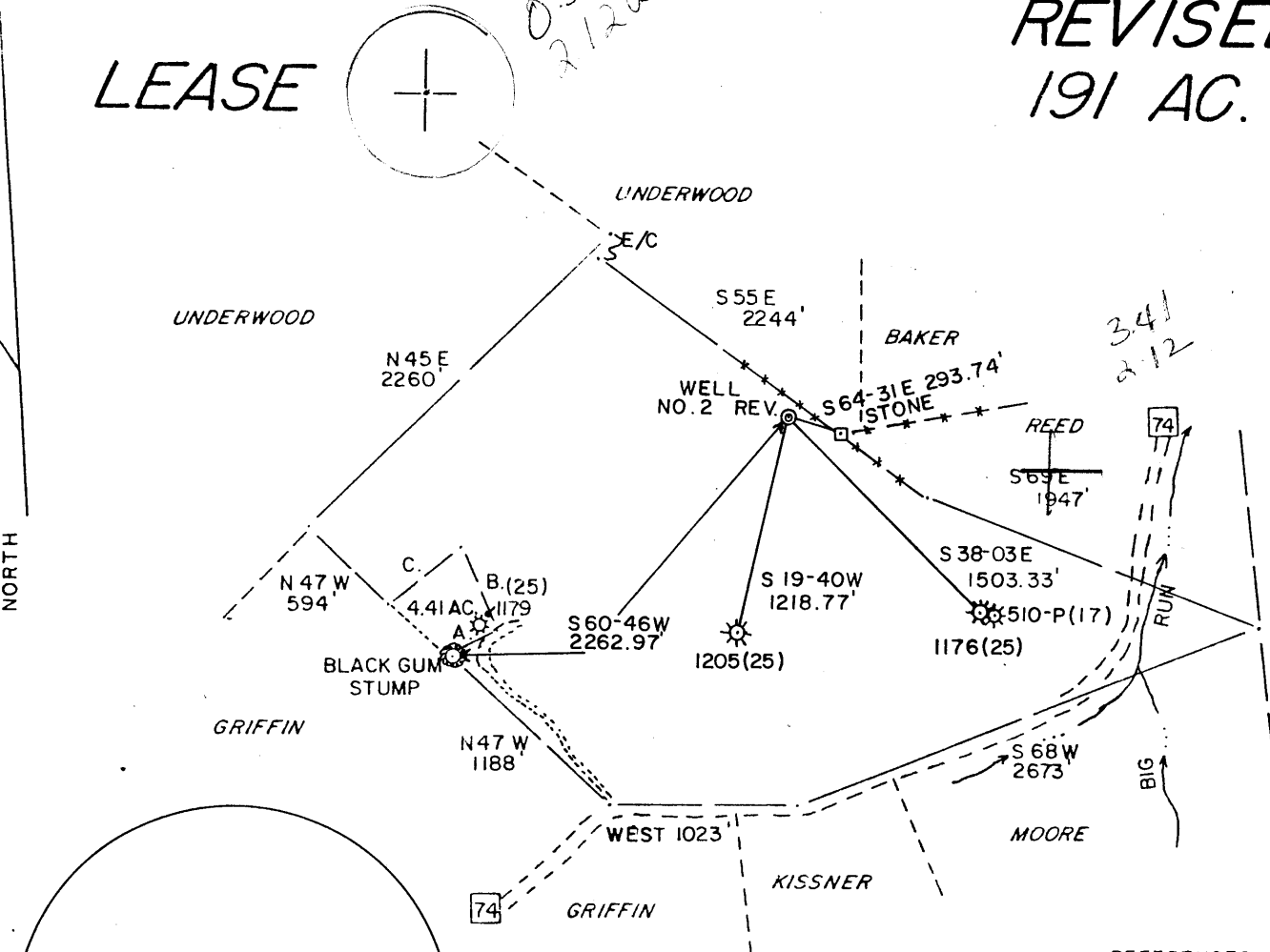
WELL NO.2 REVISED 191 AC. ±

NORTH

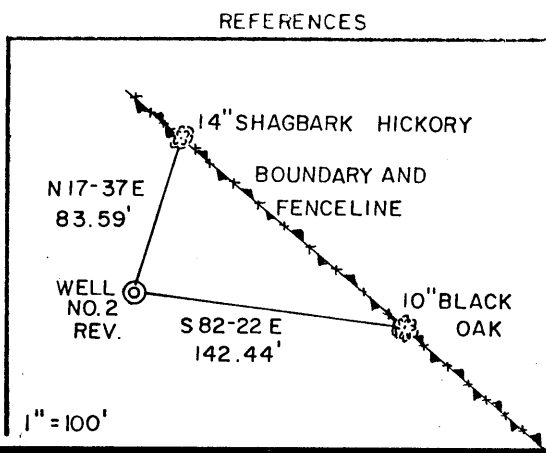
LONGITUDE 80-50-00

0.53S
2.12W

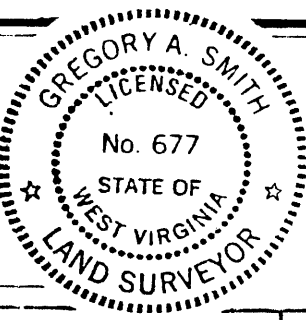
3.41
2.12



- 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. Gregory A. Smith
 677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 17, 19 88
 OPERATORS WELL NO. HADLEY NO.2 REV.
 API WELL NO. 47 - 095 - 1233
 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 INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1106' WATERSHED WATERS OF BIG RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION
 SURFACE OWNER Ruby HADLEY ACREAGE 191
 ROYALTY OWNER Ruby HADLEY LEASE ACREAGE 191

PROPOSED WORK: 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 1230 Fairmont WV ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

6-6 Wilbur (092)

COUNTY NAME PERMIT

575

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

Well Operator's Report of Well Work

Farm name: HADLEY, RUBY

Operator Well No.: HADLEY 2

LOCATION: Elevation: 1106.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 2810 Feet South of 39 Des. 22Min. 30 Sec.
Longitude 11290 Feet West of 80 Des. 50 Min. 0 Sec.

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

Agent: JUSTIN L. HENDERSON

Inspector: ROBERT LOWTHER

Permit Issued: 03/31/88

Well work Commenced: 4-4-88

Well work Completed: 4-11-88

Verbal Plussings

Permission granted on: 3-31-88

Rotary Cable Rig

Total Depth (feet)

Fresh water depths (ft)

60'

Salt water depths (ft)

trace 2120

Is coal being mined in area (Y/N)?

Coal Depths (ft): none found

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
8 5/8	1330	1310	cts
4 1/2	5200	5135	240 sks

RECEIVED
JAN 24 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 5020
Gas: Initial open flow trace MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1086 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 1575 Psig (surface pressure) after 48 Hours

Second producing formation Riley Pay zone depth (ft) 4620
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

Benson and Riley commingled production

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: ANVIL OIL CO., INC.

By: *Justin L. Henderson*

Date: 5/11/88

FEB 02 1990

Well treated as follows:

Benson perforated from 5024-5028 with 14 holes. FRacked with 450 sks sand
75,000 scf N2, 435 bbls treated fluid.

Riley perforated from 4623 to 4655 with 14 holes, fracked with 350 sks sand
75,000 scf N2, 360 bbls treated fluid

Electric log tops

Big Lime 1952

Berea 2556

Riley 4608

Benson 5004

TD. 5135'

Dirt	0 - 10
sd/sh	10-1950
lime	1950- 2050
sd	2050- 2210
sd/eh	2210-5200

no coal was encountered
hole damp with oil 2710 went on soap

RECEIVED
JAN 24 1990

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

6817

47-095-1233

Issued 3/31/88
Expires 3/31/90

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: ⁶⁰⁴⁸ Anvil Oil Co. Inc. 2275, 1, 670
- 2) Operator's Well Number: Hadley #2 3) Elevation: 1106
- 4) Well type: (a) Oil ___ / or Gas XXX /
(b) If Gas: Production XX / Underground Storage ___ /
Deep ___ / Shallow ___
- 5) Proposed Target Formation(s): ⁴³⁵ Benson
- 6) Proposed Total Depth: 5100 ~~5100~~ feet
- 7) Approximate fresh water strata depths: 75 @ 891' @ 621'
- 8) Approximate salt water depths: _____
- 9) Approximate coal seam depths: ^{From 510, 1172, 1201, 1215} Possibly none @ 580'
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No XXX /
- 11) Proposed Well Work: Drill $\frac{1}{2}$ frac new well
- 12) _____

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<u>OK P.A.L.</u> Conductor	11 3/4			30	30 <u>cts</u>	cts
Fresh Water						
Coal						38CSR18-11.3 38CSR18-11.2.2
Intermediate	8 5/8	23	23	1210	1200 <u>cts</u>	cts
Production	4 1/2	J-55	10.5	5100	4950	38CSR18-11.1
Tubing						
Liners						

RECEIVED
MAR 30 1988

PACKERS : Kind _____
Sizes _____
Depths set _____
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: JH Well Work Permit JH Reclamation Fund JH WPCP
JH Plat JH WW-9 JH WW-2B JH Bond 50 Blanket JH Agent
(Type)

6817
2368
9

RECEIVED
MAR 30 1988

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: March 28, 1988
Operator's well number
Hadley #2
API Well No: 47 - 095 - 1233
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 Ruby Hadley
Address G.D. Alma WV 26320
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- 6) Inspector Bob Lowther
Address G.D. Middlebourne WV
Telephone (304) - 758-4764

- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name Ruby Hadley
Address G.D. Alma WV 26320
- Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____

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 Arvil Oil Co. Inc.
By: Justin Henderson
Its: President
Address P.O. Box 1230 Fairmont WV 26554

Telephone 304-363-1362

Subscribed and sworn before me this 29 day of March, 1988

My commission expires 7/1/90

Commissioner
Notary Public
FOR WV