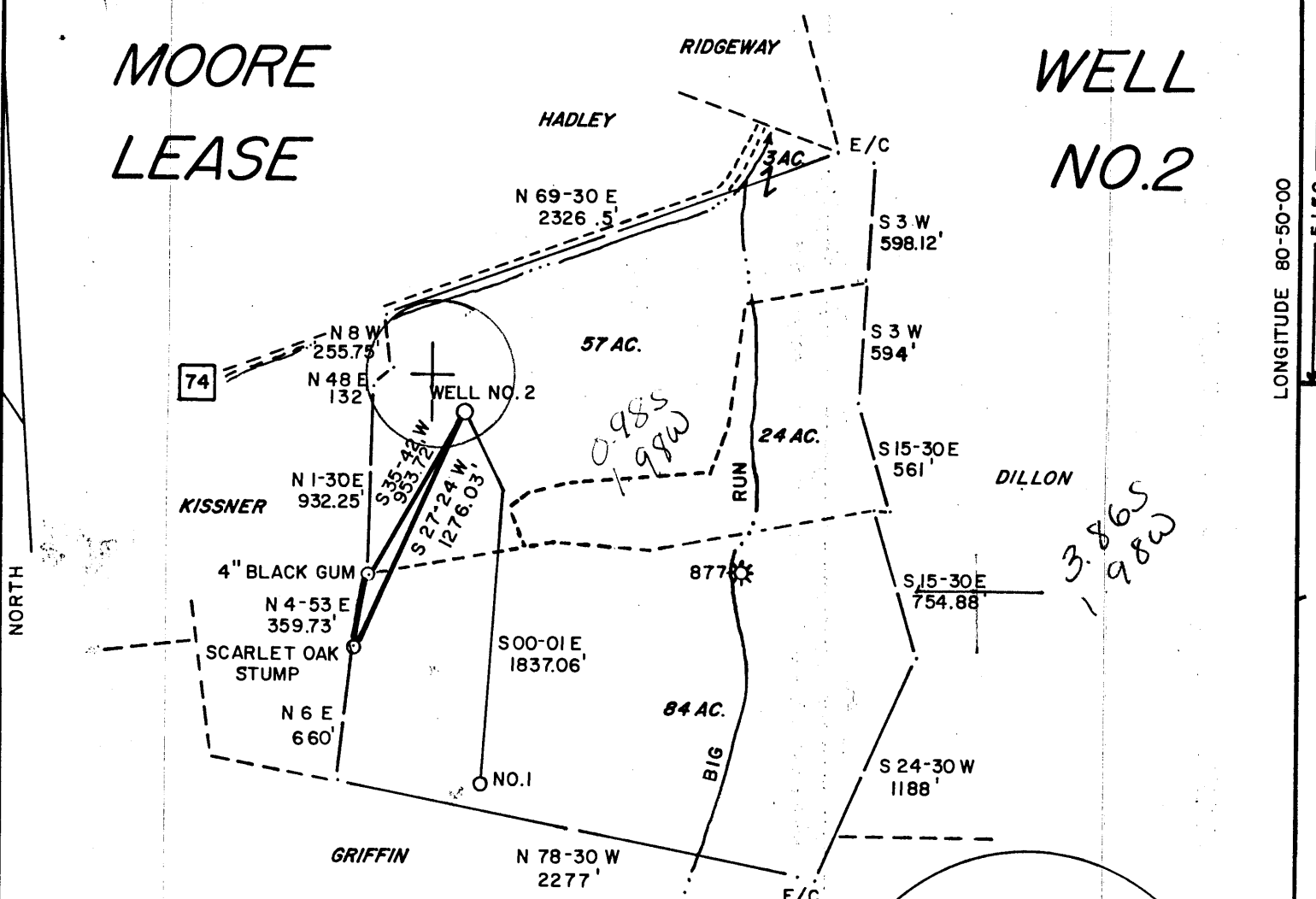


MOORE LEASE

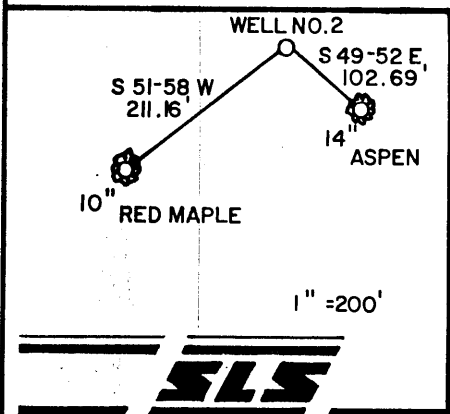
WELL NO.2



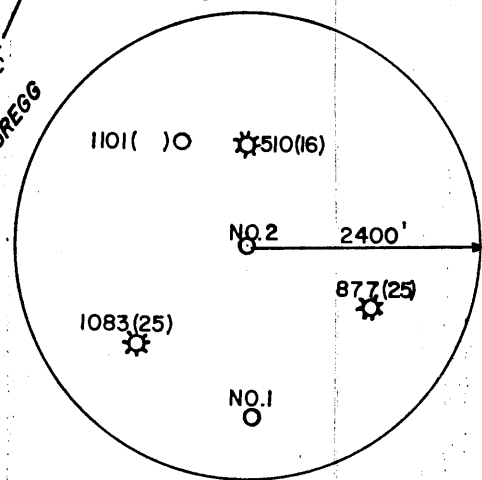
LONGITUDE 80-51-50

NORTH

REFERENCES

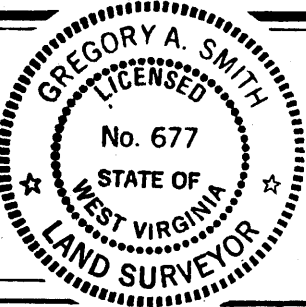


165 ACRES ±



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 DECEMBER 22, 19 86

OPERATORS WELL NO. MOORE NO.2


API WELL NO. 47-095-1169

STATE WEST VIRGINIA COUNTY TYLER PERMIT 1169

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1588 (20-4) 1532

PROVEN SOURCE OF ELEVATION BM. 951' SCALE 1" = 800'

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 1022' WATERSHED BIG RUN

DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671

SURFACE OWNER MABEL B. MOORE ACREAGE 57 OF 165 133

ROYALTY OWNER MABEL B. MOORE LEASE ACREAGE 165

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 2566 CLARKSBURG, WV 26301 ADDRESS P.O. BOX 2566 CLARKSBURG, WV 26301

JAN 12 1987
JAN 12 1987

COUNTY NAME PERMIT



WR-35

RECEIVED JUN 10 1987

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

Date Feb. 5, 1987

Operator's

Well No. Moore #2

Farm

API No. 47 - 095 - 1169

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

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

COMPANY Anvil Oil Co. Inc.

ADDRESS Box 2566 Clarksburg WV 26301

DESIGNATED AGENT Justin Henderson

ADDRESS Box 2566 Clarksburg WV 26301

SURFACE OWNER Mabel Moore

ADDRESS

MINERAL RIGHTS OWNER Mabel Moore

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS General Del. Middlebourne

PERMIT ISSUED 1-7-87

DRILLING COMMENCED 1-21-87

DRILLING COMPLETED 1-26-87

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

Table with 4 columns: Casing Tubing Size, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Benson Depth 4930 feet

Depth of completed well 5050 feet Rotary X / Cable Tools

Water strata depth: Fresh 125 feet; Salt feet

Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4923-29 feet

Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow 2,400 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 1275 psig (surface measurement) after 24 hours shut in (If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4511-4558 feet

Gas: Initial open flow smell Mcf/d Oil: Initial open flow 0 Bbl/d Final open flow commingled Mcf/d Oil: Final open flow 0 Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 125 psig (surface measurement) after hours shut in

(Continue on reverse side)

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

Perforate Benson (4923-4929 14 holes), perforate Riley 4511-4558-14 holes

Frac with 200 sks 80/100, 500 sks 20/40, 1,000 gal acid

793 bbls treated fluid 201,000 scf N2

RECEIVED
JUN 10 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fres and salt water, coal, oil and ga
Surface			0	25	
sh sd			25	220	wet 125'
rr			220	235	
sh sd			235	420	
rr			420	435	E-Log Tops ✓
sh sd			435	1840	Big Lime 1838
lime			1840	1950	Weir 2250
ss			1950	2105	Berea 2436
sh			2105	2250	Gordon 2874
ss			2250	2360	Riley 4502
sh			2360	2445	Benson 4912
ss			2445	2450	
sh ss			2450	TD	
TD				5050	gas check at Td smell

(Attach separate sheets as necessary).

Anvil Oil Co. Inc.
Well Operator

By: Justin Henderson

Date: Feb 5, 1987

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
encountered in the drilling of a well."

7/85

RECEIVED
JAN 07 1987



1) Date: Dec 29, 1986
 2) Operator's Well No. Moore #2
 3) API Well No. 47 095 -1169
 State County Permit

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

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1022 / Watershed: Big Run
 District: Centerville / County: Tyler / Quadrange: West Union 7.5'
 6) WELL OPERATOR Anvil Oil Co. 0048 CODE: 2275 7) DESIGNATED AGENT Justin Henderson
 Address Box 2566 Address Box 2566
Clarksburg WV 26301 Clarksburg WV 26301
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Bob Lowther
 Address General Delivery
Middlebourne
 9) DRILLING CONTRACTOR: Name Coastal Corporation
 Address Parkersburg WV

10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Benson 435
 12) Estimated depth of completed well, 5000' feet
 13) Approximate trata depths: Fresh, 150 feet; salt, _____ feet.
 14) Approximate coal seam depths: 0 Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11					55			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8					170	1250	cts	<u>Per K/c 15.05</u>
Production	4 1/2						4985	2500' fill	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1169 Date January 7 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 January 7, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>AS</u>	Casing: <u>AS</u>	Fee: <u>2224</u> <u>164</u>	WPCE: <u>AS</u>	S&E: <u>AS</u>	Other: <u>RAH</u>
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NOTE: Keep one copy of this permit posted at the drilling location.

 Director, Division of Oil and Gas File

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