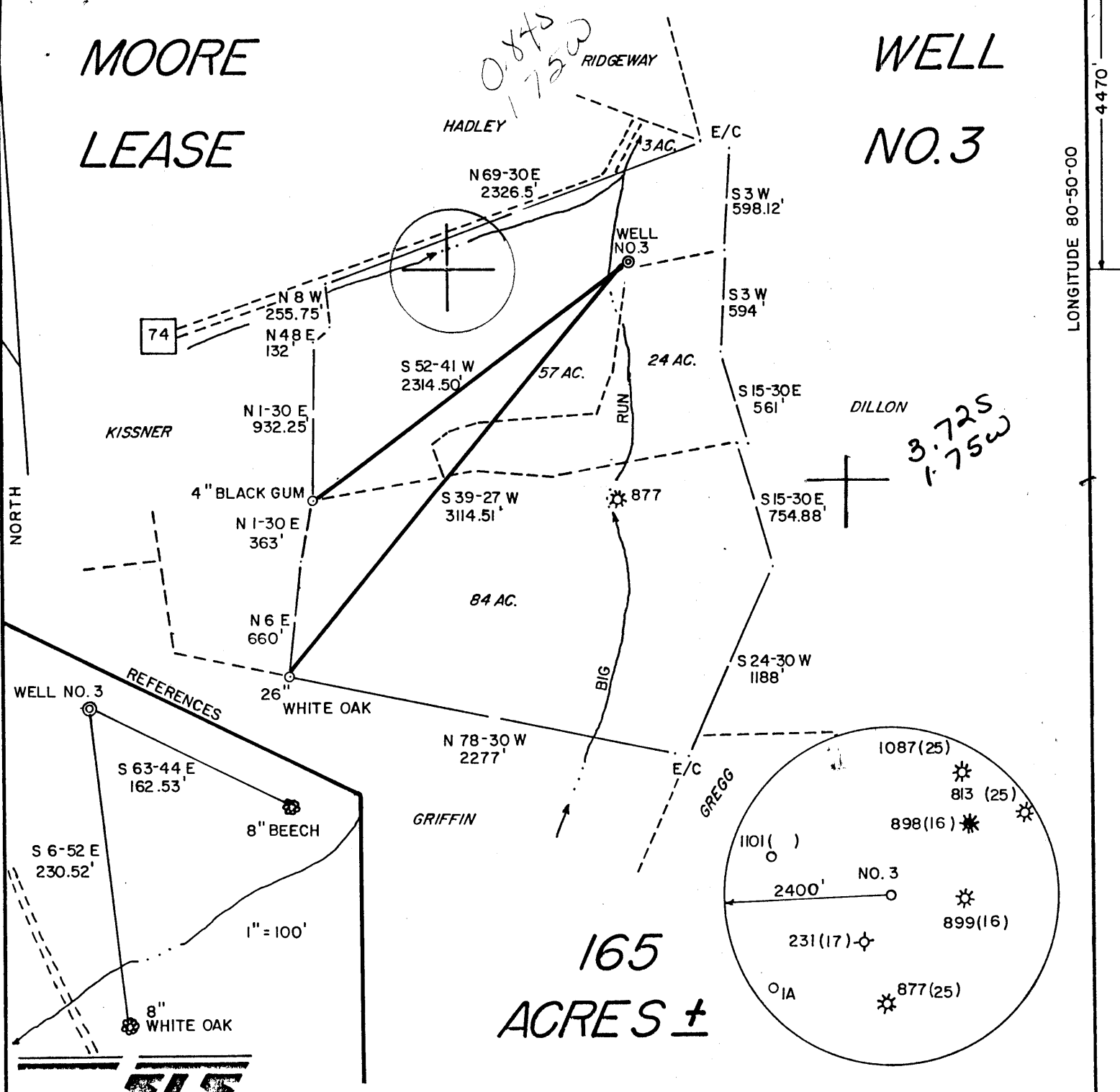


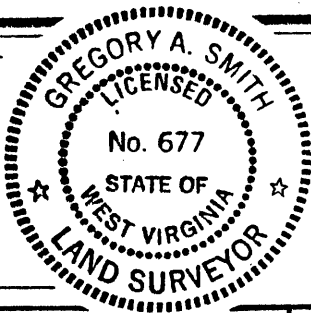
MOORE LEASE

WELL NO. 3



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 MARCH 9, 19 87
 OPERATORS WELL NO. MOORE NO.3
 API WELL NO. 47 - 095 - 1180
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1588 (20-57)
 SCALE 1" = 800'
 PROVEN SOURCE OF ELEVATION BM. ELEV. 951'

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 872' 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 CS
 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 5300'
APR 20 1987

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

IV-35
(Rev 8-81)



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JUN 10 1987

State of West Virginia
Department of Mines
Oil and Gas Division

Date 5-4-87
Operator's
Well No. Moore #3
Farm Moore
API No. 47 - 095 - 1180

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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 X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 872 Watershed Big Run
District: Centerville County Tyler Quadrangle West Union 7.5'

COMPANY Anvil Oil Co. Inc.
ADDRESS P.O. Box 2566 Clarksburg
DESIGNATED AGENT Justin Henderson
ADDRESS P.O. Box 2566 Clarksburg
SURFACE OWNER Mabel Moore
ADDRESS Rt. 2 Penneboro
MINERAL RIGHTS OWNER Mabel Moore
ADDRESS Rt. 2 Penneboro
OIL AND GAS INSPECTOR FOR THIS WORK Bob
Lowther ADDRESS Middlebourne
PERMIT ISSUED 4-13-87
DRILLING COMMENCED 4-21-87
DRILLING COMPLETED 4-26-87
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	928	928	cts
7			
5 1/2			
4 1/2		4823	235 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 4750 feet
Depth of completed well 4752 feet Rotary X / Cable Tools _____
Water strata depth: Fresh _____ feet; Salt _____ feet
Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4746-52 feet
Gas: Initial open flow 20 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 4 hours
Static rock pressure 1650 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth (4232-4379) feet
Gas: Initial open flow as above 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 1650 psig (surface measurement) after 24 hours shut in

(Continue on reverse side)

JUN 15 1987

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

Perforate Benson 4746-4752-14 holes and Riley 4332-4377-12 holes
 Frac with 1,000 gal acid 500 sks 20/40 200 sks 80/100
 790 bbls treated fluid 193,000 scf N²

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
soil			0	15	E-Log Tops
ss/sh			15	545	Bid Lime 1695
shale			545	1690	Berea 2254
lime			1690	1730	Riley 4320
ss			1730	1905	Benson 4732
sh			1905	2115	
ss			2115	2175	
sh			2175	3700	
ss			3700	3710	
sh/ss			3710	4922	
TD				4922	

Gas check at TD = 2" H₂O

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Anvil Oil Co. Inc.
Well Operator

By: Justin Henderson

Date: 5-3-87

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."

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1) Date: Feb 28, 19 87
2) Operator's Well No. Moore #3
3) API Well No. 47 State 095 County 1180 Permit

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

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow)
5) LOCATION: Elevation: 872 Watershed: Big Run
District: Centerville 1 County: Tyler 095 Quadrangle: West Union 670
6) WELL OPERATOR Anvil Oil Co. CODE: 2275 7) DESIGNATED AGENT Justin Henderson
Address Box 2566 Clarksburg WV Address Box 2566 Clarksburg WV
8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Bob Lowther Address General Delivery Middlebourne
9) DRILLING CONTRACTOR: Name Address
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
12) Estimated depth of completed well, 5100 feet
13) Approximate strata depths: Fresh, feet; salt, feet.
14) Approximate coal seam depths: Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
		Grade	Weight per ft.	For drilling	Left in well		
Conductor							Kinds
Fresh water	11 3/4				100		
Coal	8 5/8		20		950	cts Per Rule 15.05	
Intermediate							
Production	4 1/2		10.5		5100	510 SKS 02 depths set as required BY Rule 15.01	
Tubing							Perforations:
Liners							Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1180 Date April 13 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 April 13, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

9944

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: 127	Casing: 127	Fee: 2247 193	WPCP: 127	S&E: 127	Other: RAK
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[Signature]
Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. See the reverse side of the APPLICANT'S COPY for instructions to the well operator.