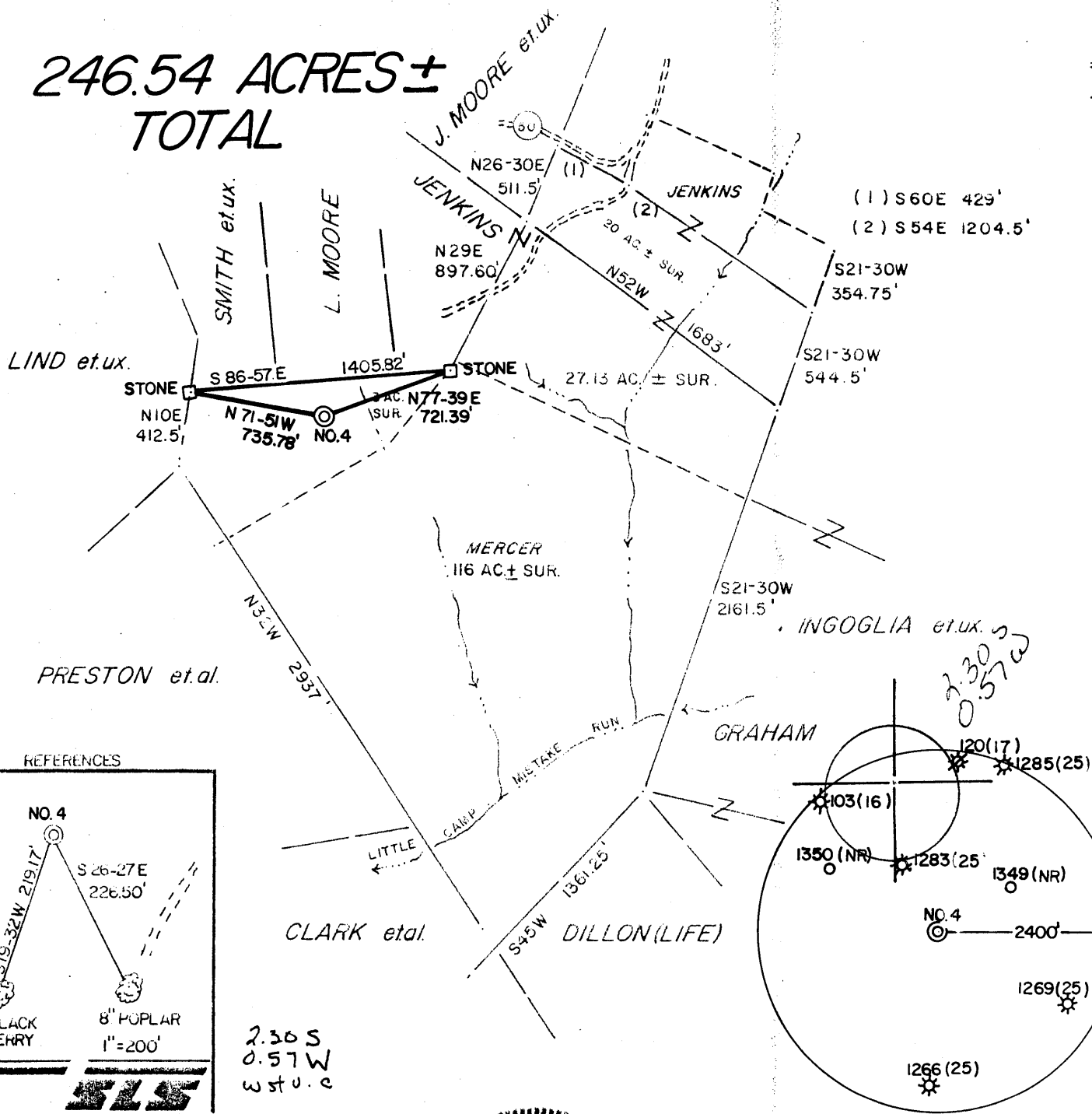


Janie 3/28/90

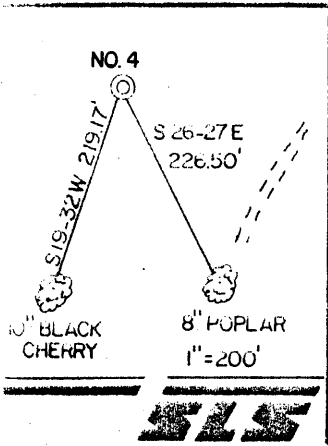
MERCER LEASE

WELL NO. 4

246.54 ACRES ± TOTAL

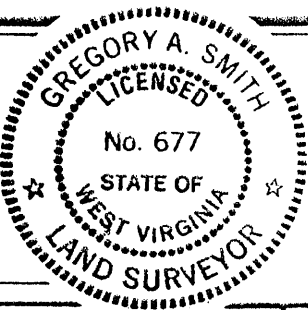


REFERENCES



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 MARCH 7, 19 90
OPERATORS WELL NO. MERCER NO. 4
API WELL NO. 47 - 095 - 1383
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1878(28-65)
PROVEN SOURCE OF ELEVATION B. M. ELEV. 734' SCALE 1" = 800'

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1027' WATERSHED LITTLE CAMP MISTAKE RUN OF MIDDLE ISLAND CREEK
DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE SHIRLEY 7.5
SURFACE OWNER LAWRENCE MERCER HRS. ACREAGE 13.25 OF 246.54
ROYALTY OWNER LAWRENCE MERCER HRS. ET. AL. LEASE ACREAGE 13.25 OF 246.54
PROPOSED WORK: LEASE NO. _____
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5100'

WELL OPERATOR ANVIL OIL CO., INC. DESIGNATED AGENT JUSTIN HENDERSON
ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230 ADDRESS P.O. BOX 1230 FAIRMONT, WV 26554-1230

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: ASH, MATTHEW Operator Well No.: MERCER #4

LOCATION: Elevation: 1027.00 Quadrangle: SHIRLEY

District: CENTERVILLE County: TYLER
Latitude: 12100 Feet South of 39 Deg. 25Min. 0 Sec.
Longitude 3040 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: ANVIL OIL CO., INC.
2099 PLEASANT VALLEY ROAD
FAIRMONT, WV 26554-1230

Agent: JUSTIN L. HENDERSON

Inspector: GLEN P. ROBINSON
Permit Issued: 04/04/90
Well work Commenced: 04-11-90
Well work Completed: 04-16-90
Verbal Plugging
Permission granted on: _____
Rotary XX Cable _____ Rig
Total Depth (feet) 5117
Fresh water depths (ft) _____
865
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4		130	CTS
8 5/8	1920	1888	CTS
4 1/2	5117	5095	450 sks
RECEIVED			
JUN 1 9 90			

Energy Section

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4980
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 4 Hours
Static rock Pressure 1600 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
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

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: [Signature]
Date: 6-15-90

JUN 29 1990

Clay	0	5
Sd/Sh	5	310
RR	310	340
Sd/Sh	340	1875
Lime	1875	1944
Sd	1944	2010
Sh/Sd	2010	5117

E Log Tops

Big Lime	1892
Berea	2420
Benson	4902

Perforate Benson from 4979 to 4983 with 14 holes
Frac with 420 sks sand, 455 obls treated fluid
98,000 scf N₂ Avg rate 19.5 BPM Avg Psi 1246#

7/075-1383

Page 9 of 10
MAR 19 1990

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

- 1) Well Operator: 0048 ANVIL OIL CO., INC. 2275 (1) 606
- 2) Operator's Well Number: MERCER WELL NO. 4 3) Elevation: 1027'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Deep / Undergroud Storage / Shallow /
- 5) Proposed Target Formation(s): 435 Benson
- 6) Proposed Total Depth: 5100 feet
- 7) Approximate fresh water strata depths: 110' C-104'
- 8) Approximate salt water depths: 1809' N/A water in MAX
- 9) Approximate coal seam depths: N/A possible 1 ft coal blossom C-108-644
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

Issued 4/4/90
Expires 4/4/92

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<i>3/14/90</i> Conductor	11-3/4"			120'	120'	CTS
Fresh Water	8-5/8"			1895'	1895'	By Rule 38 CSR 18-11.3
Coal						
Intermediate						
Production	4-1/2"			5100'	5100'	By Rule 38 CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

3443
 #6 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Security Deposit Agent
 (Type)

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MAR 19 1990

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1)
2)
3)

Date: 3-16-90
Operator's well number
Mercer #4
API Well No: 47 - 095 - 1383
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 Matthew Ash
Address HCR 74, Box 73
Alma, WV 26320
(b) Name _____
Address _____
(c) Name _____
Address _____

6) Inspector Glen P. Robinson
Address Route 1
Mineral Wells, WV 26150
Telephone (304)- _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
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
_____ 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:
_____ 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 & Gas Co., Inc.
By: Justin L. Henderson
Its: President
Address P.O. Box 1230
Fairmont, WV 26554
Telephone 3631362

Subscribed and sworn before me this 16th day of March, 1990

[Signature]
My commission expires July 3, 1990 Notary Public