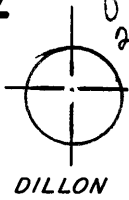


C. HENDERSON

LEASE

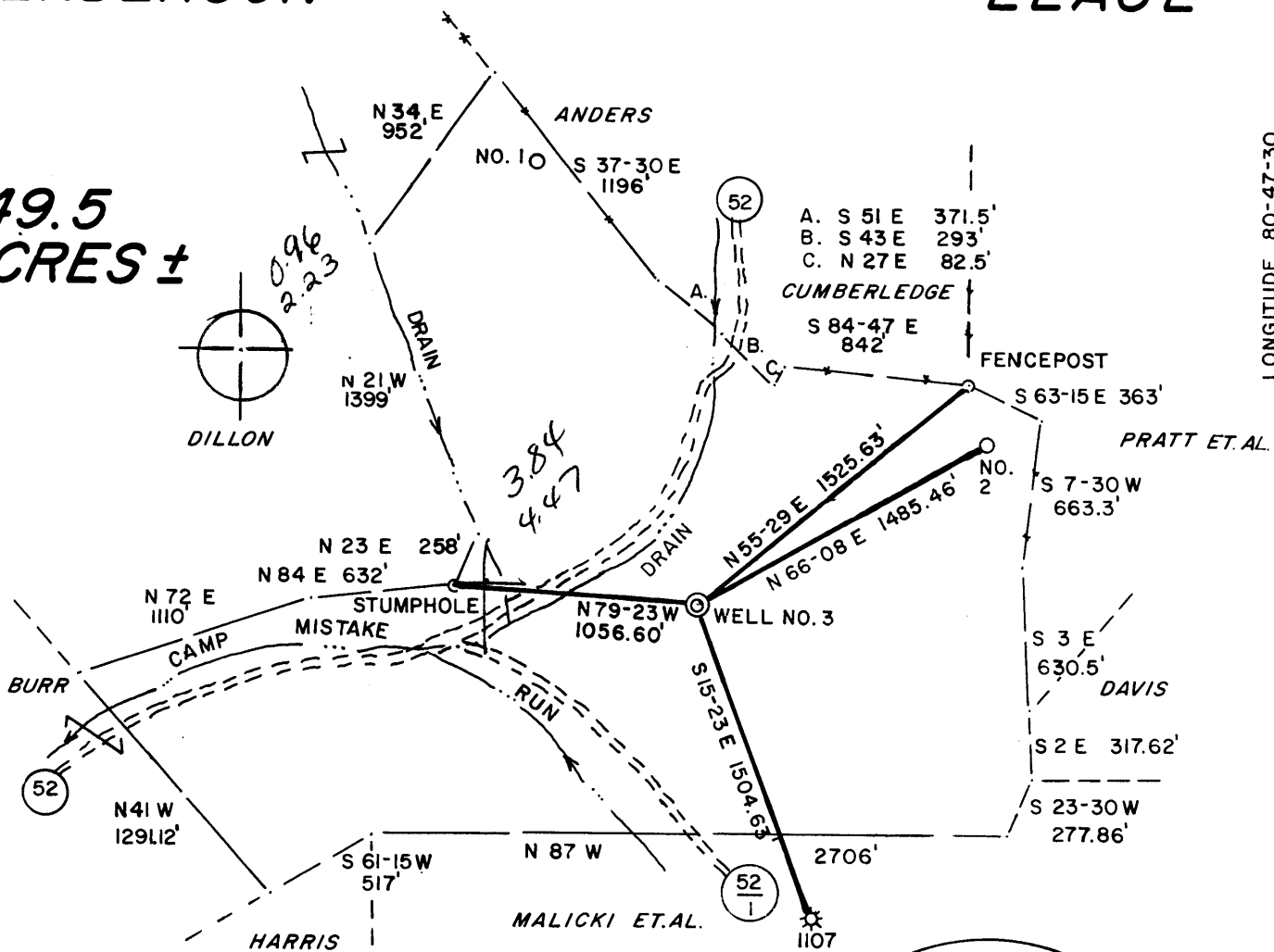
Janie 7/13/89

149.5
ACRES ±

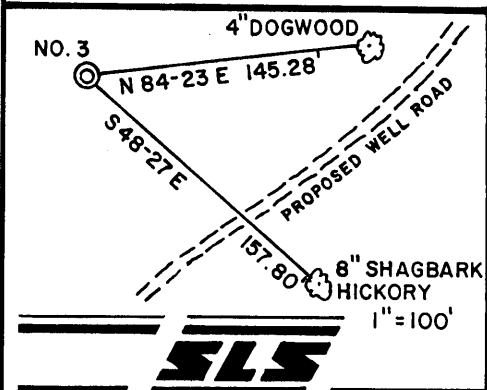


NORTH

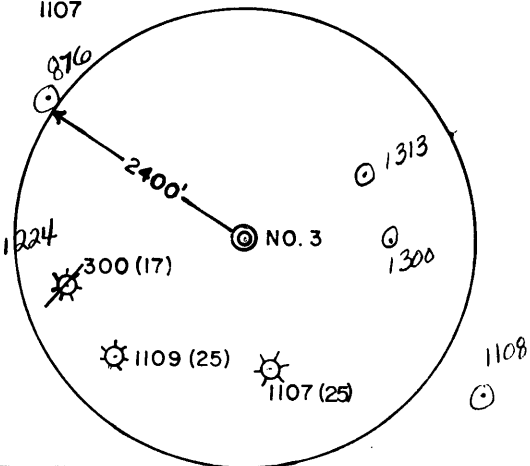
LONGITUDE 80-47-30



REFERENCES

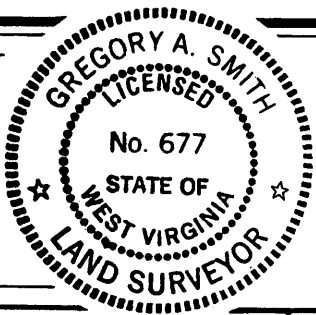


WELL NO. 3



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 JUNE 23, 19 89
OPERATORS WELL NO. C. HENDERSON NO. 3
API WELL NO. 47 - 095 - 1314
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1666 (24-12)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. = 996' SCALE 1" = 800'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 926' WATERSHED CAMP MISTAKE RUN QUADRANGLE WEST UNION 7.5' 671
DISTRICT CENTERVILLE COUNTY TYLER ACREAGE 149.5 LEASE ACREAGE 149.5
SURFACE OWNER CHARLES W. HENDERSON ET.AL. LEASE NO. WVO1754-A
ROYALTY OWNER CHARLES W. HENDERSON ET.AL.
PROPOSED WORK: 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 4985'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI
ADDRESS BOX N GLENVILLE, WV. 26351 ADDRESS 501 56th. ST. CHARLESTON, WV. 25304

6-6 Wilbur (092)

RECEIVED
DEC 04 1989

20-Jul-89
API # 47- 95-01314

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

Division of Oil and Gas
DEPARTMENT OF ENERGY
Well Operator's Report of Well Work

Farm name: DAUGHERTY, CHARLES ETAL. Operator Well No.: C. HENDERSON #3

LOCATION: Elevation: 926.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 5170 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 11780 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C
501 56TH ST.
CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: GLEN P. ROBINSON
Permit Issued: 07/20/89
Well work Commenced: 09/18/89
Well work Completed: 09/30/89
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5090'
Fresh water depths (ft) 55', 420'

Salt water depths (ft) 1380'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____ None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	126.00'	126.00'	C.T.S.
8-5/8"	1139.45'	1139.45'	C.T.S.
4-1/2"	4900.70'	4900.70'	916
1-1/2"	---	4803.80'	---

OPEN FLOW DATA

Producing formation Benson, Riley (Commingle) Pay zone depth (ft) 4818'-4401'
Gas: Initial open flow 731 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 413 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1250 psig (surface pressure) after 24 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: Rich Heffelfinger
EASTERN AMERICAN ENERGY CORP.
Rich Heffelfinger
By: Vice President - Regional Operations
Date: October 18, 1989

DEC 08 1989

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

2-STAGE FOAM FRAC:

STAGE 1: Benson - 8 holes (4818'-4815') Breakdown 1710 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 5,000 lbs 80/100 sand and 40,000 lbs 20/40 sand, 500 gals 15% HCl and 576,000 scf of N₂

STAGE 2: Riley - 12 holes (4430'-4401') Breakdown 1510 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 5,000 lbs 80/100 sand and 30,000 lbs 20/40 sand, 500 gals 15% HCl and 505,000 scf of 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	
Shale			15	55	1/2" water @ 55'
Sand			55	75	1/4"-1/2" water @ 420'
Red Rock & Shale			75	96	Soap Hole @ 436'
Sand and Shale			96	317	Hole Damp @ 1260'
Red Rock			317	405	1/2"-1/2" water @ 1380'
Sand			405	460	Soap Hole @ 1295'
Shale and Red Rock			460	528	
Sand and Shale			528	630	
Red Rock			630	655	
Sand and Shale			655	720	<u>GAS CHECKS:</u>
Shale and Red Rock			720	875	1728' - No show
Sand and Shale			875	1721	1854' - 12/10 thru 2" w/mercury
Little Lime			1721	1734	2014' - 12/10 thru 2" w/mercury
Sand and Shale			1734	1762	2164' - 12/10 thru 2" w/mercury
Big Lime			1762	1816	2295' - 8/10 thru 2" w/mercury
Sand and Shale			1816	1960	2799' - 6/10 thru 2" w/mercury
Shale			1960	2117	3209' - 10/10 thru 2" w/mercury
Weir			2117	2228	3906' - 6/10 thru 2" w/mercury
Shale w/Tr. Sand			2228	3222	4412' - 8/10 thru 2" w/mercury
Warren			3222	3273	4538' - 8/10 thru 2" w/mercury
Shale w/Tr. Sand			3273	4378	4917' - 8/10 thru 2" w/mercury
Riley			4378	4448	5090' - 6/10 thru 2" w/mercury
Shale w/Tr. Sand			4448	4808	
Benson			4808	4853	
Shale			4853	5090 T.D.	

RECEIVED
DEC 04 1980

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

9157

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

16

- 1) Well Operator: Eastern American Energy Corporation 14980 (1) 670
- 2) Operator's Well Number: C. HENDERSON #3 - WVTYL001003 3) Elevation: 926'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 4985 feet
- 7) Approximate fresh water strata depths: 90', 410'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and complete 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.)
Conductor	11"	F-25	37.5	120'	<i>CS</i> 120'	C.T.S.
Fresh Water	8 5/8"	J-55	20.0	1455'	<i>CS</i> 1455'	C.T.S.
Coal						38CSR18-11.3 38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	4900'	4900'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

RECEIVED
JUN 30 1989

For Division of Oil and Gas Use Only DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

4604 15
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Charles Durre Agent
(Type)

RECEIVED
JUN 30 1989

Page 1 of 8
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: June 27, 1989
2) Operator's well number
C. HENDERSON #3 - WVTYL001003
3) API Well No: 47 - 095 - 1314
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 Charles Daugherty
Address Rt. 2, Box 412
New Martinsville, WV 26155
 - (b) Name George B. Conklin
Address 741 Keen Avenue
Ashland, OH 44805
 - (c) Name John A. Conklin
Address 822 Hillcrest Drive
Ashland, OH 44805
- 5) (a) Coal Operator:
 - Name None
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Glen P. Robinson
Address Rt. 1, #6 Mt. Pleasant Est.
Mineralwells, WV 26150
Telephone (304)- 489-9162

. . . SEE ADDITIONAL SHEET.

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
XX 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 8 on the above named parties, by:
 ____ Personal Service (Affidavit attached)
XX 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 Eastern American Energy Corporation
 By: John M. Paletti *John M. Paletti*
 Its: Designated Agent
 Address P.O. Box N
Glennville, WV 26351
 Telephone (304) 462-5781

Subscribed and sworn before me this 27th day of June, 1989

My commission expires July 2, 1996
Ja. Lorraine Howe Notary Public