

Janie 6/2/98

LATITUDE 39-17-30

PERKINS LEASE 1010 ACRES± TOTAL WELL NO. 9

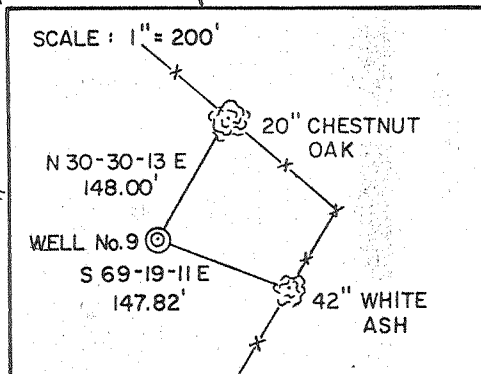
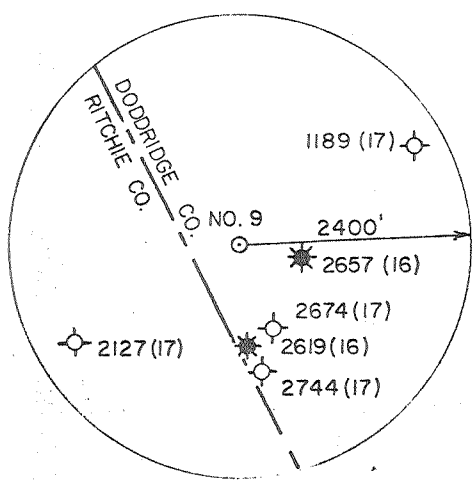
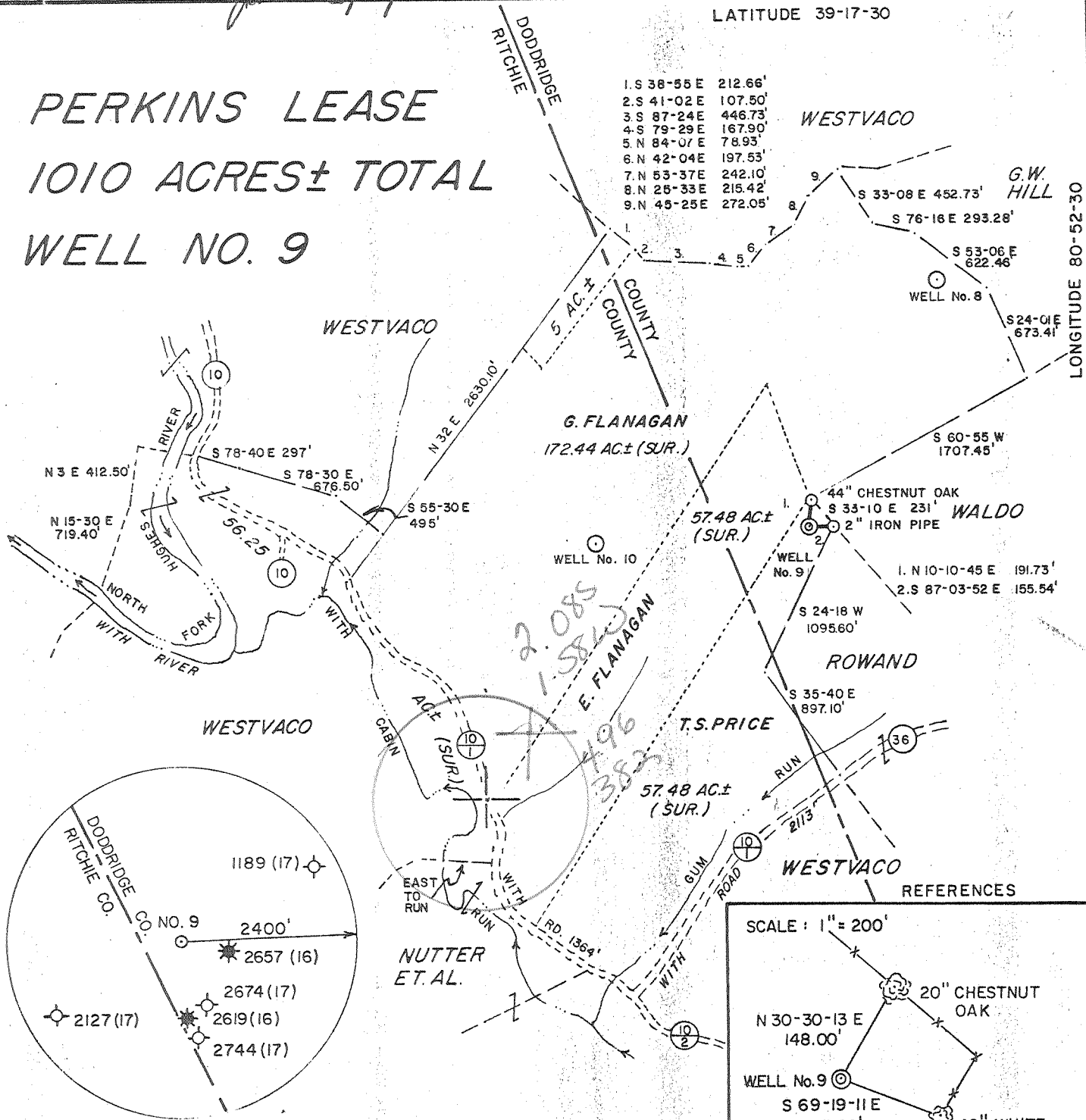
- 1. S 38-55 E 212.66'
- 2. S 41-02 E 107.50'
- 3. S 87-24 E 446.73'
- 4. S 79-29 E 167.90'
- 5. N 84-07 E 78.93'
- 6. N 42-04 E 197.53'
- 7. N 53-37 E 242.10'
- 8. N 25-33 E 215.42'
- 9. N 45-25 E 272.05'

WESTVACO

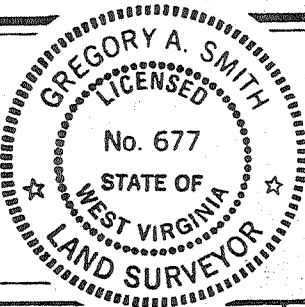
G.W. HILL

LONGITUDE 80-52-30

NORTH



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MAY 10, 19 88
 OPERATORS WELL NO. WVRIT-002209
 PERKINS NO. 9
 API WELL NO. 47-017-3643
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1838 (24-41)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV.=1090' SCALE 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ "IF" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1120. WATERSHED CABIN RUN QUADRANGLE PENNSBORO 75' 539
 DISTRICT CENTRAL COUNTY DODDRIDGE ACREAGE 57.48
 SURFACE OWNER THOMAS S. PRICE LEASE ACREAGE 343.65 OF 1010
 ROYALTY OWNER W. FLANAGAN HEIRS ET.AL. LEASE NO. 8
 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 ALEXANDER ESTIMATED DEPTH 5270'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT DONALD SUPCOE
 ADDRESS BOX N GLENVILLE, W.V. 26351 ADDRESS BOX N GLENVILLE, W.V. 26351

COUNTY NAME PERMIT

JUN 10 1988

66 Greenwood (89)

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

Well Operator's Report of Well Work

Farm name: PRICE, THOMAS S. Operator Well No.: PERKINS 9

LOCATION: Elevation: 1120.00 Quadrangle: PENNSBORO

District: CENTRAL County: DODDRIDGE
Latitude: 11110 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude: 8380 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C
P. O. BOX N
GLENNVILLE, WV

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 06/09/88
Well work Commenced: 09/08/88
Well work Completed: 09/23/88

Verbal Pluggings
Permission granted on: _____

Rotary Cable _____ Ris _____
Total Depth (feet) 5361'
Fresh water depths (ft) 450', 580'

Salt water depths (ft) 1550'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 1058', 1240'

Casings & Tubing Size	Used in Drilling	Left in Well	Cement Fill Cu. Ft.
8-5/8"	1635.15'	1636.15'	C.T.S.
4-1/2"	5336.60'	5336.60'	731'
1-1/2"	---	3535.75'	---

RECEIVED
OCT 26 1988

OPEN FLOW DATA

Warren (Commingle) DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Producing formation Alexander/Benson, Riley, Pay zone depth (ft) 5225.5'-3409.5'
Gas: Initial open flow 805 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 386 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1150 psig (surface pressure) after 15 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.

Rich Heffelfinger
For: EASTERN AMERICAN ENERGY CORP. OCT 28 1988
Rich Heffelfinger
By: Vice President - Regional Operations
Date: October 20, 1988

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

3-STAGE FOAM FRAC

- Stage 1: 13 holes (5225.5'-4934.5') Breakdown @ 1650 psi, 60 quality foam, 30,000 lbs. of 20/40 sand, 507 Msct of N₂
Allen ← *Borden*
- Stage 2: 12 holes (4568.5'-4534') Breakdown @ 1560 psi, 75 quality foam, 29,000 lbs. of 20/40 sand, 650 Msct of N₂
Allen ← *Warren*
- Stage 3: 12 holes (3450'-3409.5') Breakdown @ 1950 psi, 75 quality foam, 19,000 lbs. of 20/40 sand, 560 Msct 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
Sand & Shale	0	15	
Sand	15	40	
Red Rock & Shale	40	185	Damp @ 450'
Sand & Shale	185	370	
Red Rock	370	380	1/2" stream water @ 580'
Shale & Red Rock	380	445	
Sand	445	475	
Red Rock	475	480	
Sand & Shale	480	1058	
Coal	1058	1063	Coal @ 1058' and 1240'
Sand & Shale	1063	1545	
Sand	1545	1565	
Sand & Shale	1565	1580	1/2" stream water @ 1550'
Sand	1580	1630	
Sand & Shale	1630	1895	
Sand	1895	1933	Gas checks as follows: 1910' Gas Odor
Sand & Shale	1933	1974	1945' 4/10 thru 7" w/water
Big Lime	1974	2060	2192' 4/10 thru 7" w/water
Big Injun	2060	2128	2377' 6/10 thru 7" w/water
Sand & Shale	2128	2320	2500' 2/10 thru 7" w/water
Weir	2320	2440	3302' 120/10 thru 2" w/water
Sand & Shale	2440	3390	4198' 90/10 thru 2" w/water
Warren	3390	3458	4534' 80/10 thru 2" w/water
Sand & Shale	3458	4530	4656' 70/10 thru 2" w/water
Riley	4530	4580	4903' 68/10 thru 2" w/water
Sand & Shale	4580	4930	5054' 70/10 thru 2" w/water
Benson	4930	4940	5237' 120/10 thru 2" w/water
Sand & Shale	4940	5176	5361' 120/10 thru 2" w/water
Alexander	5176	5250	D.C. 120/10 thru 2" w/water
Sand & Shale	5250	5361 T.D.	

RECEIVED
 OCT 26 1988
 DEPARTMENT OF OIL & GAS

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY
 OCT 28 1988

(Attach separate sheets as necessary)

735

017-3643
 Issued 06/09/88 Expires 06/09/90
 Page 8 of 8

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

- 1) Well Operator: ²⁵⁹ Eastern American Energy Corporation **14980, 1, 538**
- 2) Operator's Well Number: Perkins #9 (WRIT002209) 3) Elevation: 1120
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): ⁴³⁹ Alexander
- 6) Proposed Total Depth: 5270 feet
- 7) Approximate fresh water strata depths: 460', 540'
- 8) Approximate salt water depths: 1215', 1890'
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 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	32'	0	---
Fresh Water	8-5/8"	J-55	20.0	1220'	1220'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	5270'	5270'	400 cu.ft. 38CSR18-11.1
Tubing	1-1/2"	H-40	2.75		3700'	
Liners						

RECEIVED
 JUN 02 1988
 MAY 31

PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

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

7135

690
 He
 JS

RECEIVED

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

JUN 02 1988
MAY 31
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: May 19, 1988
2) Operator's well number
Perkins #9 (WVRI002209)
3) API Well No: 47 - 017 - 3643
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 Thomas S. Price
Address 10092 Dover Road
Apple Creek, OH 44606
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Rt. 2, Box XXX 135
Salem, WV 26426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
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, Eastern American Energy Corporation
By: [Signature]
Its: Designated Agent
Address P.O. Box N
Glenville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 19th day of May, 1988

Edna Marie Huff Notary Public
My commission expires August 2, 1993