

Jan 6/14/88

LATITUDE 39-17-30

PERKINS LEASE 1010 ACRES± TOTAL WELL NO. 8

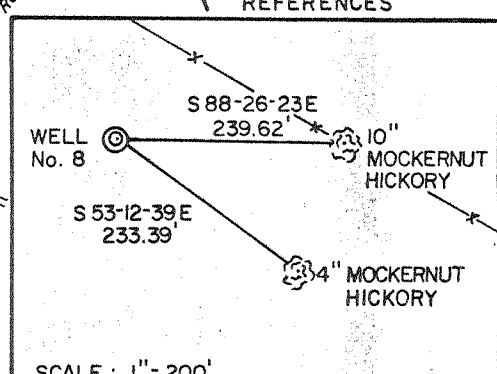
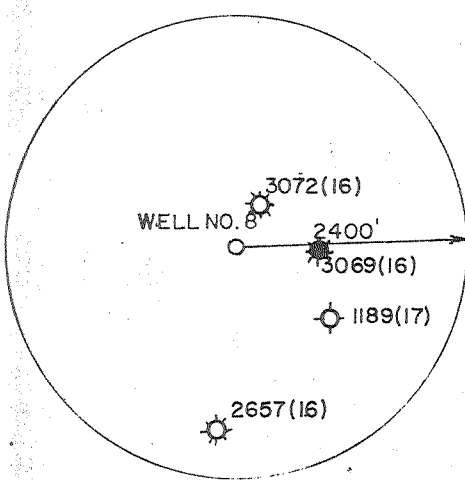
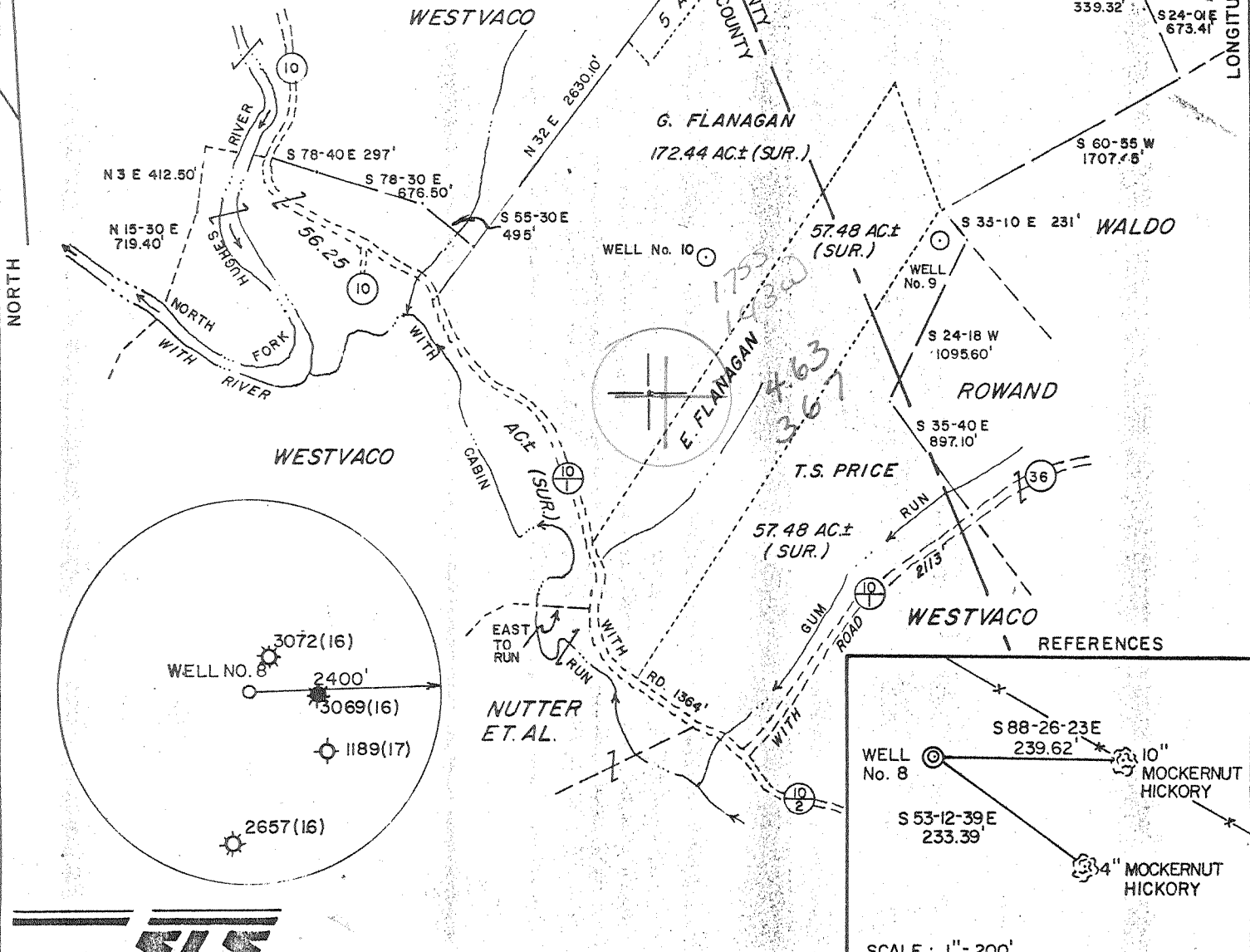
- 1. S 38-55 E 212.66'
- 2. S 41-02 E 107.50'
- 3. S 87-24 E 446.73'
- 4. S 79-29 E 167.90'
- 5. N 84-07 E 78.93'
- 6. N 42-04 E 197.53'
- 7. N 53-37 E 242.10'
- 8. N 25-33 E 215.42'
- 9. N 45-25 E 272.05'

WESTVACO

G.W. HILL

- S 33-08 E 452.73'
- S 76-16 E 293.28'
- N 27-41-10 W 343.58'
- S 53-06 E 622.46'
- WELL No. 8
- S 76-14-05 E 339.32'
- S 24-01 E 673.41'

OC 25-08
LONG 80-52-30
036

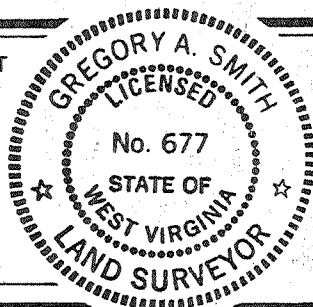


SCALE: 1" = 200'



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 MAY 10, 19 88
 OPERATORS WELL NO. WVRIT-002208
PERKINS NO. 8
 API WELL NO. 47 - 017 - 3644
 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 ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1088. WATERSHED CABIN RUN QUADRANGLE PENNSBORO 7.5 539
 DISTRICT CENTRAL COUNTY DODDRIDGE ACREAGE 172.44
 SURFACE OWNER GEORGE FLANAGAN et ux. LEASE ACREAGE 343.65 OF 1010
 ROYALTY OWNER W. FLANAGAN HEIRS ET.AL. LEASE NO. 133

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 524888

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

6-6 Greenwood (89)

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

Well Operator's Report of Well Work

Farm name: FLANAGAN, GEROGE Operator Well No.: PERKINS 8

LOCATION: Elevation: 1088.00 Quadrangle: PENNSBORO

District: CENTRAL County: DODDRIDGE
Latitude: 9300 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 7590 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: 06/16/88
Well work Commenced: 09/02/88
Well work Completed: 09/20/88
Verbal Plussings
Permission granted on: _____
Rotary Cable _____ Ris
Total Depth (feet) 5197'
Fresh water depths (ft) 195'
Salt water depths (ft) 1540'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 827', 1020'

Casings & Tubings Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1209.35'	1209.35'	C.T.S.
4-1/2"	5255.5'	5255.5'	799
1-1/2"	---	3531.1'	---

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

(Commingled)

Producing formation Alexander, Riley, Warren Pay zone depth (ft) 5197'-3359.5'
Gas: Initial open flow 787 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 480 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 1200 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 PERFORMED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

3-STAGE FOAM FRAC

- Stage 1: 12 holes (5197'-5192'), Breakdown @ 2180 psi, 60 quality foam, 30,000 lbs. of 20/40 sand, 439.8 Msct of N₂
- Stage 2: 12 holes (4542.5'-4522.5'), Breakdown @ 1810 psi, 75 quality foam, 30,000 lbs. of 20/40 sand, 650 Msct of N₂
- Stage 3: 14 holes (3408'-3359.5'), Breakdown @ 2450 psi, 75 quality foam, 25,000 lbs. of 20/40 sand, 625 Msct of N₂

WELL LOG

REMARKS	BOTTOM FEET	TOP FEET	FORMATION COLOR HARD OR SOFT
Including indication of all fresh and salt water, coal, oil and gas			Red Rock & Shale
	195	0	Sand & Shale
	295	195	Red Rock & Shale
	380	295	Sand & Shale
	535	380	Red Rock
	620	535	Sand & Shale
	827	620	Coal
	831	827	Sand, Shale & Red Rock
Coal	1020	831	Coal
	1025	1020	Shale & Red Rock
Coal	1150	1025	Sand & Shale
1/4" stream water @ 1540'	1490	1150	Sand
Gas Checks as follows:	1555	1490	Sand & Shale
	1880	1555	Sand
	1910	1880	Sand & Shale
	1910	1910	Sand & Shale
1853' No Show	1940	1910	Big Lime
2007' No Show	2030	1940	Big Injun
2131' 2/10 thru 1" w/water	2090	2030	Sand & Shale
2220' Oil Odor	2284	2090	Well
3487' 90/10 thru 1" w/water	2406	2284	Sand & Shale
4012' 20/10 thru 2" w/water	3350	2406	Warren
4693' 100/10 thru 1" w/water	3430	3350	Sand & Shale
4940' 10/10 thru 2" w/water	4500	3430	Riley
5248' 12/10 thru 2" w/water	4552	4500	Sand & Shale
5403' 10/10 thru 2" w/water	4904	4552	Benson
D.C.'s 4/10 thru 2" w/water	4912	4904	Sand & Shale
	5150	4912	Alexander
	5220	5150	Sand & Shale
	5403 T.D.	5220	Sand & Shale

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
OCT 28 1988

(Attach separate sheets as necessary)

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

- 1) Well Operator: Eastern American Energy Corporation ²⁵⁹ 14980, 1, 538
- 2) Operator's Well Number: Perkins #8 (WRIT002208) 3) Elevation: 1088'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5240 feet
- 7) Approximate fresh water strata depths: 430', 500'
- 8) Approximate salt water depths: 1182', 1858'
- 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	32'	0	---
Fresh Water	8-5/8"	J-55	20.0	1188'	1188'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5240'	5240'	400 cu.ft. 38CSR18-11.1
Tubing	1-1/2"	H-40	2.75		3675'	
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 76 Well Work Permit 76 Reclamation Fund 76 WPCP

Plat 76 WW-9 76 WW-2B 76 Bond 50 Blanket Agent 76

(Type)

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Form WW2-A
(09/87)
File Copy

1) Date: May 19, 1988
2) Operator's well number
Perkins #8 (WVRI002208)
3) API Well No: 47 - 017 - 3644
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 George Flanagan
Address 13283 Dawn Avenue
Uniontown, OH 44685
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Rt. 2, Box 135
Salem, WV 26426
Telephone (304)- 782-1043

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 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