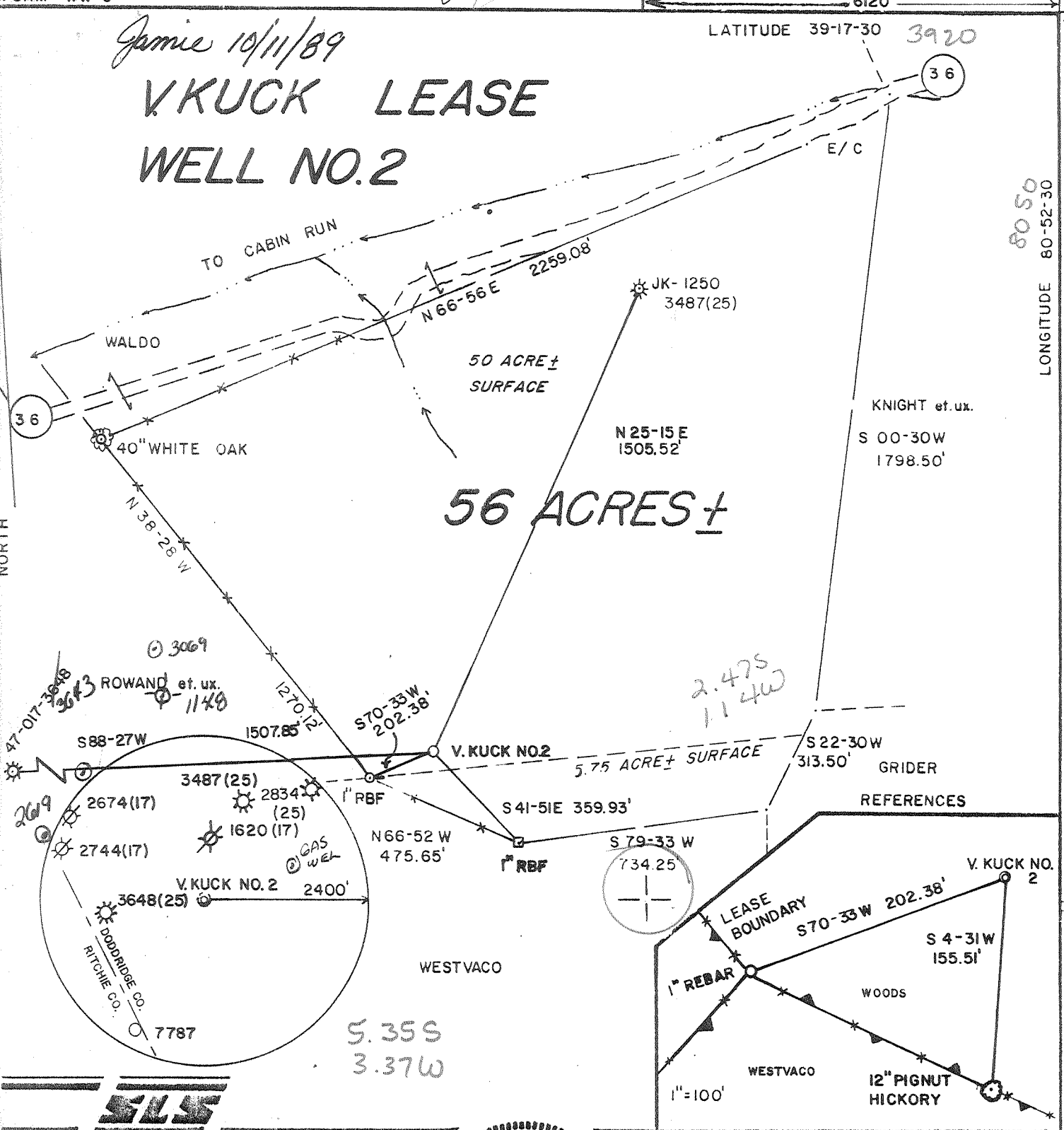


Jamie 10/11/89

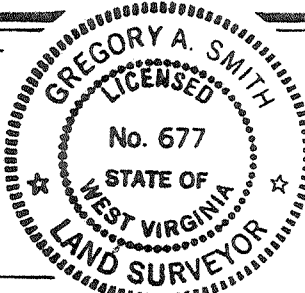
# V. KUCK LEASE WELL NO. 2

LATITUDE 39-17-30 3920

36



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 SEPTEMBER 1, 19 89  
 OPERATORS WELL NO. V. KUCK NO. 2  
 WVDODD001402  
 API WELL NO. 47-017-3751  
 STATE COUNTY PERMIT

L.L.S. 677 Gregory A. Smith

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 18-56,57 (1344) 29-75  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1"=400' ELEV. 1208'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1166' WATERSHED BRANCH OF CABIN RUN QUADRANGLE PENNSBORO 7.5'  
 DISTRICT CENTRAL COUNTY DODDRIDGE SURFACE OWNER HOWARD G WALDO, et al. ACREAGE 50 OF 56.7  
 ROYALTY OWNER VIRGINIA W. KUCK LEASE ACREAGE 56.7

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 ALEXANDER ESTIMATED DEPTH 5440'

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

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

Well Operator's Report of Well Work

Farm name: KNIGHT, ANCIL ETAL. Operator Well No.: V. KUCK #2

LOCATION: Elevation: 1166.00 Quadrangle: PENNSBORO

District: CENTRAL County: DODDRIDGE  
Latitude: 13110 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 6120 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C  
P.O. BOX N  
GLENNVILLE, WV 26351-0000

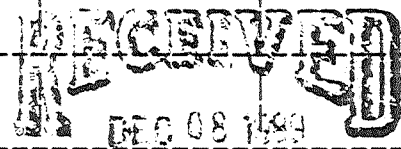
Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 10/11/89  
Well work Commenced: 10/19/89  
Well work Completed: 11/06/89  
Verbal Plugging  
Permission granted on:  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5,490'  
Fresh water depths (ft) 50', 1240'

Salt water depths (ft) None

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.
8-5/8"	1316.90'	1316.90'	C.T.S.
4-1/2"	5421.40'	5421.40'	600
1-1/2"	---	5274.10'	---



OPEN FLOW DATA

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Warren (Commingle) 5314.5'-  
Producing formation Alexander/Benson, Riley, Pay zone depth (ft) 3494'  
Gas: Initial open flow 1330 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 930 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 15 Hours  
Static rock Pressure 1450 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: December 5, 1989

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

3-STAGE FOAM FRAC

- STAGE 1: Alexander/Benson - 11 holes (5314.5'-5022.5') Breakdown 1370 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl acid and 408,000 scf of N<sub>2</sub>
- STAGE 2: Riley - 13 holes (4662'-4625.5') Breakdown 1330 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl acid and 613,000 scf of N<sub>2</sub>
- STAGE 3: Warren - 13 holes (3537'-3494') Breakdown 1415 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 20,200 lbs 20/40 sand, 650 gals 28% HCl acid and 487,000 scf of N<sub>2</sub>

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	20	Hole wet @ 50' (1/2" water)
Sand and Shale			20	110	1/2" stream water @ 1240'
Sand and Shale and Red Rock			110	220	
Shale and Red Rock			220	256	
Sand and Shale			256	346	
Red Rock			346	360	<u>GAS CHECKS:</u>
Shale and Red Rock			360	405	2137' - No show
Shale			405	460	2201' - No show
Red Rock			460	481	2359' - No show
Red Rock and Shale			481	525	2517' - No show
Sand and Shale			525	648	3022' - No show
Red Rock and Shale			648	716	3400' - No show
Sand and Shale			716	905	3557' - No show
Red Rock			905	1000	4001' - No show
Sand and Shale			1000	1080	4500' - Odow
Shale and Red Rock			1080	1240	4732' - 4/10 thru 1" w/water
Sand and Shale			1240	1648	4923' - 4/10 thru 1" w/water
Sand and Shale			1648	2035	5048' - No show
Little Lime			2035	2044	5205' - No show
Sand and Shale			2044	2072	5363' - 2/10 thru 1" w/water
Big Lime			2072	2119	D.C. - 4/10 thru 1" w/water
Sand and Shale			2119	2218	
Shale w/Tr. Sand			2218	2402	
Weir			2402	2476	
Siltstone			2476	2528	
Shale			2528	2580	
Berea			2580	2585	
Shale w/Tr. Sand			2585	3486	
Warren			3486	3545	
Shale w/Tr. Sand			3545	4608	
Riley			4608	4681	
Shale and Sand			4681	5020	
Benson			5020	5058	
Shale w/Tr. Sand			5058	5271	
Alexander			5271	5345	
Shale			5345	5490 T.D	

RECEIVED  
DEC 08 1963

DIVISION OF OIL AND GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

017-3751

Issued 10/11/89 Expires 10/11/91

13

FORM WW-2B

Page 3 of 8

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

- 1) Well Operator: <sup>259</sup> Eastern American Energy Corporation 14980 (1) 538
- 2) Operator's Well Number: V. Kuck #2 - WVDOD001402 3) Elevation: 1166'
- 4) Well type: (a) Oil \_\_\_ / or Gas XX /  
(b) If Gas: Production XX / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow XX /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5440 feet
- 7) Approximate fresh water strata depths: 167', 257', 517'
- 8) Approximate salt water depths: ~~XXXX~~ 1689'
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No XX /
- 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	30'	-----	
Fresh Water	8 5/8"	J-55	20.0	1300'	1300'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	5355'	5355'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

RECEIVED  
SEP 27 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

5479  
24 | Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket Sure (Type)  Agent

**RECEIVED**  
SEP 27 1989

DIVISION OF OIL & GAS 3)  
DEPARTMENT OF ENERGY

Date: September 6, 1989  
Operator's well number  
V. Kuck #2 - WVDOD001402  
API Well No: 47 - 017 - 3751  
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 Ancil Knight, et al  
Address Rt. 1  
Greenwood, WV 26360  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304)-782-1043

(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  
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  
Glenville, WV 26351  
Telephone (304) 462-5781

Subscribed and sworn before me this 18th day of September, 1989

My commission expires \_\_\_\_\_  
John Lorraine Rowe Notary Public  
July 2, 1996