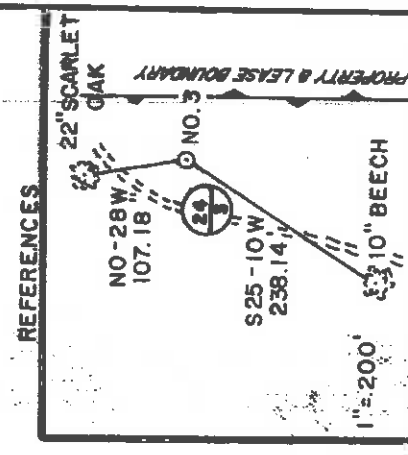
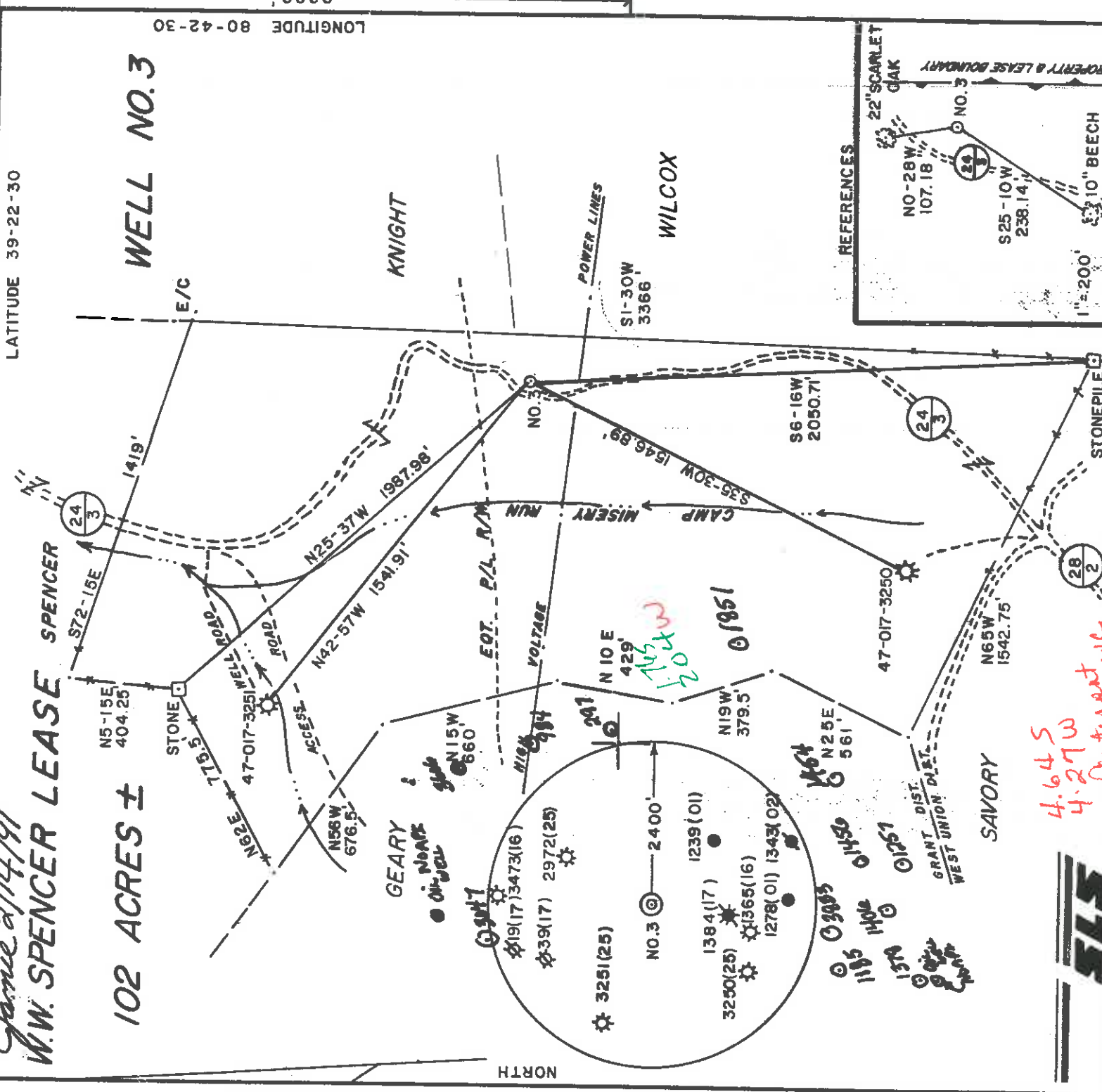


Jamie 2/14/91
W.W. SPENCER LEASE

102 ACRES ±

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. *Gregory A. Smith*
677

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JANUARY 24, 1991
OPERATORS WELL NO. W.W. SPENCER NO. 3
API WELL NO. WV000002403
WELL NO. 47-017-3880
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 2507 (34-36)
PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV 1307' SCALE 1" = 500'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1077' WATERSHED CAMP MISERY RUN

DISTRICT GRANT 3 COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5'
SURFACE OWNER MURIEL SPENCER, et al. ACREAGE 102
ROYALTY OWNER MURIEL SPENCER, et al. LEASE ACREAGE 102

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 BENSON ESTIMATED DEPTH 5270'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP DESIGNATED AGENT JOHN PALETTI
ADDRESS BOX N GLENVILLE, WV. 26351 259
COUNTY NAME PERMIT

H. T. HALL 066995
6-6 Swiger (Flight Run) (097)

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

Well Operator's Report of Well Work

Farm name: KILE, EFFIE ETAL. Operator Well No.: W.W. SPENCER #3
KEYSTONE/

LOCATION: Elevation: 1077.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 9280 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10720 Feet West of 80 Deg. 42 Min. 30 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 02/26/91
Well work Commenced: 05/10/91
Well work Completed: 05/22/91

Verbal Plugging

Permission granted on: Rig

Rotary X Cable 5246'

Total Depth (feet) 5246'

Fresh water depths (ft) 63'

Salt water depths (ft) 2106'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): None

OPEN FLOW DATA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1207'	1207'	C.T.S.
4-1/2"	5229'	5229'	210
1-1/2"		5085'	

OPEN FLOW DATA

Producing formation Benson, Riley (Commingle) Pay zone depth (ft) 5120.5' - 4663.0'
Gas: Initial open flow 292 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 223 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 900 psig (surface pressure) after 24 Hours

Second producing formation

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: EASTERN AMERICAN ENERGY CORP.

BY: Ronald L. Rech, Regional Drilling Manager

Date: June 13, 1991

JUL 29 1991

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

2-STAGE FOAM FRAC

Stage 1: Benson - 12 holes (5120.5'-5114') 70 Quality foam, 20 lbs gel/1000 gals, 50,000 lbs 20/40 sand, 500 gals 15% HCl acid, 604,800 scf of N₂
Stage 2: Riley - 12 holes (4667'-4663.5') 70 Quality foam, 20 lbs gel/1000 gals, 15,000 lbs 20/40 sand, 500 gals 15% HCl acid, 429,100 scf of N₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
K.B. - G.L.			0	10	Including indication of all. fresh and salt water, coal, oil and gas
Shale and Red Rock			10	80	
Sand and Shale			80	105	1/2" stream @ 63'
Red Rock			105	125	Dusting @ 1265'
Sand and Shale			125	147	GAS CHECKS: 1516' - No show 1960' - No show 2060' - Oil Odor 2106' - Hole Damp No gas shows at all.
Red Rock			147	155	
Shale and Red Rock			155	257	
Sand and Shale			257	335	
Shale and Red Rock			335	495	
Shale and Red Rock			495	517	
Sand and Shale			517	547	
Red Rock			547	880	
Sand and Shale			880	1000	
Shale and Red Rock			1000	1055	
Sand and Shale			1055	1190	
Shale and Red Rock			1190	1250	
Sand and Shale and Red Rock			1250	1483	
Red Rock and Shale			1483	1520	
Sand and Shale			1520	1612	
Sand			1612	1982	
Sand and Shale			1982	1995	
Little Lime			1995	2023	
Lime and Shale			2023	2096	
Big Lime			2096	2226	
Injun Sand			2226	2348	
Sand and Shale			2348	2513	
Weir			2513	2636	
Sand and Shale			2636	2661	
Berea			2661	3450	
Sand and Shale			3450	3502	
Sand			3502	4670	
Sand and Shale			4670	4700	
Riley			4700	4980	
Sand and Shale			4980	5040	
Riley			5040	5105	
Shale			5105	5115	
Benson			5115	5246 T.D.	
Shale			5246		

(Attach separate sheets as necessary)

54811

47-017-3880
 Issued 2/26/91
 Expires 2/26/93
 Page 3 of 8

RECEIVED
 FEB 07 1991

FORM WW-2B STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Eastern American Energy Corporation 14990 (3) 610
- 2) Operator's Well Number: W.W. Spencer #3 WYDOD002403 3) Elevation: 1077'
- 4) Well type: (a) Oil ___ / or Gas XX /
 (b) If Gas: Production XX / Underground Storage ___
 Deep ___ / Shallow XX
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 5270' feet
- 7) Approximate fresh water strata depths: 204', 239', 514', 719', 1014' 3
- 8) Approximate salt water depths: None OK
- 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)

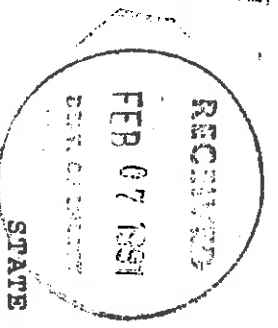
CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 "	F-25	37.5	30'	<u>OK</u>	
Fresh Water	8-5/8"	J-55	20.0	1200'	1200'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	5230'	5230'	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

PACKERS : Kind
 Sizes
 Depths set

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

44811



1) Date: February 5, 1991
2) Operator's well number: W.W. Spencer #3 WVDOD002403
3) API Well No: 47 - 017 - 3880
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 Effie Kile
Address P.O. Box 21
Shirley, WV 26434
(b) Name William L. Spencer
Address Rt. 1, Box 341
New Cumberland, WV 26047
(c) Name Ilma Spencer
Address Rt. 3, Box 180
New Cumberland, WV 26047
(SEE ATTACHED PAGE 1A FOR ADDITIONAL OWNERS)
Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

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 XXX 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:
XXX Personal Service (Affidavit attached)
XXX 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
Its: Designated Agent
Address P.O. Box N
Glenville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 5th day of February, 1991
My commission expires August 2, 1993
Edna Marie Stuyt Notary Public