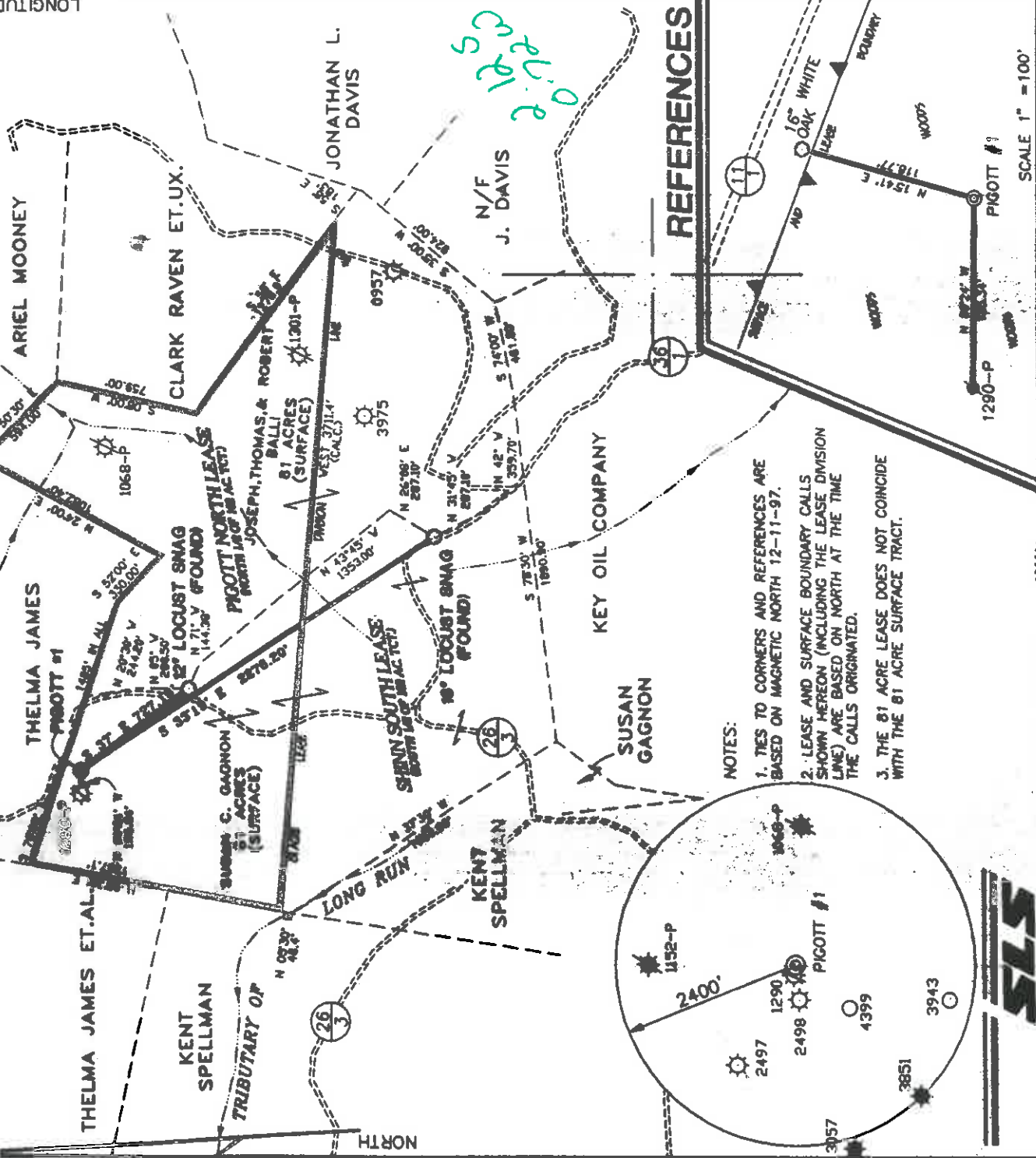


PIGOTT NORTH LEASE 81 ACRES TOTAL WELL #1

LATITUDE 39°20'00"

LONGITUDE 80°50'00"



REFERENCES

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.

P.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE DECEMBER 15, 19 97
 OPERATORS WELL NO. PIGOTT # 1
 API WELL NO. 47-017-04421
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3847P1 (64-55)
 SCALE 1" = 800'
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 802'

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

LOCATION : ELEVATION 1085' WATERSHED TRIBUTARY OF LONG RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER SUSAN C. GAGNON QUADRANGLE WEST UNION 7.5'
 ROYALTY OWNER DONALD LEROY PIGOTT, ET.AL. ACREAGE 81
 LEASE ACREAGE 81 LEASE NO.

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 5600'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA WESTON, WV 26342
 COUNTY NAME PERMIT

6-689

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: GAGNON, GEORGE L..

Operator Well No. : PIGGOTT #1.

LOCATION: Elevation: 1,085.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 11,170 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 3,790 Feet West of 80 Deg. 50 Min. 0 Sec.

County: DODDRIDGE

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 12/29/97
Well Work Commenced: 1/08/98
Well Work Completed: 01/13/98

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5410'
Fresh water depths (ft) 630'
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.
11 3/4"	133.15'	133.15'	70 sks To Surface
8 5/8"	1668.30'	1668.30'	480 sks To Surface
4 1/2"	5376.8'	5376.8'	380 sks
2 3/8"		5189'	

OPEN FLOW DATA

Producing formation: Balltown
Riley
Benson
Alexander

Gas: Initial open flow _____ show _____ MCF / d
Final open flow 1,504 MCF / d
Time of open flow between initial and final tests _____ N/A _____ Hours

Static rock pressure 1750 psig (surface pressure) after 96 _____ Hours

Pay zone depth (ft) 3758' - 4480'
4504' - 4584'
4942' - 4955'
5190' - 5274'

Oil: Initial open flow 0 Bbl / d
Final open flow _____ show _____ Bbl / d

Second producing formation: Commingled

Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / d
Time of open flow between initial and final tests _____ _____ Hours

Static rock pressure _____ psig (surface pressure) after _____ Hours

Pay zone depth (ft) _____
Oil: Initial open flow _____ Bbl / d
Final open flow _____ Bbl / d

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMED 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: KEY OIL COMPANY

By: 

Date: August 4, 1998

PRESIDENT

D000 4421

Piggott #1 (47-017-4421)
 Four Stage Foam Frac - Halliburton

1st Stage: Alexander (12 holes) (5209.50' to 5250.25') 60 Quality Foam. 500 gal. 15% HCL.
 60,000# 20/40 sand, 550,000 SCF N2,
 812 bbls foam.

2nd Stage: Benson (12 holes) (4948.75' to 4951.50') 60 Quality Foam. 750 gal 15% HCL.
 50,000# 20/40 sand, 481,000 SCF N2,
 713 bbls foam.

3rd Stage: Riley (12 holes) (4541.75' to 4567.50') 60 Quality Foam. 750 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 743 bbls foam.

4th Stage: Balltown (12 holes) (4164' to 4326.75') 60 Quality Foam, 750 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill & Clay	0	14	
Red Rock	14	35	
Sand & Shale & Red Rock	35	565	
White Sand	565	718	1/2" H2O @ 630'
Shale & Red Rock	718	724	
Sand & Shale	724	797	
Shale & Red Rock	797	950	
Sand	950	961	
Shale & Red Rock	961	1367	
Sand & Shale	1367	1510	
Maxton	1510	1645	
Sand & Shale	1645	1930	
Little Lime	1930	1940	
Shale	1940	1977	
Big Lime	1977	2038	
Big Injun	2038	2126	
Shale	2126	2274	
Weir	2274	2406	
Sand & Shale	2406	2890	
Gordon	2890	2904	
Sand & Shale	2904	3758	
Balltown	3758	4480	
Shale	4480	4504	
Riley	4504	4584	
Sand & Shale	4584	4942	
Benson	4942	4955	
Shale	4955	5190	
Alexander	5190	5274	
Sand & Shale	5274	5410	
TD	5410		

Gas Checks

2515' - No Show
 3009' - No Show
 3723' - Odor
 4531' - Show
 4903' - Show
 5121' - Show

Well Operator: KEY OIL COMPANY PIGOTT #1 671 074421
 Operator's Well Number: 475 25655 ① 3) Elevation: 1085'

Well type: (a) OIL X / or Gas X /

(b) If Gas: Production X / Undergound Storage /
 Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER⁴²⁹ 47-0170 442D

- 6) Proposed Total Depth: 5600 feet Issued 12/29/97
- 7) Approximate fresh water strata depths: 80' Expires 12/29/99
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: DRILL STIMULATE PRODUCE Spudwell.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	COMMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor					<u>38581863</u>
Fresh Water	<u>11 3/4</u>	<u>ERW</u>	<u>42</u>	<u>132</u>	<u>70 SKS. TO SURFACE</u>
Coal					<u>3858181.2.2</u>
Intermediate	<u>8 5/8</u>	<u>ERW</u>	<u>23</u>	<u>1840</u>	<u>495 SKS. TO SURFACE</u>
Production	<u>4 1/2</u>	<u>J-55</u>	<u>10.5</u>	<u>5500</u>	<u>490 SKS.</u>
Tubing	<u>1.5</u>				<u>38581941.1</u>
Liners					

PACKERS : Kind
 Sizes
 Depths set

For Office of Oil and Gas Use Only
 Fee(s) paid: Well Work Permit Reclamation Fund WPC2
 Plat WW-9 WW-29 Bond Ager
 (Type)

1) Date: DECEMBER 16, 1997
2) Operator's well number PIGOTT #1
3) API Well No: 47 - 017 - 4421
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator: Name NONE

(a) Name GEORGE L. GAGNON Address NONE
Address RT. 1 BOX 312
WEST UNION, WV 26456

(b) Coal Owner(s) with Declaration
(b) Name _____ Address _____
Name _____ Address _____

(c) Name _____ Address _____
Name _____ Address _____

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
Address RT. 2 BOX 135 Name _____
SALEM, WV 26426 Address _____
Telephone (304)- 782-1043

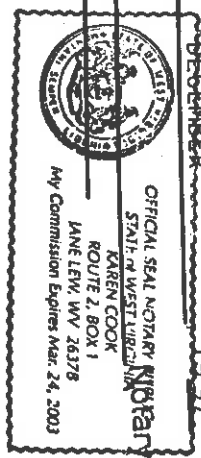
TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22 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:
X Personal Service (Affidavit attached)
____ Certified Mail (Postmarked postal receipt attached)
____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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.

West Operator KEY OIL COMPANY
By: [Signature]
Its: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 16TH day of DECEMBER 1997
My commission expires MARCH 24, 2003



Public