

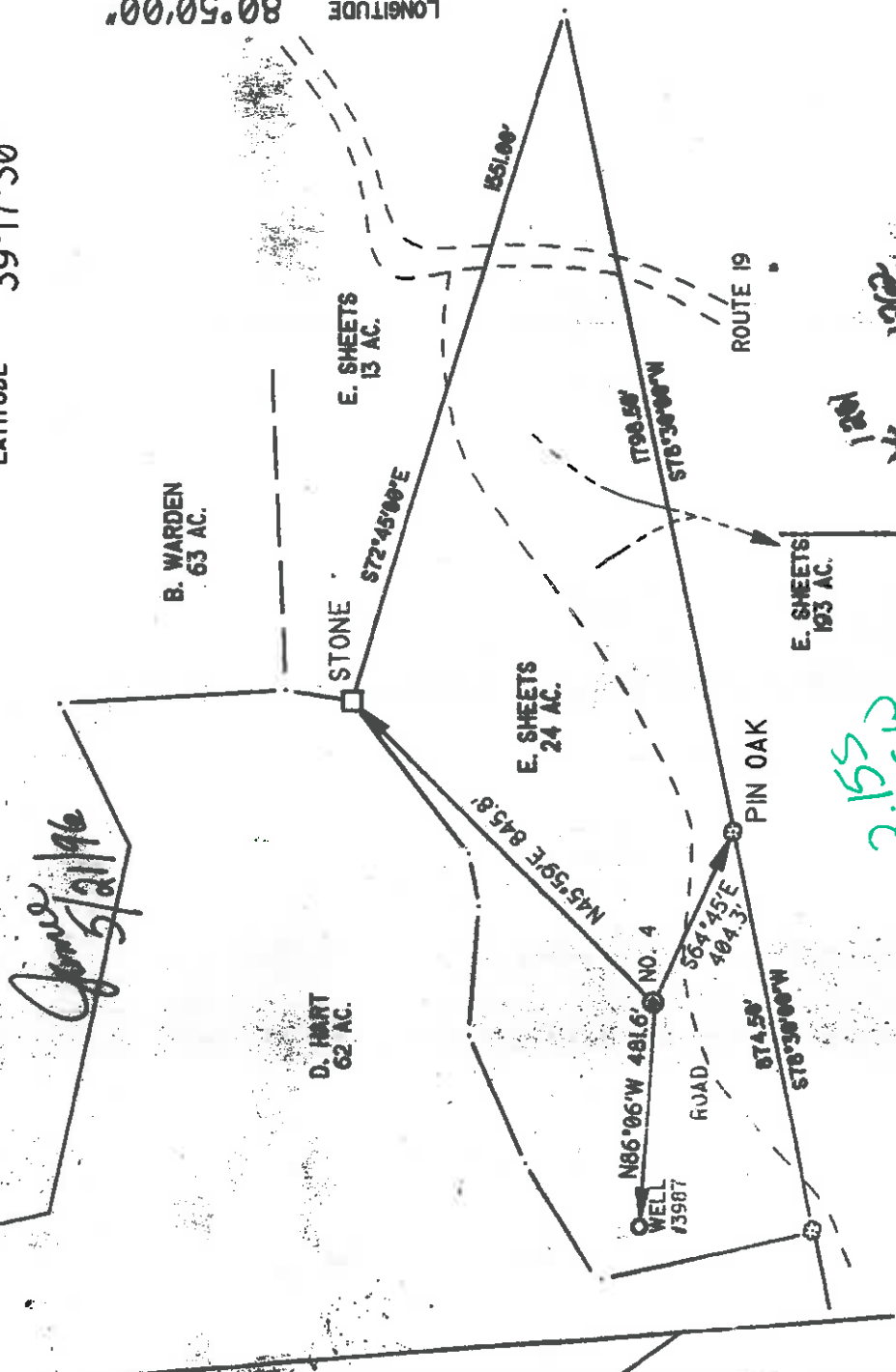
FORM WV 6

10,775'

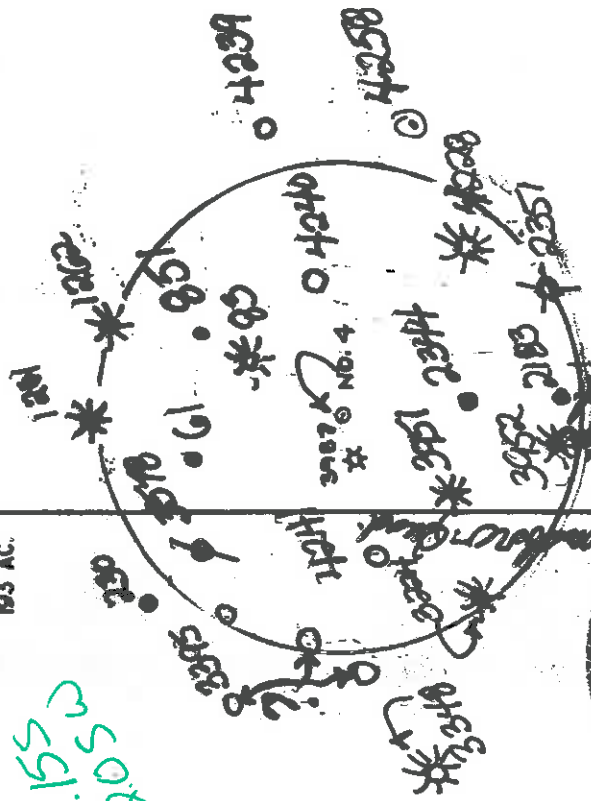
LATITUDE 39°17'30"

LONGITUDE 80°50'00"

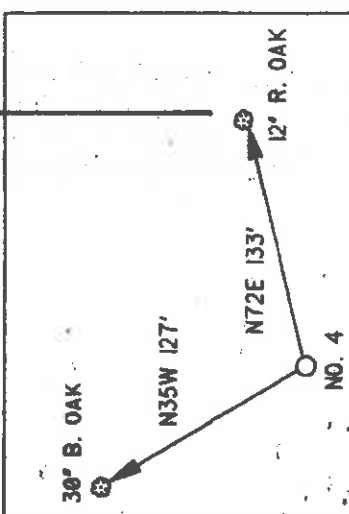
11,375'



2.1550
2.0500

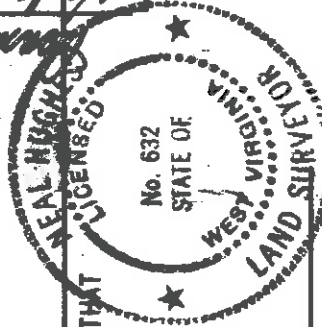


NORTH



REFERENCE POINTS

I THE UNDERSIGNED, DO 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



IDENTIFIES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE DECEMBER 13, 19 95
OPERATORS WELL NO. SHEETS 4

L.L.S. Neal Hughes
632

API WELL NO. 47 - 017 04261
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	95-118	STATE OF WEST VIRGINIA
PROVEN SOURCE OF ELEVATION	KN08 1332'	SCALE	1" = 400'	DEPARTMENT OF ENERGY
OIL AND GAS DIVISION				
WELL TYPE:	OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/>	LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	"GAS" PRODUCTION <input checked="" type="checkbox"/>
LOCATION:	ELEVATION 1,148'	CENTRAL DISTRICT	WATERSHED LEASON RUN	STORAGE <input type="checkbox"/> DEEP <input type="checkbox"/> SHALLOW <input type="checkbox"/>
SURFACE OWNER	ERIE D. SHEETS	COUNTY	DODDRIDGE	QUADRANGLE
ROYALTY OWNER	ERIE D. SHEETS	SHEETS	24	ACREAGE 24
PROPOSED WORK:	CONVERT <input type="checkbox"/>	DRILL DEEPER <input type="checkbox"/>	REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>
	PERFORATE NEW FORMATION <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	CLEAN OUT AND REPLUG <input type="checkbox"/>	OTHER <input type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY)	TARGET FORMATION ALEXANDER			
	ESTIMATED DEPTH 560'			
WELL OPERATOR	KEY OIL CO.	DESIGNATED AGENT	COUNTY NAME	
22 GARTON PLAZA	475	JAN CHAPMAN	PERMIT	
WESTON, WV 26452	22 GARTON PLAZA	WESTON, WV 26452	47-017-04261	

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

[Handwritten Stamp]
FEB 10 1997

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SHEETS, ERIE D.

Operator Well No. : SHEETS #4

LOCATION: Elevation: 1,148.00

Quadrangle: WEST UNION

District: CENTRAL
Latitude: 11375 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 10775 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: 05/21/96

Well Work Commenced: 06/26/96

Well Work Completed: 07/16/96

Verbal Plugging

Permission granted on: _____ Rig

Rotary X Cable _____ 5587'

Total Depth (feet) _____ NONE

Fresh water depths (ft) _____ 1728'

Salt water depths (ft) _____

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

Coal Depths (ft): None Reported

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	118.72	118.72	70 sks.
8 5/8"	2136.25'	2136.25'	To surface 625 sks.
4 1/2"	5461'	5461'	To surface 360 sks.
1 1/2"		5341'	

OPEN FLOW DATA

Balltown Riley Benson

4014' - 4300'
4661' - 4680"
5070' - 5072'

Producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow 94 MCF / d Oil: Initial open flow 0 Bbl / d
Final open flow 1,540 MCF / d Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure 1800 psig (surface pressure) after 96 Hours

Second producing formation _____ Comingled _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
Final open flow _____ MCF / d Oil: 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 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: *[Signature]* President

Date: JANUARY 22, 1997

FEB 14 1997

Sheets #4 (47-017-04261)

Four Stage Foam Frac - Hailiburton

1st Stage:	Alexander (10 holes) (5361.50' - 5371.50')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2nd Stage:	Benson (10 holes) (5070' - 5072.25')	75 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 428,000 SCF N2, 518 bbls foam.
3rd Stage:	Riley (10 holes) (4661.25' - 4680.50')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 25,000# 20/40 sand, 382,000 SCF N2, 551 bbls foam.
4th Stage:	Balltown (10 holes) (4014.75' - 4300.25')	60 Quality Foam, 1,000 gal 15% HCL. 10,000# 80/100 sand, 40,000# 20/40 sand, 473,000 SCF N2, 685 bbls foam.

WELL LOG

Clay	0	
Shale	5	
Sand & Shale	15	
Sand & Shale & Red Rock	36	
Sand	185	
Sand & Shale & Red Rock	199	
Lime	890	
Sand & Shale & Red Rock	902	
Sand	1665	
Black Shale	1728	
Gray Sand	1790	
Big Lime	2120	
Big Injun	2184	
Shale	2265	
Weir	2426	
Sand & Shale	2554	
Warren	3489	
Sand & Shale	3562	
Balltown	3900	
Shale & Sand	4610	
Riley	4640	
Shale	4710	
Benson	5066	
Sand & Shale	5800	
Alexander	5313	
Sand & Shale	5400	
T.D.	5587	
		Gas Checks
		1944' No Show
		2254' No Show
		2597' No Show
		3026' No Show
		3705' No Show
		4104' No Show
		4844' 15/10ths H2O 1"
		5279' 4/10ths H2O 2"
		T.D. 4/10ths H2O 2"

MAY 20 1995

017-4201

RECEIVED
WV Division of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Permitting
Office of Oil & Gas
WELL WORK PERMIT APPLICATION

Well Operator: KEY OIL COMPANY 25655 0 671

Operator's Well Number: SHEETS #4 3) Elevation: 1148

Well type: (a) OIL or Gas Issued 05/01/96
(b) If Gas: Production Underground storage
Deep Shallow Expired 05/02/98

Proposed Target Formation(s): ALEXANDER 439

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: -0-

Approximate salt water depths: -0-

Approximate coal seam depths: NONE

Does land contain coal seams tributary to active mine? Yes No

Proposed Well Work: DRILL, STIMULATE, PRODUCE

New Well

20518113

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CME:
	SIZE	Grade	Weight per ft.	For drilling	Left in well	
Conductor						Fill-up (cu. ft.)
Fresh Water	11 3/4	ERW	42	132	132	644 MM
Coal						70 SKS. TO SURFACE
Intermediate	8 5/8	ERW	23	2130	2130	525 SKS. TO SURFACE
Production	4 1/2	J-55	10.50		5475	360 SKS.
Tubing	1.5					
Linings						

PACKERS : Kind
Sizes
Depths sec

2051811.1

FOR Division of Oil and Gas Use Only

Fees: Well Work Permit Reclamation Fund

Signatures and stamps for Well Work Permit and Reclamation Fund.

RECEIVED
WV Division of
Environmental Protection
May 27 1995
Permitting State of West Virginia
Office of Oil & Gas Energy

1) Date: DECEMBER 27, 1995
2) Operator's well number SHEETS #4
3) API Well No: 47 - 017 - 4261
State - County - Permit

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 ERIE D. SHEETS 5) (a) Coal Operator:
Address RT. 1 BOX 39A Name NONE
GREENWOOD, WV 26360 Address _____
- (b) Name _____ (b) Coal Owner(s) with Declaration
Address _____ Name _____
Address _____
- (c) Name _____ Name _____
Address _____ 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

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.



OFFICIAL SEAL NOTARY PUBLIC
STATE OF WEST VIRGINIA
KEREN COOPER
NOTARY PUBLIC
JANE LEVI, WV 26078
My Commission Expires Mar. 24, 2003

Subscribed and sworn before me this 27TH day of DECEMBER, 1995

My commission expires MARCH 24, 2003 Notary Public
Keren Cooper