

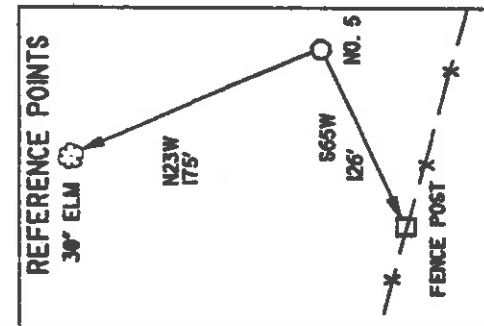
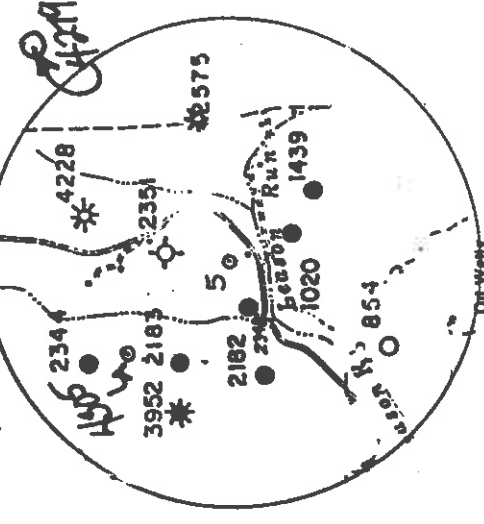
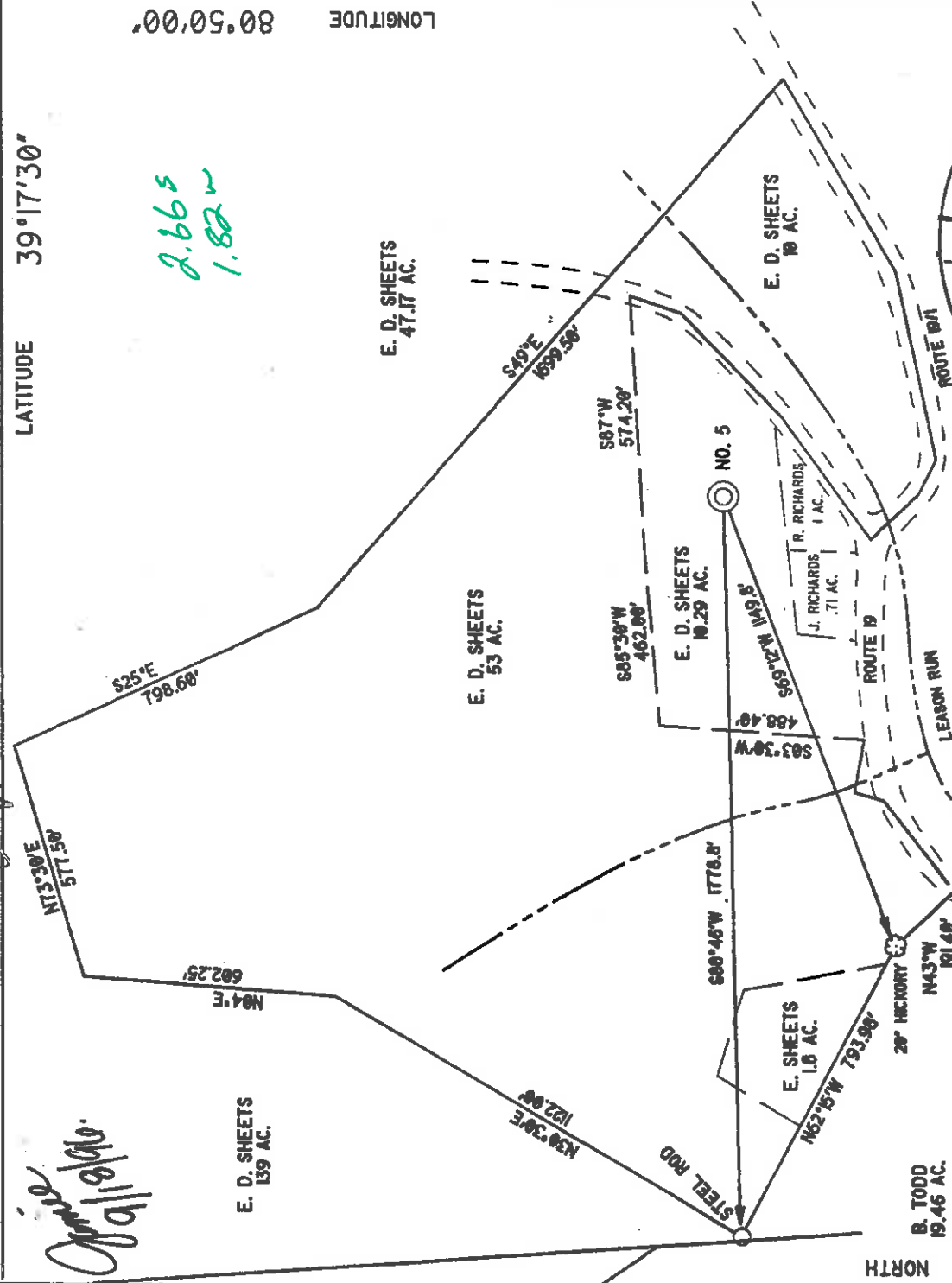
Open
9/11/96

LATITUDE 39°17'30"

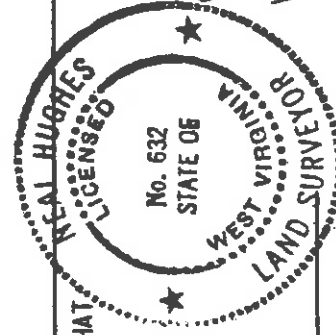
9.575'

LONGITUDE 80°50'00"

13.975'



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.



L.L.S. Neal Hughes
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(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE AUGUST 15, 19 96
OPERATORS WELL NO. SHEETS/REUSE 5

API WELL NO. 47 -- 017-04304
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-66
PROVEN SOURCE OF ELEVATION KNOB 1332' SCALE 1" = 400'

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

LOCATION: ELEVATION 965' WATERSHED LEASON RUN
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
SURFACE OWNER ERIE D. SHEETS ACREAGE 10.29
ROYALTY OWNER CASSIE REESE HEIRS LEASE ACREAGE 142

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
ADDRESS 22 GARTON PLAZA WESTON, WV 26452
ADDRESS 22 GARTON PLAZA WESTON, WV 26452
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT
WEST VIRGINIA 017-04304

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

Permitting

Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: SHEETS, ERIE D.

Operator Well No. : SHETS / REESE #5

LOCATION: Elevation: 965

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 13975

Feet South of 39 Deg. 15 Min. 30 Sec.

Longitude: 9575

Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY
22 GARTON PLAZA
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 09/17/96
Well Work Commenced: 10/08/96
Well Work Completed: 10/17/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) _____ 5386'
Fresh water depths (ft) _____ 70'
Salt water depths (ft) _____ 1021

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

Coal Depths (ft) : _____ None Reported

OPEN FLOW DATA

Balltown
Riley
Benson

Producing formation _____ Alexander _____
Gas: Initial open flow _____ MCF / d _____ Pay zone depth (ft) _____
Final open flow 1,540 _____ MCF / d _____ Oil: Initial open flow _____ Bbl / d
Time of open flow between initial and final tests _____ N/A _____ Oil: Final open flow _____ Bbl / d
Static rock pressure 1600 _____ psig (surface pressure) after _____ 96 _____ Hours

3772' - 4448"
4498' - 4870"
4804' - 4870"
5156' - 5242'

Second producing formation _____ Commingled _____ 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 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: KEY OIL COMPANY

By: 

President

Date: JANUARY 22, 1997

FEB 14 1997

Casing & Tubing Size	Used In Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	125.90'	125.90'	70 sks To surface
8 5/8"	1977.95'	1977.95'	560 sks To surface
4 1/2"	5334'	5334'	360 sks
2 3/8"		5163'	

Sheets / Reese #5 (47-017-04304)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (13 holes) (5183.5' - 5219.5') 60 Quality Foam. 500 gal. 15% HCL.
60,000# 20/40 sand, 550,000 SCF N2,
809 bbis foam.

2nd Stage: Benson (10 holes) (4914' - 4916.25') 60 Quality Foam. 750 gal 15% HCL.
35,000# 20/40 sand, 394,000 SCF N2,
566 bbis foam.

3rd Stage: Riley (3 holes) (4522.75' - 4523.25') 60 Quality Foam. 1000 gal 15% HCL.
Baltown (8 holes) (4429' - 4435.75') 10,000# 80/100 sand, 30,000# 20/40 sand,
508,000 SCF N2, 550 bbis foam.

4th Stage: Baltown (12 holes) (3814.25' - 4058.75') 60 Quality Foam, 750 gal 15% HCL.
Speechley (2 holes) (3454.75' - 3455') 5,000# 80/100 sand, 35,000# 20/40 sand,
390,000 SCF N2, 589 bbis foam.

WELL LOG

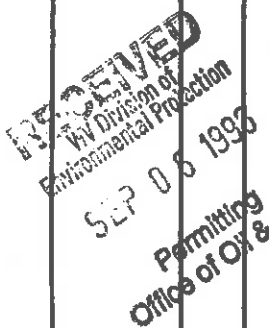
Fill	0	5		
Sand	5	20		
Sand & Shale & Red Rock	20	242	Damp @ 70'	
Sand	242	312		
Red Rock & Shale	312	411		
Sand & Lime	411	445		
Sand & Shale & Red Rock	445	1225	Wet @ 1021'	
Sand & Shale	1225	1674	Damp @ 1139'	
Lime	1674	1680		
Sand & Shale	1680	1698		
White Sand	1698	1730		
Sand & Shale	1730	1934		
Sand	1934	1949		
Sand & Shale	1949	1952		
Sand	1952	1966		
Shell	1966	1975		
Big Lime	1975	2034		
Big Injun	2034	2105	2592	Gas Checks
Shale	2105	2272	3023	NO SHOW
Weir	2272	2401	3609	NO SHOW
Shale	2401	2463	4353	2/10 - 1/2" w/ H ² O
Berea	2463	2467	4757	2/10 - 1/2" w/ H ² O
Sand & Shale	2467	3354	5004	12/10 - 1" w/ H ² O
Warren	3354	3404	TD	12/10 - 1" w/ H ² O
Shale	3404	3413		
Speechley	3413	3535		
Shale	3535	3772		
Baltown	3772	4448		
Shale	4448	4498		
Riley	4498	4554		
Shale	4554	4804		
3rd Riley	4804	4870		
Shale	4870	4908		
Benson	4908	4922		
Sand & Shale	4922	5156		
Alexander	5156	5242		
Sand & Shale	5242	5386		
T.D.	5386			

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

1) Well Operator: KEY OIL COMPANY 25655 ① 671
 Operator's Well Number: SHEETS/RESE #5 3) Elevation: 965'
 Well type: (a) Oil / or Gas X / Issued 09/17/96
 (b) If Gas: Production X / Underground Storage Shallow X / Deep / Expired 09/17/98

Proposed Target Formation(s): ALEXANDER
 Proposed Total Depth: 5500 feet
 Approximate fresh water strata depths: -0-
 Approximate salt water depths: 1848'
 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
 12)



CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
				FOR DRILLING	LEFT IN WELL	FILL-UP (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	39089113
Coal						
Intermediate	8 5/8	ERW	23	1950	1950	39089122
Production	4 1/2	J-55	10.5	5300	5300	525 SKS. TO SURFACE
Tubing	1.5					360 SKS.
Liners						39089111

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only
 Fee(s) paid: 471 Well Work Permit 471 Reclamation Fund 471 WPCP
 Plat 471 WW-9 471 WW-2B 471 Bond 471 Agent 471 (Type)

*Permitting
Office of Oil & Gas*
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1) Date: SEPTEMBER 3, 1996
2) Operator's well number SHEETS/RESE #5
3) API Well No: 47 - 017 - 4304
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:
(a) Name ERIE D. SHEETS Name NONE
Address RT. 1 BOX 39-A Address _____
GREENWOOD, WV 26360
(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 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:

- 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.

Well 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 3RD day of MARCH 19 96
My commission expires MARCH 24, 2003

Karen Cook
Public
