

LATITUDE 39°17'30"

LONGITUDE 80°50'00"

12,900'

Neal Hughes
August 19 1996

E. D. SHEETS
139 AC.

NO. 6

E. D. SHEETS
47.17 AC.

E. D. SHEETS
53 AC.

E. D. SHEETS
10.29 AC.

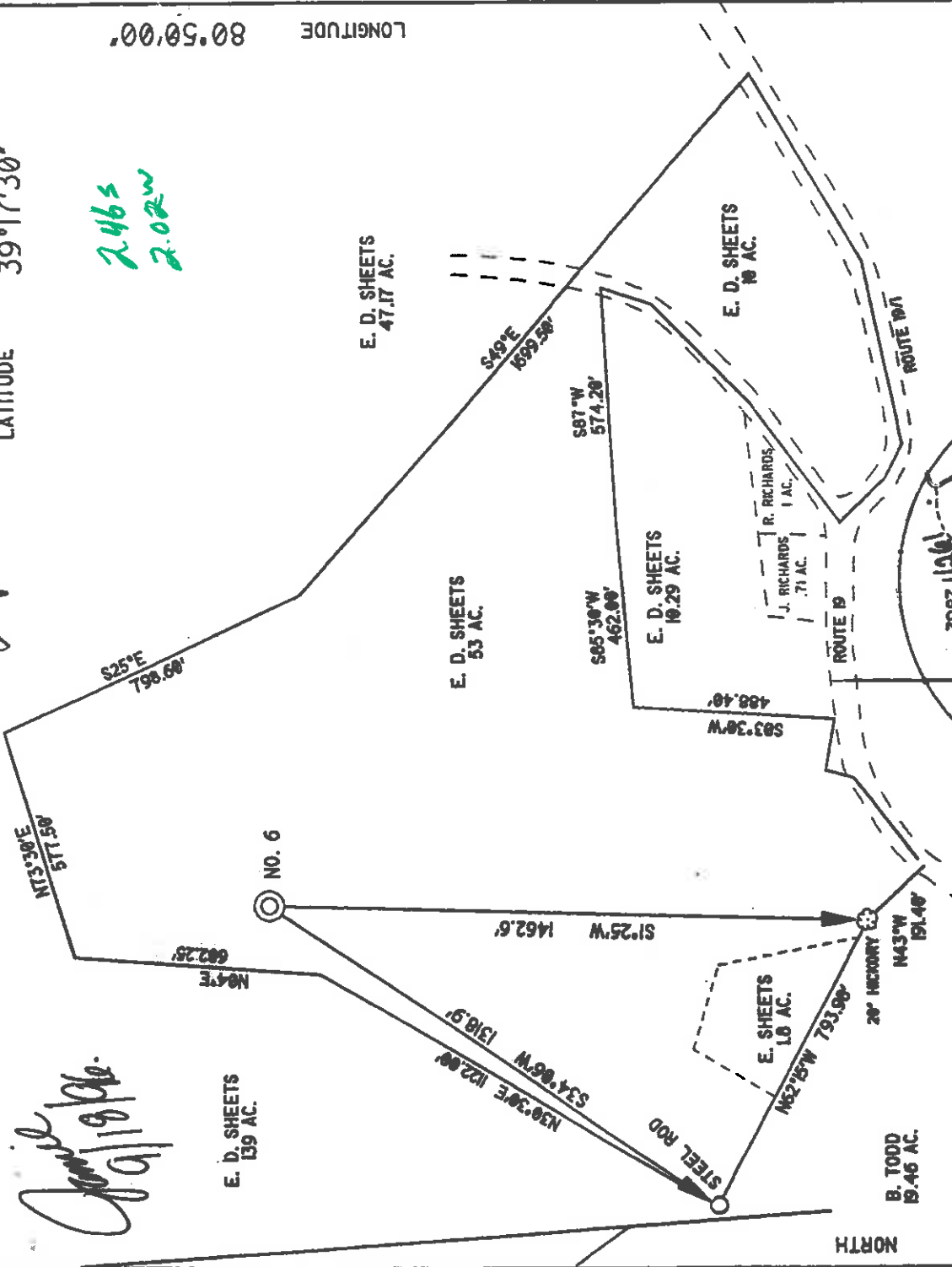
E. D. SHEETS
10 AC.

E. SHEETS
1.0 AC.

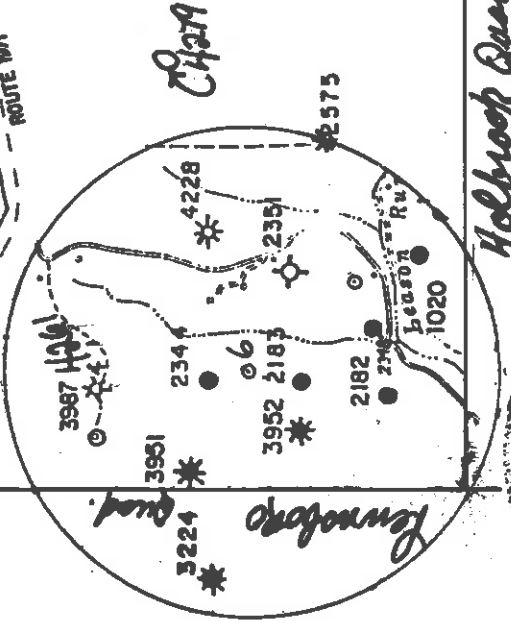
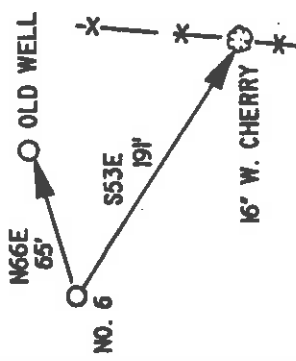
J. RICHARDS
.71 AC.

R. RICHARDS
1 AC.

B. TODD
19.46 AC.

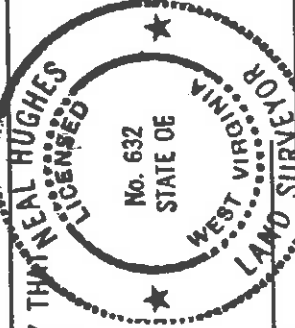


REFERENCE POINTS



I THE UNDERSIGNED, DO HEREBY CERTIFY THAT NEAL HUGHES LICENSED LAND SURVEYOR STATE OF WEST VIRGINIA
 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*
 632



DATE AUGUST 15, 19 96
 OPERATORS WELL NO. SHEETS/REUSE 6

API WELL NO. 47 -- 017-04305
 STATE COUNTY PERMIT

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

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 1005' WATERSHED LEASON RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER ERIE D. SHEETS ACREAGE 53
 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
 ADDRESS 22 GARTON PLAZA WESTON, WV 26452
 DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

PERMIT 6-689

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

FEB 19 1997

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SHEETS, ERIE D.

Operator Well No.: SHETS / REESE #6

LOCATION: Elevation: 1,005.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 12900 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 10600 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: 10/04/96
Well Work Completed: 10/24/96

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5380'
Fresh water depths (ft) NONE
Salt water depths (ft) 418

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"	125.35'	125.35'	70 sks To surface
8 5/8"	2126.40'	2126.40'	580 sks To surface
4 1/2"	5320'	5320'	360 sks
2 3/8"		5191'	

OPEN FLOW DATA

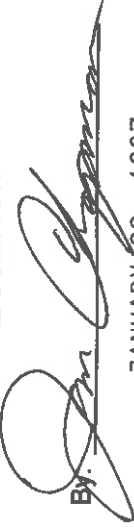
Balltown
Riley
Benson

Producing formation _____ Alexander _____
Gas: Initial open flow 10 MCF / d Pay zone depth (ft) 3774' - 4446'
Final open flow 1.571 MCF / d Oil: Initial open flow 0 Bbl / d 4488' - 4556'
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d 4916' - 4928'
Static rock pressure 1600 psig (surface pressure) after 96 Hours 5164' - 5221'

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

Sheets / Reese #6 (47-017-04305)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (10 holes) (5211.50' - 5235.75')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 809 bbis foam.
2nd Stage:	Benson (10 holes) (4920.25' - 4922.50')	60 Quality Foam. 750 gal 15% HCL. 35,000# 20/40 sand, 394,000 SCF N2, 566 bbis foam.
3rd Stage:	Riley (10 holes) (4509' - 4528.50')	60 Quality Foam. 1000 gal 15% HCL. 10,000# 80/100 sand, 30,000# 20/40 sand, 508,000 SCF N2, 550 bbis foam.
4th Stage:	Balltown (11 holes) (3792.25' - 4082.50')	60 Quality Foam, 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbis foam.

WELL LOG

Fill	0	7
Sand	7	37
Sand & Shale & Red Rock	37	181
Sand	181	230
Red Rock & Shale	230	254
Sand	254	312
Sand & Shale & Red Rock	312	1054
Sand	1054	1077
Sand & Shale	1077	1418
Lime	1418	1424
White Sand	1424	1446
Sand & Shale	1446	1626
Sand	1626	1741
Sand & Shale	1741	1858
Maxon	1858	1900
Sand & Shale	1900	1951
Lime	1951	1973
Big Lime	1973	2049
Big Injun	2049	2129
Shale	2129	2275
Weir	2275	2404
Shale	2404	2466
Berea	2466	2471
Sand & Shale	2471	3358
Warren	3358	3410
Shale	3410	3424
Spechley	3424	3553
Shale	3553	3774
Balltown	3774	4446
Shale	4446	4488
Riley	4488	4556
Shale	4556	4916
Benson	4916	4928
Shale	4928	5164
Alexander	5164	5221
Sand & Shale	5221	5380
T.D.	5380	

Damp @ 418'

Gas Checks

2502	NO SHOW
2999	NO SHOW
3234	NO SHOW
4323	NO SHOW
4818	2/10 - 1/2" w/ H ² O
TD	12/10 - 1/2" w/ H ² O
Collars	10/10 - 1/2" w/ H ² O

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

1) Well Operator: KEY OIL COMPANY 25658 (D) 671
 Operator's Well Number: SHEETS/RESE #6 3) Elevation: 1005'

Well type: (a) Oil X / or Gas X / Disturbed 09/17/96
 (b) If Gas: Production X / Underground Storage Shallow X / Expired 09/17/98
 Deep 439

Proposed Target Formation(s): ALEXANDER
 Proposed Total Depth: 5550 feet

7) Approximate fresh water strata depths: -0-
 8) Approximate salt water depths: 1888'

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
 12) [Signature]

RECEIVED
 Division of
 Environmental Protection
 06 1998
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	LEFT IN WELL	FILL-UP (cu. ft.)	CEMENT
Conductor							
Fresh Water	11 3/4	ERW	42	132	132	38599.1.3	
Coal						70 SKS. TO SURFACE	
Intermediate	8 5/8	ERW	23	1990	1990	38599.1.2.2	
Production	4 1/2	J-55	10.5		5350	535 SKS. TO SURFACE	
Tubing	1.5					360 SKS.	
Liners						38599.1.1	

PACKERS : Kind _____
 Sizes _____
 Depths set _____

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



1) Date: SEPTEMBER 3, 1996
2) Operator's well number SHEETS/REESE #5
3) API Well No: 47 - 017 - 4305
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 _____ Name _____
(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]*
IS: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 3RD day of SEPTEMBER, 19 96
My commission expires MARCH 24, 2003

