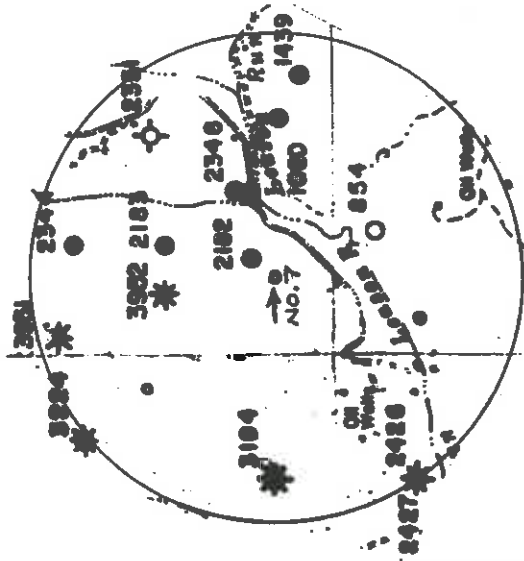


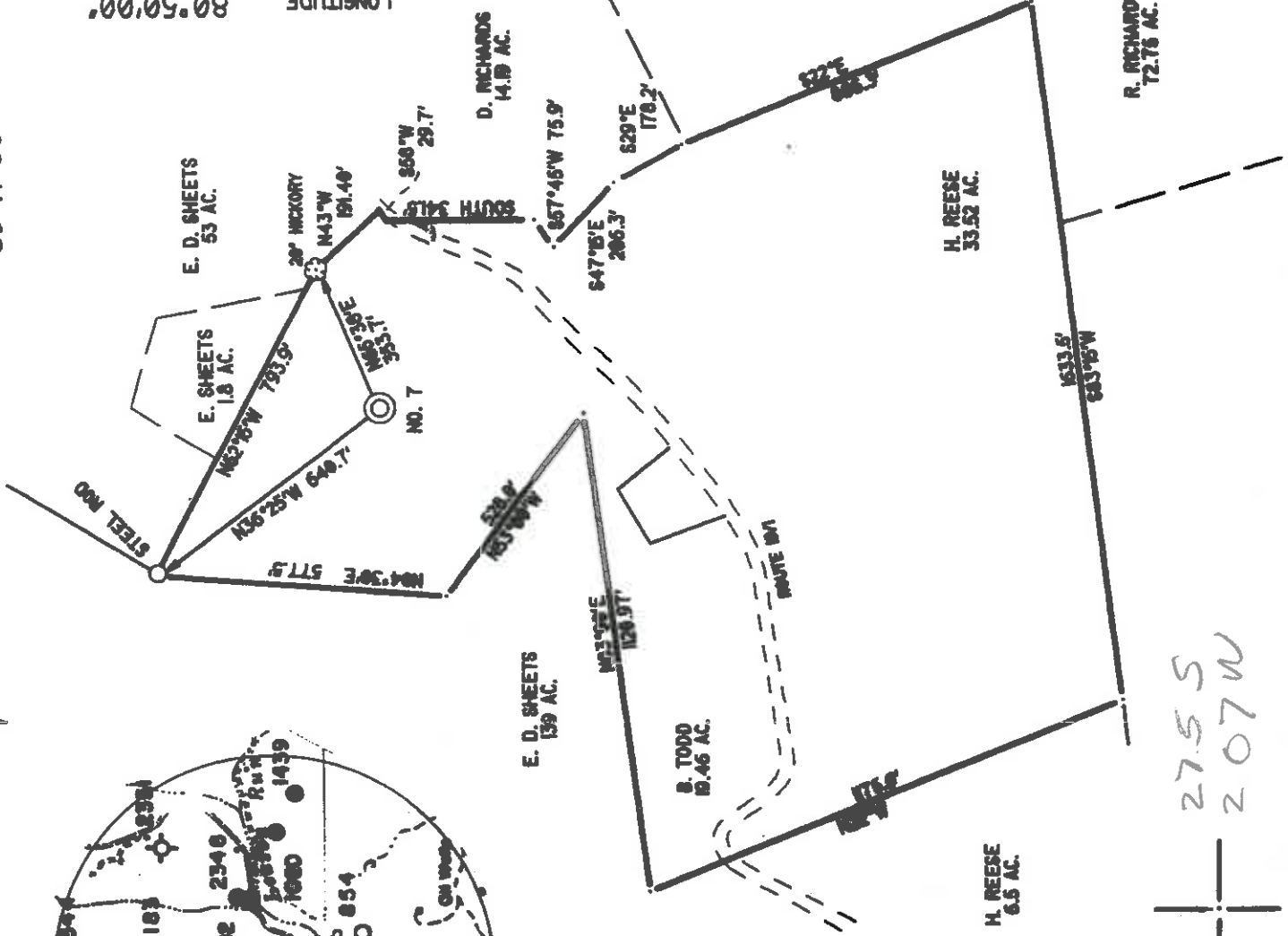
10,950'

LATITUDE 39°17'30"

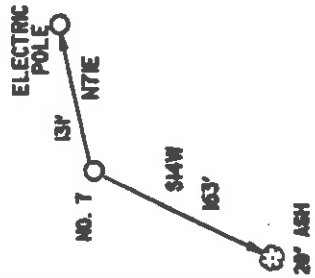
80°50'00" LONGITUDE



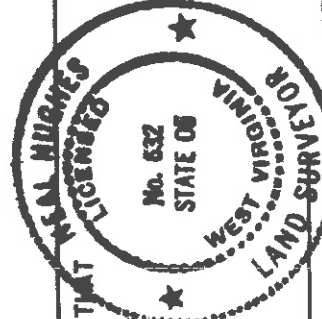
James P. [Signature]



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.



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE JULY 23 19 97
 OPERATORS WELL NO. SHEETS/REESE 7

L.I.S. *Neal Hughes*
 632

API WELL NO. 47 -- 017-04389 COUNTY PERMIT

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

WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS #10 McJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

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

LOCATION: ELEVATION 1002' WATERSHED LEASON RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER BRENDA TODD ACREAGE 19.46
 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 JAN CHAPMAN AUG 28 1997
 ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA
WESTON, WV 26452 6-6 89 WESTON, WV 26452

WR-35

21 - Aug - 97
API # 47 - 17 - 04389

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

Well Operator's Report of Well Work

Farm name: TODD, BRENDA

Operator Well No. : SHEETS / REESE #7

LOCATION: Elevation: 1,002.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 14500 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 10950 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: 08/29/97
Well Work Commenced: 10/05/97
Well Work Completed: 10/21/97

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5368'
Fresh water depths (ft) 76', 215'
Salt water depths (ft) 1885'

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"	132.55'	132.55'	70 sks To Surface
8 5/8"	1988.10'	1988.10'	580 sks To Surface
4 1/2"	5288'	5288'	360 sks
2 3/8"		5163'	

OPEN FLOW DATA

Balltown
Riley
Benson
Elk

3642' - 4454'
4480' - 4562'
4910' - 4921'
5108' - 5120'
5156' - 5246'

Producing formation Alexander
Gas: Initial open flow 60 MCF / d
Final open flow 1,524 MCF / d
Time of open flow between initial and final tests N/A
Static rock pressure 1750 psig (surface pressure) after 96 Hours

Second producing formation Commingled
Gas: Initial open flow _____ MCF / d
Final open flow _____ MCF / d
Time of open flow between initial and final tests _____
Static rock pressure _____ psig (surface pressure) after _____ Hours

DODD 4389

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: March 26, 1998

MAY 04 1998

Sheets #7 (47-017-04389)
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (12 holes) (5183.25' to 5226.50') 60 Quality Foam. 500 gal. 15% HCL.
 Elk (2 holes) (5116.50' to 5116.75') 60,000# 20/40 sand, 550,000 SCF N2,
 811 bbis foam.

2nd Stage: Benson (12 holes) (4914' to 4916.75') 60 Quality Foam. 750 gal. 15% HCL.
 40,000# 20/40 sand, 417,000 SCF N2,
 616 bbis foam.

3rd Stage: Riley (8 holes) (4509.50' to 4591.25') 60 Quality Foam. 750 gal 15% HCL.
 Balltown (3 holes) (4429.75' to 4430.25') 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 744 bbis foam.

4th Stage: Balltown (13 holes) (3795.75' to 4073.75') 60 Quality Foam. 1,000 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill and clay	0	13	
Red Rock & Sand & Shale	13	178	½" H ₂ O @ 76'
Sand	178	225	
Sand and Shale & Red Rock	225	461	½" H ₂ O @ 215'
Sand	461	530	
Red Rock & Shale	530	619	
Sand & Shale	619	745	
Shale & Red Rock	745	1925	Hole damp @ 1885'
Little Lime	1925	1965	
Shale	1965	1975	
Big Lime	1975	2048	
Big Injun	2048	2106	
Shale	2106	2276	
Weir	2276	2404	
Shale	2404	2464	
Berea	2464	2474	
Sand & Shale	2474	3332	
Warren	3400	3404	TD - Show
Shale	3404	3420	Collars - Show
Speechley	3420	3546	
Shale & Sand	3546	3642	
Balltown	3642	4454	
Shale	4454	4480	
Riley	4480	4562	
Sand & Shale	4562	4910	
Benson	4910	4921	
Sand & Shale	4921	5108	
Upper Elk	5108	5120	
Shale	5120	5156	
Alexander	5156	5246	
Shale	5246	5368	
T.D.	5368		

GAS CHECKS

2505' - No Show
 3000' - No Show
 3530' - Odor
 4404' - 2/10ths 2" w/H₂O
 4809' - 2/10ths 2" w/H₂O
 TD - Show
 Collars - Show

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

1) Well Operator: KEY OIL COMPANY (1) 28655 671
 2) Operator's Well Number: SHEETS/RESE #7 3) Elevation: 1002'

Well type: (a) OIL X / or Gas X / Drilled 08/29/97
 (b) If Gas: Production X / Underground Storage / Expuses 08/29/99
Deep / Shallow X /

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

Approximate fresh water strata depths: 90'

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 Drillwell

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)	
Conductor						
Fresh Water	11 3/4	ERW	42	132	50 CS/8113 70 SKS. TO SURFACE	
Coal					30 CS/8112	
Intermediate	8 5/8	ERW	23	1990	535 SKS. TO SURFACE	
Production	4 1/2	J-55	10.5	5500	490 SKS.	
Tubing	1.5				CS/8111	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths sec _____

For Office of Oil and Gas Use Only

00479627
 Fee(s) paid: Well Work Permit Reclamation Fund WPC2
 Plat MW-9 MW-2B Bond _____ Agent _____
 (Type)

1) Date: AUGUST 12, 1997
2) Operator's well number
SHEETS/RESE # 7
3) API Well No: 47 - 017 - 4389
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 BRENDA TODD Name NONE
Address RT. 1 BOX 43A Address
GREENWOOD, WV 26415

(b) Name (b) Coal Owner(s) with Declaration
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.

Wet Operator KEY OIL COMPANY
BY:
Its PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452

Subscribed and sworn before me this 12TH day of AUGUST 1997

My commission expires
MARCH 24, 2003

