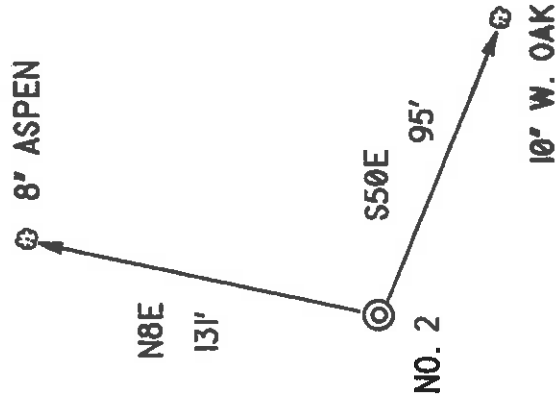
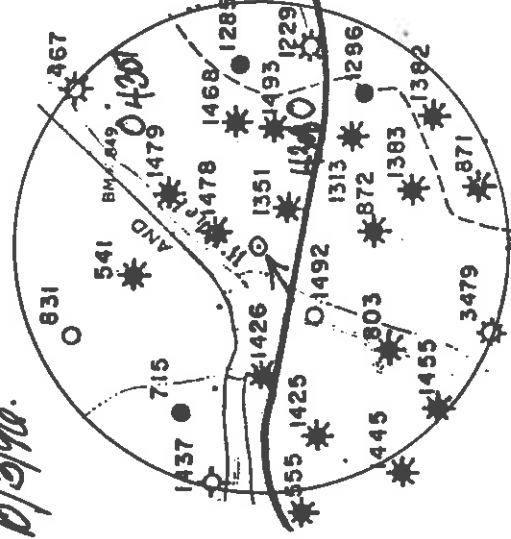


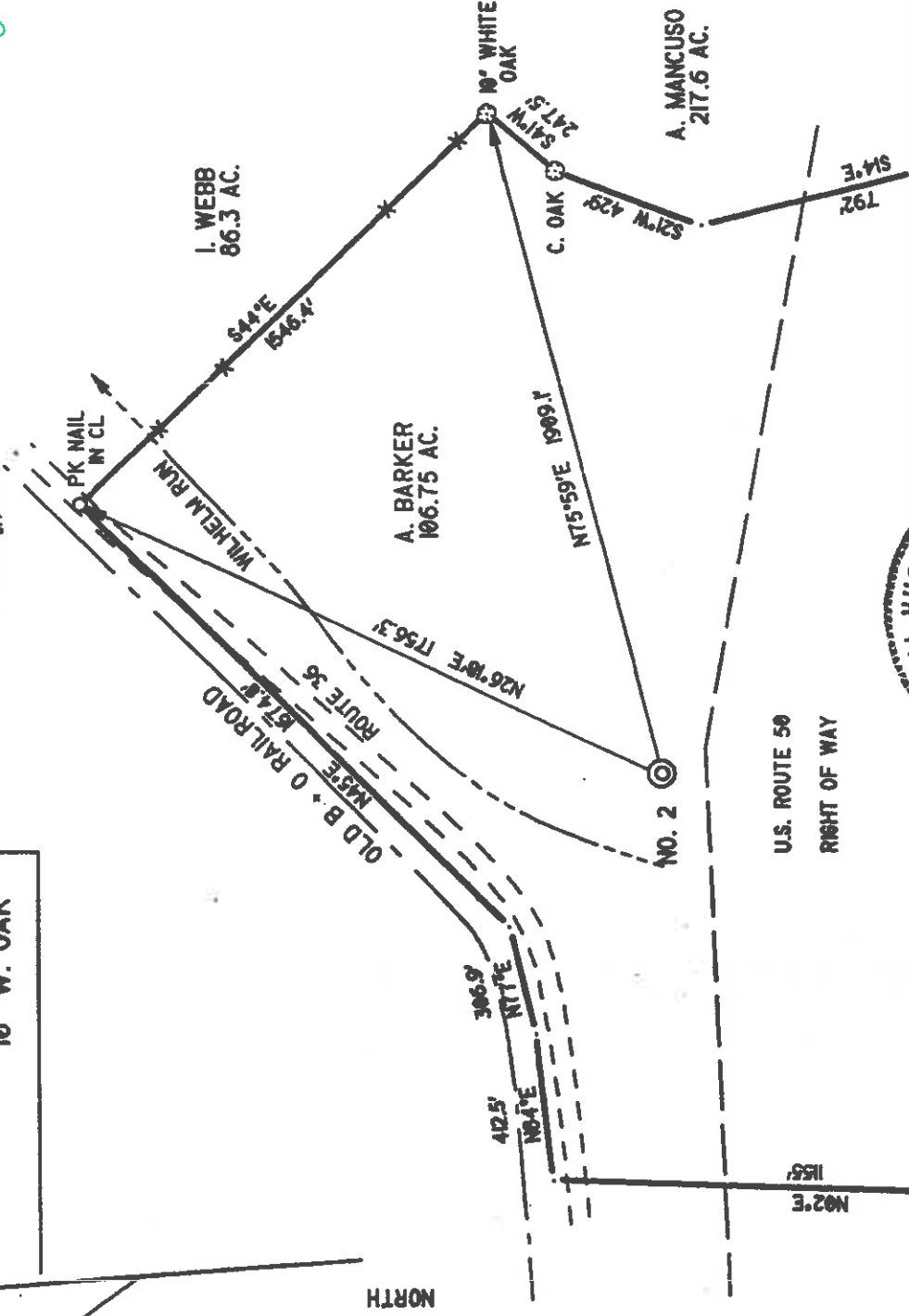
REFERENCE POINTS



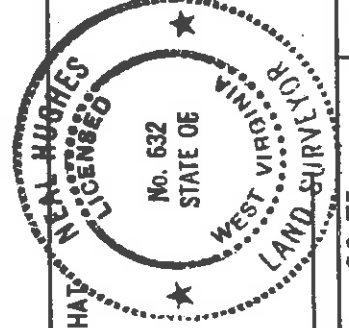
Janice P/3/90



*0.430
0.430*



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 BY THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 DATE SEPTEMBER 16, 19 96
 OPERATORS WELL NO. DUCKWORTH 2
 API WELL NO. 47-017-04309
 COUNTY PERMIT

L.L.S. *Neal Hughes*
 632

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 96-75
 SCALE 1" = 500'
 PROVEN SOURCE OF ELEVATION KNOB 1202'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF 'GAS' PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 905' WATERSHED WILHELM RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION
 SURFACE OWNER ANNA BARKER, ET AL ACREAGE 106.75
 ROYALTY OWNER ANNA BARKER, ET AL LEASE ACREAGE 146

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

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



Well Operator's Report of Well Work

Farm name: BARKER, ANNA B., ETAL

Operator Well No.: DUCKWORTH #2

LOCATION: Elevation: 905.00

Quadrangle: WEST UNION

Permitting
Office of Oil & Gas

District: CENTRAL
Latitude: 4700 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude: 1775 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: 09/30/96
Well Work Commenced: 11/02/96
Well Work Completed: 11/12/96

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	930.55	930.55	250 sks To Surface
4 1/2"	5255	5255	450 sks
2 3/8"		5120	

Permit Issued: MIKE UNDERWOOD
Well Work Commenced: 09/30/96
Well Work Completed: 11/02/96
Verbal Plugging: 11/12/96
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5292'
Fresh water depths (ft) None
Salt water depths (ft) 520'

Is coal being mined in area (Y / N)? N
Coal Depths (ft) : None Reported

- Warren
- Speechley
- Balltown
- Rileys
- Benson

OPEN FLOW DATA

Producing formation: Alexander
 Gas: Initial open flow 10 MCF / d Oil: Initial open flow 0 Bbl / d
 Final open flow 1,586 MCF / d Oil: Final open flow show Bbl / d
 Time of open flow between initial and final tests N/A Hours
 Static rock pressure 1700 psig (surface pressure) after 96 Hours

Second producing formation: Commingled
 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: 4-22-97

MAY 2 1997

Duckworth #2 (47-017-04309)
Four Stage Foam Frac - Halliburton

1st Stage:	Alexander (11holes) (5140.5' - 5159.5')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 810 bbbls foam.
2nd Stage:	Benson (5 holes) (4855.75' - 4856.75') Third Riley (5 holes) (4774.75' - 4801.5')	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 615 bbbls foam.
3rd Stage:	Riley (7holes) (4434.25' - 4448.25') Balltown (7holes) (4227.5' - 4350')	60 Quality Foam. 1000 gal 15% HCL. 10,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 645 bbbls foam.
4th Stage:	Balltown (6 holes) (3823.5' - 3896.25') Speechley (2 holes) (3486-3486.25') Warren (3 holes) (3317.25' - 3317.75')	60 Quality Foam, 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 390,000 SCF N2, 589 bbbls foam.

WELL LOG

Fill	0		
Shale	18		
Red Rock	76		
Sand	81		
Red Rock	112		
Sand	146		
Sand & Shale	230		
Little Lime	1856		
Shale	1896		
Big Lime	1898		
Big Injun	1965		
Shale	2045		
Weir	2193		
Shale & Silt	2316		
Warren	3259		
Shale	3324		
Speechley	3334		
Shale	3455		
Balltown	3686		
Shale & Sand	4380		
Riley	4408		
Shale	4472		
3 rd Riley	4746		
Shale	4806		
Benson	4850		
Sand & Shale	4862		
Alexander	5096		
Sand & Shale	5182		
T.D.	5292		

Damp @ 520" ¼" H²O

Gas Checks

1898'	No Show
2519'	1/10ths ¼" w/H ² O
3017'	1/10ths ¼" w/H ² O
3577'	2/10ths ¼" w/H ² O
4014'	No Show
4605'	10/10ths ½" w/H ² O
5009'	1/10ths ½" w/H ² O
TD	1/10ths 1" w/H ² O

Page 1 of
Form WW2-A
(6/94)
File Copy

- 1) Date: SEPTEMBER 17, 1996
2) Operator's well number
DUCKWORTH #2
3) API Well No: 47 - 017 - 4309 Permit

Permitting
Bureau of Oil & Gas

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 ANNA B. BARKER, ET AL
Address 99 WOOD STREET
WEST UNION, WV 26456

Name
Address

(b) Name
Address

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

(c) Name
Address

Name
Address

- 6) Inspector MIKE UNDERWOOD
Address RT. 2 BOX 135
SALEM, WV 26426
Telephone (304)-782-1043

(c) Coal Lessee with Declaration
Name
Address

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.

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 17TH day of SEPTEMBER, 1996

My commission expires MARCH 24, 2003

Karen Cook



Karen Cook
STATE OF WEST VIRGINIA
KAREN COOK
ROUTE 2, BOX 1
JANE LEW, WV 26378
My Commission Expires Mar. 24, 2003