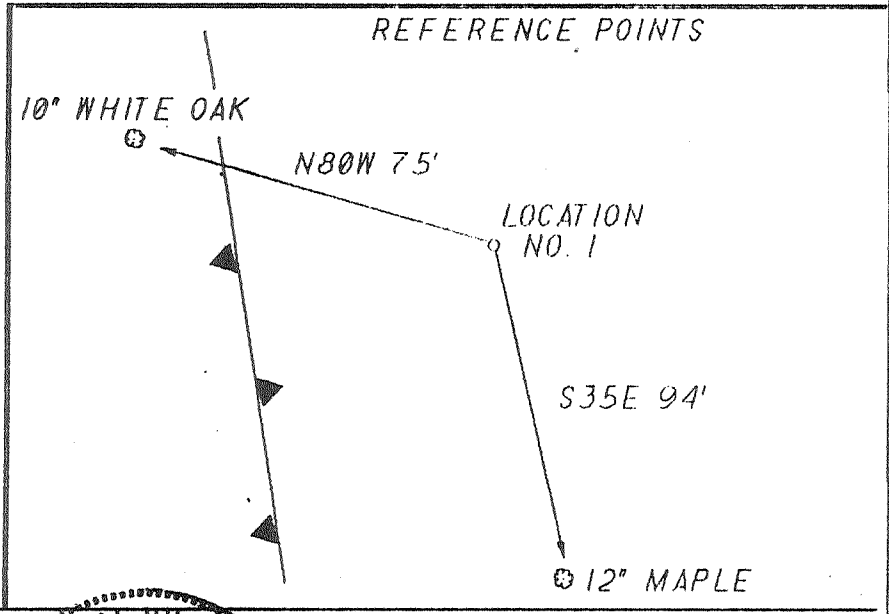
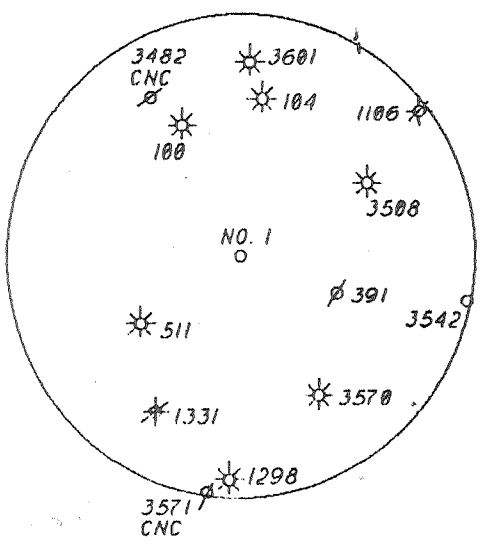
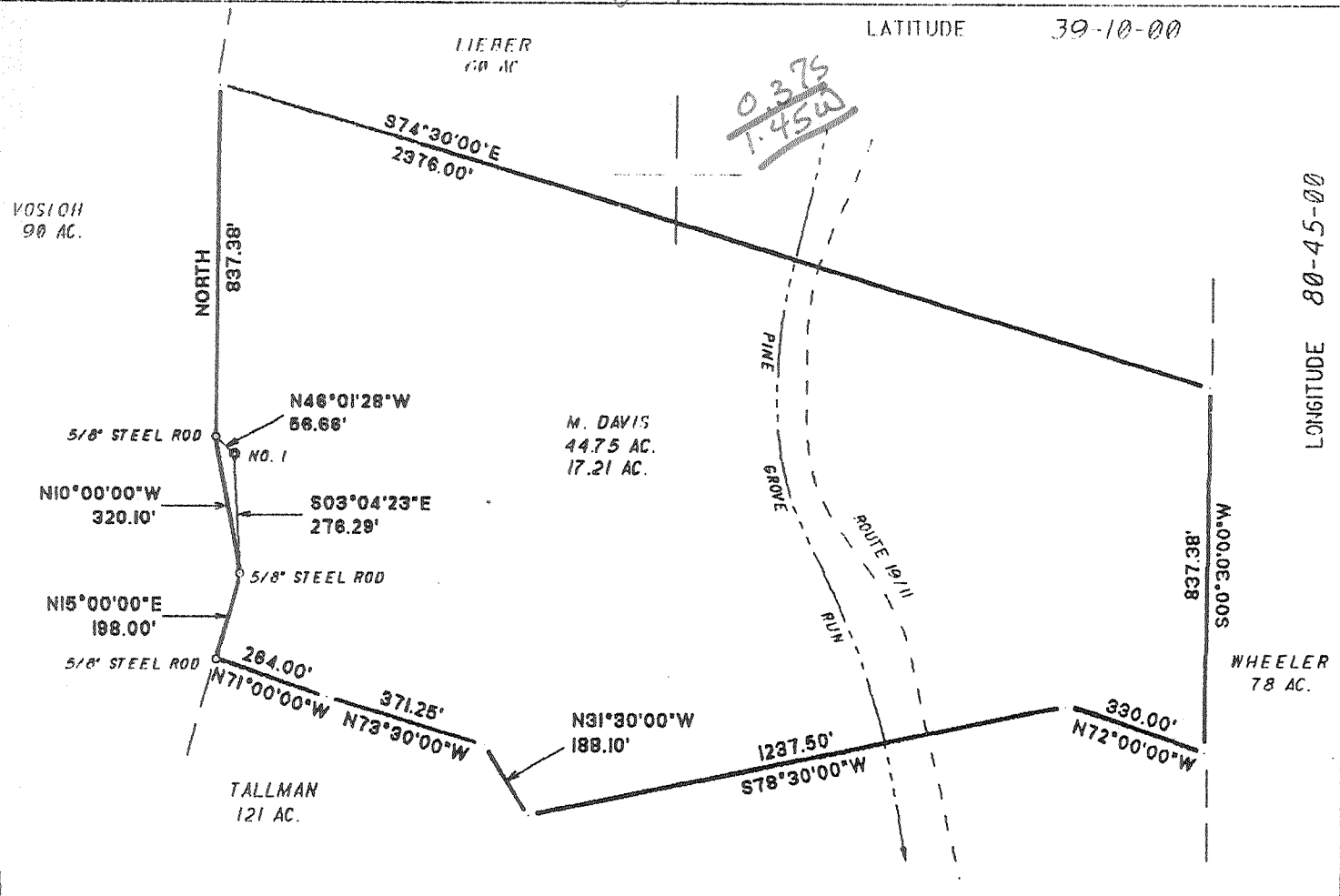
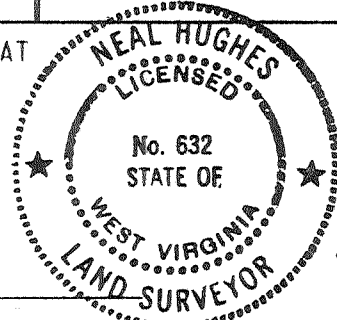


7.600

2.150



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 12, 19 93
 OPERATORS WELL NO. SUMMERS 1
 API WELL NO. 47 - 017 - 4028
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 93-69
 PROVEN SOURCE OF ELEVATION JUNCTION ROADS 938' SCALE 1"=400'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION



WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1295' WATERSHED PINE GROVE RUN Holtbrook EC
 DISTRICT COVE COUNTY DODDRIDGE QUADRANGLE OXFORD
 SURFACE OWNER MIKE DAVIS ACREAGE 17.21
 OWNERSHIP OWNER PAULINE SUMMERS, ET AL LEASE ACREAGE 70

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUG OFF OLD _____
 INFORMATION: PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) 6-6 Straight Fork-Bluestone Crk (133) TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'

WELL OPERATOR KEY OIL CO., INC 475 DESIGNATED AGENT JAN CHAPMAN
 ADDRESS 22 GARTON PLAZA, WESTON, WV 26452 ADDRESS 22 GARTON PLAZA, WESTON, WV 26452

DODDRIDGE COUNTY NAME PERMIT

AUG 06 1993

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

AUG 3 1 93

Permitting
Section of Oil & Gas
Farm name: DAVIS, MICHAEL D. Operator Well No.: SUMMERS #1

LOCATION: Elevation: 1,295.00 Quadrangle: OXFORD

District: COVE County: DODDRIDGE
Latitude: 2150 Feet South of 39 Deg. 10Min. Sec.
Longitude 7600 Feet West of 80 Deg. 45 Min. Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 08/02/93
Well work Commenced: 08/10/93
Well work Completed: 08/15/93
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5470'
Fresh water depths (ft) 95'
Salt water depths (ft) 0

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	1459	1459	335 sks. to surface
4-1/2		5418	485 sks.
1-1/2		4599	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): 0

OPEN FLOW DATA

Benson - 3rd Riley 4910-5006
Riley 4570-4600
Balltown 4150-4164
Speechly Pay zone depth (ft) 3400-3522

Producing formation _____
Gas: Initial open flow 622 MCF/d Oil: Initial open flow -0- Bbl/d
Final open flow 301 MCF/d Final open flow Show Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 700 psig (surface pressure) after 12 Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d 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.

TMG

For: KEY OIL COMPANY

By: Jan E. Chapman Jan E. Chapman
Date: August 30, 1993

SEP 3 1993

Details of Perforated Intervals and Fracturing

8-23-93
Halliburton

Benson-3rd Riley: (10 holes) (4915.50-5002.00) 500 gal. acid, 30,000# 20-40 sand, 375 BBL water

Riley: (10 holes) (4583.00-4597.50) 750 gal. acid, 5000# 80-100 sand, 25,000# 20-40 sand, 436 BBL water

Balltown: (8 holes) (4159.50-4161.25) 750 gal. acid, 3000# 80-100 sand, 23,000# 20-40 sand, 363 BBL water

Speechly: (12 holes) (3412.75-3514.75) 750 gal. acid, 30,000# 20-40 sand, 400 BBL water

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Sand, shale & red rock	0	1864	
Salt sand	1864	1920	
Sand & shale	1920	2064	Hole Damp @ 95'
Big Lime	2064	2148	<u>Gas Checks:</u>
Big Injun	2148	2200	
Sand & shale	2200	2530	
Gantz	2530	2540	2008' - 16/10 thru 2" w/mercury
Sand & shale	2540	2759	2193' - 10/10 thru 2" w/mercury
Gordon	2759	2766	2502' - 8/10 thru 2" w/mercury
Sand & shale	2766	3075	2999' - 8/10 thru 2" w/mercury
5th Sand	3075	3082	3496' - 6/10 thru 2" w/mercury
Sand & shale	3082	3400	4022' - 8/10 thru 2" w/mercury
Speechly	3400	3522	4421' - 8/10 thru 2" w/mercury
Sand & shale	3522	4150	4821' - 6/10 thru 2" w/mercury
Balltown	4150	4164	5129' - 6/10 thru 2" w/mercury
Sand & shale	4164	4570	T.D. - 4/10 thru 2" w/mercury
Riley	4570	4600	
Sand & shale	4600	4910	
3rd Riley	4910	4926	
Sand & shale	4926	5002	
Benson	5002	5008	
Sand & shale	5008	5286	
Alexander	5286	5348	
Sand & shale	5348	5470 T.D.	

DF-424

DFT-439

7/LL1

RECEIVED

WV Division of Environmental Protection

FORM WW-2B

017-4028
Issued 8/2/93
Expires 8/2/95

Page ___ of ___

JUL 27 93

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permitting Office of Oil & Gas WELL WORK PERMIT APPLICATION

17716

- 1) Well Operator: Key Oil Company ⁴⁷⁵ 251055 (2) 526
- 2) Operator's Well Number: Summers #1 3) Elevation: 1295
- Well type: (a) Oil X / or Gas X /
- (b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- 5) Proposed Target Formation(s): Alexander, Benson, Riley ⁴³⁹
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 100 ft
- 8) Approximate salt water depths: -0- 1500' med.
- 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 New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						0.6 KMU
Fresh Water	8 5/8	ERW	23	1445	1445	tc surface
Coal						3859/11
Intermediate						3859/11.2.0
Production	4 1/2	ERW	10.5		5500	360 SKS
Tubing						3859/11.1
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

0003
14

For Division of Oil and Gas Use Only

Fee(s) paid: _____ Well Work Permit _____ Reclamation Fund _____ WPCS _____

RECEIVED

WV Division of
Environmental Protection

JUL 27 93

Permitting
Office of Oil & Gas

- 1) Date: July 14, 1993
- 2) Operator's well number
Summers #1
- 3) API Well No: 47 - 017 - 4028
State - County - Permit

STATE OF WEST VIRGINIA
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 Micheal D. Davis
Address 115 Water St
Salem, WV 26426
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name NONE
Address _____
 - (b) Coal Owner(s) with Declaration
Name _____
Address _____
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt 2 Box 135
Salem, WV 26426
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
X 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:

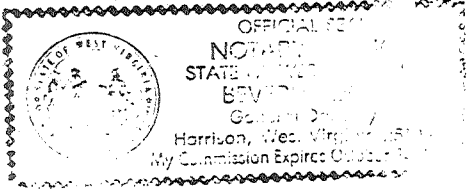
- _____ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

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.

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 15 day of July, 1993

[Signature] Notary Public
My commission expires 10-24-95