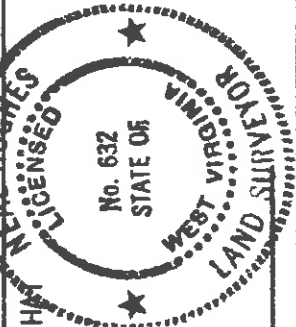
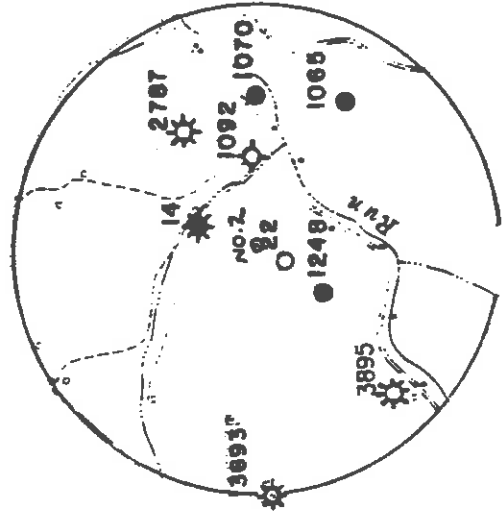
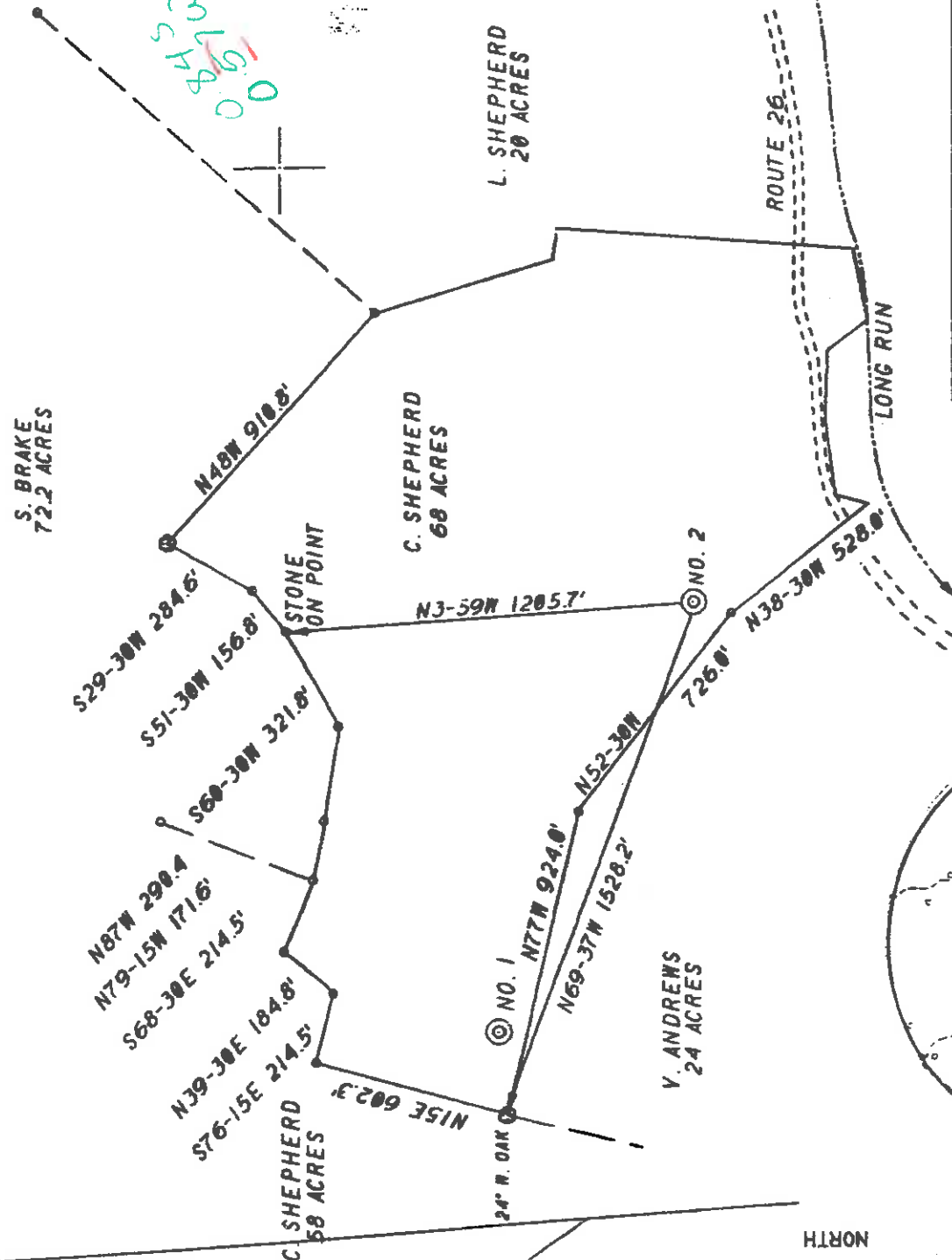


LATITUDE 39° 20' 00"

LONGITUDE 80° 58' 00"



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE APRIL 18, 19 94

OPERATORS WELL NO. A. DOTSON 2

API WELL NO. 47 - 017 - 4126 STATE VA COUNTY PERMIT

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.I.S. *Neal Hughes*
632

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 94-30 STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

PROVEN SOURCE OF ELEVATION KNOB 1130' SCALE 1"=500'

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

LOCATION: ELEVATION 1030' WATERSHED LONG RUN

DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION #15

SURFACE OWNER CARROLL SHEPHERD ACREAGE 68

ROYALTY OWNER ARLINGTON DOTSON, HEIRS LEASE ACREAGE 68

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 5500'

WELL OPERATOR KEY OIL CO. DESIGNATED AGENT JAN CHAPMAN RMIT 6-6-89

ADDRESS 22 GARTON PLAZA ADDRESS 22 GARTON PLAZA

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

Well Operator's Report of Well Work

Farm name: SHEPHERD, CARROLL Operator Well No.: A. DOTSON #2

LOCATION: Elevation: 1,030.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 4400 Feet South of 39 Deg. 20Min. Sec.
Longitude 3000 Feet West of 80 Deg. 50 Min. Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 05/11/94
Well work Commenced: 6-15-94
Well work Completed: 6-26-94
Verbal Plugging
Permission granted on: Rig
Rotary X Cable 5375
Total Depth (feet) 72, 220'
Fresh water depths (ft) 72, 220'

Salt water depths (ft) None
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	132	70 sks. to surface
8 5/8	1588	1588	430 sks. to surface
4 1/2	5316	5316	255 sks.
1 1/2	5177	5177	

OPEN FLOW DATA

Riley Benson
Producing formation Alexander
Gas: Initial open flow 60 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 534 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 1550 psig (surface pressure) after 96 Hours
Second producing formation
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.

For: KEY OIL COMPANY

By: *[Signature]* President
Date: July 19, 1994

AUG 20 1994

Arlington Dotson #2 47-017-4126
3 Stage Foam Frac - Halliburton

Stage 1: Alexander (11 holes) (5198.75-5236.50) 60 Quality Foam, 750 gal. 15% HCl, 30,000 lbs
20-40 sand, 358,000 SCF N₂, 525 bbls. Foam.
Stage 2: Benson (10 holes) (4926-4928.25) 75 Quality Foam, 750 gal. 15% HCl, 30,000 lbs
20-40 sand, 433,000 SCF N₂, 520 bbls. Foam.
Stage 3: Riley (13 holes) (4497.75-4541.75) 60 Quality Foam, 1250 gal. 15% HCl, 10,000
lbs. 80-100 sand, 40,000 lbs. 20-40 sand,
481,000 SCF N₂, 753 bbls. Foam.

RECEIVED
OFFICE OF OIL AND GAS

JUL 2 1 1994

WV Division of
Environmental Protection WELL LOG

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Clay	0	5	
Sand	5	15	Hole damp @ 72'
Sand and Shale	15	50	Hole damp @ 220'
Sand	50	60	1/2" Stream H ₂ O @ 268'
Shale	60	82	
Sand	82	150	
Red Rock and Shale	150	542	Gas Checks:
Shale	542	1005	1726 N/S
Red Rock	1005	1120	2007 N/S
Sand and Shale	1120	1485	2507 N/S
Sand	1485	1555	3006 N/S
Sand and Red Rock	1555	1878	3505 N/S
Little Lime	1878	1899	4004 N/S
Big Lime	1899	2060	4757 N/S
Big Injun	2060	2124	5000 N/S
Sand and Shale	2124	2248	5375 (T.D.) 2/10 thru 2" w/water
Weir	2248	2350	
Sand and Shale	2350	4496	
Riley	4496	4554	
Sand and Shale	4554	4924	
Benson	4924	4932	
Sand and Shale	4932	5192	
Alexander	5192	5250	
Shale	5250	5375	T.D.

1990 14

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 WELL WORK PERMIT APPLICATION
 Key Oil Company 25655

Issued 05/11/94
 Expired 05/11/96

Operator's Well Number: Arlington Dotson #2

Well type: (a) Oil or Gas

If Gas: Production Deep / Underground Storage Shallow

Proposed Target Formation(s): Alexander 439 feet

Proposed Total Depth: 5500 feet

Approximate fresh water strata depths: 90

Approximate salt water depths: -0-

Approximate coal seam depths: N/A

Does land contain coal seams tributary to active mine? Yes No

Proposed Well Work: Drill, Stimulate, Produce

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	LEFT IN WELL	FILL-UP (CUB. FT.)
Conductor	16"	Used		30	0	
Fresh Water	11 3/4"	ERW	42	132	132	70 SACS TO SURFACE
Coal						
Intermediate	8 5/8"	ERW	23	1550	1550	
Production	4 1/2"	J-55	10.5		5300	
Tubing	1.5"					
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fees: paid: Well Work Permit Reclamation Fund

Well No: NW-2 NW-12 30ND

1) Date: April 22, 1994
2) Operator's well number
Arlington Dotson #2
3) API Well No: 47 - 017 - 4126
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name Carroll Shepherd
Address Rt. 1 Box 94
Greenwood, WV 26360

5) (a) Coal Operator:
Name None
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

(c) Coal Lessee with Declaration
Name _____
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 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)
 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.



My Commission Expires Mar. 24, 2003

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 22nd day of April, 1994

[Signature] Notary Public
My commission expires March 24, 2003