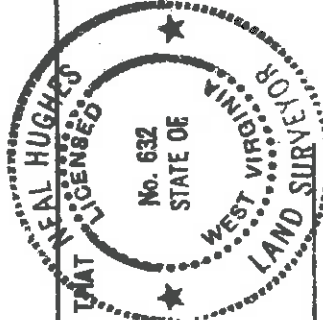
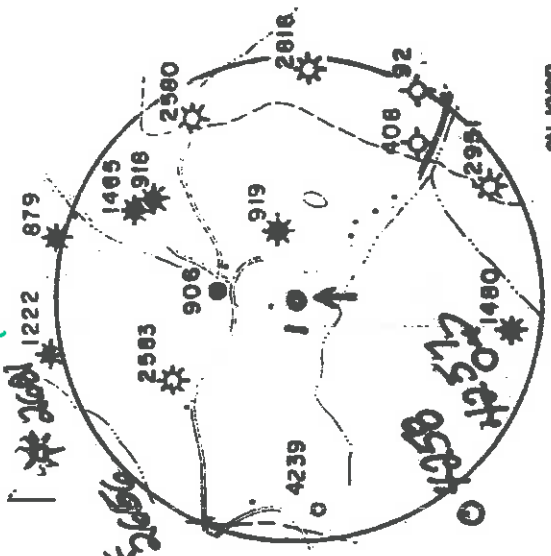
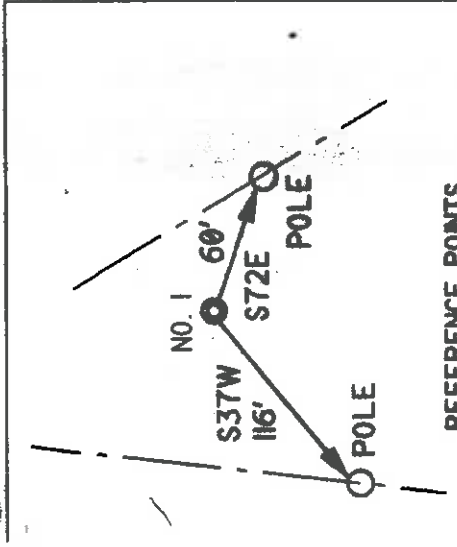
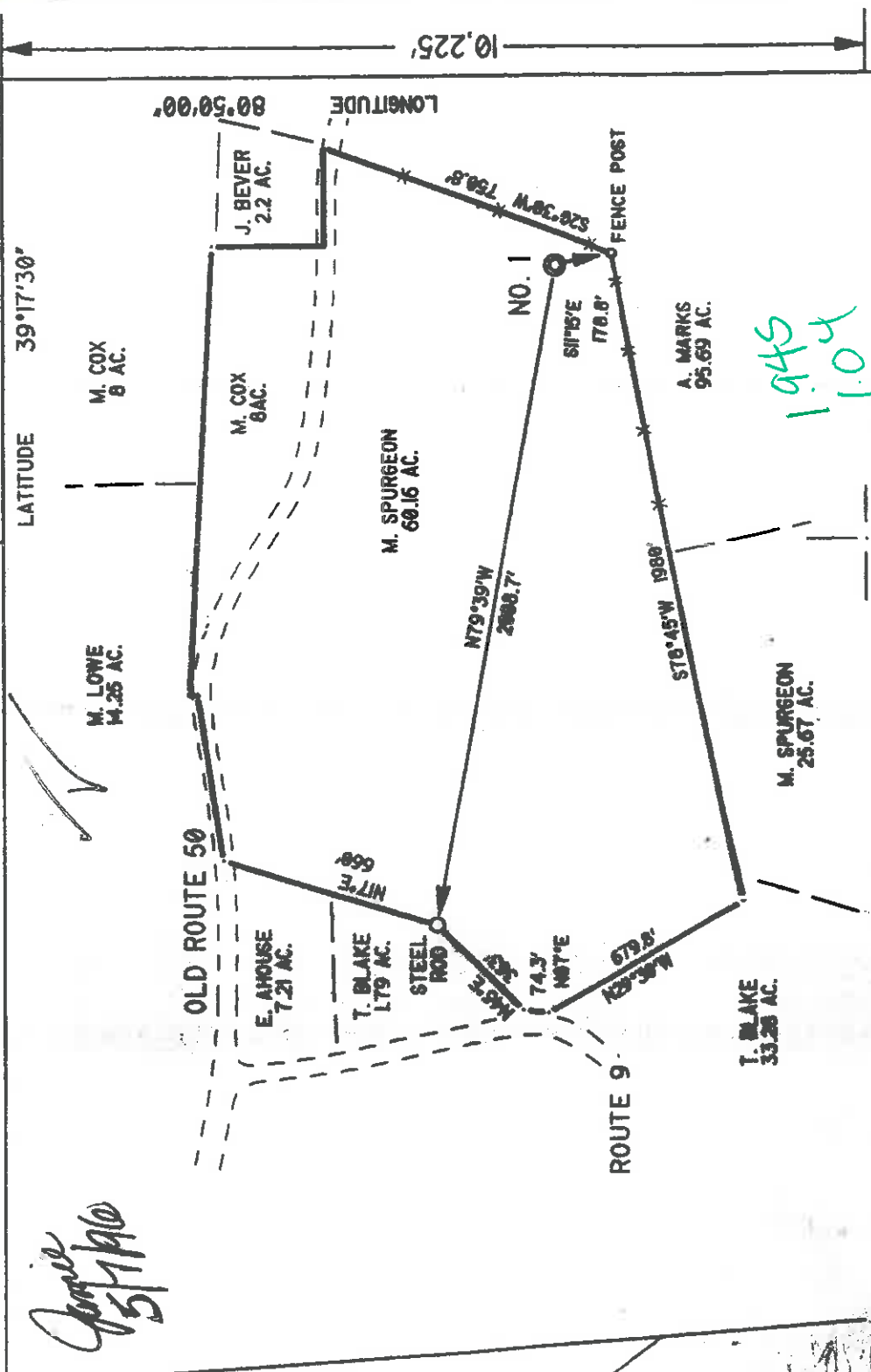


*James Spurgeon*

LATITUDE 39°17'30"

LONGITUDE 80°50'00"



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.L.S. *Neal Hughes*  
 632

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE APRIL 15 19 96  
 OPERATORS WELL NO. ED MASON I

API WELL NO. 47 - 017-04260  
 COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY	1/200	FILE NO.	96-29	STATE OF WEST VIRGINIA
PROVEN SOURCE OF ELEVATION	KNOB 1332'	SCALE	1" = 500'	DEPARTMENT OF ENERGY
WELL TYPE: OIL <input checked="" type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL <input type="checkbox"/>	*GAS* PRODUCTION <input checked="" type="checkbox"/>	STORAGE <input type="checkbox"/>	OIL AND GAS DIVISION
LOCATION: ELEVATION 1020'	WATERSHED CLAYLICK RUN	DEEP <input type="checkbox"/>	SHALLOW <input type="checkbox"/>	
DISTRICT CENTRAL	COUNTY DODDRIDGE	QUADRANGLE WEST UNION	ACREAGE 60.16	
SURFACE OWNER MELVIN DUANE SPURGEON	EDWARD H. MASON HEIRS, ET AL	LEASE ACREAGE 70.03		
ROYALTY OWNER				
PROPOSED WORK:	DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/>	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION <input type="checkbox"/>	PERFORATE NEW FORMATION <input type="checkbox"/>
PHYSICAL CHANGE IN WELL (SPECIFY)	PLUG AND ABANDON <input type="checkbox"/>	CLEAN OUT AND REPLUG <input type="checkbox"/>	OTHER <input type="checkbox"/>	
TARGET FORMATION ALEXANDER	ESTIMATED DEPTH 5600'			
WELL OPERATOR KEY OIL CO.	DESIGNATED AGENT <i>JS</i> JAN CHAPMAN	COUNTY	PERMIT	COUNTY NAME
ADDRESS 22 GARTON PLAZA	ADDRESS 22 GARTON PLAZA			
WESTON, WV 26452	WESTON, WV 26452			

6-6 89

FEB 13 1997

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

Permitting

Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: SPURGEON, MELVIN Operator Well No.: ED MASON #1

LOCATION: Elevation: 1,020.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE  
Latitude: 10225 Feet South of 39 Deg. 17Min. 30 Sec.  
Longitude 5550 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 05/07/96  
Permit Issued:

Well work Commenced: 05/14/96

Well work Completed: 05/20/96

Verbal Plugging

Permission granted on: Rig

Rotary X Cable 5477

Total Depth (feet) 90'

Fresh water depths (ft) 90'

Salt water depths (ft) 1602'

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

OPEN FLOW DATA  
BALLTOWN SANDS  
RILEY  
3rd RILEY  
BENSON

Producing formation ALEXANDER Pay zone depth (ft) 5228-5316  
Gas: Initial open flow 33 MCF/d Oil: Initial open flow 0 Bbl/d  
Final open flow 1,555 MCF/d Final open flow SHOW Bbl/d  
Time of open flow between initial and final tests N/A Hours  
Static rock Pressure 1750 psig (surface pressure) after 96 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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	124	124	70 SKS. TO SURFACE
8 5/8"	1758	1758	405 SKS. TO SURFACE
4 1/2"		5364	355 SKS.
1.5"		5254	

3788-4492  
4513-4608  
4901-4918  
4976-4994

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:   
Date: AUGUST 20, 1996

PRESIDENT

FEB 14 1997

Ed Mason #1 (47-017-4260)  
Four Stage Foam Frac - Halliburton

1st Stage: Alexander (11 holes) (5274' -5286.25') 60 Quality Foam, 500 gal. 15% HCl, 60,000 lbs. 20-40 sand, 490,000 SCF N<sub>2</sub>, 811 bbls. foam.

2nd Stage: Benson (7 holes) (4986.25' -4987.75') 75 Quality Foam, 750 gal. 15% HCl, 30,000 lbs. 20-40 sand, 501,000 SCF N<sub>2</sub>, 568 bbls. foam.  
Third Riley (3 holes) (4910.75-4911.25')

3rd Stage: Riley & Lower Balltown (14 holes) (4488.75' -4587.25') 60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 30,000 lbs. 20-40 sand, 508,000 SCF N<sub>2</sub>, 611 bbls. foam.

4th Stage: Balltown (11 holes) (3936.50' -4200.25') 60 Quality Foam, 750 gal. 15% HCl, 10,000 lbs. 80-100 sand, 35,000 lbs. 20-40 sand, 525,000 SCF N<sub>2</sub>, 700 bbls. foam.

Well Log

Formation	Top Feet	Bottom Feet	Remarks
Fill	0	10	
Sand	10	20	Hole wet at 90'
Red Rock & Shale	20	75	1/4" stream of water at 1602'
Sand & Shale	75	141	
Red Rock, Sand & Shale	141	1571	
Sand & Shale	1571	2000	
Little Lime	2000	2026	
Pencil Cave	2026	2040	
Big Lime	2040	2100	1911' N/S
Big Injun	2100	2172	2069' N/S
Sand & Shale	2172	2336	2553' N/S
Weir	2336	2376	3002' N/S
Sand & Shale	2376	3438	3622' Gas Odor
Warren/Speechley	3438	3500	4212' Gas Odor
Sand & Shale	3500	3788	5100' 2/10 thru 1" w/water
Balltown Sands & Shale	3788	4492	5477' T.D. 10/10 thru 1" w/water
Sand & Shale	4492	4513	
Riley	4513	4608	
Sand & Shale	4608	4901	
3rd Riley	4901	4918	
Sand & Shale	4918	4976	
Benson	4976	4994	
Sand & Shale	4994	5328	
Alexander	5328	5316	
Shale	5316	5477	
T.D.	5477		



**RECEIVED**  
WV Division of  
Environmental Protection

APR 22 1996

1)  
2)  
3)

Date: APRIL 17, 1996  
Operator's well number  
ED MASON #1  
API Well No: 47 - 017 - 4260  
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:

(a) Name MELVIN SPURGEON  
Address RT. 2 BOX 145T  
MARTINSBURG, WV 25401

(b) Name  
Address

(c) Name  
Address

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

5) (a) Coal Operator:  
Name NONE  
Address

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

(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: \_\_\_\_\_  
Personal Service (Affidavit attached)  
X 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  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102

Subscribed and sworn before me this 17TH day of APRIL, 1996

My commission expires March 24, 2003 Notary Public

