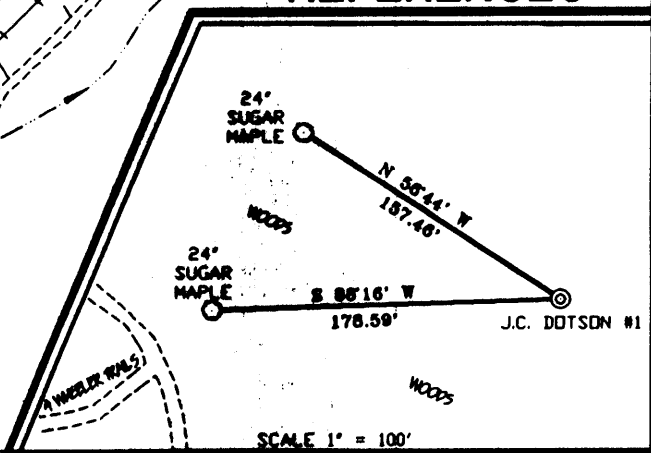
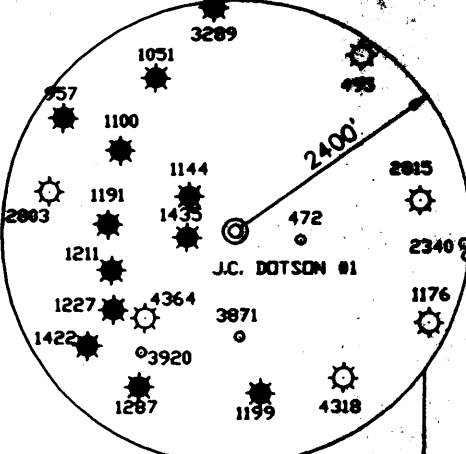
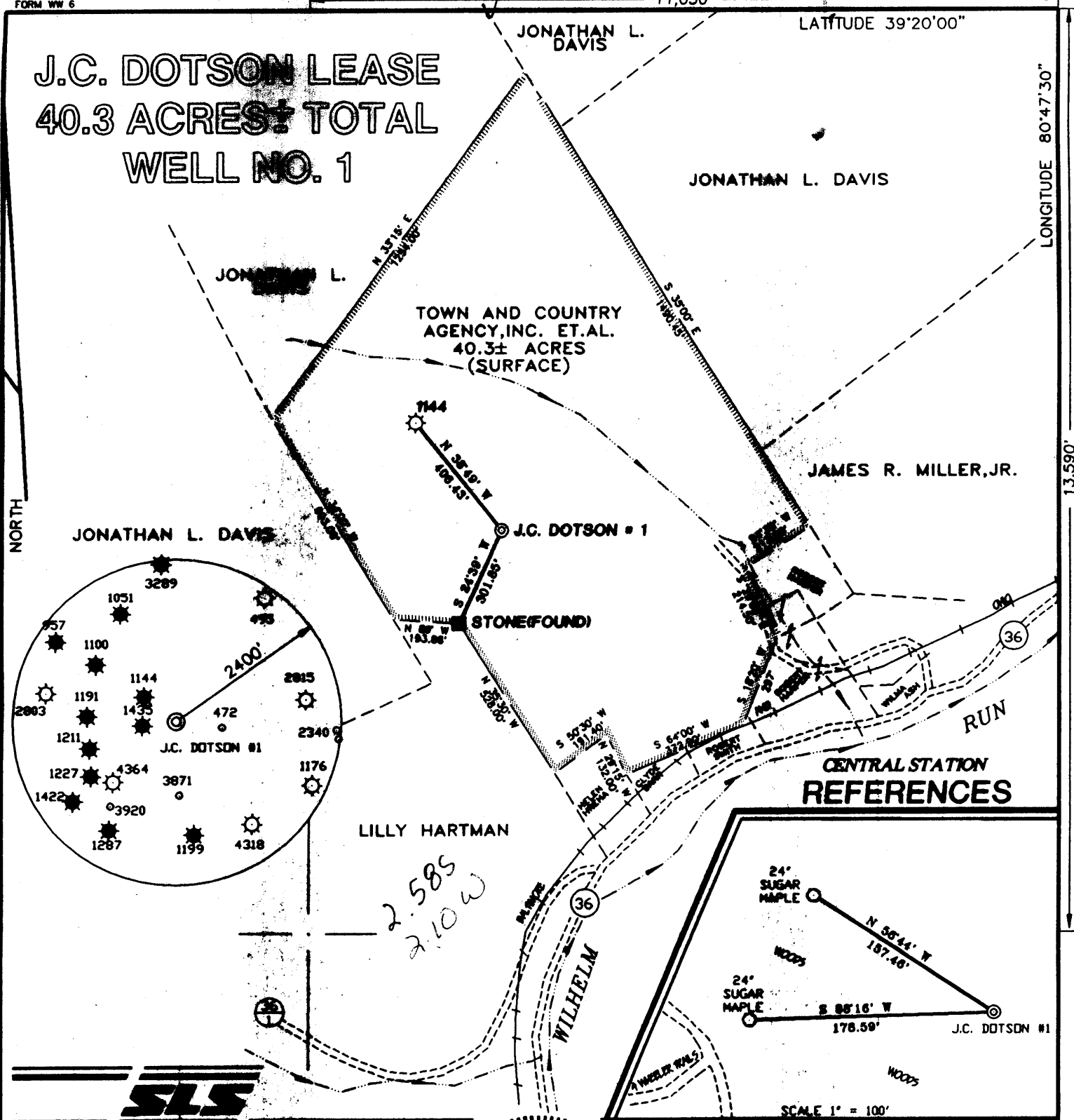
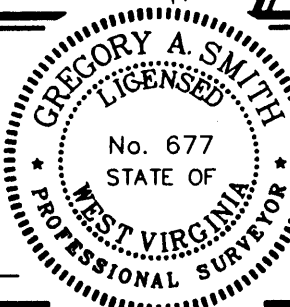


J.C. DOTSON LEASE 40.3 ACRES± TOTAL WELL NO. 1



I THE UNDERSIGNED, 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.

P.S. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 12, 19 97
OPERATORS WELL NO. J.C. DOTSON #1
API WELL NO. 47 - 017 - 04422
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3848P1 (64-54)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 816' SCALE 1" = 400'

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



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

LOCATION : ELEVATION 1099' WATERSHED TRIBUTARY OF WILHELM RUN
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER TOWN AND COUNTRY AGENCY, INC. ET.AL. ACREAGE 40.3
ROYALTY OWNER STELLA DOTSON ET.AL. LEASE ACREAGE 40.3
PROPOSED WORK : LEASE NO. _____
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 WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

DEC 29 1997

COUNTY NAME PERMIT

WR-35

29 - Dec - 97
API # 47 - 17 - 04422

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

Well Operator's Report of Well Work

Farm name: TOWN & COUNTRY AGENCY, INC.

Operator Well No. : J.C. DOTSON #1

LOCATION: Elevation: 1,099.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 13590 Feet South of 39 Deg. 20 Min. 00 Sec.

Longitude: 11050 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 12/29/97
Well Work Commenced: 1/02/98
Well Work Completed: 01/07/98

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5459'
Fresh water depths (ft) 770'
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"	130.15'	130.15'	70 sks To Surface
8 5/8"	1902'	1902'	460 sks To Surface
4 1/2"	5397'	5397'	370 sks
2 3/8"		5274'	

OPEN FLOW DATA

Balltown 3790' - 4346'
 Riley 4554' - 4628'
 Benson 5002' - 5014'
 Producing formation Alexander Pay zone depth (ft) 5250' - 5330'
 Gas: Initial open flow Show MCF / d Oil: Initial open flow 0 Bbl / d
 Final open flow 1,504 MCF / d Oil: 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 Commingled Pay zone depth (ft) _____
 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: [Signature]

PRESIDENT

Date: August 5, 1998

D000 4/1/22

J.C. Dotson #1 (47-017-4422)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (12 holes) (5294' to 5325.75')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 813 bbls foam.
2 nd Stage:	Benson (12 holes) (5007' to 5009.75')	60 Quality Foam. 750 gal 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 714 bbls foam.
3 rd Stage:	Riley (12 holes) (4579' to 4617.75')	60 Quality Foam. 750gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 744 bbls foam.
4 th Stage:	Balltown (13 holes) (3875.25' to 4042.50')	60 Quality Foam, 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill & Clay	0	15	
Shale & Red Rock	15	137	
Sand & Shale	137	345	
Sand & Shale & Red Rock	345	507	
Sand	507	525	
Shale & Red Rock	525	638	
Sand	638	715	
Shale & Red Rock	715	1419	½" H ₂ O @ 770'
Sand	1419	1478	
Sand & Shale	1478	1500	
Sand	1500	1669	
Sand & Shale	1669	2008	
Little Lime	2008	2038	
Shale	2038	2046	
Big Lime	2046	2120	
Big Injun	2120	2206	Gas Checks
Shale	2206	2334	2501' - No Show
Weir	2334	2457	3059' - No Show
Sand & Shale	2457	3400	3717' - No Show
Warren	3400	3470	4526' - No Show
Shale	3470	3478	4902' - Show
Speechley	3478	3596	5210' - Show
Shale	3596	3790	
Balltown	3790	4346	
Shale	4346	4554	
Riley	4554	4628	
Sand & Shale	4628	4843	
Second & Third Riley	4843	4959	
Shale	4959	5002	
Benson	5002	5014	
Shale	5014	5250	
Alexander	5250	5330	
Sand & Shale	5330	5459	
TD	5459		

WELL WORK PERMIT APPLICATION

- 1) Well Operator: KEY OIL COMPANY 475 28655 (1) 471
- 2) Operator's Well Number: J. C. DOTSON #1 3) Elevation: 1099'
- Well type: (a) Oil / or Gas /
- (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- Proposed Target Formation(s): ALEXANDER ⁴³⁹ 47-017-04422
- 6) Proposed Total Depth: 5600 feet *Issued 12/29/97*
- 7) Approximate fresh water strata depths: 80 *Expires 12/29/99*
- 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 /
- 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE *New Well*
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4	ERW	42			<i>38CSA/811.2</i>
Fresh Water	8 5/8	ERW	23	1099	1099	295 SKS. TO SURFACE
Coal						<i>38CSA/811.2</i>
Intermediate						
Production	4 1/2	J-55	10.5		5500	490 SKS.
Tubing	1.5					<i>38CSA/811.1</i>
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond _____ Agent _____
 (Type)

200

1) Date: DECEMBER 16, 1997
2) Operator's well number J. C. DOTSON #1
3) API Well No: 47 - 017 - 4422
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 TOWN & COUNTRY AGENCY, INC. Name NONE
 Address 110 E. MAIN STREET Address _____
GLENVILLE, WV 26351
- (b) Name _____ (b) Coal Owner(s) with Declaration
 Address _____ 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**
 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 16TH day of DECEMBER, 1997

Karen Cook
My commission expires MARCH 24, 2003

