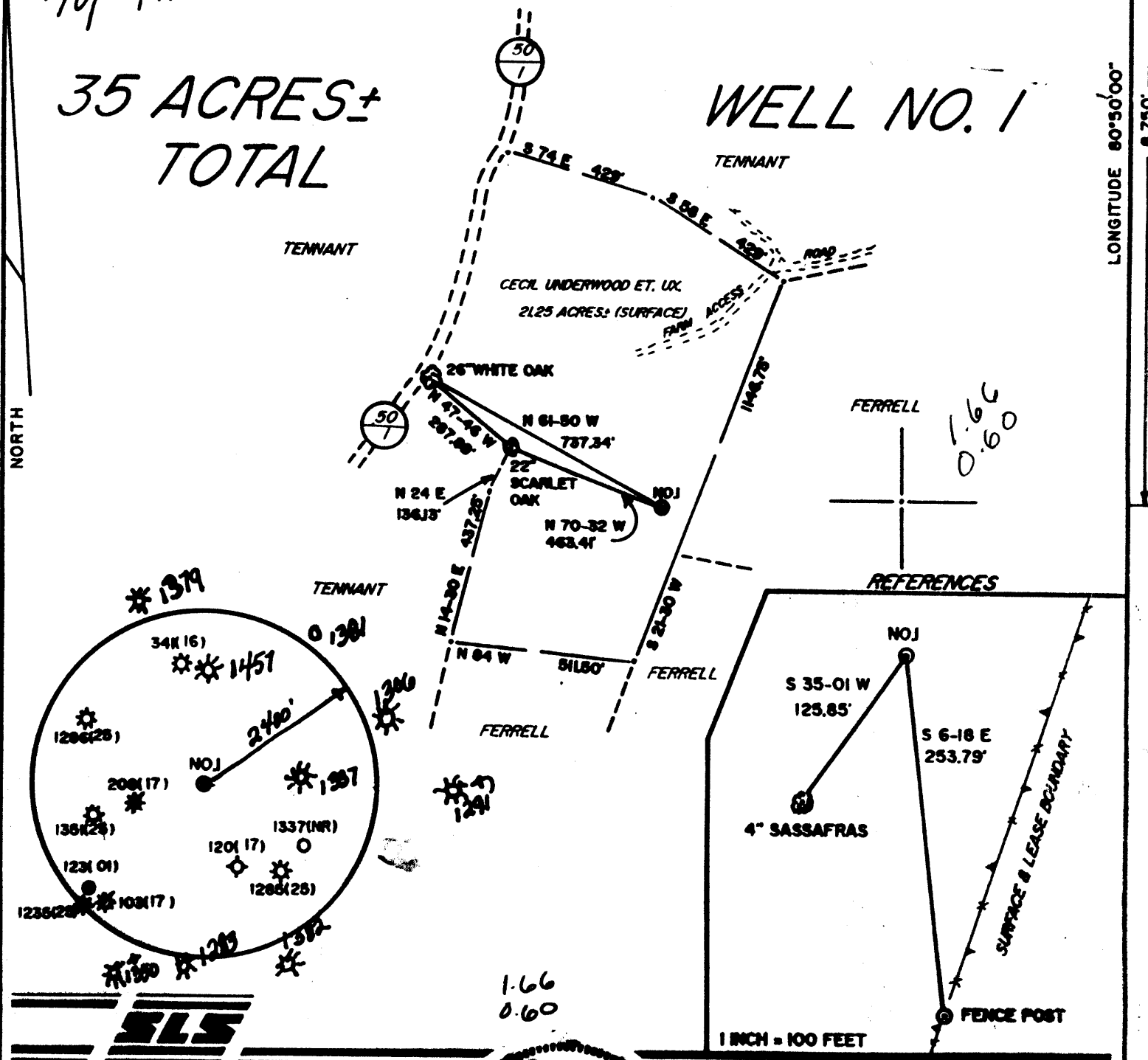


*Amil*  
*10/29/91*

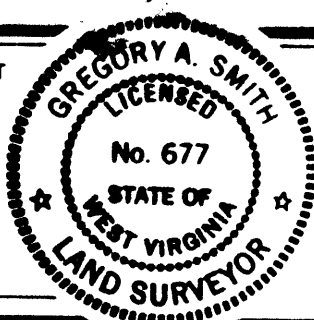
# GOVERNOR LEASE

## 35 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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 14, 1991  
 OPERATORS WELL NO. GOVERNOR NO. 1  
 API WELL NO. 47-095-1499  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2557(34-54)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1122' 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 1094' WATERSHED ROSS RUN  
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE SHIRLEY 7.5' W

SURFACE OWNER CECIL H. & HOVAH H. UNDERWOOD ACREAGE 30.75  
 ROYALTY OWNER CECIL H. & HOVAH H. UNDERWOOD LEASE ACREAGE 21.25 OF 35

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 BENSON  
 ESTIMATED DEPTH 5100' AUG 3 1992

WELL OPERATOR Key Oil Inc. 475 DESIGNATED AGENT Jan E. Chapman  
 ADDRESS W. E. Gaston Plaza ADDRESS Same  
Weston, W. 26452

0090508 3DU1JN07 052'9 COUNTY NAME TYLER PERMIT

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

RECEIVED  
DEC 10 1993  
DIVISION OF OIL AND GAS

Well Operator's Report of Well Work

Farm name: Cecil H. & Hovah H. Underwood Operator Well No.: Key/Underwood #1

LOCATION: Elevation: 1094' Quadrangle: Shirley 7.5'

District: Centerville County: Tyler  
Latitude: 6750' Feet South of 39 Deg. 25 Min. 00 Sec.  
Longitude 3210' Feet West of 80 Deg. 50 Min. 00 Sec.

Company: EASTERN AMERICAN ENERGY CORP.  
P. O. BOX N  
GLENVILLE, WV

Asent: DONALD C. SUPCOE

Inspector: Mike Underwood

Permit Issued: 07/29/92

Well work Commenced: 11/08/93

Well work Completed: \_\_\_\_\_

Verbal Pluggings \_\_\_\_\_

Permission granted on: \_\_\_\_\_

Rotary XX Cable \_\_\_\_\_ Ris \_\_\_\_\_

Total Depth (feet) 5260'

Fresh water depths (ft) 341'

Salt water depths (ft) 1515'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): None

Size	Used in	Left	Cement
8-5/8"	1136'	1136'	275 sxs
4-1/2"	----	5119.45'	175 sxs

OPEN FLOW DATA

(COMMINGLED)

Producing formation Benson, Riley Pay zone depth (ft) 5052'-4621'  
 Gas: Initial open flow 223 MCF/d Oil: Initial open flow N/A Bbl/d  
 Final open flow 189 MCF/d Final open flow N/A Bbl/d  
 Time of open flow between initial and final tests 15 Hours  
 Static rock Pressure 975 psig (surface pressure) after 24 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.

*Ronald L. Rech*

For: EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager

Date: December 7, 1993

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2 STAGE FRAC

Stage One Benson: 12 holes (5046'-5052'); fraced w/energized water (200 scf/bsl), 30 lbs gel/1000 gals, 45,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 141,000 scf of N2.

Stage Two Riley: 13 holes (4621'-4688'), fraced w/energized water (250 scf/bsl), 30 lbs gel/1000 gals, 40,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 152,000 scf of N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	3	
Shale			3	7	
Sandy Shale			7	15	
Sand			15	40	
Sandy Shale			40	72	
Red Rock			72	93	
Sand			93	122	
Red Rock			122	136	
Sandy Shale			136	173	
Sand			173	186	
Red Rock			186	208	
Sandy Shale			208	263	
Red Rock			263	284	
Sandy Shale			284	317	
Red Rock			317	341	
Sand			341	408	Hole Damp @ 341-
Red Rock			408	437	
Sandy Shale			437	540	
Sand			540	580	
Sandy Shale			580	740	
Sandy Lime			740	756	
Sandy Shale			756	850	
Red Rock			850	870	
Sandy Shale			870	945	
Red Rock			945	975	
Sandy Shale			975	1510	
Sand			1510	1580	1515' - 1 1/2" stream H2O
Sandy Shale			1580	1730	
Sand			1730	1770	
Sandy Shale			1770	1923	
Little Lime			1923	1936	
Sandy Shale			1936	1962	
Big Lime			1962	2053	
Keener			2053	2075	
Injun			2075	2198	

13891

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale			2198	2200	Gas Checks:  1949' - No Show 2043' - No Show 2107' - No Show 2200' - No Show 3145' - 24/10 thru 2" w/water 3494' - 22/10 thru 2" w/water 3996' - 24/10 thru 2" w/water 4564' - 24/10 thru 2" w/water 4692' - 24/10 thru 2" w/water 5007' - 24/10 thru 2" w/water
Sandy Shale			2200	2419	
Sand			2419	2451	
Shale			2451	2539	
Sand			2539	2546	
Shale			2546	2581	
Sandy Shale			2581	3470	
Sand			3470	3500	
Sandy Shale			3500	3935	
Sand			3935	3953	
Sandy Shale			3953	4620	
Riley			4620	4670	
Shale			4670	4755	
Sandy Shale			4755	5046	
Benson			5046	5054	
Sandy Shale			5054	5260	
				TO	DF - 424 DFT - 435

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095-1499

Issued 7/29/92

FORM WW-2B

11 1 0 2

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

Expires 7/29/94 page of

- 1) Well Operator: KEY OIL, INC. 25655 (1) 606
2) Operator's Well Number: Governor Underwood #1 3) Elevation: 1094'
4) Well type: (a) Oil X/ or Gas X/ (b) If Gas: Production X/ Underground Storage Deep Shallow X/
5) Proposed Target Formation(s): -35 Benson
6) Proposed Total Depth: 5,100 feet
7) Approximate fresh water strata depths: 650'
8) Approximate salt water depths: -0-
9) Approximate coal seam depths: N/A
10) Does land contain coal seams tributary to active mine? Yes NoX
11) Proposed Well Work: Drill, Stimulate, Produce New Well.
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), and CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

13898

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

Fee :

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Page 1 of \_\_\_\_\_  
Form WW2-A  
(09/87)  
File Copy

JUL 10

- 1) Date: July 8, 1992
- 2) Operator's well number Governor Underwood #1
- 3) API Well No: 47 - 095 - 1499  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

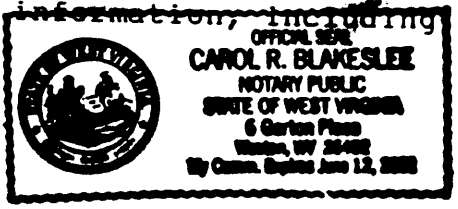
- 4) Surface Owner(s) to be served:
  - (a) Name Cecil Underwood, et ux  
Address 609 13th Avenue  
Huntington, WV 25701
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 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  
 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.



Well Operator KEY OIL, INC.  
 By: Jan E. Chapman Jan E. Chapman  
 Its: Vice President  
 Address 6 Garton Plaza  
Weston, WV 26452  
 Telephone (304) 269-7102

Subscribed and sworn before me this 8th day of July, 1992

Carol R. Blakeslee  
My commission expires \_\_\_\_\_

June 12, 2001 Notary Public