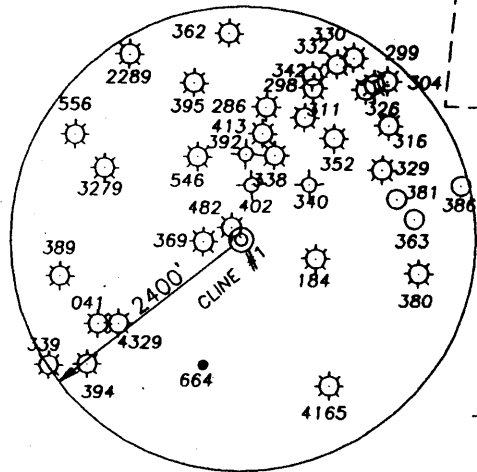
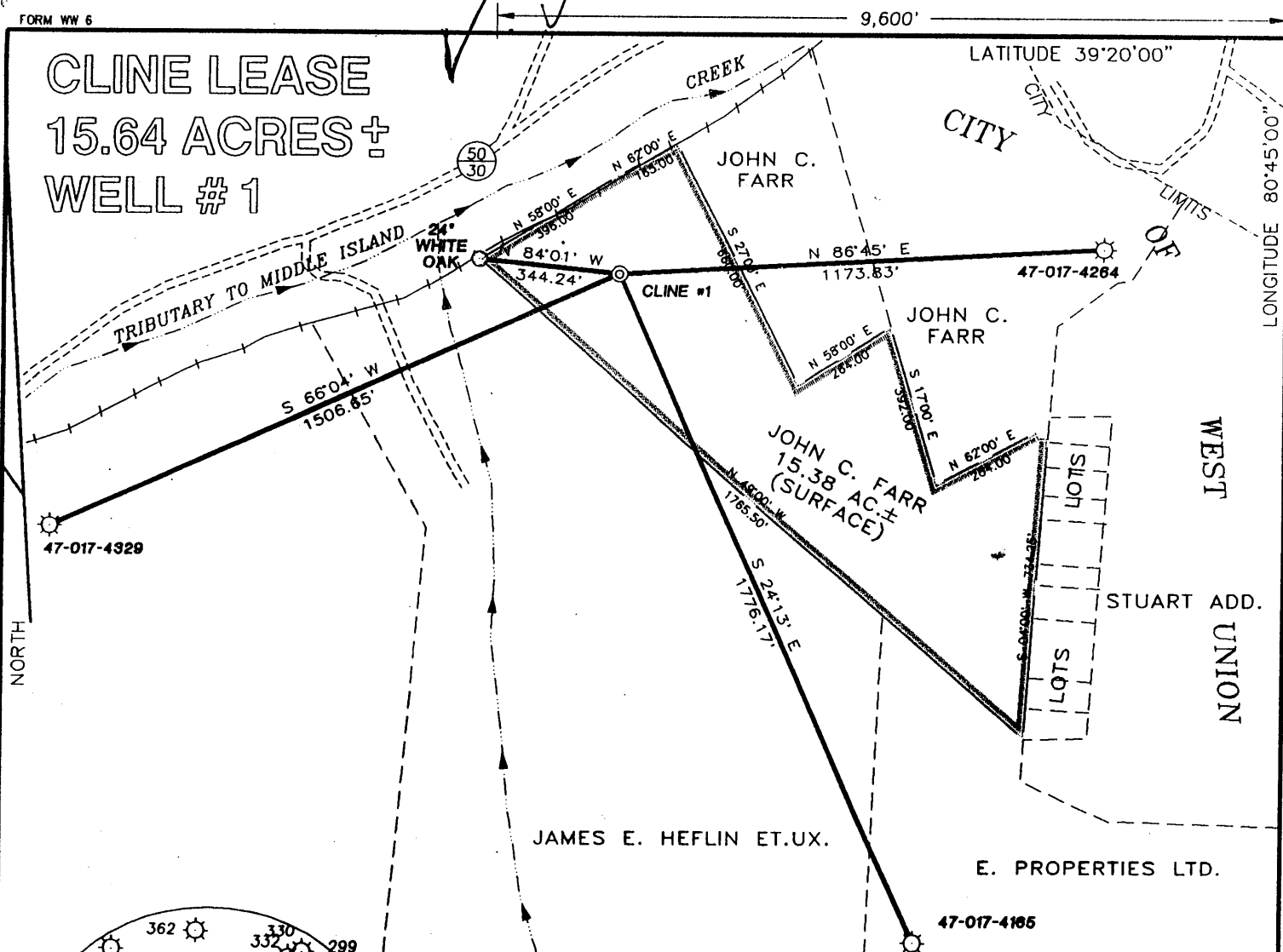


CLINE LEASE 15.64 ACRES ± WELL # 1

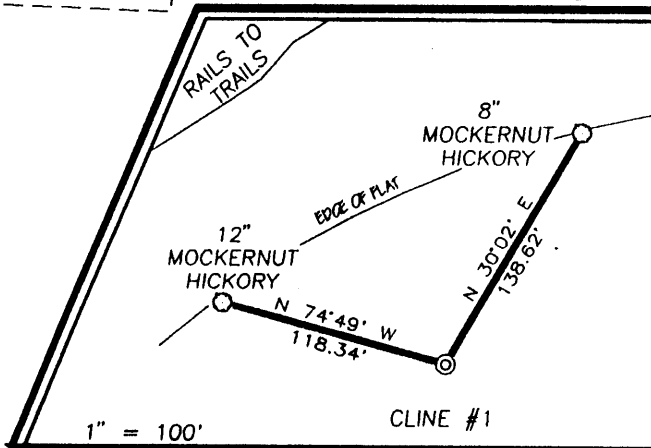


JAMES E. HEFLIN ET.UX.

E. PROPERTIES LTD.

47-017-4165

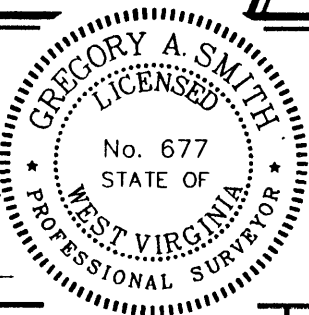
REFERENCES



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. 677

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE AUGUST 8, 19 97

OPERATORS WELL NO. CLINE #1

API WELL NO. 47-017-04386
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3777P1 (65-71)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 866' 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 922' WATERSHED TRIBUTARY TO MIDDLE ISLAND CREEK

DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'

SURFACE OWNER JOHN C. FARR ACREAGE 15.38

ROYALTY OWNER HARRY E. CLINE AND JOHN C. FARR LEASE ACREAGE 15.64

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 AUG 28 1997

ADDRESS 22 GARTON PLAZA WESTON, WV 26452 ADDRESS 22 GARTON PLAZA WESTON, WV 26452

6-6 99

COUNTY NAME
PERMIT

WR-35

21 - Aug - 97
API # 47 - 17 - 04386

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

Well Operator's Report of Well Work

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION

Farm name: FARR, JOHN C.

Operator Well No. : CLINE #1

LOCATION: Elevation: 922.00

Quadrangle: WEST UNION

District: WEST UNION

County: DODDRIDGE

Latitude: 14850 Feet South of 39 Deg. 20 Min. 0 Sec.

Longitude: 9600 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 08/29/97
Well Work Commenced: 10/28/97
Well Work Completed: 11/11/97

Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5277'
Fresh water depths (ft) 310'
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. |
|----------------------|------------------|--------------|------------------------|
| 8 5/8" | 928.15' | 928.15' | 250 sks To Surface |
| 4 1/2" | 5240' | 5240' | 470 sks |
| 2 3/8" | | 5051' | |


OPEN FLOW DATA

| | |
|--------------------------------------------------------------------|-------------------------------------|
| Warren | 3170' - 3234' |
| Speechley | 3248' - 3347' |
| Rileys | 4344' - 4760' |
| Benson | 4811' - 4823' |
| Producing formation Alexander | Pay zone depth (ft) 5048' - 5153' |
| Gas: Initial open flow Show MCF / d | Oil: Initial open flow 0 Bbl / d |
| Final open flow 1,540 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: 

PRESIDENT

Date: March 27, 1998

MAY 01 1998

Dodd 4386

Cline #1 (47-017-04386)
Four Stage Foam Frac - Halliburton

| | | |
|------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1 st Stage: | Alexander (14 holes) (5071.50' to 5138.25') | 60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 809 bbls foam. |
| 2 nd Stage: | Benson (7 holes) (4817' to 4848.50') Third Riley (5 holes) (4739' to 4740') | 60 Quality Foam. 750 gal. 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 710 bbls foam. |
| 3 rd Stage: | Riley (12 holes) (4372.50' to 4404.25') | 60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 740 bbls foam. |
| 4 th Stage: | Speechley (6 holes) (3259.25' to 3338') Warren (7 holes) (3211.25' to 3231.75') | 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 and clay | 0 | 14 | |
| Sand & Shale | 13 | 178 | |
| Red Rock | 178 | 191 | |
| Sand & Shale | 191 | 830 | ¾" H ² O @ 310' |
| Red Rock & Shale | 830 | 935 | |
| Sand & Shale | 935 | 1340 | |
| Sand | 1340 | 1391 | |
| Sand & Shale | 1391 | 1420 | |
| Sand | 1420 | 1452 | |
| Sand & Shale | 1452 | 1771 | |
| Little Lime | 1771 | 1791 | |
| Shale | 1791 | 1820 | |
| Big Lime | 1820 | 1900 | |
| Big Injun | 1900 | 1968 | |
| Shale | 1968 | 2114 | GAS CHECKS |
| Weir | 2114 | 2218 | 1731' - No Show |
| Sand & Shale | 2218 | 2321 | 2504' - No Show |
| Berea | 2321 | 2329 | 3001' - No Show |
| Sand & Shale | 2329 | 2510 | 3530' - No show |
| Gordon | 2510 | 2567 | 4210' - No Show |
| Sand & Shale | 2567 | 3170 | 4703 - 3/10 ^{ths} - ½" w/ H ² O |
| Warren | 3170 | 3234 | 4919 - 10/10 ^{ths} - ½" w/ H ² O |
| Shale | 3234 | 3248 | TD - Show |
| Speechley | 3248 | 3347 | |
| Shale & Sand | 3347 | 4344 | |
| Riley | 4344 | 4416 | |
| Sand & Shale | 4416 | 4728 | |
| Third Riley | 4728 | 4760 | |
| Shale | 4760 | 4811 | |
| Benson | 4811 | 4823 | |
| Sand & Shale | 4823 | 5048 | |
| Alexander | 5048 | 5153 | |
| Shale | 5153 | 5277 | |
| T.D. | 5277 | | |

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: KEY OIL COMPANY ⁴⁻⁵ 25655 (8) 671
- 2) Operator's Well Number: CLINE #1 3) Elevation: 922'
- 4) Well type: (a) Oil X / or Gas X / *Issued 08/29/97*
(b) If Gas: Production X / Underground Storage / *Expires 08/29/99*
Deep / Shallow X /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 80'
- Approximate salt water depths: -0-
- 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)

24171

Office of Oil & Gas
Permitting
MAY 2 1999

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | FOOTAGE INTERVALS | | | CEMENT |
|--------------|----------------|-------|-------------------|--------------|--------------|----------------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | 11 3/4 | ERW | 42 | 42 | 0 | <i>380 SK. TO SURFACE</i> |
| Fresh Water | 8 5/8 | ERW | 23 | 922 | 922 | <i>250 SKS. TO SURFACE</i> |
| Coal | | | | | | <i>380 SK. TO SURFACE</i> |
| Intermediate | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | | 5450 | <i>490 SKS.</i> |
| Tubing | 1.5 | | | | | <i>380 SK. TO SURFACE</i> |
| Liners | | | | | | |

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

004796
 Fee(s) paid: ²⁷ Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
 (Type)

Office of Oil & Gas

1) Date: AUGUST 18, 1997
2) Operator's well number
CLINE #1
3) API Well No: 47 - 017 - 4386
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 JOHN C. FARR, BY HIS Name NONE
Address ATTORNEY-IN-FACT Address _____
P. D. FARR II
~~(b) Name~~ RT. 1 BOX 162 (b) Coal Owner(s) with Declaration
Address LITTLE HOCKING, OH 45742 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:

- 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 KEY OIL COMPANY
By: [Signature]
Its: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

Subscribed and sworn before me this 18TH day of AUGUST 19 97

Karen Cook
My commission expires MARCH 24, 2003

