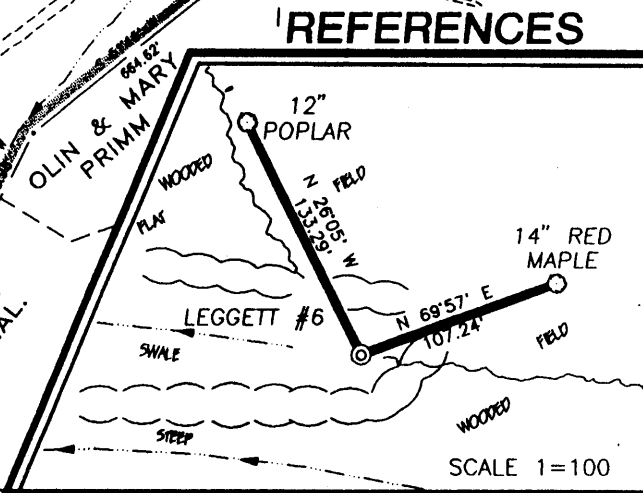
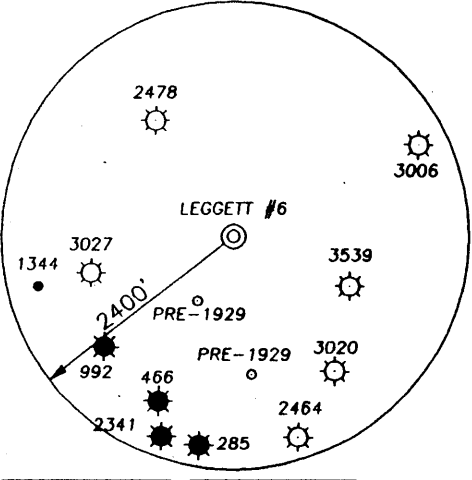
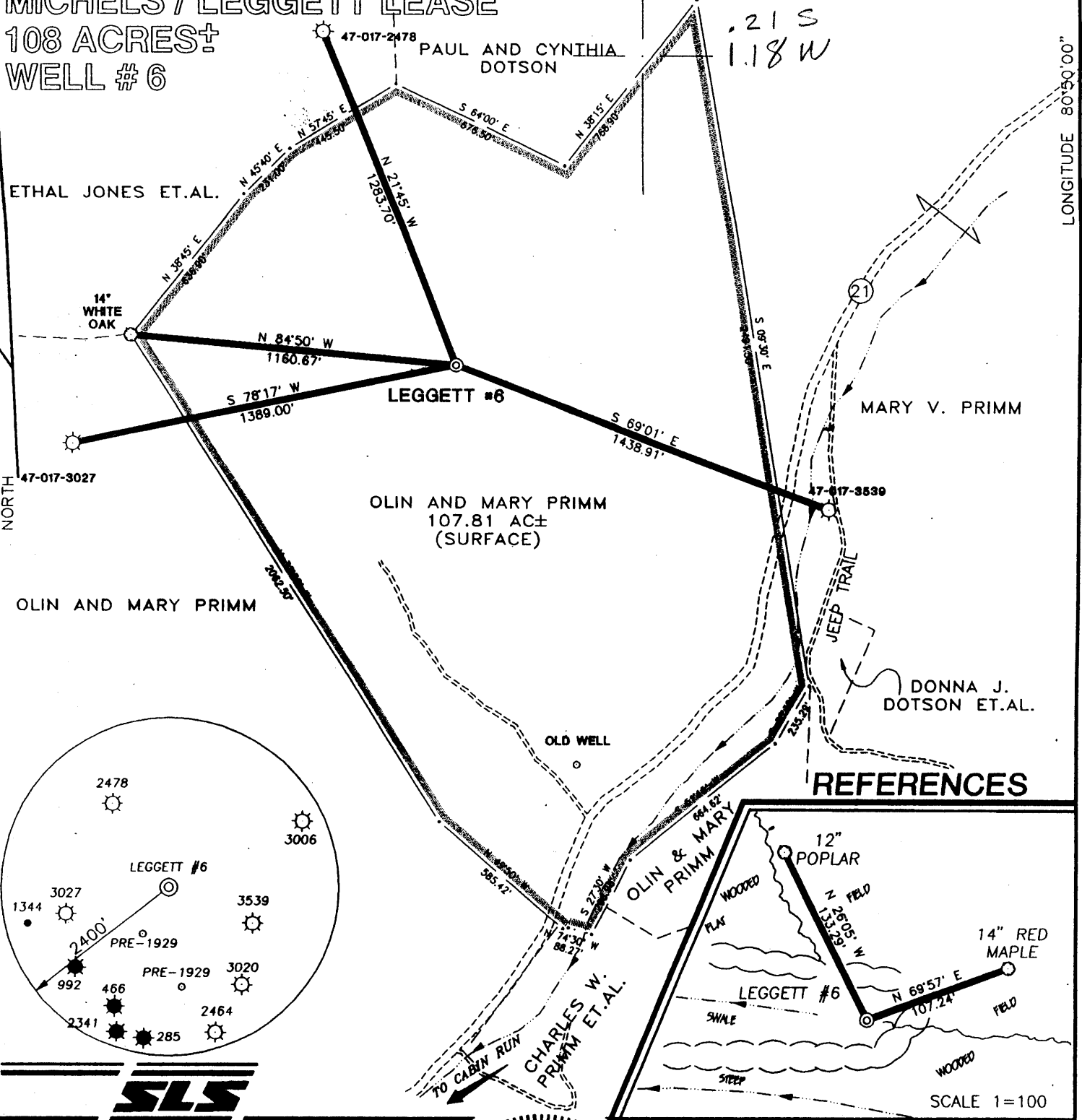


MICHEL'S / LEGGETT LEASE

108 ACRES± WELL # 6

LATITUDE 39°15'00"

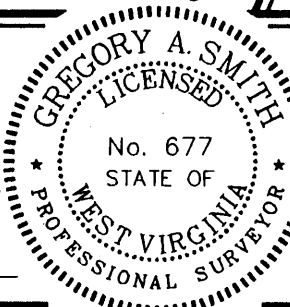


REFERENCES



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 JULY 29, 19 97
 OPERATORS WELL NO. LEGGETT #6
 API WELL NO. 47-017 04387
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3773P1 (65-64)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 899' SCALE 1" = 500'

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 1108' WATERSHED TRIBUTARY TO CABIN RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'
 SURFACE OWNER OLIN E. AND MARY VIRGINIA PRIMM ACREAGE 107.81
 ROYALTY OWNER RALPH H. LEGGETT HEIRS ET.AL. LEASE ACREAGE 108
 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

6-6 133

COUNTY NAME PERMIT

WR-35

21 - Aug - 97
API # 47 - 17 - 04387

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

Well Operator's Report of Well Work

Farm name: PRIMM, OLIN

Operator Well No. : LEGGETT #6

LOCATION: Elevation: 1,108.00

Quadrangle: OXFORD

District: CENTRAL

County: DODDRIDGE

Latitude: 1130 Feet South of 39 Deg. 15 Min. 0 Sec.

Longitude: 6260 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
Permit Issued: 08/29/97
Well Work Commenced: 09/23/97
Well Work Completed: 10/07/97
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5492'
Fresh water depths (ft) 109'
Salt water depths (ft) 1680'

| Casing & Tubing Size | Used in Drilling | Left In Well | Cement Fill Up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 11 3/4" | 122.05' | 122.05' | 70 sks To Surface |
| 8 5/8" | 2120.70' | 2120.70' | 625 sks To Surface |
| 4 1/2" | 5418' | 5418' | 360 sks |
| 2 3/8" | | 5272' | |

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

OPEN FLOW DATA

| | |
|--|--|
| Balltown | 3866' - 4580' |
| Rileys | 4590' - 5000' |
| Benson | 5030' - 5040' |
| Producing formation <u>Alexander</u> | Pay zone depth (ft) <u>5276' - 5364'</u> |
| Gas: Initial open flow <u>Show</u> MCF / d | Oil: Initial open flow <u>0</u> Bbl / d |
| Final open flow <u>1,540</u> MCF / d | Oil: Final open flow <u>show</u> Bbl / d |
| Time of open flow between initial and final tests <u>N/A</u> Hours | |
| Static rock pressure <u>1675</u> psig (surface pressure) after <u>96</u> Hours | |

| | |
|--|--------------------------------------|
| Second producing formation <u>Commingled</u> | 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: March 26, 1998

DODD 4387

Leggett #6 (47-017-04387)
Four Stage Foam Frac - Halliburton

| | | |
|------------------------|---|--|
| 1 st Stage: | Alexander (14 holes) (5292' to 5352.25') | 60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 813 bbls foam. |
| 2 nd Stage: | Benson (7 holes) (5033.25' to 5034.75') Third Riley (5 holes) (4970' to 4971') | 60 Quality Foam. 750 gal. 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 618 bbls foam. |
| 3 rd Stage: | Riley (8 holes) (4635.75' to 4655.25') Balltown (4 holes) (4537.50' to 4538.25') | 60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 745 bbls foam. |
| 4 th Stage: | Balltown (14 holes) (4023.75' to 4103.25') | 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 | 14 | 210 | Hole damp @ 109' |
| Red Rock & Sand & Shale | 210 | 280 | |
| Sand | 280 | 340 | |
| Sand & Shale & Red Rock | 340 | 795 | |
| Sand & Shale | 795 | 1836 | ½" H ₂ O @ 1680' |
| Sand & Shale & Red Rock | 1836 | 1923 | |
| Shale | 1923 | 1971 | |
| Sand | 1971 | 2061 | |
| Little Lime | 2061 | 2088 | |
| Shale & Sand | 2088 | 2100 | |
| Big Lime | 2100 | 2160 | |
| Big Injun | 2160 | 2239 | |
| Shale | 2239 | 2390 | GAS CHECKS |
| Weir | 2390 | 2516 | 1790' - Show Oil |
| Shale | 2516 | 2581 | 2505' - No Show |
| Berea | 2581 | 2586 | 3003' - Slight Show |
| Sand & Shale | 2586 | 3465 | 3718' - Show |
| Warren | 3465 | 3514 | 4529' - Show |
| Shale | 3514 | 3528 | TD - Show |
| Speechley | 3528 | 3641 | Collars - Show |
| Shale & Sand | 3641 | 3866 | |
| Balltown | 3866 | 4580 | |
| Shale | 4580 | 4590 | |
| Riley | 4590 | 4670 | |
| Sand & Shale | 4670 | 4902 | |
| Third Riley | 4902 | 5000 | |
| Shale | 5000 | 5030 | |
| Benson | 5030 | 5040 | |
| Sand & Shale | 5040 | 5228 | |
| Upper Elk | 5228 | 5240 | |
| Shale | 5240 | 5276 | |
| Alexander | 5276 | 5364 | |
| Shale | 5364 | 5492 | |
| T.D. | 5492 | | |

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

- 1) Well Operator: KEY OIL COMPANY ²⁵⁶⁵⁵ ① ⁵²⁶
- 2) Operator's Well Number: LEGGETT #6 3) Elevation: 1108'
- 24172 Well type: (a) Oil X / or Gas X /
- (b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- 7) Approximate fresh water strata depths: 90'
- 8) Approximate salt water depths: 1790'
- 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)

Issued 08/29/97
Expires 08/29/99

PA
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | FOOTAGE INTERVALS | | CEMENT | |
|--------------|----------------|-------|-------------------|--------------|--------|---------------------|
| | Size | Grade | Weight per ft. | For drilling | | Left in well |
| Conductor | | | | | | 3905R/41.3 |
| Fresh Water | 11 3/4 | ERW | 42 | 132 | 132 | 70 SKS. TO SURFACE |
| Coal | | | | | | 3005R/41.22 |
| Intermediate | 8 5/8 | ERW | 23 | 2090 | 2090 | 610 SKS. TO SURFACE |
| Production | 4 1/2 | J-55 | 10.5 | | 5500 | 490 SKS. |
| Tubing | 1.5 | | | | | 3005R/41.1 |
| Liners | | | | | | |

PACKERS : Kind _____
Sizes _____
Depths set _____

60 4796
27

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)

Permitting
Office of Oil & Gas

1) Date: AUGUST 15, 1997
2) Operator's well number
LEGGETT #6
3) API Well No: 47 - 017 - 4387
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 OLIN PRIMM Name SAME
Address RT. 1 Address _____
WEST UNION, WV 26456
- (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 15TH day of AUGUST, 1997

My commission expires Karen Cook
MARCH 24, 2003

