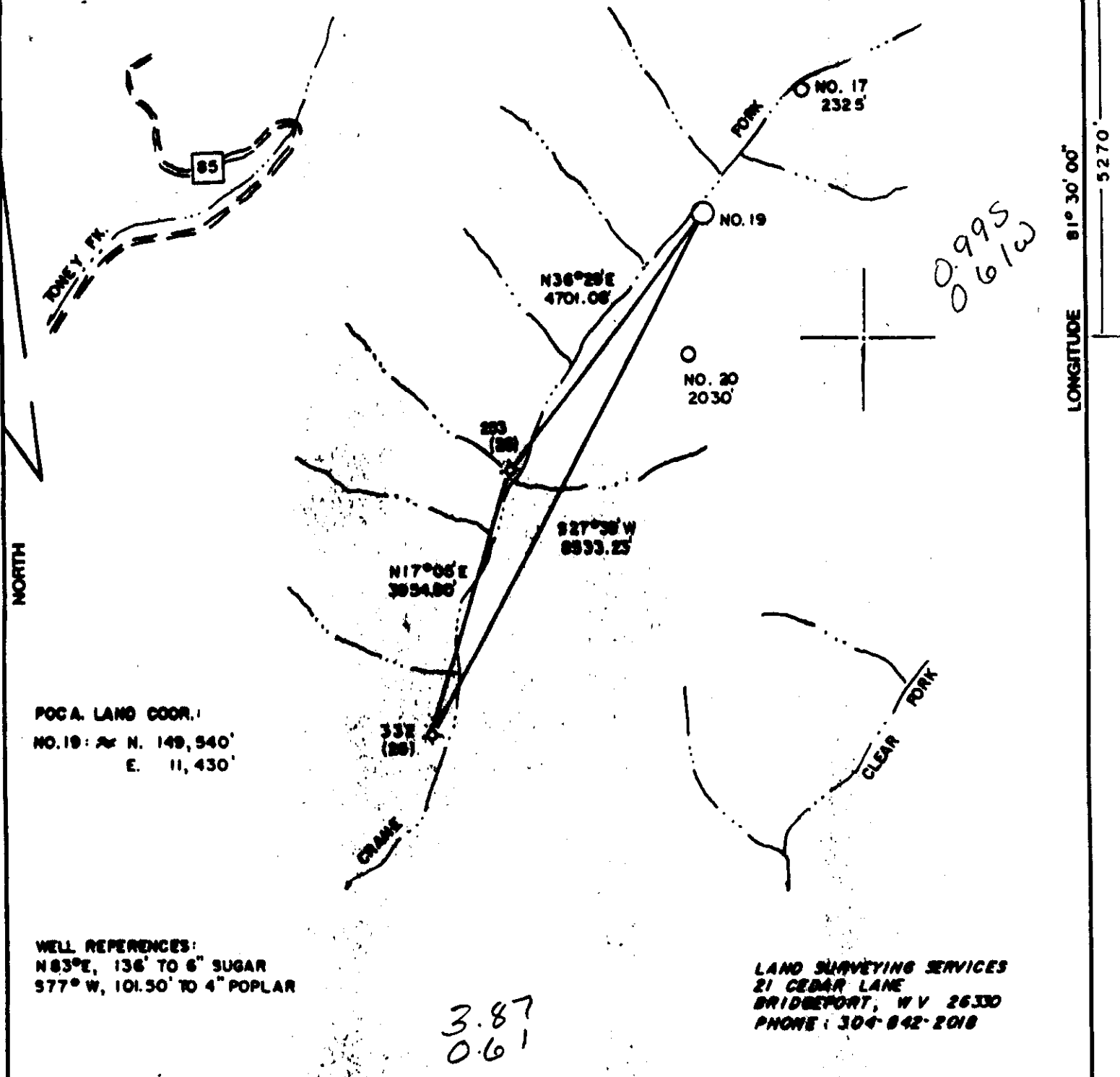


LATITUDE 37° 47' 30"

3260'

LONGITUDE 81° 00' 18" 5270'



POCA. LAND COOR.  
 NO. 19: N. 149, 940'  
 E. 11, 430'

WELL REFERENCES:  
 N 83° E, 136' TO 6" SUGAR  
 S 77° W, 101.50' TO 4" POPLAR

LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 2500  
 PROVEN SOURCE OF ELEVATION EXIST. WELL 332-P  
 ELEV. - 1724'

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.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 22, 19 94  
 OPERATOR'S WELL NO. LOUP CK. NO. 19  
 API WELL NO. 47-109-1433

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 2148' WATERSHED CRANE FORK  
 DISTRICT OCEANA COUNTY WYOMING  
 QUADRANGLE PILOT KNOB 7.5 min. Bald Knobs Sw  
 SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 23,058.53  
 OIL & GAS ROYALTY OWNER LOUP CK. COLLIERY CO. LEASE ACREAGE 34,586.60  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 JUN 3 1994

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BEREA/Gordon ESTIMATED DEPTH 4300'  
 WELL OPERATOR UMC PETROLEUM CORP. DESIGNATED AGENT GREG SHOCKLEY 6-6 248  
 ADDRESS P.O. DRAWER 1736 4587 ADDRESS P.O. DRAWER 1736  
 CLARKSBURG, WV 26302-1736 CLARKSBURG, WV 26302-1736

COUNTY NAME PERMIT

RECEIVED  
WV Division of  
Environmental Protection

SEP 11 1994

WR-35

Permitting  
Office of Oil & Gas

API # 47-109-01433

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

Well Operator's Report of Well Work

Farm Name: POCAHONTAS LAND CORP. Operator Well No. LOUP CREEK # 19

LOCATION: Elevation: 2,148.00 Quadrangle: PILOT KNOB

District: Oceana County: Wyoming  
Latitude: 5270 Feet South of 37 Deg. 47 Min. 30 Sec.  
Longitude 3260 Feet West of 81 Deg. 30 Min. 0 Sec.

Company: UMC PETROLEUM CORPORATION  
P.O. DRAWER 1738  
CLARKSBURG, WV 26301-1738

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill up Cu. Ft. |
|----------------------|------------------|--------------|------------------------|
| 16"                  | 30'              | 30'          |                        |
| 11 3/4"              | 298'             | 298'         | 177                    |
| 8 5/8"               | 1553'            | 1553'        | 476                    |
| 4 1/2"               |                  | 4186'        | 455                    |
|                      |                  |              |                        |

Agent: GREGORY A. SHOCKLEY

Inspector: OFIE A. HELMICK  
Permit Issued: 06/01/94  
Well work Commenced: 08/05/94  
Well Work Completed: 08/13/94  
Verbal Plugging

Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 4256'  
Fresh Water depths (ft) 100', 660'  
Salt water depths (ft) None  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 275'-278', 303'-307', 592'-596', 734-737'

OPEN FLOW DATA

Producing formations Little Lime } \* 2986' - 2990'  
Gordon } Pay zone depth (ft) 4114' - 4136'  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open Flow \_\_\_\_\_ Bbl/d  
Final open flow \* 420 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \* 630 psig (surface pressure) after 24 Hours  
\* Co-mingled

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: UMC Petroleum Corporation  
By: [Signature] DISTRICT MANAGER  
Date: 08/24/94

SEP 13 1994

MAY 16 94

109-1433  
Issued 06/01/94  
Page 3 of 9  
Expires 06/01/96

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

19186

Well Operator: UMC Petroleum Corporation (50410) <sup>4587</sup> (6) 547

Operator's Well Number: Loup Creek #19 3) Elevation: 2148'

Well type: (a) Oil\_\_\_/ or Gas X/  
(b) If Gas: Production X/ Underground Storage\_\_\_/  
Deep\_\_\_/ Shallow X/

- 5) Proposed Target Formation(s): Gordon 419
- 6) Proposed Total Depth: 4350' feet
- 7) Approximate fresh water strata depths: 142', 180', 251' (From 47-109-1356)
- 8) Approximate salt water depths: 1277' (From 47-109-1356)
- 9) Approximate coal seam depths: 142', 177' (From 47-109-1356)
- 10) Does land contain coal seams tributary to active mine? Yes\_\_\_/ No X/
- 11) Proposed Well Work: To drill and frac new well.
- 12)

CASING AND TUBING PROGRAM

| TYPE         | SPECIFICATIONS |       |                | FOOTAGE INTERVALS |              | CEMENT                         |
|--------------|----------------|-------|----------------|-------------------|--------------|--------------------------------|
|              | Size           | Grade | Weight per ft. | For drilling      | Left in well | Fill-up (cu. ft.)              |
| Conductor    | 16"            | N/A   | Used PE        | 40'               | 40'          | CTS By Hand                    |
| Fresh Water  | 11 3/4"        | H-40  | 42#            | 300'              | 300'         | CTS                            |
| Coal         | 8 5/8"         | J-55  | 24#            | 1550'             | 1550'        | CTS                            |
| Intermediate |                |       |                |                   |              | 30CSR18-11.3<br>30CSR19-11.2.2 |
| Production   | 4 1/2"         | J-55  | 10.5#          |                   | 4350' →      | 300                            |
| Tubing       |                |       |                |                   |              |                                |
| Liners       |                |       |                |                   |              | 30CSR18-11.1                   |

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

062933  
17

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

Environment Protection  
MAY 16 94  
Permitting  
Office of Oil & Gas

- 1) Date: May 13, 1994
- 2) Operator's well number  
Loup Creek #19
- 3) API Well No: 47 - 109 - 1433  
State - County - Permit

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

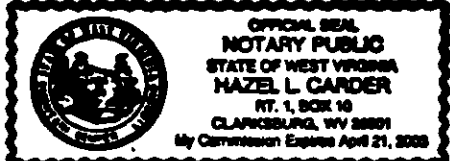
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Pocahontas Land Corporation  
Address P.O. Box 1517  
Bluefield, WV 24701
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name Eastern Associated Coal Corporation  
Address P.O. Box 1233  
Charleston, WV 25324
  - (b) Coal Owner(s) with Declaration  
Name Pocahontas Land Corporation  
Address P.O. Box 1517  
Bluefield, WV 24701
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name Eastern Associated Coal Corporation  
Address P.O. Box 1233  
Charleston, WV 25324
- 6) Inspector Ofie Helmick  
Address P.O. Box 218  
Fanrock, WV 24834  
Telephone (304)-732-9135

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 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   9   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 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 UMC Petroleum Corporation (50410)  
 By: Gregory A. Shockley  
 Its: District Manager/Designated Agent  
 Address P.O. Drawer 1738  
Clarksburg, WV 26302  
 Telephone (304) 624-9653

Subscribed and sworn before me this 13th day of May, 19 94  
Hazel L. Carder Notary Public  
 My commission expires April 21, 2003

Perforated Gordon at 4114' - 4136' with 16 shots. Broke down with 500 gals. 15% HCL. Fraced with 75 quality foam and 51,600# 20/40 sand. Break = 1700#, AIR = 30 BPM foam, ATP = 1980#, ISIP = 1750#.

Perforated Little Lime at 2986' - 2990' with 8 shots. Broke down with 500 gals. 28% HCL and acidized with 4,500 gals. 28% HCL with 400 Scf N<sub>2</sub>/Bbl. Break = 1900#, AIR = 8 BPM, ATP = 1750#, ISIP = Circulated with 38 Bbl. flush to go.

| <u>Formation</u> | <u>Color</u> | <u>Hard or Soft</u> | <u>Top</u> | <u>Bottom</u> | <u>Oil, Gas<br/>Or Water</u> | <u>Depth</u> | <u>Remarks</u> |
|------------------|--------------|---------------------|------------|---------------|------------------------------|--------------|----------------|
| Fill             |              |                     | 0          | 10            |                              |              |                |
| Sd & Sh          |              |                     | 10         | 275           | Water                        | 100'         | 1/4" stream    |
| Coal             |              |                     | 275        | 278           |                              |              |                |
| Sd & Sh          |              |                     | 278        | 303           |                              |              |                |
| Coal             |              |                     | 303        | 307           |                              |              |                |
| Sd & Sh          |              |                     | 307        | 592           |                              |              |                |
| Coal             |              |                     | 592        | 596           |                              |              |                |
| Shale            |              |                     | 596        | 600           |                              |              |                |
| Sh & Sd          |              |                     | 600        | 734           | Water                        | 660'         | 1/4" stream    |
| Coal             |              |                     | 734        | 737           |                              |              |                |
| Sd & Sh          |              |                     | 737        | 846           |                              |              |                |
| Sand             |              |                     | 846        | 955           |                              |              |                |
| Sd & Sh          |              |                     | 955        | 1185          |                              |              |                |
| Sand             |              |                     | 1185       | 1369          |                              |              |                |
| Sd & Sh          |              |                     | 1369       | 1700          |                              |              |                |
| Sand             |              |                     | 1700       | 1872          |                              |              |                |
| Red Rock         |              |                     | 1872       | 1877          |                              |              |                |
| Sd & Sh          |              |                     | 1877       | 1955          |                              |              |                |
| Princeton Sand   |              |                     | 1955       | 2000          |                              |              |                |
| Sd & Sh          |              |                     | 2000       | 2241          |                              |              |                |
| Avis Lime        |              |                     | 2241       | 2276          |                              |              |                |
| Shale            |              |                     | 2276       | 2540          |                              |              |                |
| Sd & Sh          |              |                     | 2540       | 2605          |                              |              |                |
| Shale            |              |                     | 2605       | 2926          |                              |              |                |
| Little Lime      |              |                     | 2926       | 3010          |                              |              |                |
| Shale            |              |                     | 3010       | 3072          |                              |              |                |
| Big Lime         |              |                     | 3072       | 3350          |                              |              |                |
| Lime             |              |                     | 3350       | 3420          |                              |              |                |
| Injun            |              |                     | 3420       | 3464          |                              |              |                |
| Sh & Sd          |              |                     | 3464       | 3526          |                              |              |                |
| Weir             |              |                     | 3526       | 3543          |                              |              |                |
| Shale            |              |                     | 3543       | 3950          |                              |              |                |
| Berea            |              |                     | 3950       | 3970          |                              |              |                |
| Shale            |              |                     | 3970       | 4114          |                              |              |                |
| Gordon           |              |                     | 4114       | 4136          |                              |              |                |
| Shale            |              |                     | 4136       | 4256          |                              |              | TD             |

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