

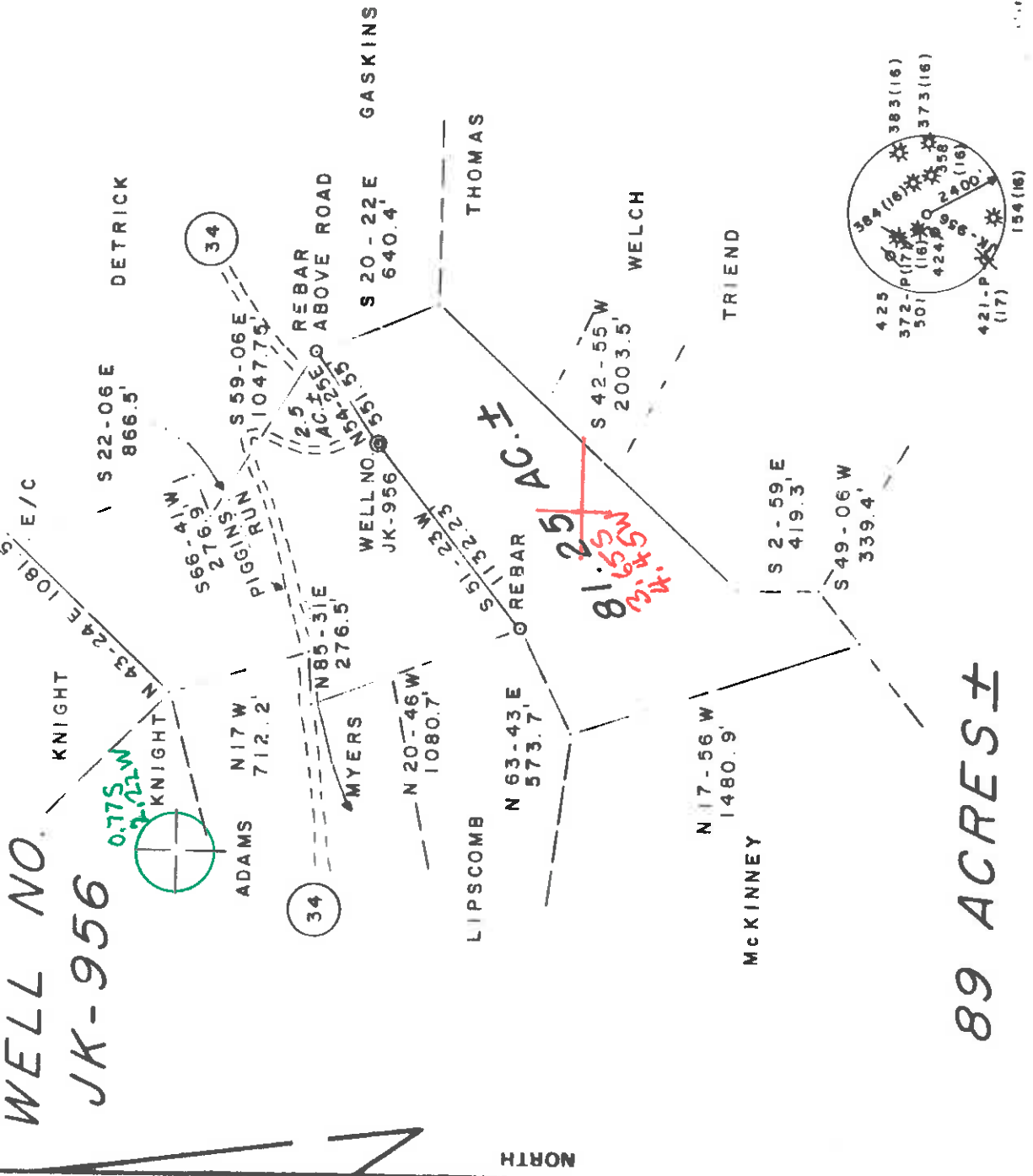
Plan View / CSD

# WILLIAMS LEASE

## WELL NO. JK-956

LATITUDE 39° 20' 00"

LONGITUDE 80° 42' 30" 60° 40'



### 89 ACRES ±

FILE NO. 13-26  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 800'  
 MINIMUM DEGREE OF \_\_\_\_\_  
 ACCURACY 1/200  
 PROVEN SOURCE OF \_\_\_\_\_  
 ELEVATION BM ELEV. 954

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)

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 MINES.  
 (SIGNED) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

PLACE SEAL HERE



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW   
 LOCATION: ELEVATION 1099' WATER SHED PIGGIN RUN  
 DISTRICT WEST UNION 8 COUNTY DODDRIDGE  
 QUADRANGLE SMITHBURGH 7.5' Centerpoint 15 SW 7  
 SURFACE OWNER MICHAEL & MARCIA LANHAM ACREAGE 81.25  
 OIL & GAS ROYALTY OWNER JOSEPH WILLIAMS, et al. LEASE ACREAGE 89

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

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5700'  
 WELL OPERATOR J & J ENTERPRISES DESIGNATED AGENT RICHARD M. REDDECLIFF  
 ADDRESS P.O. BOX 48 427 ADDRESS P.O. BOX 48  
 BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

DATE APRIL 5 1984  
 OPERATOR'S WELL NO. JK - 956  
 API WELL NO. 47 - 0171 - 3317  
 STATE COUNTY PERMIT

6-6 Smithton-Feit-Sadalea (99)

MAY 7 1984



**RECEIVED**  
AUG 24 1984

Date August 6, 1984  
Operator's Well No. WK-436 JK-956  
Farm Lanham  
API No. 47 - 017 - 3317

State of West Virginia  
Department of Mines  
Oil and Gas Division  
DEPT. OF MINES

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /  
(If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1099 Watershed Piggin Run  
District: West Union County Doddridge Quadrangle Smithburg 7.5

COMPANY Kepeco, Inc.  
ADDRESS 436 Blvd. of the Allies  
Pittsburgh, PA 15219  
DESIGNATED AGENT E. L. Stuart  
ADDRESS P.O. Box 1550  
Clarksburg, WV 26301  
SURFACE OWNER Michael & Marcia Lanham  
ADDRESS Box 635  
Sugar Creek, Ohio 44681  
MINERAL RIGHTS OWNER Joseph Williams, et al  
ADDRESS 115-1/2 B. Grant St  
Clarksburg, WV 26301  
OIL AND GAS INSPECTOR FOR THIS WORK Mike  
Underwood ADDRESS Rt. 2 Box 114  
Salem, WV 26426  
PERMIT ISSUED May 4, 1984  
DRILLING COMMENCED June 18, 1984  
DRILLING COMPLETED June 24, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

| Casing<br>Tubing<br>Size | Used in<br>Drilling | Left<br>in Well | Cement<br>fill up<br>Cu. ft. |
|--------------------------|---------------------|-----------------|------------------------------|
| 20-16<br>Cond.           |                     |                 |                              |
| 13-10"                   | 35                  | 35              | 10 sks<br>Cement             |
| 9 5/8                    |                     |                 |                              |
| 8 5/8                    | 1473                | 1473            | 350 sks<br>Neat cement       |
| 7                        |                     |                 |                              |
| 5 1/2                    |                     |                 |                              |
| 4 1/2                    | 5495                | 5495            | 300 sks<br>pozmix            |
| 3                        |                     |                 |                              |
| 2                        |                     |                 |                              |
| Liners<br>used           |                     |                 |                              |

GEOLOGICAL TARGET FORMATION Alexander

Depth of completed well 5995 feet Rotary X / Cable Tools            Depth 5360 feet  
Water strata depth: Fresh            feet; Salt 1660 feet  
Coal seam depths: N/A Is coal being mined in the area? No           

OPEN FLOW DATA

Producing formation Alexander, Benson, Balltown Pay zone depth 5360'; 5065'; feet  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d  
Final open flow 250 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 8 hours  
Static rock pressure 1450 psig (surface measurement) after 48 hours shut in  
(If applicable due to multiple completion--)

Second producing formation

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 measurement) after            hours shut in

(Continue on reverse side)  
09 1984

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

Perforated 7-2-84 Perfco Wireline  
 5360' - 5394' Avg. press 3300 psi Avg. rate 24 BPM  
 5062' - 5072' Avg. press 2550 psi Avg. rate 20 BPM  
 4620' - 4626' Avg. press 3200 psi Avg. rate 20 BPM

Fractured 7-2-84 Halliburton Services Water frac with Nitrogen assist

1st stage 35000 lbs. 20/40 sand  
 2nd stage 30000 lbs. 20/40 sand  
 3rd stage 19000 lbs. 20/40 sand

WELL LOG

| FORMATION        | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS |
|------------------|-------|--------------|----------|-------------|---------|
| Fill             |       |              | 0        | 5           |         |
| Red Rock         |       |              | 5        | 20          |         |
| Sand             |       |              | 20       | 110         |         |
| Sand and shale   |       |              | 110      | 140         |         |
| Red Rock & shale |       |              | 140      | 200         |         |
| Sand & shale     |       |              | 200      | 210         |         |
| Sand             |       |              | 210      | 275         |         |
| Red Rock & shale |       |              | 275      | 330         |         |
| Sand             |       |              | 330      | 355         |         |
| Sand & shale     |       |              | 355      | 375         |         |
| Red Rock & shale |       |              | 375      | 395         |         |
| Sand & shale     |       |              | 395      | 440         |         |
| Red Rock & shale |       |              | 440      | 690         |         |
| Sand             |       |              | 690      | 715         |         |
| Red rock         |       |              | 715      | 750         |         |
| Sand             |       |              | 750      | 780         |         |
| Red Rock & shale |       |              | 780      | 810         |         |
| Sand             |       |              | 810      | 840         |         |
| Red Rock & shale |       |              | 840      | 1240        |         |
| Sand             |       |              | 1240     | 1250        |         |
| Red Rock & shale |       |              | 1250     | 1310        |         |
| Sand & shale     |       |              | 1310     | 1355        |         |
| Sand             |       |              | 1355     | 1990        |         |
| Sand & shale     |       |              | 1990     | 2053        |         |
| Big Lime         |       |              | 2053     | 2161        |         |
| Big Injun        |       |              | 2161     | 2334        |         |
| Shale            |       |              | 2334     | 2416        |         |
| Weir             |       |              | 2416     | 2769        |         |
| Sand & shale     |       |              | 2769     | 2788        |         |
| Bayard           |       |              | 2788     | 3546        |         |
| Shale            |       |              | 3546     | 3554        |         |
| Speechley        |       |              | 3554     | 4620        |         |
| Shale            |       |              | 4620     | 4626        |         |
| Balltown         |       |              | 4626     | 5066        |         |
| Shale            |       |              | 5066     | 5075        |         |
| Benson           |       |              | 5075     | 5360        |         |
| Shale            |       |              | 5360     | 5406        |         |
| Alexander        |       |              | 5406     | 5961        |         |
| Shale            |       |              | 5961     |             |         |
| TD               |       |              |          |             |         |

(Attach separate sheets as necessary)

Damp at 1660'  
From Electric Log

Kepeco, Inc.  
 Well Operator  
 By: [Signature] Operations Manager  
 Date: August 6, 1984

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic  
 detailed geological record of all formations, including  
 strata, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OIL AND GAS DIVISION  
 APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Shallow  Deep   
 Elevation: 1099' Watershed: PIGGIN RUN  
 District: WEST UNION County: DODDRIDGE Quadrangle: SMITHBURG 7.5'  
 6) WELL OPERATOR J & J ENTERPRISES, INC. 7) DESIGNATED AGENT RICHARD M. REDDECLIFF  
 Address P.O. BOX 48 Address P.O. BOX 48  
BUCKHANNON, WV 26201 Address BUCKHANNON, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name STEPHEN CASEY 9) DRILLING CONTRACTOR:  
 Address RT. 2 - BOX 232 - D Name S.W. JACK DRILLING CO.  
JANE LEW, WV 26378 Address P.O. BOX 48  
BUCKHANNON, WV 26201

RECEIVED  
 APR 12 1984  
 OIL & GAS DIVISION  
 DEPT. OF MINES

10) PROPOSED WELL WORK: Drill  deeper  Plug off old formation  Redrill  Stimulate   
 Other physical change in well (specify) ALEXANDER Perforate new formation   
 11) GEOLOGICAL TARGET FORMATION, ALEXANDER  
 12) Estimated depth of completed well, 5700' feet  
 13) Approximate trata depths: Fresh, 110' feet; salt, 0 feet.  
 14) Approximate coal seam depths: 400' Is coal being mined in the area? Yes  No

15) CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS |       |                | FOOTAGE INTERVALS |      | CEMENT FILL-UP OR SACKS (Cubic feet) | Kinds |              |
|-----------------------|----------------|-------|----------------|-------------------|------|--------------------------------------|-------|--------------|
|                       | Size           | Grade | Weight per ft. | New               | Used |                                      |       | Left in well |
| Conductor             | 11 3/4         | E-40  | 42             | X                 |      | 30                                   | 0     | 0 SKS.       |
| Fresh water           | 8 5/8          | ERW   | 23             | X                 |      | 1200                                 | 1200  | To surface   |
| Coal                  | 8 5/8          | ERW   | 23             | X                 |      | 1200                                 | 1200  | To surface   |
| Intermediate          | 4 1/2          | J-55  | 10.5           | X                 |      | 5650                                 | 5650  | 450 SKS.     |
| Production            |                |       |                |                   |      |                                      |       |              |
| Tubing                |                |       |                |                   |      |                                      |       |              |
| Liners                |                |       |                |                   |      |                                      |       |              |

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3317 Date May 4, 1984

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)  
 The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires May 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

|       |           |           |            |             |
|-------|-----------|-----------|------------|-------------|
| Bond: | Agent:    | Plat:     | Casing     | Fee         |
|       | <u>JA</u> | <u>TS</u> | <u>T.S</u> | <u>1531</u> |

*[Signature]*  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.  
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

