



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
947

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) Paul H. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE OCTOBER 2, 19 84
 OPERATOR'S WELL NO. CUNNINGHAM #7
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 891 WATERSHED MCKIM CREEK
 DISTRICT LAFAYETTE 3 COUNTY PLEASANTS
 QUADRANGLE BENS-RUN 7.5' 241 St. Marys 116 EC 6

SURFACE OWNER CLAYTON CUNNINGHAM ACREAGE 105 ACRES
 OIL & GAS ROYALTY OWNER CLAYTON CUNNINGHAM LEASE ACREAGE 105 ACRES
 LEASE NO. _____

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 SQUAW ESTIMATED DEPTH 2200'
 WELL OPERATOR HAUGHT, INC. DESIGNATED AGENT WARREN HAUGHT
 ADDRESS 4424 EMERSON AVENUE ADDRESS ROUTE 3, BOX 14
368 PARKERSBURG, WV 26101 SMITHVILLE, WV 26178

FORM IV-6 (8-78)
 HT HALL

COUNTY NAME
 PERMIT



Date 01-20-86
Operator's
Well No. Cunningham #7
Farm Clayton Cunningham
API No. 47 - 073 - 1889

JAN 23 1986 **State of West Virginia**
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 891 Watershed McKim Creek
District: Lafayette County Pleasants Quadrangle Bens Run 7.5

COMPANY Haught, inc.
ADDRESS 4424 Emerson ave, Parkersburg, WV 26101
DESIGNATED AGENT Warren R. Haught
ADDRESS Rt.3, Box 14, Smithville, WV 26178
SURFACE OWNER Clayton Cunningham
ADDRESS Rt. 1, Hebron, WV
MINERAL RIGHTS OWNER Same
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther ADDRESS Gen. Del. Middlebourne, WV
PERMIT ISSUED October 25, 1984
DRILLING COMMENCED December 13, 1984
DRILLING COMPLETED December 15, 1984
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

| Casing & Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------------|---------------------|-----------------|------------------------------|
| Size 20-16 Cond. | | | |
| 13-10" | | | |
| 9 5/8 | | | |
| 8 5/8 | 848.35 | 848.35 | 162 sks. |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | | |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Squaw Depth 2200 feet
Depth of completed well 1025 feet Rotary X / Cable Tools
Water strata depth: Fresh 30 feet; Salt N/A feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Cow Run Pay zone depth 904 feet
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow 1 Bbl/d
Final open flow N/A Mcf/d Final open flow (1) Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 26 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
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

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

No physical changes

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|------------------------------------|-------|--------------|----------|-------------|--|
| R.R., red, soft | | | 0 | 26 | Fresh water 30' |
| Slate, gray, soft | | | 26 | 93 | |
| R.R., red, soft | | | 93 | 100 | |
| Slate, gray, soft | | | 100 | 128 | |
| R.R., red, soft | | | 128 | 136 | |
| Slate, gray, soft | | | 136 | 150 | |
| Sand, gray, med. | | | 150 | 175 | |
| R.R., red, soft | | | 175 | 180 | |
| Slate, gray, soft | | | 180 | 215 | |
| R.R., Slate, red, gray, med. | | | 215 | 222 | |
| Sand, gray, hard | | | 222 | 260 | |
| R.R., red, soft | | | 260 | 279 | |
| Lime Sand, gray, hard | | | 279 | 301 | |
| R.R., red, soft | | | 301 | 310 | |
| Slate, gray, med. | | | 310 | 334 | |
| Sand, gray hard | | | 334 | 342 | |
| Slate, gray, soft | | | 342 | 375 | |
| R.R., red, soft | | | 375 | 380 | |
| Slate, gray, med. | | | 380 | 433 | |
| Sand, gray, med. | | | 433 | 439 | |
| R.R., red, soft | | | 439 | 445 | |
| Slate, gray, soft | | | 445 | 471 | |
| Sand, gray, med. | | | 471 | 486 | |
| Slate, R.R., gray, red, soft | | | 486 | 502 | |
| Slate, sand, gray, med. | | | 502 | 529 | |
| Slate, gray, soft | | | 529 | 539 | |
| Sand, gray, med. | | | 539 | 549 | |
| Slate, gray, soft | | | 549 | 555 | |
| Lime, gray, hard | | | 555 | 572 | |
| Slate, gray, soft | | | 572 | 580 | |
| Sand, gray, med. | | | 580 | 609 | |
| Slate, gray, soft | | | 609 | 654 | |
| Lime, gray, hard | | | 654 | 661 | |
| Sand, P.R., gray, pink, soft, emd. | | | 661 | 680 | |
| Slate, gray, soft | | | 680 | 692 | |
| Sand, gray, med. | | | 692 | 703 | |
| R.R., red, soft | | | 703 | 709 | |
| Sand, gray, med. | | | 709 | 727 | |

(Attach separate sheets as necessary)

Dominic Petroleum, Inc.

Well Operator

By:

[Signature]

Date:

01-20-86

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 those encountered in the drilling of a well."

073 1889, Pg. 2

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS |
|-------------------|-------|--------------|----------|-------------|---------|
| Slate, gray, soft | | | 727 | 760 | |
| Sand, gray, hard | | | 760 | 766 | |
| Slate, gray soft | | | 766 | 792 | |
| Sand, gray, hard | | | 792 | 815 | |
| Slate, gray, soft | | | 815 | 863 | |
| Sand, gray, med. | | | 863 | 904 | Oil |
| Cow Run Sands | | | 904 | 910 | |
| Slate, gray, soft | | | 910 | 978 | |
| Sand, gray, hard | | | 978 | <u>1025</u> | |

TD.

JAN 27 1966



1) Date: October 16, 19 84
 2) Operator's Well No. Cunningham #7
 3) API Well No. 47 - 073 - 1889
 State County Permit

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 _____ / Deep _____ / Shallow)
 5) LOCATION: Elevation: 891 Watershed: McKim Creek OM: 4
 District: LaFayette County: Pleasants Quadrangle: Bens Run 7.5
 6) WELL OPERATOR Haught, Inc. 7) DESIGNATED AGENT Warren R. Haught
 Address 4424 Emerson Ave. Address Rt 3 Box 14
Parkersburg, WV ~~XXXXX~~ Smithville, WV 26178
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 26104 9) DRILLING CONTRACTOR:
 Name ~~XXXXX~~ Robert Lowther Name Haught, Inc.
 Address General ~~XXXXX~~ Delivery Address 4424 Emerson Ave.
Middlebourne, WV 26149 Parkersburg, WV 26104
 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Squaw
 12) Estimated depth of completed well, 2200 feet
 13) Approximate trata depths: Fresh, N/A feet; salt, N/A feet.
 14) Approximate coal seam depths: N/A 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) | PACKERS |
|-----------------------|----------------|-------|----------------|-----|------|-------------------|--------------|--------------------------------------|-----------------------------|
| | Size | Grade | Weight per ft. | New | Used | For drilling | Left in well | | |
| Conductor | | | | | | | | | Kinds |
| Fresh water | 8 5/8 | K-55 | 20# | XX | | 900 | 900 | to surface | NEAT |
| Coal | | | | | | | | | Sizes |
| Intermediate | | | | | | | | | |
| Production | 4 1/2 | J-55 | 10 1/2 # | XX | | 2200 | 2200 | 500' fill up | 10' mths set |
| Tubing | | | | | | | | | |
| Liners | | | | | | | | | Perforations: Top Bottom |

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-1889 Date October 25, 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 October 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

| | | | | |
|-----------------|------------------|-----------------|-------------------|-----------------|
| Bond: <u>74</u> | Agent: <u>MH</u> | Plat: <u>MU</u> | Casing: <u>MH</u> | Fee: <u>628</u> |
|-----------------|------------------|-----------------|-------------------|-----------------|

Margaret J. Hass
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.