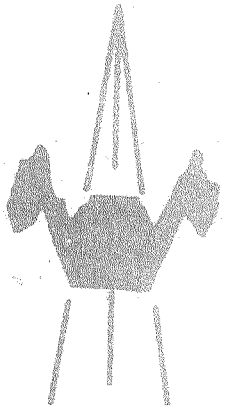
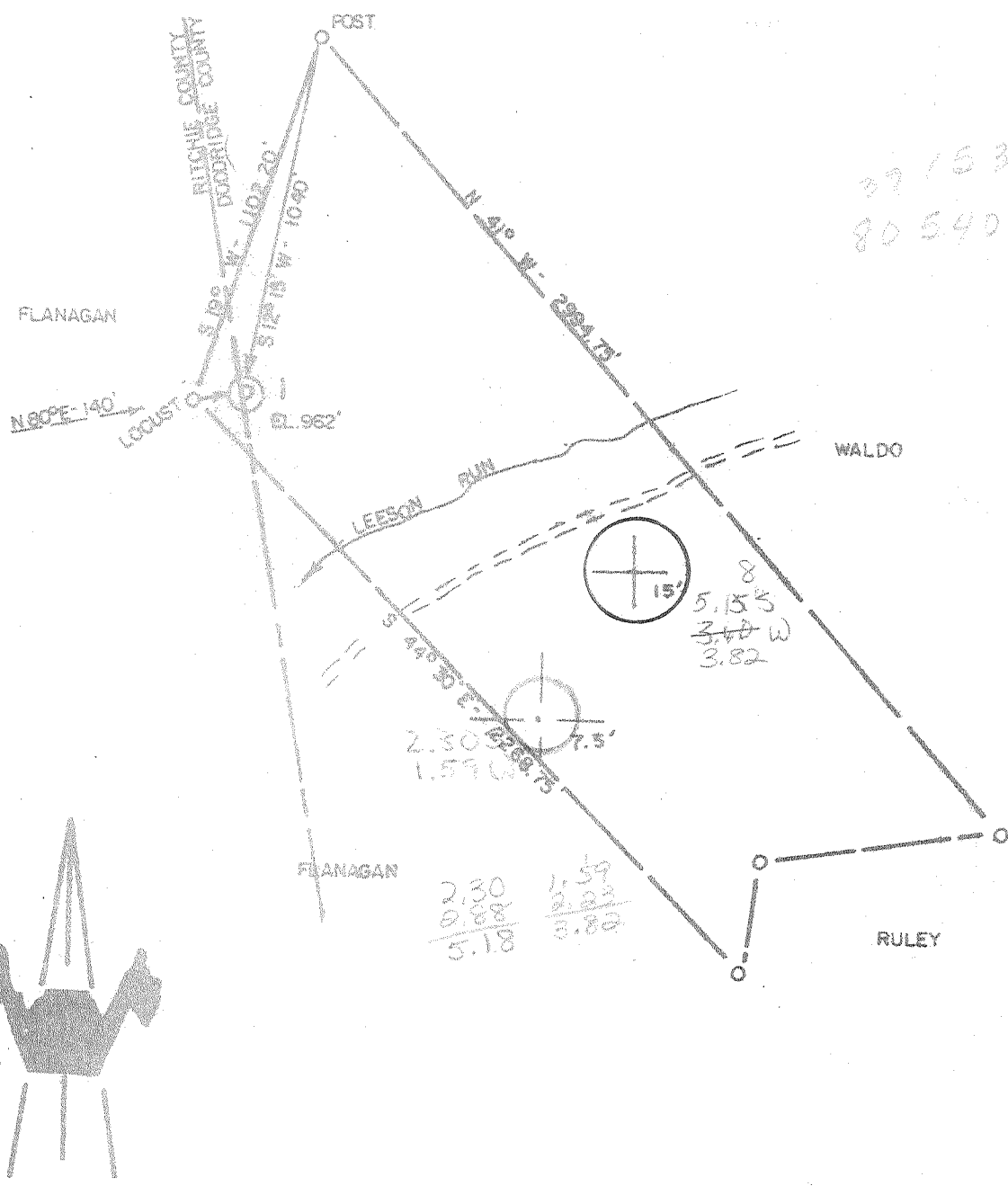


Latitude (15') 39° 17' 30"
 39° 20' 30"
 12150' SOUTH
 8400' WEST



ACCURACY: 1"/200'
 New Location
 Drill Deeper
 Abandonment
 Fracture
 Redrill
 Other

Formation BEREA ?
 Est. Depth 3000'
 Oil
 Gas
 Other

Source of Elevation U.S.B.M. ON R.R. TRACKS (804')
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Chet Waterman

Company MAGNUM OIL CORP
 Address PARKERSBURG, WV
 Surface Owner ALLEN ROWAN
 Mineral Owner C.H. CALDWELL, HEIRS
 Well No. 1 Acres 55.50'
 Elevation 962' West Union 15 SC
 Quadrangle PENNSBORO Series 7.5'
 County DODDERIDGE District CENTRAL
 Date 3/5/80 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
47 - 017 - 2619
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788 File No. 80-131

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

Date April 8, 19 80

FORM IV-35
(Reverse)

Operator's
Well No. Caldwell #1
API Well No. 47 - 017 - 2612
State County Permit

[06-78]

WELL OPERATOR'S REPORT of
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 ___)
LOCATION: Elevation: 962 Watershed: Gum Run
District: Central County: Doddridge Quadrangle: West Union 7 1/2

WELL OPERATOR Magnum Oil Corporation DESIGNATED AGENT Magnum Oil Corporation
Address Box 4295 Address Box 4295
Parkersburg, WV 26101 Parkersburg, WV 26101

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) _____

PERMIT ISSUED ON March 7, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____
Address 321 Beech Street
Clarksburg, WV

GEOLOGICAL TARGET FORMATION: Injun & Weir Depth 2400 feet
Depth of completed well, 2367 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 80 feet; salt, N/A feet.
Coal seam depths: N/A Is coal being mined in the area? No
Work was commenced March 17, 19 80, and completed March 21, 19 80

LOGGING AND TUBING PROGRAM

| LOGGING OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR CACKS (Cubic feet) | PACKERS | |
|------------------------|----------------|------------|---------------|----------|-------------------|--------------|--------------------------------------|----------------|-------------------------|
| | Size | Grade | Weight per ft | New | Used | For drilling | | | Left in well |
| conductor | | | | | | | | Kinds | |
| fresh water | <u>3 5/8</u> | <u>CW</u> | <u>22</u> | <u>X</u> | | <u>268</u> | <u>268</u> | <u>80 sks</u> | <u>Circ.</u> |
| intermediate | | | | | | | | Sizes | |
| production | <u>1 1/2</u> | <u>CW</u> | <u>10.5</u> | <u>X</u> | | | <u>2339</u> | <u>175 sks</u> | Depths set |
| stringers | <u>1 1/2</u> | <u>sml</u> | <u>3.5</u> | <u>X</u> | | | <u>2150</u> | | Perforations: |
| | | | | | | | | | Top Bottom |
| | | | | | | | | | <u>1913</u> <u>2258</u> |

APR 10 1980

OPEN FLOW DATA OIL & GAS DIVISION
DEPT. OF MINES
Producing formation Weir Pay zone depth 2164-2258 feet
Gas: Initial open flow, 200 Mcf/d, Oil: Initial open flow, 3 Bbl/d
550MCF Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours

Static rock pressure, 575 psig (surface measurement) after 24 hours shut in
[If applicable due to multiple completion--]
Second producing formation Injun Pay zone depth 1913-1957
Gas: Initial open flow, 350 Mcf/d, Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 575 psig (surface measurement) after 24 hours shut in

MAY 15 1980

[08-78]

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

Weir - Fraced with 23,000# Sand - 500 gal.
Acid and 198,000 SCF N²

Perforations:
0.39 Glass
2230-36 6 holes
2248-52 5 holes
2305-09 3 holes
2312-16 3 holes
2329-34 5 holes

Injun - Fraced with 23,000# Sand 500 gal.
Acid and 198,000 SCF N²

Perforation:
0.39 Glass
2010-14 5 holes
2024-28 5 holes
2038-32 5 holes
2045-49 5 holes

WELL LOG

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Including indications of air, free and salt water, etc., in and on |
|------------------|-------|--------------|----------|-------------|--|
| Sand & Soil | brown | soft | 0 | 10 | |
| Sand & Shale | brown | soft | 10 | 328 | |
| Sand Horseneck | white | soft | 328 | 370 | |
| Shale | black | soft | 370 | 1071 | |
| Sand-2nd Cow Run | white | hard | 1071 | 1112 | |
| Sand & Sand | brown | soft | 1112 | 1750 | |
| Sand Maxon | white | hard | 1750 | 1773 | |
| Shale | black | soft | 1773 | 1820 | |
| Lime -Big Lime | white | hard | 1820 | 1866 | |
| Sand Big Injun | white | med. | 1866 | 1962 | |
| Shale | black | soft | 1962 | 2160 | |
| Sand weir | black | soft | 2160 | 2282 | |
| Shale | black | soft | 2282 | 2334 | |
| Sand - Berea | white | hard | 2334 | 2338 | |
| Shale | black | soft | 2338 | 2367 | |
| TD | | | | 2367 | |

(Attach separate sheets to complete as necessary)

Magnum Oil Corporation
Well Operator
By John Cushing
Its Agent

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 coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR - 7 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE March 6, 1980

Surface Owner Allan & Barbara Rowan
Address West Berlin, NY
Mineral Owner Mabel M. Caldwell
Address Marietta, Ohio
Coal Owner N/A
Address N/A
Coal Operator N/A
Address N/A

Company Magnum Oil Corporation
Address Parkersburg, West Virginia
Farm Caldwell Acres 55 1/2
Location (waters) Gum Run
Well No. 1 Elevation 962
District Central County Doddridge
Quadrangle West Union 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 11-12-80

Deputy Director - Oil & Gas Division

INSPECTOR

TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, WV

PHONE 622-3871

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated June 11 1979 by Mabel M. Caldwell made to Petroleum Services, Inc and recorded on the 17 day of July 1979, in Doddridge County, Book 109 Page 292

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, Magnum Oil Corporation

(Sign Name) John Cushing

Well Operator

Box 4295

Street

Address
of
Well Operator

Parkersburg

City or Town

West Virginia

State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOARD

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Gene Stalnaker, Inc. NAME Magnum Oil Corporation
 ADDRESS Box 9, Letter Gap, WV ADDRESS Box 4295, Parkersburg, WV
 TELEPHONE 462-7092 TELEPHONE 485-1730
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. X STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

| CASING AND TUBING SIZE | USED FOR DRILLING | LEFT IN WELL | CEMENT PILL UP OR SACKS - CUBIC FT. |
|------------------------|-------------------|--------------|-------------------------------------|
| 20 - 16 | | | |
| 13 - 10 | | | |
| 9 - 5/8 | | | |
| 8 - 5/8 | 240 | 240 | Circ. |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | 3000 | 125 sks. |
| 3 | | | Perf. Top |
| 2 | | | Perf. Bottom |
| Liners | | | Perf. Top |
| | | | Perf. Bottom |

APPROXIMATE FRESH WATER DEPTHS 80 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title