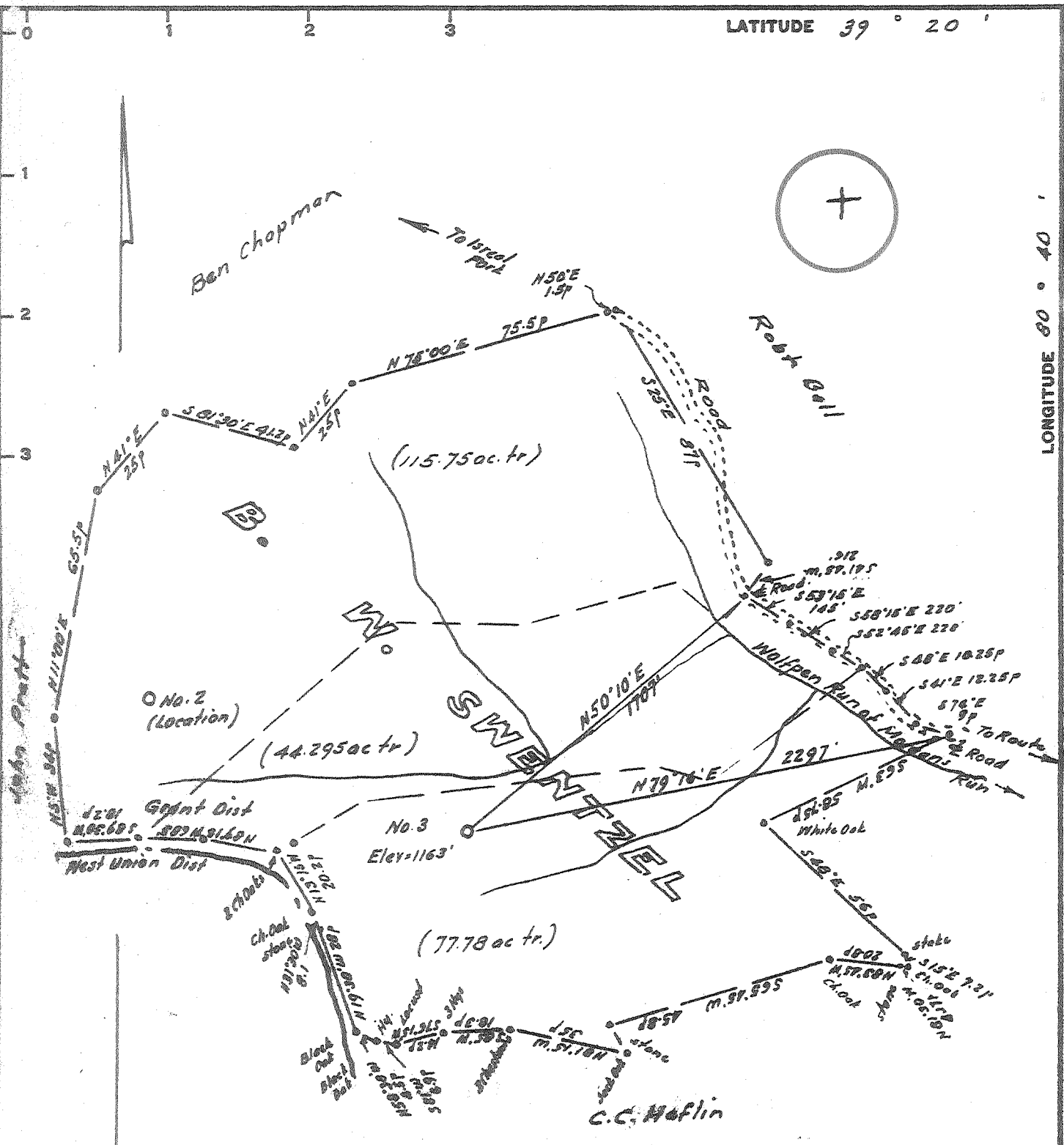


LATITUDE 39° 20'

LONGITUDE 80° 40'



Minimum Error of Closure 1 in 200'

Source of Elevation Well No. 1 - (Permit 000-232) - 1125

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.

Fracture
 New Location
 Drift Deeper 5/17/79
 Abandonment 11/5/79

Signed: M. S. Swentzel
 Map No. _____ Squares: N S E W

Company MAGNUM OIL CORP
 Address PO. Box 601, PARKERSBURG WV 26101
 Farm B.W. Swentzel, Kipling Swentzel
 Tract _____ Acres 237.825 Lease No. _____
 Well (Farm) No. Three Serial No. _____
 Elevation (Spirit Level) 1163'
 Quadrangle Centerpoint SW
 County Doddridge District Great
 Engineer M. S. Swentzel
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Feb. 21, 1970 Scale 1" = 400' = 660'

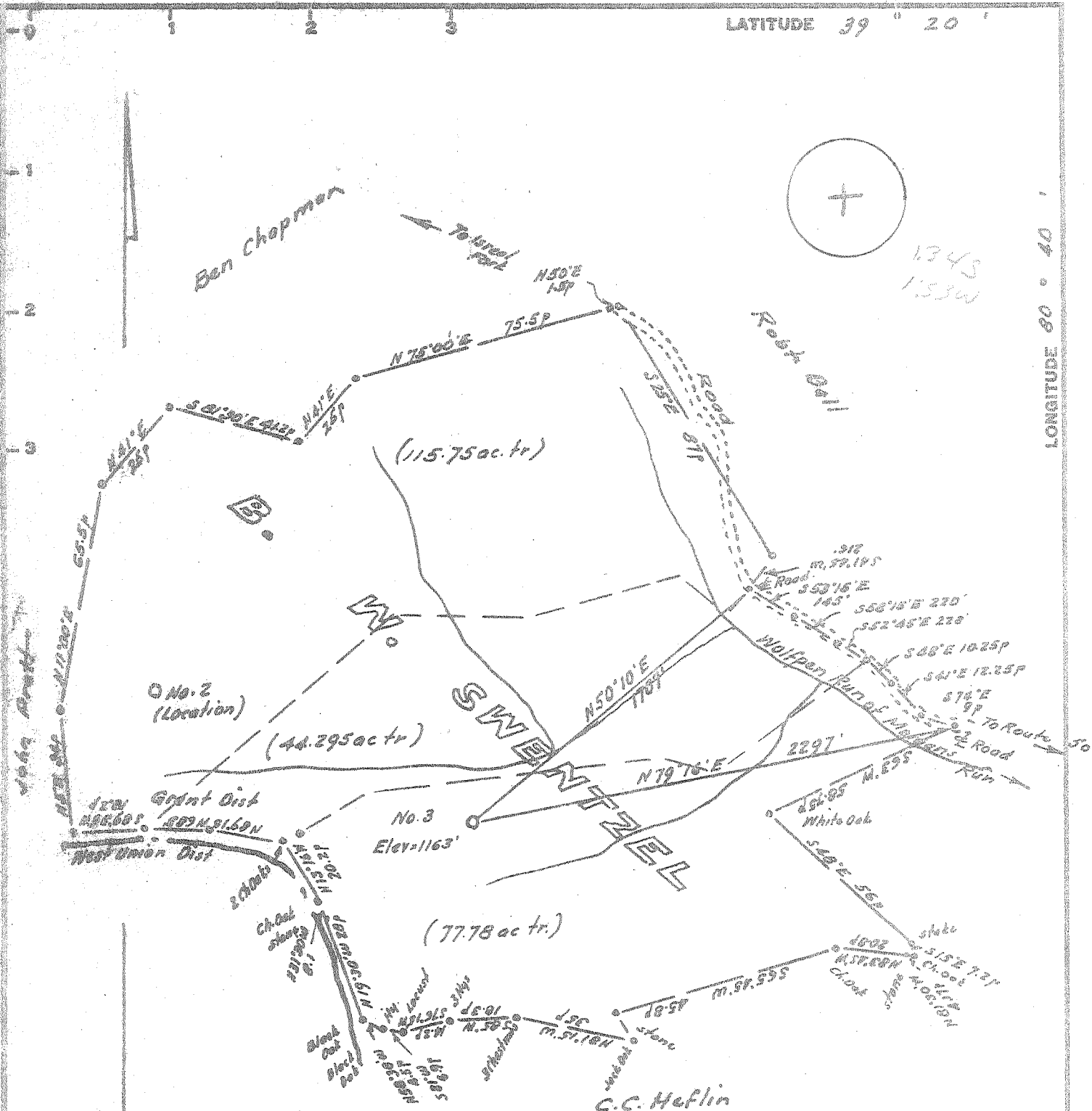
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. **47-017-1583-DD-P**

† Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

NOV 26 1979

- Denotes one inch spaces on border line of original tracing.



Minimum Error of Closure 1 in 200'

Source of Elevation Well No. 1 - (Permit ODD-732) = 1125'

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.

Fracture
 New Location
 Drill Deeper 5/17/79
 Abandonment

Signed: W. S. Hefflin
 Squares: N S E W

Map No.

Company MAGNUM OIL CORP
 Address P.O. Box 694, Parkersburg WV 26101
 Farm B. W. Swentzel, Kipling Swentzel
 Tract _____ Acres 237.875 Lease No. _____
 Well (Farm) No. Three Serial No. _____
 Elevation (Spirit Level) 1163'
 Quadrangle Centerpoint B SW
 County Doddridge District Grant
 Engineer W. S. Hefflin
 Engineer's Registration No. 1727
 File No. _____ Drawing No. _____
 Date Feb. 24, 1970 Scale 1" = 400' = 660'

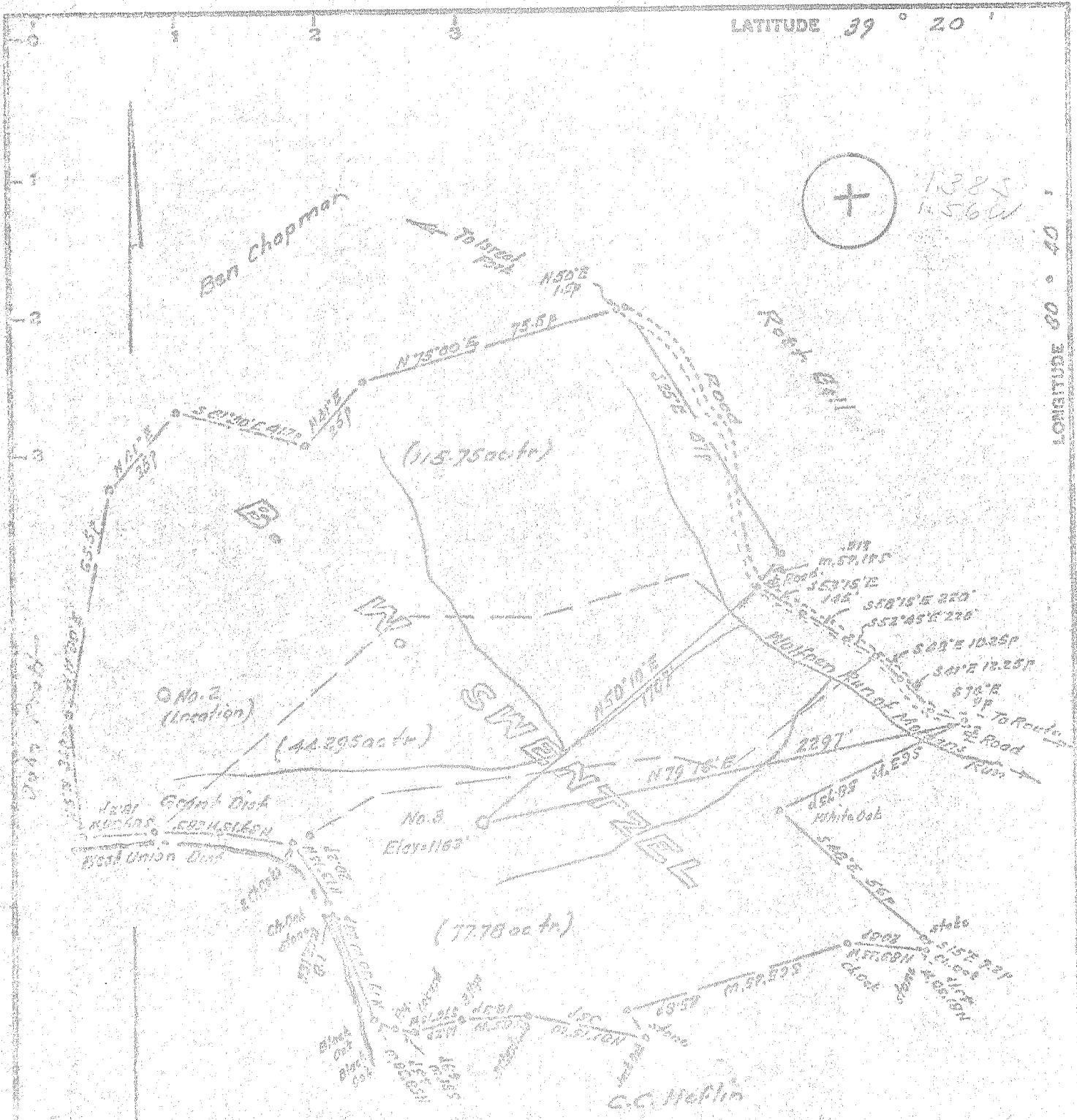
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. 47-017-1583-DD

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

MAY 28 1979



Minimum Error of Closure 1 in 200
 Section of Elevation (Well No. - Permit 000-232) = 1125

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.

- Fracture
- New Location
- Drill Deeper
- Abandonment

Map No. _____
 Signature: [Handwritten Signature]
 Sources: N S E W

Company Tom A. Brady, et
 Address Buckhannon, West Va.
 Farm B.W. Sventzel
 Tract _____ Acres 227.025 Lease No. _____
 Well (Farm) No. Three Serial No. _____
 Elevation (Spirit Level) 1163'
 Quadrangle Centerpoint SW
 County Doddridge District Grant
 Township Madison
 Engineer's Registration No. 11777
 File No. _____ Drawing No. _____
 Date Feb 21 1970 Scale 1" = 400' 600'

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

WELL LOCATION MAP
 FILE NO. 000-1503

✦ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



A. Allen

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle Centerpoint

Permit No. 1583-D

47-017-1583-D *P*

Rotary _____ Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ DRY
(Kind)

Company Magnum Oil Corporation
Address P. O. Box 691
Farm W. B. Swentzel Acres 77.78
Location (waters) Wolfpen Run
Well No. #3 Elev. 1163
District Grant County Doddridge
The surface of tract is owned in fee by _____
Kipling Swentzel, etal
Address Morgansville, WV
Mineral rights are owned by same
Address _____
Drilling Commenced _____
Drilling Completed _____
Initial open flow _____ cu. ft. _____ bbls.
Final production 60,000 cu. ft. per day _____ bbls.
Well open _____ hrs. before test W/A RP.

| Casing and Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. (Sks.) |
|-------------------|------------------|--------------|-------------------------------|
| Size | | | |
| 20-16 | | | |
| Cond. | | | |
| 13-10" | | | |
| 9 5/8 | | | |
| 8 5/8 | | | |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | | |
| 3 | | | |
| 2 2 7/8 | 2438 | 2414 | |
| Liners Used | | | |

Well treatment details:

Circulated during fracture.

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Weir Depth 2291-2360

| Formation | Color | Hard or Soft | Top Feet | Bottom Feet | Oil, Gas or Water | * Remarks |
|--------------|-------|--------------|----------|-------------|-------------------|-----------|
| Pill | | Soft | 2150 | 2250 | | |
| Shale | | Hard | 2250 | 2291 | | |
| Sand & Shale | | Hard | 2291 | 2360 | | |
| Shale | | Hard | 2361 | 2414 | | |

2414
~~*2360*~~
2291
69 *DD FT*
123

RECORDED
NOV - 1 1979
OIL & GAS DIVISION
DEPT. OF MINES

(over)

* Indicates Electric Log tops in the remarks section.

RECEIVED

OCT 13 1970



OIL & GAS DIVISION
DEPT. OF MINES

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

Rotary
Spudder
Cable Tools
Storage
Oil or Gas Well Gas
(KIND)

31-30
7-24
Quadrangle Centerpoint
1 19'
Permit No. Dod-1583

WELL RECORD #

Company Troy A. Brady, Jr
Address P. O. Box 371 Buckhannon W. Va
Farm B. W. Swentzel Acres 235+
Location (waters) Morgan's Run
Well No. Three (3) Elev. 1163'
District Grant County Doddridge
The surface of tract is owned in fee by B. W. Swentzel et al
Address West Union
Mineral rights are owned by Same

Drilling commenced June 27, 1970
Drilling completed July 30, 1970
Date Shot From To
With

Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume 400,000 Cu. Ft.
Rock Pressure 200 lbs. hrs.

Oil bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS)

WELL FRACTURED (DETAILS) by Dowell, 200,000 lb sand 250 gal acid
91,014 cu ft nitrogen 440 bbl water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 400 MCFGPD 400,000

ROCK PRESSURE AFTER TREATMENT HOURS
Fresh Water 85 Feet Salt Water 1390 Feet
Producing Sand Injun Depth

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|--------------------------|
| Size | | | Kind of Packer |
| 16 | 11' 6" | | |
| 13 | | 449' | Size of |
| 10 | 1475 | | Depth set |
| 8 1/4 | | | |
| 6 1/2 | | 2170 | |
| 5 3/16 | | | Perf. top <u>2095</u> |
| 4 1/2 | | | Perf. bottom <u>2110</u> |
| 3 | | | Perf. top |
| 2 | | | Perf. bottom |
| Liners Used | | | |

Attach copy of cementing record.
CASING CEMENTED 103/4 SIZE 449 No. Ft. 7/4/70 Date
Amount of cement used (bags) 125
Name of Service Co. Lawson
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-----------|-------|--------------|------|--------|-------------------|-------|----------------------|
| Clay | | | 0 | 12 | | | |
| Sand | | | 12 | 25 | | | |
| Red Rock | | | 25 | 65 | | | |
| Slate | | | 65 | 85 | | | |
| Lime | | | 85 | 136 | Water | 85' | Fresh 1/2 bailer 1hr |
| Slate | | | 136 | 150 | | | |
| Red Rock | | | 150 | 227 | | | |
| Sand | | | 227 | 245 | | | |
| Red Rock | | | 245 | 265 | | | |
| Lime | | | 265 | 320 | | | |
| Slate | | | 320 | 345 | | | |
| Lime | | | 345 | 620 | | | |
| Slate | | | 620 | 652 | | | |
| Sand | | | 652 | 673 | | | |
| Lime | | | 673 | 700 | | | |
| Red Rock | | | 700 | 715 | | | |
| Lime | | | 715 | 835 | | | |
| Red Rock | | | 835 | 850 | | | |
| Lime | | | 850 | 885 | | | |
| Sand | | | 885 | 910 | | | |
| Red Rock | | | 910 | 925 | | | |
| Lime | | | 925 | 1035 | | | |
| Sand | | | 1035 | 1052 | | | |
| Slate | | | 1052 | 1088 | | | |

OCT 24 1970

| Formation | Color | Hard or Soft | Top <i>f</i> | Bottom | Oil, Gas or Water | Depth Found | Remarks |
|--------------------|-------|--------------|--------------|--------|-------------------|-------------|-----------------------------------|
| Lime | | | 1088 | 1262 | | | |
| Sand | | | 1262 | 1286 | | | |
| Lime | | | 1286 | 1304 | | | |
| Sand <i>asD</i> | | | 1304 | 1465 | Water | 1390 | Salty $\frac{1}{2}$ Bailer 1 h |
| Lime | | | 1465 | 1590 | | | |
| Slate | | | 1590 | 1610 | | | |
| Lime | | | 1610 | 1715 | | | |
| Sand | | | 1715 | 1745 | | | |
| Lime | | | 1745 | 1752 | | | |
| Slate | | | 1752 | 1805 | | | |
| Lime | | | 1805 | 1821 | | | |
| Sand (Salt) | | | 1821 | 1850 | Oil | 1821 | show |
| Lime (Little) | | | 1850 | 1885 | Oil | 1882 | " |
| Sand (Maxon) | | | 1885 | 1908 | | | |
| Slate | | | 1908 | 1918 | | | |
| Sand | | | 1918 | 1937 | | | |
| Slate | | | 1937 | 1943 | | | |
| Sand (Blue Monday) | | | 1943 | 1965 | | | |
| Lime (Big) | | | 1965 | 2035 | | | |
| Sand | | | 2035 | 2050 | Oil | 2041 | show |
| Lime | | | 2054 | 2061 | | | |
| Sand (Injun) | | | 2061 | 2131 | Oil | 2070 | show |
| Slate | | | 2131 | 2210 | Gas | 2096 | |
| | | | | | Gas | 2120 | 4/10W-1" |
| Lime | | | 2210 | 2270 | | | |
| Sand <i>Squaw</i> | | | 2270 | 2291 | TD | | |

Date..... 19 192

APPROVED

By

(Title)

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

PROPOSED WORK ORDER TO _____ DRILL DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Clyde House NAME Magnum Oil Corporation
 ADDRESS _____ ADDRESS P.O. Box 691, Parkersburg, WV
 TELEPHONE 1-614-826-4144 TELEPHONE 485-1730
 ESTIMATED DEPTH OF COMPLETED WELL: _____ ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

| CASING AND TUBING SIZE | USED FOR DRILLING | LEFT IN WELL | CEMENT FILL UP OR SACKS - CUBIC FT. |
|------------------------|-------------------|--------------|-------------------------------------|
| 20 - 16 | | | |
| 13 - 10 | | | |
| 9 - 5/8 | | | |
| 8 - 5/8 | | | |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | | |
| 3 / 2-7/8 | | 2850 | Perf. Top Perf. Bottom 35 sks. |
| 2 | | | |
| 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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

MAY 17 1979

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 May 14, 1979

Surface Owner Kipling Swentzel
Address Rt. 2, Morgansville, WV
Mineral Owner W. B. Swentzel
Address Morgansville, WV
Coal Owner N/A
Address N/A
Coal Operator N/A
Address N/A

Company Magnum Oil Corporation
Address P.O. Box 691, Parkersburg, WV
Farm Kipling Swentzel Acres 77.70
Location (waters) Morgan's Run
Well No. 3 Elevation 1163
District Grant County Doddridge
Quadrangle Centerpoint

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 deepening. This permit shall expire if
operations have not commenced by 1-18-80

INSPECTOR Paul Garrett
TO BE NOTIFIED
ADDRESS 321 Beech St., Clarksburg, WV 26301
PHONE 622-3871

Robert T. Brady
Deputy Director - Oil & Gas Division

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 September 15, 1959 by W. B. Swentzel & Troy A. Brady made to Doddridge and re-recorded on the 15th day of May 1979, in Doddridge County, Book 108 Page 481
 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.

Very truly yours,
(Sign Name) David M. Chambers
Well Operator
P.O. Box 691, 1531 Garfield Ave.,

Street
Parkersburg,

City or Town
West Virginia

State

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

*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.

BOND DEEPEN

Dodd-1583
47-017-1583-DD PERMIT NUMBER