



ACCURACY: 1" / 200'

- New Location
- Drill Deeper
- Abandonment
- Fracture
- Re-drill
- Other

Formation BEREA Oil
 Est. Depth 3000' Gas
 Other

Source of Elevation U.S.B.M. ON RR 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 4 of the laws and regulations of the oil and gas section of the mining laws of West Virginia.

Company MAGNUM OIL CORP
 Address PARKERSBURG, WV
 Surface Owner ANCIL KNIGHT
 Mineral Owner M. C. WALDO

Well No. 1 Acres 119-1/2
 Elevation 985' 100' above 15'
 Quadrangle PENNSBORO Series 7.5' SC
 County DODDRIDGE District CENTRAL
 Date 3/25/80 Scale 1" = 500'

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

WELL LOCATION MAP
47 - 017 - 2657
 STATE COUNTY PERMIT

+ Denotes location of well on United States Topographic Maps.
 Engineer CHET WATERMAN
 Engineer's Registration No. 3788 File No. 80-171

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

Date April 25, 1980

FORM IV-35
(Obverse)

Operator's
Well No. Waldo #1

[08-78]

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

API Well No. 47 - 017 - 2657
State County Permit

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 985 Watershed: Gum Run
District: Central County: Doddridge Quadrangle: Pennsboro 7.5

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

PERMIT ISSUED ON March 31, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett
Address 321 Beech Street, Clarksburg
622-3871 WV

GEOLOGICAL TARGET FORMATION: Injun & Weir Depth 2300 feet
Depth of completed well, 2405 feet Rotary / 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 April 4, 1980, and completed April 10, 1980

LOGGING AND TUBING PROGRAM

LOGGING 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	CW	22#	X		298	298		Circ.
Gal									Sizes
Intermediate									
Production									Depths set
Logging	4 1/2	CW	10.5	X			2383		
Packers	1 1/2	sm	3.5	X			2225		Perforations:
									Top Bottom
									1916-2279

RECEIVED
APR 20 1980

WELL FLOW DATA

Producing formation Weir OIL & GAS DIVISION DEPT. OF MINES Pay zone depth 2186-2279 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 250 Mcf/d Final open flow, 2 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 1912-1982 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 350 Mcf/d Final open flow, 1 Bbl/d
Time of open flow between initial and final tests, 4 hours

JUN 4 1980

[08-78]

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

Weir - fraced with 24,500# Sand - 250 gal.
Acid and 248,000 SCF N²

Perforations:
2186-92 6 holes
2204-12 9 holes
2219 1 hole
2228-36 7 holes
2247 1 hole
2277 1 hole
2279 1 hole

Injun - fraced with 18,500# Sand - 500 gal
Acid and 167,000 SCF N²

Perforations:
1912-16 4 holes
1950-54 5 holes
1965-72 9 holes
1977-82 5 holes

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS including indication of all fresh and salt water, coal, oil and gas
Sand & Soil	brown	soft	0	20	
Sand & Shale	brown	soft	20	314	
Sand Horseneck	white	soft	314	388	
Shale & Sand	brown	soft	388	1778	
Sand - Maxon	white	hard	1778	1802	
Shale	black	soft	1802	1846	
Lime - Big Lime	white	hard	1846	1888	
Sand - Big Injun	white	hard	1888	1984	
Shale	black	soft	1984	2184	
Sand - Weir	brown	hard	2184	2300	
Shale	black	soft	2300	2358	
Sand - <u>Berea</u>	white	hard	2358	2362	
Shale	black	soft	2362	2405	
TD				2405	

(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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

COPY

MAR 31 1980

Oil and Gas Division
OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE March 27, 1980

Surface Owner Ansil Knight
Address 1210 E. Penn. Ave., Pennsboro, WV
Mineral Owner Mary C. Waldo et al
Address 2103 Park Ave., Parkersburg, WV
Coal Owner N/A
Address N/A
Coal Operator N/A
Address N/A

Company Magnum Oil Corporation
Address Parkersburg, WV 26101
Farm Waldo Acres 95
Location (waters) Gum Run
Well No. 1 Elevation 985'
District Central County Doddridge
Quadrangle Pennsboro 7.5

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 12-3-80.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, WV

PHONE 622-3871

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 April 3 1979 by Mary C. Waldo et al made to Petroleum Services and recorded on the 3 day of May 1979, in Doddridge County, Book 108 Page 448

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

Address
of
Well Operator

Very truly yours, Magnum Oil Corporation
(Sign Name) by: John Cushing
Well Operator

Box 4295
Street
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 BOND

G. Survey

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 Parkersburg, WV
 TELEPHONE 462-5701 TELEPHONE 485-1730
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Berea
 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 FILL 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