



~~39 19 50~~
81 21 15

LONGITUDE 81° 20'

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200

Frank J. Baker #289

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY	H.D. WELLS OIL & GAS EXP. & DEV. INC.		
ADDRESS	P.O. BOX 1785 CHARLESTON, WVA 26324		
FARM	JOHN E. MORLAN		
MAP	ACRES	LEASE NO.	
	23		
WELL (FARM) NO.	1	SERIAL NO.	
ELEVATION (SPIRIT LEVEL)	782.73		
QUADRANGLE	MARIETTA 15' & 7 1/2" SC		
COUNTY	WOOD	DISTRICT	UNION
POINT OF PROVEN ELEVATION	Road Intersection EL. 620		
FILE NO.	DATE	DRAWING NO.	SCALE
	JAN 7, 1981		1" = 500 FT.

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION CHARLESTON
WELL LOCATION MAP
FILE NO. 47-107-1132
+ 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.

6-6 Waverly (71)

FEB 13 1981

Gordon 3000



RECEIVED
MAR 23 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

Quadrangle Marietta
Permit No. 47-107-1132

Company H. D. Wells Oil & Gas Exp. & Dev.
Address P. O. Box 1785
Farm John E. Morlan Acres 23
Location (waters) Carpenter Run
Well No. One Elev 782.73
District Union County Wood
The surface of tract is owned in fee by John E. Morlan et ux
Address Parkersburg, WV
Mineral rights are owned by same
Address _____
Drilling Commenced 1-23-81
Drilling Completed 1-28-81
Initial open flow -0- cu. ft. -0- bbls.
Final production 300 cu. ft. per day 20 bbls.
Well open -8- hrs. before test 1,110 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 K-55 24'		300	cement to surface.
7			
5 1/2			
4 1/2 J-55		2625	1000 ft. fill up.
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

2000 + 300 MCF

Water frac--550 BBLS 200,000 cu ft nitrogen
60,000 lbs 20/HD Sand -- 500 fel acid -- 11 lb. gell system
Perforate 20 holes 2470 ft - 2500 ft/

Coal was encountered at None Feet na Inches
Fresh water -80- Feet 1100' Salt Water 2470-2500 Feet
Producing Sand Gordon Depth

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil	B	S	-0-	2		
Clay	R	S	2	14		
Sand	G	S	14	70		
Red Rock	R	S	70	210		
Slate	B	S	210	400		
Red Rock	R	S	400	475		
Shale/Slate	H	H	475	495		
Shells	W	H	495	675		
Red Rock	R	H	675	1060		
Sand	W	H	1060	1200		
Slate	W	S	1200	1460		
Shells	B	H	1460	1548		
Big Injun		S	1548	1740		
Lime	B	H	1740	1765		
Slate	W	S	1765	2035		
Shale	B	H	2035	2110		
Berea	G	H	2110	2130		
Shale	G	H	2130	2470		
Gordon	G	S	2470	2500	Show Gas	
Shale	B	H	2500	2629	Total Depth	

(over)

* Indicates Electric Log tops in the remarks section.

APR 7 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JAN 16 1981

Oil and Gas Division
OIL AND GAS DIVISION
DEPT. OF MINES
OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner John E. Morlan et ux
Address Parkersburg, WV
Mineral Owner Same as Surface Owner
Address _____
Coal Owner Same as Surface Owner
Address _____
Coal N/A
Address _____

DATE January 12, 1981
Company H. D. Wells Oil & Gas Exp'l & Devel.
Address P.O.Box 1785, Charleston, WV 25326
Farm John E. Morlan et ux Acres 23
Location (waters) Carpenter Run
Well No. 1 Elevation 782.73
District Union County Wood
Quadrangle Marietta

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 9-20-81

INSPECTOR
TO BE NOTIFIED K. Paul Goodnight
ADDRESS Smithville, WV 26178
PHONE 477-3660

[Signature]
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 (or as the case may be) under grant or lease dated December 30 1980 by Quaker State Oil made to H.D.Wells Oil & Gas and recorded on the 30 day of December 1980, in Wood County, Book 749 Page 100
 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:

OFFICE OF OIL AND GAS
1615 Washington Street, East
Charleston, West Virginia
Area Code 304 -348-3092 348-3096

Very truly yours,
(Sign Name) [Signature]
Well Operator
P. O. Box 1785
Street
Charleston,
City or Town
WV 25326
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

47-107-1132 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
Signed by [Signature]

**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 Clint Hurt and Associates _____ NAME H. D. Wells _____
 ADDRESS Edens Fork, Charleston, WV _____ ADDRESS P.O. Box 1785, Charleston, WV 25326 _____
 TELEPHONE 344-2401 _____ TELEPHONE 304-346-2829 _____
 ESTIMATED DEPTH OF COMPLETED WELL: 3,000' _____ ROTARY X 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 K-55, 2 1/2#/ft	300	300	Cement to Surface
7			
5 1/2			
4 1/2 K-55, 10 1/2#/ft	3,000	3,000	150 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET _____ SALT WATER 1,300 FEET _____
 APPROXIMATE COAL DEPTHS None expected _____
 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