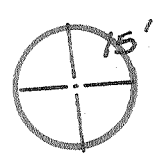


39 10 05
80 50 40



2,835
600
2,880
2,930
5.71

Surface: - Earl Zinn

+ 7 1/2'

Minimum Error of Closure 1 in 200'

Source of Elevation Elev. Well No. I 616 (location) = 943'

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

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.

Signed: [Signature]
Squares: N S E W

Company United Operating Co.
 Address 600 Commerce Square, Charleston.
 Farm Earl Zinn
 Tract _____ Acres 39 Lease No. _____
 Well (Farm) No. I-615(1) Serial No. _____
 Elevation (Spirit Level) SEE Topo Map Shows ELEV 1050+-
 Quadrangle Oxford 7 1/2, Holbrook 15
 County Doddridge District Southwest
 Engineer [Signature]
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date June 14, 1978 Scale 1"=500'

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

WELL LOCATION MAP
FILE NO. DODD-2185

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{20,000}/_{62,500}, latitude and longitude lines being represented by border lines as shown.

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

47-017

2400' - ?
G-6 Straight Fork - Bluestone Creek (132)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Oxford 7½

Permit No. DODD-2185

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

Company United Operating Company
Address 600 Commerce Sq., Charleston, WV
Farm E. W. ZINN Acres 40
Location (waters) Lower Run
Well No. 1 Elev. 965
District Southwest County Doddridge
The surface of tract is owned in fee by _____
E. W. ZINN
Address Troy, WV
Mineral rights are owned by Same
Address Same
Drilling Commenced 6-21-78
Drilling Completed 6-25-78
Initial open flow No Test cu. ft. _____ bbls.
Final production 767 M. cu. ft. per day 10 bbls.
Well open 4 hrs. before test 1200 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	319	319	Circulated
7			
5 1/2			
4 1/2	0	2,340	100 sacks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

545 bbls. treated water - 20,000# 80/100 sand - 30,000# 20/40 sand, 500 gallon mud acid - Average rate 18.8 bpm - Average pressure 2,355 psi

Coal was encountered at No record Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand WEIR Depth 2,170 - 2,296 feet

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand-Shale	Grey	Soft	0	940		
Sand	Grey	Hard	940	1020		
Shale	Grey	Soft	1020	1184		
Sand	Grey	Hard	1184	1238		
Shale	Grey	Soft	1238	1290		
Sand	Grey	Hard	1290	1388		
Sand with Shale Stringers	Grey	Hard	1388	1870		
Lime	Grey	Hard	- 1870	1940		
Sand (BIG INJUN)G.		Hard	1940	2004		
Shale	Grey	Soft	2004	2168		
Sand (WEIR)	Grey	Soft	2168	2298		
Shale	Grey	Soft	2298	2388	T.D.	

(over)

* Indicates Electric Log tops in the remarks section.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUN 21 1978

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 June 19, 1978

Surface Owner E. W. Zinn

Company United Operating Co.

Address Troy, W. Va.

Address 600 Commerce Sq., Charleston, WV

Mineral Owner E. W. Zinn

Farm E. W. ZINN Acres 40

Address Troy, W. Va.

Location (waters) Lower Run

Coal Owner

Well No. 1 (I-615) Elevation 965

Address

District Southwest County Doddridge

Coal Operator

Quadrangle Oxford 7 1/2

Address

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 10-21-78.

INSPECTOR

TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street

Clarksburg, WV 26301

PHONE 622-3871

[Signature]

GENTLEMEN, Director - Oil & Gas Division

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 1-11 1977 by E. W. Zinn made to Consolidated/thence United and recorded on the day of 19 in Doddridge County, Book 103 Page 80

X 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, United Operating Company
(Sign Name) *[Signature]*
Well Operator

Address of Well Operator 600 Commerce Square Street
Charleston, City or Town
WV 25071 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

DODD-2185 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."

47 017

Signed by *[Signature]*

PROPOSED WORK ORDER WILL BE SUBMITTED ON DATE OF WELL COMPLETION

PROPOSED WORK ORDER TO X DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Warren Haught NAME Lyle Coffman & J. L. Trittipo
 ADDRESS Smithville, WV ADDRESS Norris Road, Glenville, WV
 TELEPHONE 1-477-2222 TELEPHONE 1-462-7176
 ESTIMATED DEPTH OF COMPLETED WELL: 2400' ROTARY X CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION:
 TYPE OF WELL: OIL X GAS X 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	300'	300'	Circ.
7			
5 1/2			
4 1/2	0	2400'	700' Fill-up
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 140 FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS
 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