



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 PART IN 200
 Source of Elevation J. & J. ENTERPRISES, INC. WELL # K-24-1
 ELEV. 827'
 "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."

Company J. & J. ENTERPRISES, INC.
 Address P.O. BOX 48 BUCKHANNON, W. VA. 26201
 Farm EUGENE FOXWORTHY / HARVEY STICKEL
 Tract _____ Acres 146.5 Lease No. _____
 Well (Farm) No. J-278 Serial No. _____
 Elevation (Spirit Level) 1170'
 Quadrangle WEST UNION 75' @ 15' SE
 County DODDRIDGE District WEST UNION
 Engineer Donald L. Wheeler
 Engineer's Registration No. 530 L.L.S.
 File No. 19/63 Drawing No. _____
 Date 4/16/80 Scale 1" = 1,000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. 017-2689

† 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 STRAIGHT FK-BLUESTONE CR 133
 MAY 29 1980

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

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

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 1170 Watershed: Right Fork of Arnolds Creek
District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address Box 48 Address Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

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 4-21, 19 80 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5275-5355 feet
Depth of completed well, 2910 feet Rotary / Cable Tools
Water strata depth: Fresh, 4207 feet; salt, None feet.
Coal seam depths: None Is coal being mined in the area? NO
Work was commenced 6-17, 19 80, and completed 6-22, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	13/4H-40	42	X					Kinds
Fresh water	85/8ERW	23	X			1565.35	1565.35	335 sks
Coal	85/8ERW	23	X			1565.35	1565.35	335 sks
Intermediate								Sizes
Production	4 1/2J-55	10.5	X			5415.30	5415.30	510 sks
Tubing								Depths set
Liners								Perforations:
								Top Bottom
								5298 5329

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5275-5355 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1,555 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1765 psig (surface measurement) after 96 hours shut in
[If applicable due to multiple completion--]
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow, _____ 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, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

JUL 8 1980

JUL 28 1980

JUL 28 1980

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

Alexander: Perforations: 5298-5329 (15 holes)
Fracturing: 450 sks: 80/100 sand: 750 sks 20/40 sand: 86
Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or soft	Top Feet	Bottom Feet	Remarks Including indication of all gases and salt water, coal, oil and gas
Clay			0	10	
Sand & Shale			10	200	
Shale & Red Rock			200	265	
Sand			265	310	
Shale			310	330	
Red Rock			330	340	
Shale			340	385	
Red Rock			385	390	
Shale & Red Rock			390	420	
White Sand			420	505	
Shale			505	665	
Sand			665	755	
Shale & Red Rock			755	970	
Sand & Shale			970	1070	
Shale			1070	1100	
Red Rock			1100	1120	
Shale			1120	1290	
Sand & Shale			1290	1340	
Shale			1340	1365	
Sand			1365	1445	
Shale			1445	1675	
Sand			1675	1725	
Shale			1725	2015	
Big Lime			2015	2080	
Injun			2080	2160	
Shale			2160	2585	
Sand			2585	2790	
Shale & Sand			2790	3150	Gas ck @ 2910 2/10 thru 11/2" w/ water
Shale			3150	3185	
Sand & Shale			3185	3290	
Shale & Sand			3290	3420	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.
Well Operator

By Peter Battles
Peter Battles
Geologist

NOTE: Regulation 2.02(d) 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."

FORMATION	Color	Top of Foot	Bottom Feet	Bottom Feet	Remarks Including Inclusions of oil, gas and salt water, sand, etc.
Shale			3420	3440	
Sand			3440	3485	
Shale			3485	4345	Gas ck @ 4207 2/10 thru 1 1/2" w
Shale			4345	5000	water
Lt. Brown Sand			5000	5005	
Shale			5005	5015	
Lt. Brown Sand			5015	5025	
Shale			5025	5275	
<u>Alexander</u>			5275	5355	
Shale			5355	5477	T.D. 5446 Gas ck @ 5446 6/10 thru 1 1/2" w/ water
					1/2 way out of hole 3/10 thru 1 1/2" w/water

JUL 28 1980
JUL 28 1980

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OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-278

API Well No. 47 - 017 2689
State County Permi

WELL TYPE: Oil / Gas
(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1170 Watershed: Right Fork of Arnold's Creek
District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR J & J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Eugene R. Foxworthy/Harvey Stickle
Address West Union, WV 26456 / West Union
WV 26456

COAL OPERATOR None
Address _____
COAL OWNER(S) WITH DECLARATION ON RECORD:

ACREAGE: 146.5
SURFACE OWNER Eugene & Martha Foxworthy
Address West Union, WV 26456
ACREAGE: 141.3

Name Eugene & Martha Foxworthy
Address West Union, WV 26456
Name Harvey & Melva Stickle
Address West Union, WV 26456

FIELD SALE (IF MADE) TO:
Name _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

RECEIVED
APR 21 1980

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 3-12, 1980, to the undersigned well operator from Justin L. Henderson

[If said deed, lease, or other contract has been recorded:]
Recorded on 4-8, 1980, in the office of the Clerk of the County Commission of _____ County, West Virginia, Assignment Book 114 at page 351. A permit is requested as follows:

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

--planned as shown on the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 20-2-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this application by the Department.

Copies of this Permit Application and the enclosed plan and declaration plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1601 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 345-3092

J & J Enterprises, Inc.
Well Operator

By Peter Battles
Peter Battles
Its Geologist

BLANKET BOND

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company

Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5450 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 300 feet; salt, None feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	113/4	H-40	42	x		30	0	0 sks Kinds None
Fresh water	8 5/8	ERW	23	x		1425	1425	375 sks
Coal	8 5/8	ERW	23	x		1425	1425	375 sks Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		5450	5450	300 sks. Depths set
Tubing								
Liners								Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and all provisions herein 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 12-24-80

Robert H. [Signature]
Deputy Director - Oil & Gas Division

The following information must be furnished by the coal operator and by any coal owner or coal lessee who has received a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19

by
Its