



LATITUDE 39° 12' 30"
(15) 39° 15'

LONGITUDE 80° 40'
(15) 80° 42' 30"

NORTH

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION INT. RT. 54 AND 54 1/2
ELEVATION 868'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
(SIGNED) Samuel L. Madson
R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)



DATE JULY 14th 19 80
OPERATOR'S WELL NO. J-327
API WELL NO. 47 - 017 - 2809
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS.") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1020' WATER SHED LITTLE TOMS FORK
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 7.5' VADIS 15' NW
SURFACE OWNER DAVID AND PAULDIN COPLIN ACREAGE 136 Ac. 50 P.
OIL & GAS ROYALTY OWNER DAVID AND PAULDIN COPLIN: ETHEL CZIGANS LEASE ACREAGE 136 Ac. 50 P.
LEASE NO. K-606
PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'
WELL OPERATOR J. AND J. ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT
ADDRESS P.D. BOX 48 BUCKHANNON, WEST VIRGINIA 26201 ADDRESS P.D. BOX 48 BUCKHANNON, WEST VIRGINIA 26201

6-6 PORTO RICO 134 AUG 15 1980

[08-78]

WELL OPERATOR'S REPORT 23
OF

Operator's Well No. J-327

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE
API Well No. 47-017-2809
State County Perm.

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 1020 Watershed: Little Tom's Fork
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48 Address P.O. 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 8-1, 19 80
OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

LOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well, 5990 feet Rotary / Cable Tools _____
Water strata depths: Fresh, 580 feet; salt, None feet.
Coal seam depths: 1165-68 Is coal being mined in the area? No
Work was commenced 9-13, 1980, and completed 9-20, 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		
Suction	1 1/4	H-40	42	x				
Sh water	8 5/8	ERW	23	x		1537.50	1537.50	400 sks.
Intermediate	8 5/8	ERW	23	x		1537.50	1537.50	400 sks.
Production	4 1/2	J-55	10.5	x		5075.55	5075.55	745 sks.
Logging								
Perforations:								
								Top Bottom
								2276 2398
								2691 2695
								3340 3437

RECEIVED
OCT 29 1980

FLOW DATA
Producing formation Benson & Riley Pay zone depth 3340-3437 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Ebl/d
Combined Final open flow, 1,905 Mcf/d Final open flow, _____ Ebl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1250 psig (surface measurement) after 96 hours shut in.

Second producing formation Weir, Balltown & Speechley Pay zone depth 2276-2398 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Ebl/d
Final open flow, _____ Mcf/d Final open flow, _____ Ebl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in.

NOV 25 1980

[08-78]

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

Benson & Riley: Perforations: 3340-3437 (12 holes) 4863-4956 (12 holes)
Fracturing: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 400 lbs. Acid: 500 Bbls. fluid.

Gordon & Berea: Perforations: 2691-95 (8 holes)
Fracturing: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 500 Bbls. fluid: 500 Bbls. fluid.

Balltown & Speechley: Perforations: 2474-76 (4 holes)
Fracturing: 500 lbs. Acid: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 600 Bbls. fluid.

Weir: Perforations: 2276-2398 (13 holes)
Fracturing: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 600 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Fill			0	5	
Sand & shale			5	125	
Shale & red rock			125	215	1/2" stream @ 580'
Sand & shale			215	400	
Red rock & shale			400	480	
White sand			480	530	
Sand & shale			530	820	
Sand, shale & red rock			820	1155	
Sand & shale			1155	1165	
Coal			1165	1168	
Sand & shale			1168	1250	
Shale & sand			1250	1625	
Shale & sandy shale			1625	1840	
Shale			1840	2020	
Big Lime			2020	2130	
Shale & sand			2130	2276	
Weir			2276	2445	Oil odor @ 2690'
Shale			2445	2474	
Balltown & Speechley			2474	2600	Gas ck. @ 3186 No show
Shale & sand			2600	2690	Gas ck. @ 3967 No show
Gordon & Berea			2691	2720	Gas ck. @ 4310 2/10 thru 1"
Shale			2720	2930	Gas ck. @ 4963 6/10 thru 1"
Sand & shale			2930	3340	Gas ck. @ 5250 6/10 thru 1"
Shale			3340	3437	Gas ck. @ 5564 4/10 thru 1"
Benson & Riley			3437	3625	
Sand & shale			3625	3810	
Sandy shale			3810	4090	
Shale			4090	4270	
Sand			4270	4300	
Sandy shale			4300	4780	
Shale			4780	4940	
Brown sand			4940	5400	
Alexander			5400	5800	
Shale & sand			5800	5990 T.D	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles
Its Geologist

NOTE: Regulation 2.02(i) 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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-327

API Well No. 47 - 017 - 2809
State County Perm

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)
LOCATION: Elevation: 1020 Watershed: Little Tom's Fork
District: New Milton County: Doddridge Quadrangle: New Milton

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 David & Pauline Coplin/Czigans
Address Hope Hill Rd, Rt. 3 /Rt. 1
Parkersburg, WV 26101/New Concord, Ohio
Acreage 136

COAL OPERATOR David & Pauline Coplin
Address Rt. # 3
Parkersburg, WV 26201

SURFACE OWNER David & Pauline Coplin
Address Hope Hill Rd
Rt. # 3 Parkersburg, WV 26201
Acreage 136

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

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
AUG - 1 1980

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

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease x / other contract / dated Dec. 21, 1978, to the undersigned well operator from Wibert:Mary:Gilbert & Esther Czigans

[If said deed, lease, or other contract has been recorded:]
Recorded on Jan. 24, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas ^{lease} Book 107 at page 287. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate x /
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 coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 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 plat and reclamation 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
1015 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
Peter Battles
Peter Battles
Geologist

[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 P.O. Box 48

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary -x- / Cable tools /

Approximate water strata depths: Fresh, 80 feet; salt, 1100 feet.

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

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	Left in well		
Conductor	113/4	H-40	42	x		30	30	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1200	1200	350 sks.	
Coal	8 5/8	ERW	23	x		1200	1200	350 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		5350	5350	400 sks.	Depths set
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.

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 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 4-6-81

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded 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