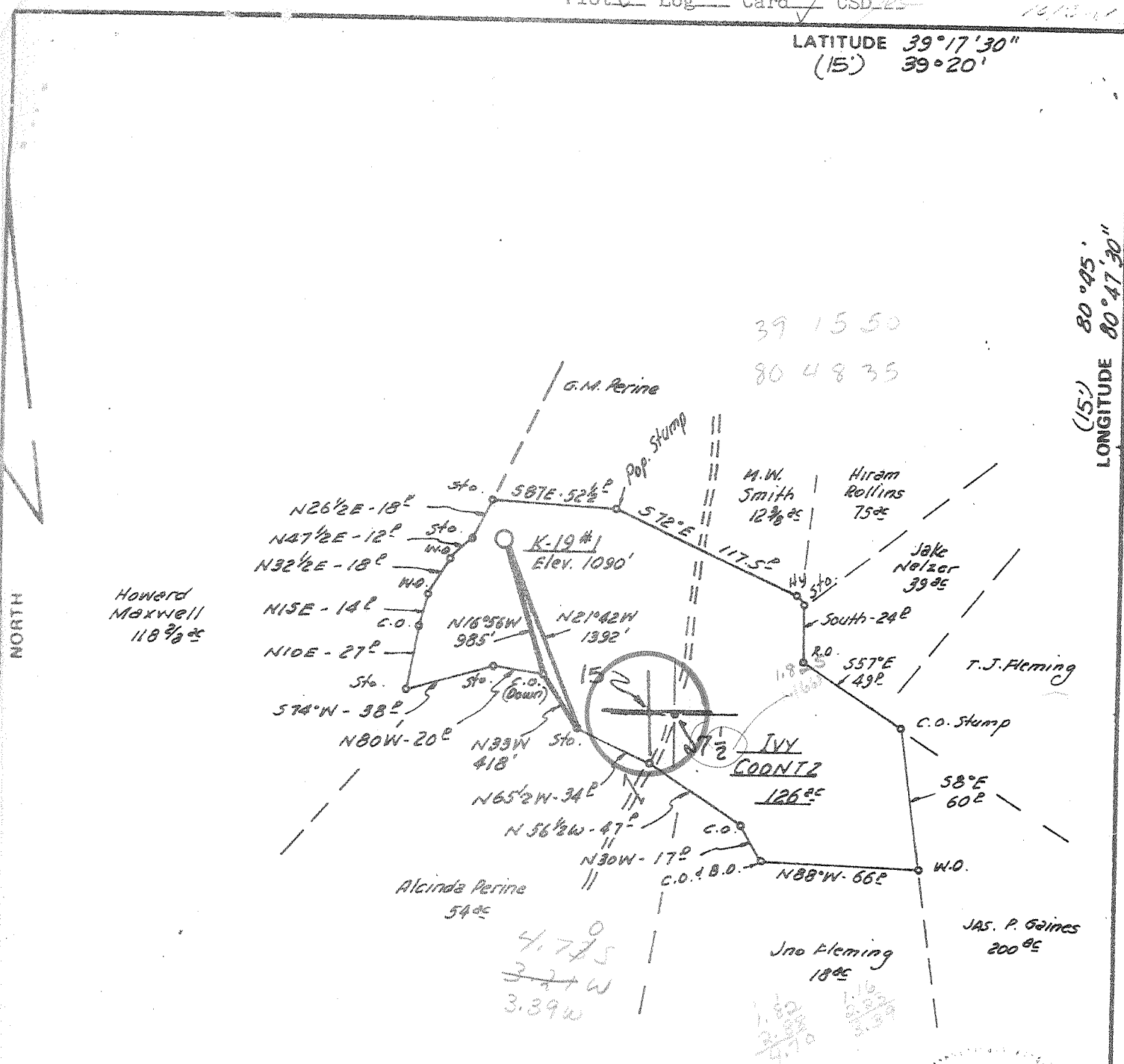


LATITUDE 39°17'30"
(15) 39°20'

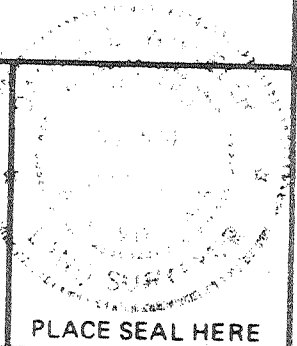
LONGITUDE 80°47'30"
(15) 80°45'

39 15 50
80 48 35



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 Part in 200
PROVEN SOURCE OF ELEVATION H. COONTZ #1 WELL
ELEV. 818'

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) Daniel L. Wheeler
R.P.E. _____ L.L.S. 530



PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE OCTOBER 10, 1979
OPERATOR'S WELL NO. K-19 #1
API WELL NO. _____
47 - 017 - 2515
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1090 WATER SHED RIGHT FORK
DISTRICT WEST UNION COUNTY DOODRIDGE
QUADRANGLE WEST UNION 7.5', 15' SE
SURFACE OWNER JAMES ADAMS ACREAGE 57
OIL & GAS ROYALTY OWNER IVY COONTZ LEASE ACREAGE 126
LEASE NO. K-19
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5150
WELL OPERATOR J.S.J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT NOV 6 1979
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, W.VA. 26201 BUCKHANNON, W.VA. 26201

6-4 STRAIGHT FORK-BLUESTONE CK 133

RECEIVED
NOV 28 1979

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

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

OIL & GAS DIVISION
DEPT. OF MINES

WELL TYPE: Oil / Gas / Liquid Injection Waste Disposal
(If "Gas", Production / Underground storage / Deep Shallow

LOCATION: Elevation: 1090 Watershed: Right Fork of Arnold's Creek
District: West Union County: Doddridge Quadrangle: West Union 7 1/2

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H. L. Barnett
Address P. O. Box 48 Address P. O. Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 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 October 22, 19 79 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 Street
Clarksburg, W. Va. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5250 feet
Depth of completed well, 5457 feet Rotary / Cable Tools
Water strata depth: Fresh, 100 feet; salt, 1870 feet.
Coal seam depths: 1212-1215 Is coal being mined in the area? NO
Work was commenced November 7, 1979, and completed November 14, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	MARKERS	
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		Kind	None
Conductor	113/4	H-40	42	X		30	0	0 sks.	Kind	None
Fresh water	8 5/8	ERW	23	X		1081	1081	300 sks.		
Coal	8 5/8	ERW	23	X		1081	1081	300 sks.	Size	
Intermediate										
Production	4 1/2	J-55	10.5	X		5382	5382	640 sks.	Depth set	
Tubing										
Liners									Perforations:	
									Top	Bottom
									5269	5273
									5287	5289
									5292	5292

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5269-5292 feet
Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 750 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 16 hours
Static rock pressure, 1400 psig (surface measurement) after 24 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

(Continue on reverse side)

008-703

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

Alexander- Perforations: 5292, 1 hole; 5287-5289, 5 holes; 5269-5273, 10 holes.

Fracturing: 500 Gal. Acid; 30,000 lbs. 80/100 wire mesh; 60,000 lbs. 20/40 wire mesh; 855 Bbls. Fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Feet	Bottom Feet	Remarks Including Indication of Gas, Grease and salt water, coal, etc.
Fill			0	10	
Red Rock			10	25	
Shale			25	45	
Sand & Shale			45	370	Water @ 100'
Red Rock & Shale			370	540	
Sand & Shale			540	760	
Shale			760	800	
Red Rock & Shale			800	895	
Sand & Shale			895	930	
Red Rock & Shale			930	980	
Sandy Shale			980	1035	
Red Rock & Shale			1035	1122	
Sand & Shale			1122	1212	
Coal			1212	1215	Coal
Shale			1215	1385	
Sand & Shale			1385	1558	
Shale			1558	1620	
Sand & Shale			1620	1695	
Sand			1695	1780	
Sand & Shale			1780	1805	
Shale			1805	1890	Damp @ 1870'
Sand & Shale			1890	1960	
Big Lime			1960	2040	
Big Injun			2040	2125	
Sand & Shale			2125	2296	
Weir Sand			2296	2408	
Sand & Shale			2408	2830	
Shale			2830	3233	
Sand & Shale			3233	3280	
Sand			3280	3310	
Shale			3310	3419	
Sand & Shale			3419	3545	
Shale			3545	3605	

(Attach separate sheets as complete as necessary)

J & J ENTERPRISES, INC.

Well Operator

Peter B. Bailes
PETER BAILES

By

Its

GEOLOGIST

NOTE: Regulation 2.02(f) 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	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indications of gas, oil, and salt water, etc.
Sand			3605	3700	
Shale			3700	3770	
Sand			3770	3860	
Shale			3860	4350	
Sand & Shale			4350	4520	
Sand			4520	4570	
Shale			4570	4660	
Sand & Shale			4660	4928	Gas @ 4869' 6/10-1/4" With Water
Benson			4928	4937	
Shale			4937	5250	
<u>Alexander</u>			5250	5318	
Shale			5318	5457	
			TD	5457	

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-19-#1
API Well No. 47-017-2515
State County Permit

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)
LOCATION: Elevation: 1090 Watershed: Right Fork of Arnold's Creek
District: West Union County: Doddridge Quadrangle: West Union 7½

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

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

OIL & GAS ROYALTY OWNER Ivy Coontz
Address West Union
West Virginia
Acreage 126

COAL OPERATOR None
Address

SURFACE OWNER James Adams
Address Route 1
West Union, W. Va. 26456
Acreage 57

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
RECEIVED
OCT 22 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 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 July 13, 1978, to the undersigned well operator from Ivy Coontz

[If said deed, lease, or other contract has been recorded:]
Recorded on August 29, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in OIL & GAS LEASE Book 104 at page 454. 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
1614 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J ENTERPRISES, INC.
Well Operator
By Peter Battles
PETER BATTLES
Its 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, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5150 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 1100 feet; salt, 0 feet.

Approximate coal seam depths: 180-182 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		Kinds	NA
Conductor	11 3/4	H-40	42	X		30	30		Kinds	NA
Fresh water	8 5/8	ERW	23	X		1400	1400	250 sks		
Coal	8 5/8	ERW	23	X					Sizes	NA
Intermediate										
Production	4 1/2	J-55	10.5	X		5100	5100	375 sks	Depths set	NA
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 drilling 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 is noted as such on the Form IV-2 filed in connection therewith.

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 6-22-80.


Deputy Director - Oil & Gas Division

The following information must be completed 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