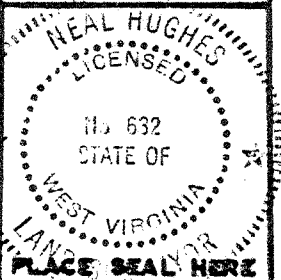


FILE NO. H-1
 DRAWING NO. 2
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 850

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) Neal Hughes
 R.P.E. _____ L.L.S. 632



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



DATE Jan 6, 1981
 OPERATOR'S WELL NO. J82
 API WELL NO. 47-017-2971
 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 1062 WATER SHED LITTLE FLINT RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7 1/2 COR to Point WC
 SURFACE OWNER D. BEASLEY + H. KNIGHT ACRES 133
 OIL & GAS ROYALTY OWNER HENRY KNIGHT LEASE ACRES 202.83
 LEASE NO. H-1
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BENSON ESTIMATED DEPTH 5250'
 WELL OPERATOR J-T Enterprises DESIGNATED AGENT H.L. BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON W.V. 26201 BUCKHANNON W.V.A. 25201

6-6 Smithton-Flint-Sedalia (99)

Jan 23 1981

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

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

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ Waste Disposal ___
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1062 Watershed: Little Flint Run
District: Grant County: Doddridge Quadrangle: Smithburg 7.5'
WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Roger Rolston
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 2/13, 19 81, OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Benson Depth 5132-5305 feet
Depth of completed well, 5305 feet Rotary x / Cable Tools ___
Water strata depth: Fresh, 1520-25 feet; salt, 1515-1690 feet.
Coal seam depths: None Is coal being mined in the area? NO
Work was commenced 6/6, 19 81, and completed 6/13, 19 81

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	11 3/4	H-40	42	x		30	0	0 sks. Bands
Fresh water	8 5/8	ERW	23	x		1211	1211	300 sks.
Coal	8 5/8	ERW	23	x		1211	1211	300 sks. Sizes
Intermediate								
Production Tubing	4 1/2	J-55	10.5	x		5176.30	5176.30	155 sks. Depth set
Liners								Perforations: Top Bottom
								5132 5135

RECEIVED
AUG - 7 1981

OPEN FLOW DATA

Producing formation Benson OIL & GAS DIVISION pay zone depth 5132-35 feet
DEPT OF MINES
Gas: Initial open flow, 492 Mcf/d Initial open flow, ___ Bbl/d
Final open flow, 492 Mcf/d Final open flow, ___ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1500 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

TOM HOLE PRESSURE Static rock pressure, _____ psig (surface measurement) after _____ hours shut in
500 psia e=2.72 x=53.34(T) =53.34(558.5)=29790 =0.0000336 T=60 +(5176 x0.0075) +459.7
.52 x=0.0000336 G=6.00 L=5133.5 S=.09 Pf=1500 x 2.72(0.0000336)(0.60)(5133)(0.9)=1500x2.72
93 =1500 x 1.098 =1647 psi
Pf=1647 psia
AUG 24 1981

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

Benson: Perforations: 5132-35 (12 holes)

Fracturing: 10,000 lbs. 80/100 sand; 28,000 lbs. 20/40 sand; 450 Bbls. fluid.

Well 107

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all green and salt water, coal, oil and gas
Clay			0	10	
Red shale			10	17	
Sand			17	58	1 1/4" to 2" stream @ 1520-25'
Sand & shale			58	65	Oil @ 2110'
Sand			65	115	Oil @ 2450'
Sand, shale & red rock			115	260	
Grey sand			260	270	
Sand & shale			270	305	Gas ck. @ 2824 72/10-1/2" w/water 15,977 cu.ft.
Red rock, sand & shale			305	340	
Red rock, sand & shale			340	415	
Red rock, sand & shale			415	500	Gas ck @ T.D. 20/10-2" w/water 189,000 cu.ft.
Sand & shale			500	570	
Red rock & shale			570	600	
Sand & shale			600	750	
Sand, shale & red rock			750	1025	
Sand & shale			1025	1225	
Sand & shale			1225	1515	
Salt sand			1515	1690	
Sand & shale			1690	1975	
Lime & shale			1975	2010	
Big Lime			2010	2100	
Big Injun			2100	2155	
Sand & shale			2155	2362	
Weir			2362	2432	
Sand & shale			2432	2805	
Gordon			2805	2820	
Sand & shale			2820	3140	
Benson			3140	5132	
Sand & shale			5132	5305	
				TD	

(Attach separate sheets as complete as necessary)

J & J Enterprises, Inc.

Well Operator

By

For

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."

(Obverse)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-82
API Well No. 47 - 017 - 2971
State County Perm

WELL TYPE: Oil ___ / Gas x /
(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x /)
LOCATION: Elevation: 1062 Watershed: Little Flint Run
District: Grant County: Doddridge Quadrangle: Smithburg 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 Henry Knight
Address 4208 Thornapple Lane
Charleston, WV 25312
Acreage 202.83

COAL OPERATOR None
Address: _____
DEPT. OF MINES

SURFACE OWNER D. Beasley & H. Knight
Address P.O. Box 696 / 4208 Thornapple Lane
Claremore, Okla. / Charleston, WV 25312
Acreage 133 74017

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Henry Knight
Address 4208 Thornapple Lane
Charleston, WV 25312

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

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease ___ / other contract x / dated 7/30, 1979, to the undersigned well operator from Justin M. Henderson

[If said deed, lease, or other contract has been recorded:]
Recorded on 2/28, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 114 at page 349. 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 obligation they wish to make or are required to make by Code § 22-5-3 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
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25301

J & J Enterprises, Inc.
Well Operator
Peter Battles

CLERKET BOND BY

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
Buckahannon, WV 26201

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 5250 feet Rotary -X / Cable tools /
Approximate water strata depths: Fresh, 100 feet; salt, 1200 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	11 3/4	H-40	42	x		30	30	0	Kinds
Fresh water	8 5/8	ERW	23	x		1300	1300	300sks	
Coal	8 5/8	ERW	23	x		1300	1300	300sks	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5200	5200	450sks	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 in 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 § 22-4-2a from the owner of any water well or drilling within 200 feet of the proposed well.

THIS PERMIT MUST BE FILED 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 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, this location is hereby approved for drilling. This permit shall expire if operations have not commenced by 10-17-81.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be prepared 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 had 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