

K. LAUREN
T.M. 3-6
113 AC.

P. MAXWELL
T.M. 3-71
63 AC.

GAYLE MAXWELL
T.M. 3-11
107.7 AC.

G. MAXWELL
T.M. 3-12
103.6 AC

L. MAXWELL
T.M. 4-39
1.96 AC

A. WILLIS
T.M. 3-13
36 AC.

NORTH

80° 42' 30"

14,400'

FILE NO. H-31
DRAWING NO. 1
SCALE 1"=500
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION RD INTER 827

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

PLACE SEAL HERE

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



DATE MARCH 31, 1981
OPERATOR'S WELL NO. 1507
API WELL NO. 47-017-3054
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 1140' WATER SHED LICK RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE SMITHBURG 7.5' Centerpoint SW
SURFACE OWNER GAYLE MAXWELL ACREAGE 107.7
OIL & GAS ROYALTY OWNER LEWIS MAXWELL LEASE ACREAGE 90
LEASE NO. H-31
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 Alexander ESTIMATED DEPTH 5400
WELL OPERATOR J.M.T. ENTERPRISES DESIGNATED AGENT James R. Willett
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV Buckhannon, WV

NOV 9

26201

RECEIVED

JUL 7 - 1982

Date: July 1, 1982

Operator's Well No. J-507

API Well No. 47 017 3054
State County Permit

OIL AND GAS DIVISION STATE OF WEST VIRGINIA
WV 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: 1140 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: Smithburg 7.5'

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 10/23, 1982

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON 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: Alexander Depth 5192-5217 feet

Depth of completed well, 5364 feet Rotary / Cable Tools ___

Water strata depth: Fresh, 910, 1647 feet; salt, feet.

Coal seam depths: None Is coal being mined in the area? NO

Work was commenced 5/24, 1982, and completed 6/1, 1982

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		1640.80	1640.80	400 sks.
Coal	8 5/8	ERW	23	x		1640.80	1640.80	400 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		5290	5290	675 sks. Depths set
Tubing								
Liners								Perforations:
								2379 2607
								3292 3357
								3987 4013
								5214 5217
								4889 4901
								5192 5196

OPEN FLOW DATA

Producing formation Alexander & Benson Pay zone depth 4891-4901 5192-5217

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Combined Final open flow, 852 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, 6 hours

Static rock pressure, 1100 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--]

Second producing formation Balltown, Speechley, Gordon & Berea Pay zone depth 2379-2381 2591-2607 3292-3357 3987-4013 4889-4901

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

Bottom Hole Pressure static rock pressure, ___ psig (surface measurement) after ___ hours shut in

Pf=PweXGLS
 $t=60+(0.0075 \times 5290)+459.7=559$
 $X=53.35 \times 559=29842$
 $=0.0000335$
 $Pf=2.72 \times 1100(0.0000335)(0675)$
 $(3753)(0.9)=2.72 \times 1100^{0.076}=1100 \times 1.079=1187$ psi

JUL 19 1982

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

Alexander & Benson: Perforations: 4891-4901 (3 holes) 5214-17 (4 holes) 5192-96 (5 holes)
Fracturing: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 550 Bbls. fluid.

Balltown: Perforations: 3987-89 (4 holes) 3998-4000 (4 holes) 4011-13 (4 holes)
Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid: 500 bbls. fluid.

Warren: Perforations: 3292-94 (3 holes) 3316-18 (3 holes) 3326-28 (3 holes) 3355-57 (3 holes)
Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid: 500 Bbls. fluid.

Gordon & Berea: Perforations: 2604-07 (4 holes) 2591-93 (3 holes) 2379-81 (3 holes)
Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid: 500 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
Soil			0	15	
Red rock, sand & shale			15	35	
Sand & shale			35	310	Damp @ 910
Red rock & shale			310	475	
Sand, shale & red rock			475	1430	Damp @ 1647
Sand & shale			1430	1670	
Sand & shale			1670	1810	Gas Ck @ 2146 72/10-1" w/water
Big Lime			1810	1920	15,877 cu.ft.
Big Injun			1920	1995	
Sand & shale			1995	2379	Gas ck @ 2981 14/10-1" w/water
Berea			2379	2381	7,844 cu.ft.
Sand & shale			2381	2591	
Gordon			2591	2607	Gas ck @ 3941 76/10-1" w/water
Sand & shale			2607	3292	16,404 cu.ft.
Warren			3292	3357	
Sand & shale			3357	3987	Gas ck @ 4891 60/10-1" w/water
Balltown			3987	4013	14,590 cu.ft.
Sand & shale			4013	4891	Gas ck @ 5240 40/10-1" w/water
Benson			4891	4901	11,907 cu.ft.
Sand & shale			4901	5192	
Alexander			5192	5217	
Sand & shale			5217	5364	

TD

(Attach separate sheets as complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By Peter Batties

Is: Geologist

NOTE: Regulation 2.0216 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."

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

Date: October 22, 1981

Operator's Well No. J-507

API Well No. 47 - 017 - 3054
State County Permit

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 1140 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: Smithburg 7.5'

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

DESIGNATED AGENT James R. Willett
Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Lewis Maxwell
Address C/O Haymond Maxwell
Box 47 Clarksburg, WV 26301

COAL OPERATOR None
Address

ACREAGE 90
SURFACE OWNER Gale Maxwell
Address Rt. # 1
New Milton, West Va. 26411

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Gale Maxwell
Address Rt. # 1,
New Milton, WV 26411

ACREAGE 107.7
FIELD SALE (IF MADE) TO:
Name Unknown
Address

Name
Address

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

RECEIVED

OCT 23 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 8/15, 1981, to the undersigned well operator from Justin L. Henderson

[If said deed, lease, or other contract has been recorded:]
Recorded on 9/24, 1981, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 122 at page 103. 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
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Daniel F. Stark
Its Daniel F. Stark
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 / Cable tools /
Approximate water strata depths: Fresh, 130 feet; salt, 150 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	Left in well		
Conductor	11 ³ / ₄	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 ⁵ / ₈	ERW	23	x		1600	1600	300 sks.	
Coal	8 ⁵ / ₈	ERW	23	x		1600	1600	300 sks.	Sizes
Intermediate									
Production	4 ¹ / ₂	J-55	10.5	x		5350	5350	400 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 drilling within 200 feet of the proposed well.

THIS PERMIT MUST BE 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 6-28-82

John B. Burkett
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 _____