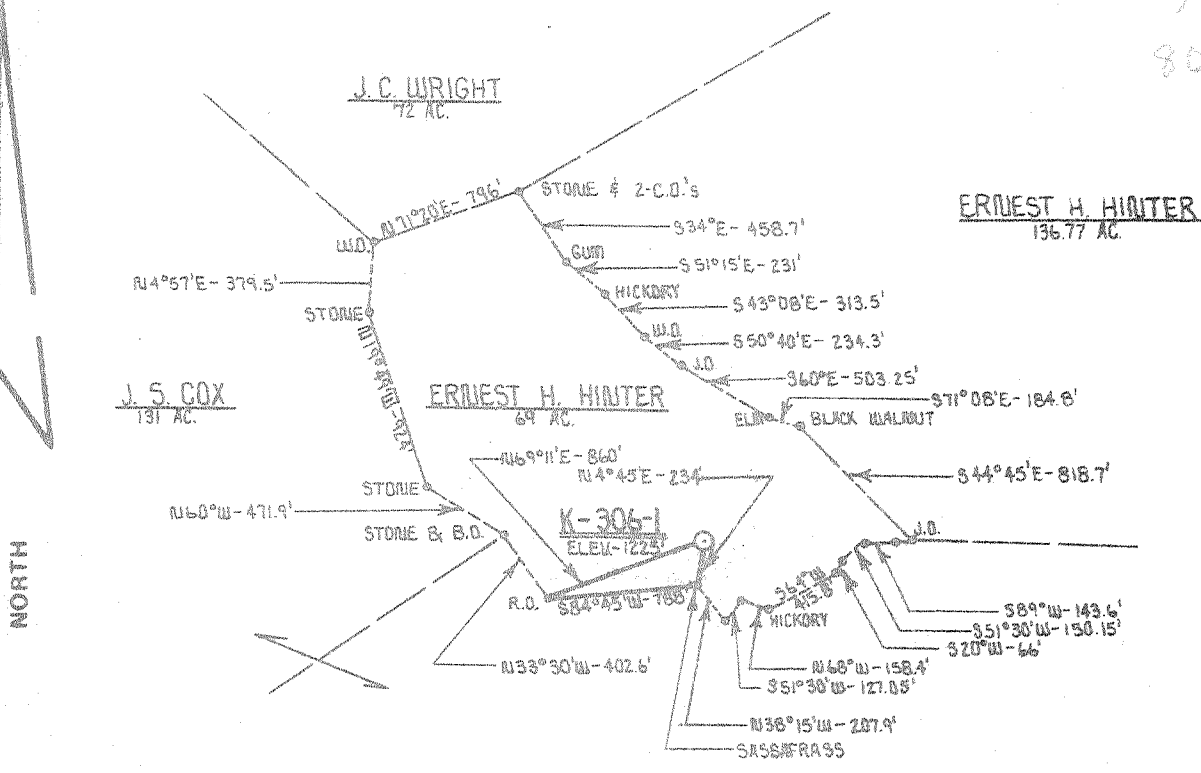


ATITUDE 39° 10' 00"

0.155
2.60W
2.83W

39 09 50
80 41 55
2/10/80
155
60W

LONGITUDE 80° 42' 30"
(15')



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION B.M. - 1300' NORTH DE INT. OF RT. 18 & RT. 54. ELEV. - 903'

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



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



DATE FEBRUARY 14 1980
OPERATOR'S WELL NO. K-306-1
API WELL NO. 47 - 017 - 2606
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 1225' WATER SHED TOMS FORK
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 75' 140'S 15' W.C.
SURFACE OWNER ERNEST HINTER, ET UX ACREAGE 69
OIL & GAS ROYALTY OWNER ERNEST H. HINTER, ET UX LEASE ACREAGE 69
LEASE NO. K-306
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 5,150'
WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201

6-4 NEW MILTON S

307 MAR 1 1980

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WELL OPERATOR'S REPORT 2

OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
Elevation: 1225 Watershed: Tom's Fork
District: New Milton County: Doddridge Quadrangle: New Milton

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

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

REPORT ISSUED ON 2-19, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

LOGICAL TARGET FORMATION: Alexander Depth 5500-5606 feet
Depth of completed well, 5734 feet Rotary / Cable Tools
Water strata depth: Fresh, 95,1525 feet; salt, None feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 8-12, 19 80, and completed 8-19, 19 80

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			Left in well
Drill pipe	1 1/4	H-40	42	x		22	0	0 sks.	
Water	8 5/8	ERW	23	x		1860	1860	445 sks.	Kinds
	8 5/8	ERW	23	x		1860	1860	445 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5161	5161	170 sks.	Depth set
									Perforations:
									Top Bottom
									5533 5543
									5241 5243
									5378 5380

RECEIVED

SEP 16 1980

OIL & GAS DIVISION

DEPT. OF MINES

FLOW DATA

Producing formation Alexander Pay zone depth 5533-5543 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 327 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1500 psig (surface measurement) after 72 hours shut in.

Second producing formation Leopold & Benson Pay zone depth 5241-5380 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

OCT 9 1980

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

Alexander: Perforations: 5533-5543 (21 Holes)

Fracturing: 200 lbs. Citric Acid: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 426 Bbls. fluid.

Leopold & Benson: Perforations: 5241-43 (5 holes) 5378-80 (6 holes)

Fracturing: 500 gal. Acid: 200 sks. 80/100 sand: 500 sks 20/40 sand: 426 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fr and salt water, coal, oil and
Clay			0	12	
Shale					
White sand			12	25	
Red rock			25	50	
Sandy shale			50	75	
Red rock & sand			75	145	Wet @ 95"
Red rock & shale			145	185	
Red rock			185	250	
Sandy shale & red rock			250	280	
Sand; red rock & shale			280	435	
White sand			435	750	
Sandy shale			750	855	
White sand			855	900	
Sandy shale			900	985	
Shale & red rock			985	1085	
Sand & sandy shale			1085	1500	
White sand			1720	1925	
Shale			1925	1995	
Sandy shale			1995	2060	
Shale			2060	2285	
Little lime			2285	2300	
Big Lime & Injun			2300	2320	
Shale			2320	2470	
Sand & shale			2470	2580	
Sand & shale			2580	3635	
Sand & sandy shale			3635	3795	
Sand & shale			3795	3995	
Sandy Shale & shale			3995	4120	
Sand & shale			4120	4390	
Sand & shale			4390	4720	Gas ck @ 4831 No show
Sand & shale			4720	4800	
Sand & shale			4800	4875	
Sand			4875	5035	
Sandy shale			5035	5155	
Leopold & Benson			5155	5241	
Sandy shale			5241	5380	
Alexander			5380	5500	
Shale			5500	5543	
			5543	5734	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.
Well Operator

By Peter Battles
Peter Battles
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. K-306-#1
API Well No. 47-017 2606
State County Permit

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

LOCATION: Elevation: 1225 Watershed: Toms Fork
District: New Milton County: Doddridge Quadrangle: New Milton

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 Ernest & Thelma Hinter
Address Rt. 1, Box 80
New Milton, W. Va. 26411
Acreage 69

COAL OPERATOR None
Address

SURFACE OWNER Ernest & Thelma Hinter
Address Rt. 1, Box 80
New Milton, W. Va. 26411
Acreage 69

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Ernest Hinter
Address Rt. 1, Box 80
New Milton, W. Va. 26411

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
RECEIVED
FEB 19 1980

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 September 11, 1978, to the undersigned well operator from Ernest & Thelma Hinter

If said deed, lease, or other contract has been recorded:]
Recorded on October 23, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 105 at page 189. 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 changes 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
GEOLOGICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
601 WASHINGTON STREET EAST
CHARLESTON, WV 25301
TELEPHONE: (304) 348-3092

J & J ENTERPRISES, INC.
Well Operator

BLANKET BOND

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, 5750 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 580 feet; salt, 1790 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	Kind
Conductor	11 3/4	H-40	42	X		30	30	0 sks.	None
Fresh water	8 5/8	ERW	23	X		1830	1830	400 sks.	
Coal	8 5/8	ERW	23	X		1830	1830	400 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5700	5700	350 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.

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 permit. **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 10-21-80.


Deputy Director Oil & Gas Division

The following conditions must be satisfied by the coal operator and by any coal owner or coal lessee who has not made 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