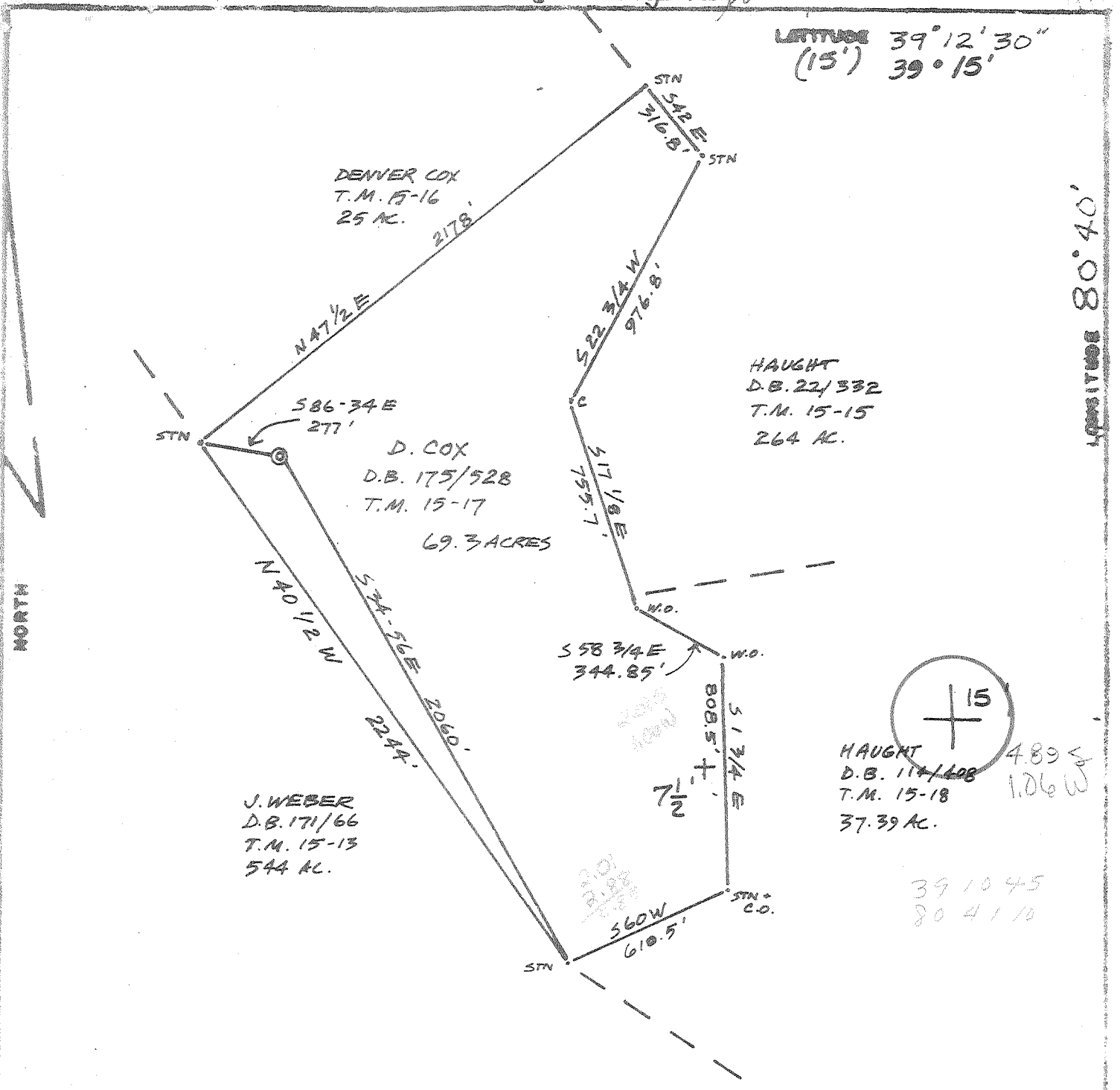


LATITUDE 39° 12' 30"
(15') 39° 15'



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.R. _____ L.L.S. 632

PLACE SEAL HERE

FILE NO K-510
DRAWING NO. 1
SCALE 1"=500'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION B.M. 823 (INTER. CARVER CAMP RT. 18)

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



DATE Aug 15
OPERATOR'S WELL NO K-510-21
API WELL NO. 47 017 - 2472
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 930 WATER SHED BATTEN RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON (7 1/2') VADIS 15' NW
SURFACE OWNER D. COX ACREAGE 69.34 AC.
OIL & GAS ROYALTY OWNER J.M.L. Smith LEASE ACREAGE 68
LEASE NO. K-510-21
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 5450
WELL OPERATOR JSE Enterprises Inc. ESTIMATED AGENT Harry Barrett AUG 24 1979
ADDRESS Box 48 Buckhannon W.V. 26201 ADDRESS Box 48 Buckhannon W.V. 26201

6-0 NEW MILTON S 307

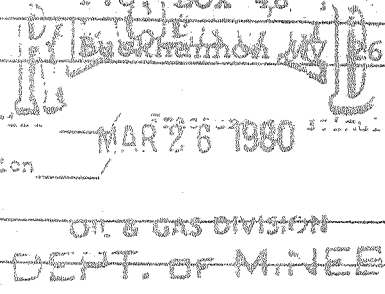
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT (2)
OF
DRILLING, REWORKING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil Gas Liquid Injection Waste Disposal
(If "Gas", Production Underground storage Deep Shallow
LOCATION: Elevation: 930' Watershed: Batten Run
District: New Milton County: Dodd Quadrangle: New Milton 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, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill Convert Drill deeper Redrill Stimulate
Plug off old formation Perforate new formation
Other physical change in well (specify) _____



PERMIT ISSUED ON 8-7, 19 79 OIL & GAS INSPECTOR FOR THIS WORK: Name Paul Garrett
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5255' Feet
Depth of completed well, 5496' feet Rotary Cable Tools
Water strata depth: Fresh, 65 feet; salt, 1450 feet.
Coal seam depths: 115-18 Is coal being mined in the area? No
Work was commenced 2-8, 19 80, and completed 2-15, 19 80

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	0	0 SKS	None
Fresh water	5/8"	ERW	23	X		1204	1204	310 SKS	
Coal	5/8"	ERW	23	X		1204	1204		Sizes
Intermediate									
Production	1/2"	J-55	10.5	X		5381	280 SKS		Depths set
Tubing									
Liners									Perforations:
									Top Bottom
									4536' 4538'
									5004' 5007'
									5296' 5304'

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5296-5304 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
Combined Final open flow, 240 Mcf/d Final open flow, _____ bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1450 psig (surface measurement) after 80 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson & Riley Pay zone depth 5004-5007 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 in reverse side.

DETAILS OF PERFORATED INTERVALS, FRACTURING OF PERFORATING, PHYSICAL DATA, ETC.

Alexander-Perforations; 5296'-5304' (17 Holes)

Fracturing: 500 Gal Acid; 20,000 lbs Sand 80/100 wire mesh;
30,000 lbs. Sand 20/40 wire mesh; 675 Bbls. Fluid.

Benson & Riley-Perforations: 5004-07 (7 Holes)

4536-38 (5 Holes)

Fracturing: 500 gal Acid; 20,000 lbs. Sand 80/100 wire mesh
30,000 lbs. Sand 20/40 wire mesh; 572 Bbls. Fluid.

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of gas, oil, salt water, etc.
Clay			0	15	
Sand			15	55	
Shale			55	90	
Red Rock & Shale			90	115	At 65' 1" stream water
Coal			115	118	Coal
Shale			118	220	
Red Rock & Shale			220	580	
Sand			580	765	
Red Rock & Shale			765	875	
Shale			875	1025	
Red Rock & Shale			1025	1256	
Shale			1256	1500	Hole wet @ 1450'
Sand			1500	1665	
Shale			1665	1720	
Sand			1720	1770	
shale			1770	2030	
Sand			2030	2055	
Big Lime			2055	2116	
Big Injun			2116	2204	
Shale			2204	2555	
Sand			2555	2590	
Shale			2590	2625	
Sand			2625	2660	
Shale			2660	3300	Gas @ 3080' 12/10 thru 1.1/2" w/water
Sand			3300	3360	
Shale			3360	3640	
Sand			3640	3700	
Shale			3700	4060	Gas @ 3980' 16/10 thru 1 1/2" w/water
Sand			4060	4110	
Shale			4110	4265	
Shale			4265	4350	Gas @ 4259 18/10 thru 1 1/2" w/water

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

Well Operator

By Peter Battles
Geologist

API: Regulation 2.32(d) provides as follows:

"The term 'log' on 'well log' shall mean a systematic, detailed, graphical record of all formations, including coal, encountered in the drilling of a well."

Sandy Shale
Riley
Sandy & Shale

Benson
Sand & Shale
Alexander
Shale

4350
4530
4550

5002
5008
5255
5364
5364

4530
4550
5002

5008
5255
5364
5496

Gas @ 5000' 10/10 thru 1 1/2"
w/water

T.D. 5496'

APR 28 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-510-#1
API Well No. 47-017-2472
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 930 Watershed: Batten Run
District: New Milton County: Doddridge Quadrangle: New Milton 7 1/2

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

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

OIL & GAS ROYALTY OWNER J.M.L. Smith
Address West Union
West Virginia

COAL OPERATOR None
Address _____

ACREAGE 68
SURFACE OWNER D. Cox
Address Rt. 1,
New Milton, W.Va.
ACREAGE 68

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name J.M.L. Smith
Address West Union
West Virginia

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

Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

RECEIVED
AUG 17 1979

The undersigned well operator is entitled to operate for oil and gas at the above location under a deed ___ / lease X / other contract ___ / dated November 30, 1978, to the undersigned well operator from J.M.L. Smith

[If said deed, lease, or other contract has been recorded:]
Recorded on November 30, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease 106 at page 301. 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
600 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

J & J Enterprises, Inc.
Well Operator
By Steve Battler
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, 5450 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	11 3/4	H-40	42	X		30'	30'	30	Kinds
Fresh water	8 5/8	ERW	23	X		1200'	1200'	270	
Coal	8 5/8	ERW	23	X					Sizes
Intermediate									
Production	4 1/2	J-55	9.5	X		5350'	5350'	400	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 in the declaration 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 4-17-80.


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