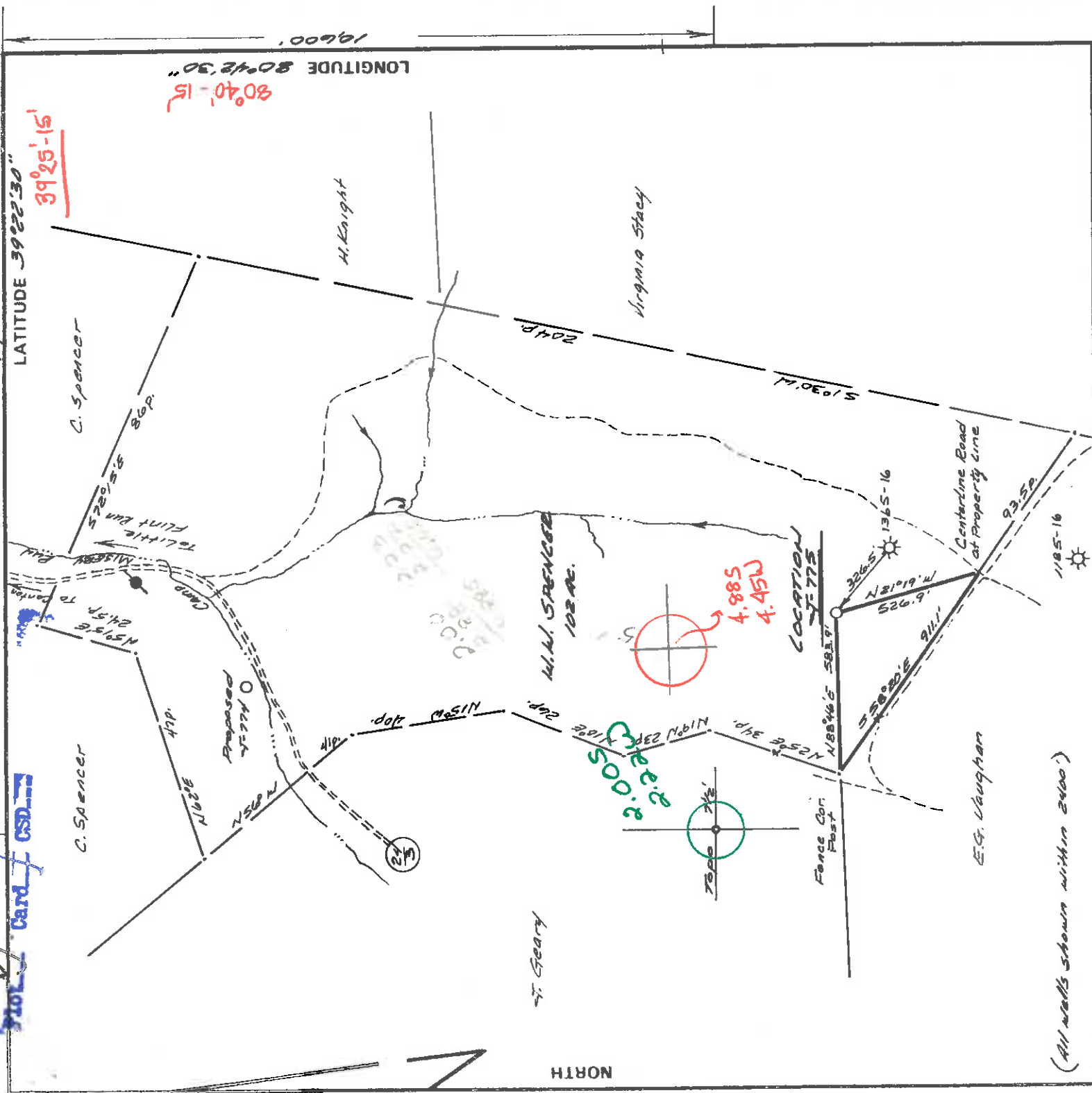


State Card 1050

LATITUDE 39°22'30"

39°25'-15'

LONGITUDE 80°42'30"
80°40'-15"



(All wells shown within 2400')

FILE NO. 346.01
 DRAWING NO. 83-49
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION V-772 Elev 815' NE of location.

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) Richard S. Antkowiak
 R.P.E. Buckhannon, W.V. 26201

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE March 22, 1983
 OPERATOR'S WELL NO. V-775
 API WELL NO. 47-017-3250

STATE WV COUNTY Putnam PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL

LOCATION: ELEVATION 1213' WATER SHED Camp Quarry Run
 DISTRICT Grant COUNTY Dodridge, W.V.

QUADRANGLE Smithburg ACREAGE 102
 SURFACE OWNER W.M. Spencer
 OIL & GAS ROYALTY OWNER W.W. Spencer LEASE ACREAGE 102

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 Benson ESTIMATED DEPTH 5200'
 WELL OPERATOR V-T Enterprises, Inc. DESIGNATED AGENT Richard Renscher
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201



RECEIVED

MAY 2 - 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date April 30, 1985
Operator's Well No. JK-775
Farm Spencer
API No. 47 - 017 - 3250

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

TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / Shallow x /
(If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1243 Watershed Camp Misery Run
District: Grant County Doddridge Quadrangle Smithburg

ANY J&J Enterprises, Inc.
ADDRESS P.O. Box 48, Buckhannon, WV 26201
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201
FACE OWNER W.W. & Imla C. Spencer
ADDRESS Rt. # 3, Box 108, New Cumberland, WV 26047
LEGAL RIGHTS OWNER Same as surface
ADDRESS _____
AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Rt. # 2, Box 232-D, Jane Lew, WV 26378

Casing Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Conn.			
13-10"	158.20	158.20	0 sks.
9 5/8	1801.05	1801.05	275 sks.
8 5/8			
7			
5 1/2			
4 1/2	5400.30	5400.30	205 sks.
3			
2			
Liners used			

LOGICAL TARGET FORMATION Benson Depth 5218-20 feet
Depth of completed well 5750 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 1640 feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Benson Pay zone depth 5218-20 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 539 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1525 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Secondary producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: 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

MAY 13 1985

maintain on reverse side

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

Benson: Perforations: 5218-20 (8 holes)
Fracturing: 500 sks. 20/40 sand; 565 Bbls. fluid.

BOTTOM HOLE PRESSURE PF=Pwe XGLS

$t=60 + (0.0075 \times 5400) + 459.7 = 560$ $X=53.35 \times 560 = 29867$ $= 0.000033$ $PF=1525 \times 2.72$

$(0.000033) (0.765) (5219) (0.9) = 1525 \times 2.72$ $0.1 = 1525 \times 1.1$

Pf=1678 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay			0	3	
Sandy shale & sand			3	110	Damp @ 1620'
Sandy shale & red rock			110	535	
Sandy shale & red rock			535	885	1/2" stream @ 1640
Sandy shale & shale			885	1155	
Sandy shale & sand			1155	1555	Damp @ 2335
Sand & sandy shale			1555	1660	
Shale & sand			1660	2015	Gas ck @ 2446 No show
Sand & Limey sand			2015	2230	
Big Lime & Injun			2230	2415	Gas ck @ 3022 No show
Sandy shale			2415	2490	
Sand & sandy shale			2490	3015	Gas ck @ 5270 No show
Sand & sandy shale			3015	4300	
Sand & sandy shale			4300	5010	Gas ck @ 5398 No show
Sand & sandy shale			5010	5218	
Benson			5218	5220	Gas ck 2 tubs down
Shale			5220	5340	9/10-1" w/water
Lt color sand			5340	5345	23,592 cu.ft.
Sand & shale			5345	5610	
Alexander			5610	5670	
Sandy shale			5670	5750	

T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:

Robert Dahlin - Geologist

Date: 4/30/85

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

1) Date: July 19, 19 83
 2) Operator's Well No. J-775
 3) API Well No. 47 - 017 - 3250



DRILLING CONTRACTOR:
 S.W. Jack Drilling Company
 P.O. Box 48
 Buckhannon, WV 26201

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

4) WELL TYPE: A Oil Gas
 B (If "Gas", Production
 5) LOCATION: Elevation: 1243 Undergrnd storage Deep Shallow
 District: Grant Watershed: Camp Misery Run
 County: Doddridge Quadrangle: Smithburg

6) WELL OPERATOR J&J Enterprises, Inc
 Address P.O. Box 48
 Buckhannon, WV 26201
 11) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48
 Buckhannon, WV 26201

7) OIL & GAS ROYALTY OWNER W.W. Spencer C/O Imla C. Spencer
 Address Rt. # 3, Box 108
 New Cumberland, WV 26047
 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 8) SURFACE OWNER W.W. Spencer C/O Imla C. Spencer
 Address Rt. # 3, Box 108
 New Cumberland, WV 26047
 Name W.W. Spencer C/O Imla C. Spencer
 Address Rt. # 3, Box 108
 New Cumberland, WV 26047

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

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

15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation

16) GEOLOGICAL TARGET FORMATION, Benson
 17) Estimated depth of completed well, 5200 feet
 18) Approximate water strata depths: Fresh, 1795 feet; salt, 0 feet.
 19) Approximate coal seam depths: 0 feet. Is coal being mined in the area? Yes No

20) 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		
Conductor	11 3/4	H-40	42	X		0	0 sks.
Fresh water	8 5/8	ERW	23	X		1300	To surface
Coal	8 5/8	ERW	23	X		1300	To surface
Intermediate							
Production	4 1/2	J-55	10.5	X		5150	250 sks.
Tubing							
Liners							

21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)
 24) 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.

Notary: [Signature]
 My Commission Expires 11/11/1983
 Signed: [Signature] Designated Agent
 Its: [Signature] Designated Agent

Permit number 47-017-3250 OFFICE USE ONLY
DRILLING PERMIT
 Date September 19, 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires September 19, 1985 unless drilling is commenced prior to that date and prosecuted with due diligence.
 Bond: TS Agent: TS Plat: TS Casing Fee: TS

NOTE: Keep one copy of this permit posted at the drilling location.
 Administrator, Office of Oil and Gas

