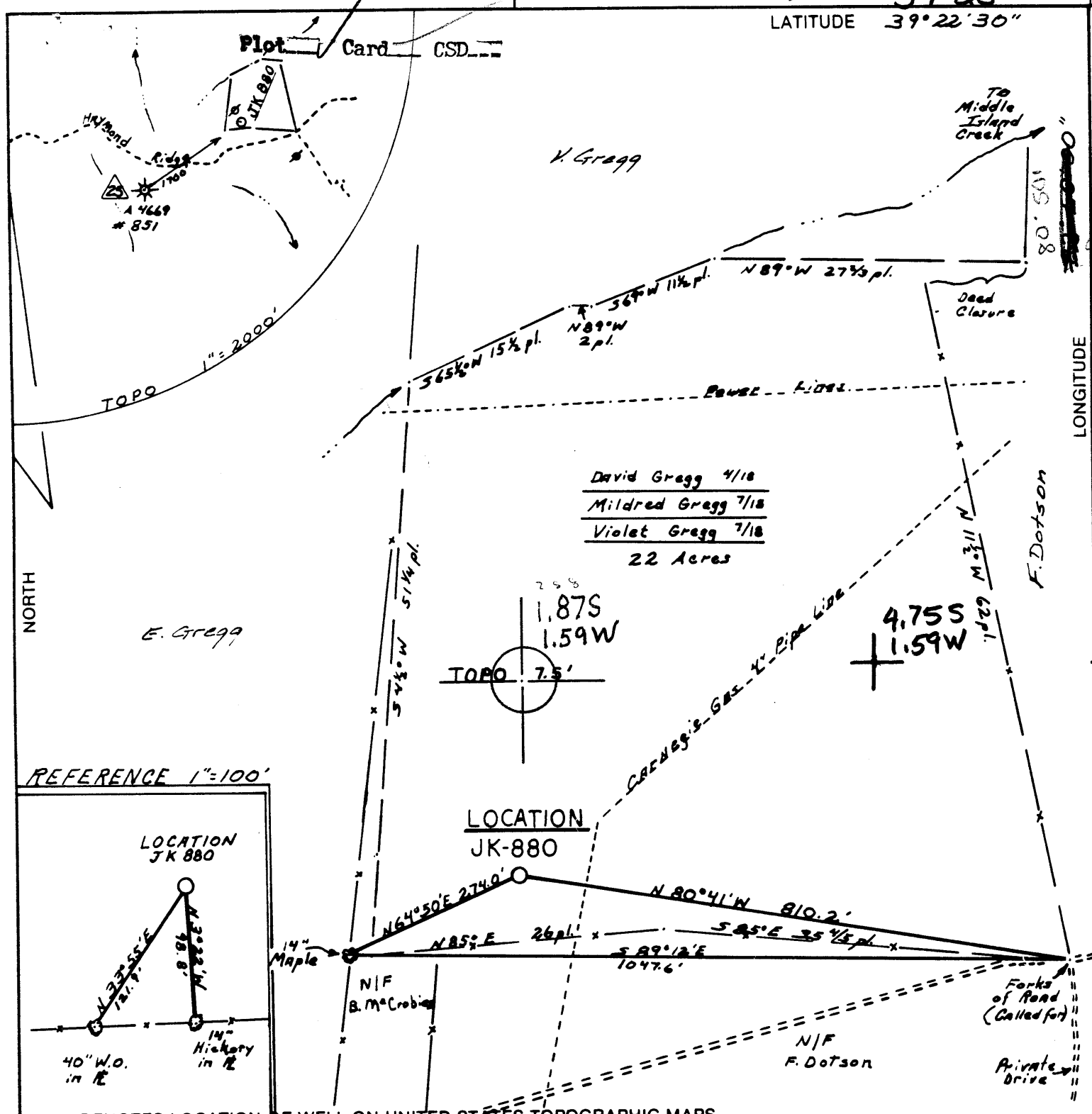
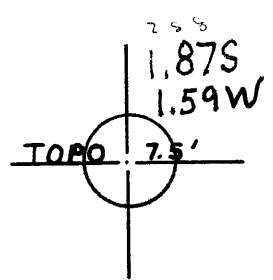


8350' 39 25" LATITUDE 39°22'30"

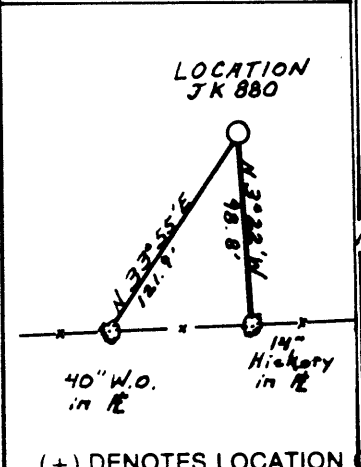
Plot Card CSD



David Gregg 4/18
Mildred Gregg 7/18
Violet Gregg 7/18
22 Acres



REFERENCE 1"=100'



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 346.01
DRAWING NO. 84-12
SCALE 1" = 200'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION Spot Elev. 1088 Hill Top South 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. Redcliffe
R.P.E. _____ L.I.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 1 FEBRUARY, 19 84
OPERATOR'S WELL NO. J-880
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1123' WATER SHED MIDDLE ISLAND CREEK
DISTRICT CENTERTVILLE COUNTY TYLER
QUADRANGLE 61 WEST UNION 15' 132 C. 5
SURFACE OWNER David Gregg 1/8; Mildred Gregg 1/8; Violet Gregg 1/8 ACREAGE 22
OIL & GAS ROYALTY OWNER Eugene Hill, 1/2; Jack Hill, 1/2 LEASE ACREAGE 22
LEASE NO. JT 1496

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 5250'
WELL OPERATOR J&T ENTERPRISES, INC. 427 DESIGNATED AGENT RICHARD REDECLIFF
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, W.Va. 26201 Buckhannon, W.Va. 26201

MAR 26 1984

FORM IV-6 (8-78) H.T. HALL

COUNTY NAME PERMIT

RECEIVED

AUG 22 1984



IV-35 (Rev 8-81)

OIL & GAS DIVISION DEPT. OF MINES State of West Virginia Department of Mines Oil and Gas Division

Date August 20, 1984 Operator's Well No. JK-880 Farm David C. Gress API No. 47 - 095 - 1059

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

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

LOCATION: Elevation: 1123 Watershed Middle Island Creek District: Centerville County Tyler Quadrangle West Union

COMPANY J&J Enterprises, Inc.

ADDRESS P.O. Box 48, Buckhannon, WV 26201

DESIGNATED AGENT Richard Reddecliff

ADDRESS P.O. Box 48, Buckhannon, WV 26201

SURFACE OWNER David C. Gregg

ADDRESS Star Route, Middlebourne, WV 26149

MINERAL RIGHTS OWNER Eugene & Jack Hill

ADDRESS 1901 Kilmer Drive, Placentia, CA

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Gen. Del, Middlebourne, WV 26149

PERMIT ISSUED 3/23/84

DRILLING COMMENCED 7/16/84

DRILLING COMPLETED 7/22/84

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

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Alexander Depth 5294-5309 feet

Depth of completed well 5995 feet Rotary x / Cable Tools

Water strata depth: Fresh 190,725 feet; Salt 0 feet

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

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 5917-23 feet

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

Combined Final open flow 1,100 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 hours shut in (If applicable due to multiple completion--)

Second producing formation Alexander, Benson, Rile Pay zone depth 4998-5000 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

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

Rhinestreet
Devonian Shale: Perforations: 5917-23 (14 holes)
 Fracturing: 200 sks. 20/40 sand:549 Bbls. fluid.
Alexander: Perforations: 4998-5000 (8 holes)
 Fracturing: 275 sks. 20/40 sand:500 gal. acid: 427 Bbls. fluid.
Benson: Perforations: 4998-5000 (8 holes) Fracturing: 275 sks. 20/40 sand:500 gal. acid:477 Bbls. fluid.
Riley: Perforations: 4595-98 (3 holes) 4605-07 (7 holes) 4624-25 (5 holes)
 Fracturing: 185 sks. 20/40 sand:500 gal. acid: 455 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe^{XGLS}

$$t=60 + (0.0075 \times 5983) + 459.7 = 565 \quad X=53.35 \times 565 = 30120 = 0.000033 \quad Pf=1525 \times 2.72^{(0.000033)} (0.000033) (0.000033)$$

$$(5259) (0.9) = 1525 \times 2.72^{0.1} = 1525 \times 1.1$$

Pf=1678 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh water, salt water, coal, oil and gas
Fill, sand & shale			0	40	Damp @ 190'
Sand & shale			40	180	
Sand & Shale			180	370	1/4" stream @ 725'
Red rock & shale			370	900	
Sand & shale			900	1975	Gas ck @ 2289 No show
Big Lime			1975	2055	
Big Injun			2055	2154	Gas ck @ 3028 2/10-1" w/water
Sand & shale			2154	4595	10,850 cu.ft.
Riley			4595	4607	
Sand & shale			4607	4998	Gas ck @ 3551 No show
Benson			4998	5000	
Sand & shale			5000	5294	Gas ck @ 4658 26/10-1" w/water
Alexander			5294	5309	38,400 cu.ft.
Sand & shale			5309	5917	
Devonian Shale			5917	5923	Gas ck @ 5056 24/10-1" w/water
Sand & shale			5923	5995	36,593 cu.ft.
				T.D.	
				<u>Rhinestreet</u>	Gas ck @ 5336 22/10-1" w/water
				Ⓢ T.D.	35,313 cu.ft
					Gas ck @ collars 12/10-1" w/water
					25,087 cu.ft.

(Attach separate sheets as necessary)

J&J Enterprises, INC.
 Well Operator
 By: [Signature] Robert Dahlin-Geologist
 Date: 8/20/84

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 those encountered in the drilling of a well."



1) Date: February 29, 1984
 2) Operator's Well No. J-880
 3) API Well No. 47 - 095 - 1059
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow /)
- 5) LOCATION: Elevation: 123 Watershed: Middle Island Creek
 District: Centerville County: Tyler Quadrangle: West Union
- 6) WELL OPERATOR J&J Enterprises, Inc. 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Robert Lowther Name S.W. Jack Drilling Company
 Address Gen. Delivery Address P.O. Box 48
Middlebourne, WV 26149 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5250 feet
 13) Approximate trata depths: Fresh, 205 feet; salt, 0 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes

RECEIVED
 MAR 2 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

15) 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	85/8	ERW	23	x		1200	1200	To surface	by rule 15.05 Size
Coal	85/8	ERW	23	x		1200	1200	To surface	
Intermediate									
Production	4 1/2	J-55	10.5	x		5400	5400	350 sks.	Depths set
Tubing								Or as req. by rule	Perforations: 15.01 Top Bottom
Liners									

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-095-1059 Date March 23, 1984

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires March 23, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond BLANKET	Agent: <u>[Signature]</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>145.5</u>
---------------------	---------------------------	-----------------	-------------------	-------------------

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File