

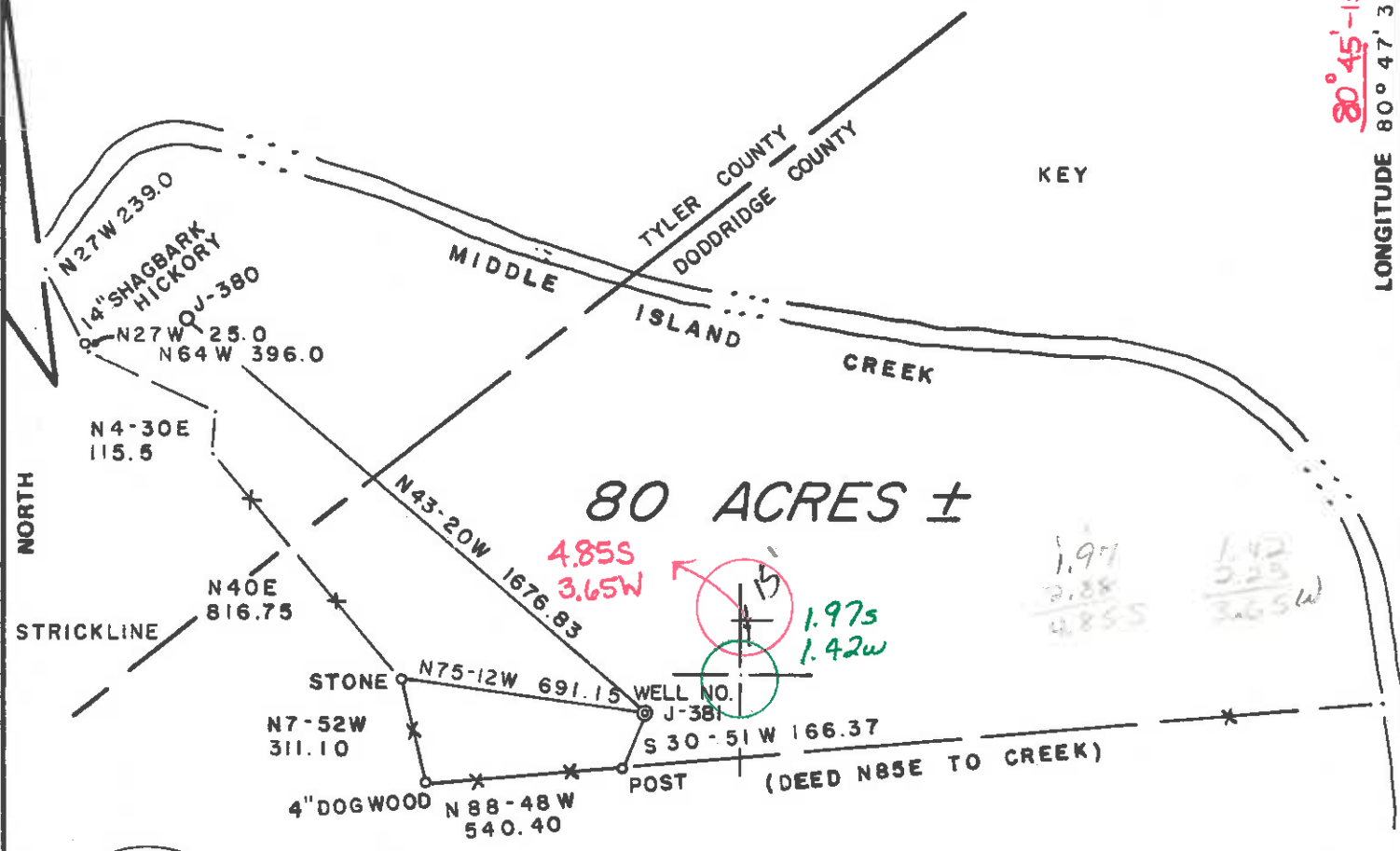
Plot Card 150

LATITUDE 39° 22' 30"

39° 25' - 15"

WELL NO. J-381

LONGITUDE 80° 47' 30"
80° 45' - 15"



80 ACRES ±

GARDNER LEASE

JOSEPH

FILE NO. 11-29
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION WELL 47-95-870
ELEV. 790

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677

PLACE SEAL HERE

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

FORM IV-6 (8-78)



DATE JULY 28, 19 83
 OPERATOR'S WELL NO. J-381
 API WELL NO. _____
47 - 017 - 3257
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW X
 LOCATION: ELEVATION 887 WATERSHED MIDDLE ISLAND CREEK
 DISTRIC WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5 415' EC

OCT 16 1983

SURFACE OWNER Margaret Thomas ACREAGE 80
 OIL & GAS ROYALTY OWNER ZETTA B. GARDNER LEASE ACREAGE 80
 LEASE NO. _____ PS 10

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 5500
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGEN RICHARD REDDACLIFF
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WV. 26201 BUCKHANNON, WV. 26201

6-6 wilbur (92)

IV-35
(Rev 8-81)



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State of West Virginia
Department of Mines
Oil and Gas Division
WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date March 20, 1984
Operator's J-381
Well No. Margaret Thomas
Farm 47 - 017 - 3257
API No. 47 - 017 - 3257

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

LOCATION: Elevation: 887 Watershed Middle Island Creek
District: West Union County Doddridge 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 Margaret Thomas
ADDRESS 2801 Emerson Ave. Apt. 25, Parkersburg, WV 26101
MINERAL RIGHTS OWNER Izetta Gardner
ADDRESS Rt. # 1, Greenwood, WV 26360
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey
ADDRESS Rt. #2, Box 232-D, Jane Lew, WV 26378
PERMIT ISSUED 10/7/83 26378
DRILLING COMMENCED 2/13/84
DRILLING COMPLETED 2/18/84
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1453.15	1453.15	375 sks.
7			
5 1/2			
4 1/2	4919.30	4919.30	175 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth feet
Depth of completed well 4975 feet Rotary x / Cable Tools
Water strata depth: Fresh 95' feet; Salt 0 feet
Coal seam depths: 4-5, 1430-35 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4781-84 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 660 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1675 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4362-64 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

MAR 22 1984

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

Benson: Perforations: 4781-84 (7 holes) Riley: Perforations: 4362-64 (3 holes)
Fracturing: 50,000 lbs. 20/40 sand: 780 lbs. Acid: 620 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we} \frac{XGLS}{I}$
 $t=60 + (0.0075 \times 4919) + 459.7 = 557$ $X = 53.35 \times 557 = 29716$ $= 0.000034$ $P_f = 1675 \times 2.72$ (0.000034)
 $(0.661)(4173)(0.9) = 1675 \times 2.72^{0.084} = 1675 \times 1.09 =$
 $P_f = 1826$ psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	4	
Coal			4	5	Damp @ 95'
Sand & shale			5	90	
Sandy shale, sand & red rock			90	475	Gas ck @ 1984 No show
Sand, shale & red rock			475	725	
Sand, shale & red rock			725	840	Gas ck @ 2232 No show
Sand & shale			840	1350	
Sandy shale			1350	1430	Gas ck @ 2603 NO show
Coal			1430	1435	
Black shale			1435	1450	Gas ck @ 4431 2/10-1" w/water
Sand & shale			1450	1760	10,850 cu. ft.
Big Lime & Injun			1760	1930	
Shale & sand			1930	2280	Gas ck @ 4831 85/10-1" w/water
Sand & shale			2280	3180	69,431 cu.ft.
Sand & shale			3180	4362	
Riley			4362	4364	
Sand & shale			4364	4781	
<u>Benson</u>			4781	4784	
Sand & shale			4784	4975	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: BT Rabin

Date: 3/20/84

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 soil, encountered in the drilling of a well."



1) Date: September 8, 19 83
 2) Operator's Well No. J-381
 3) API Well No. 47 - 017 - 3257
 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 x /
 B (If "Gas", Production x / Underground storage / Deep / Shallow x /)
- 5) LOCATION: Elevation: 887 Watershed: Middle Island Creek
 District: West Union County: Doddridge Quadrangle: West Union
- 6) WELL OPERATOR J&J Enterprises, Inc.
 Address P.O. Box 48
Buckhannon, WV 26201
- 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48
Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey
 Address Rt. # 2, BOX 232-D
Jane Lew, WV 26378
- 9) DRILLING CONTRACTOR:
 Name S.W. Jack Drilling Company
 Address P.O. Box 48
Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill x / Drill deeper / Redrill / Stimulate x /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Alexander
 12) Estimated depth of completed well, 5400 feet
 13) Approximate strata depths: Fresh, 120 feet; salt, 0 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No x /

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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	1 13/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1500	1500	375 sks.	
Coal	8 5/8	ERW	23	x		1500	1500	375 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5350	5350	300 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3257 Date October 7, 19 83

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 October 7, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
ANKIT BOND	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	1311

[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