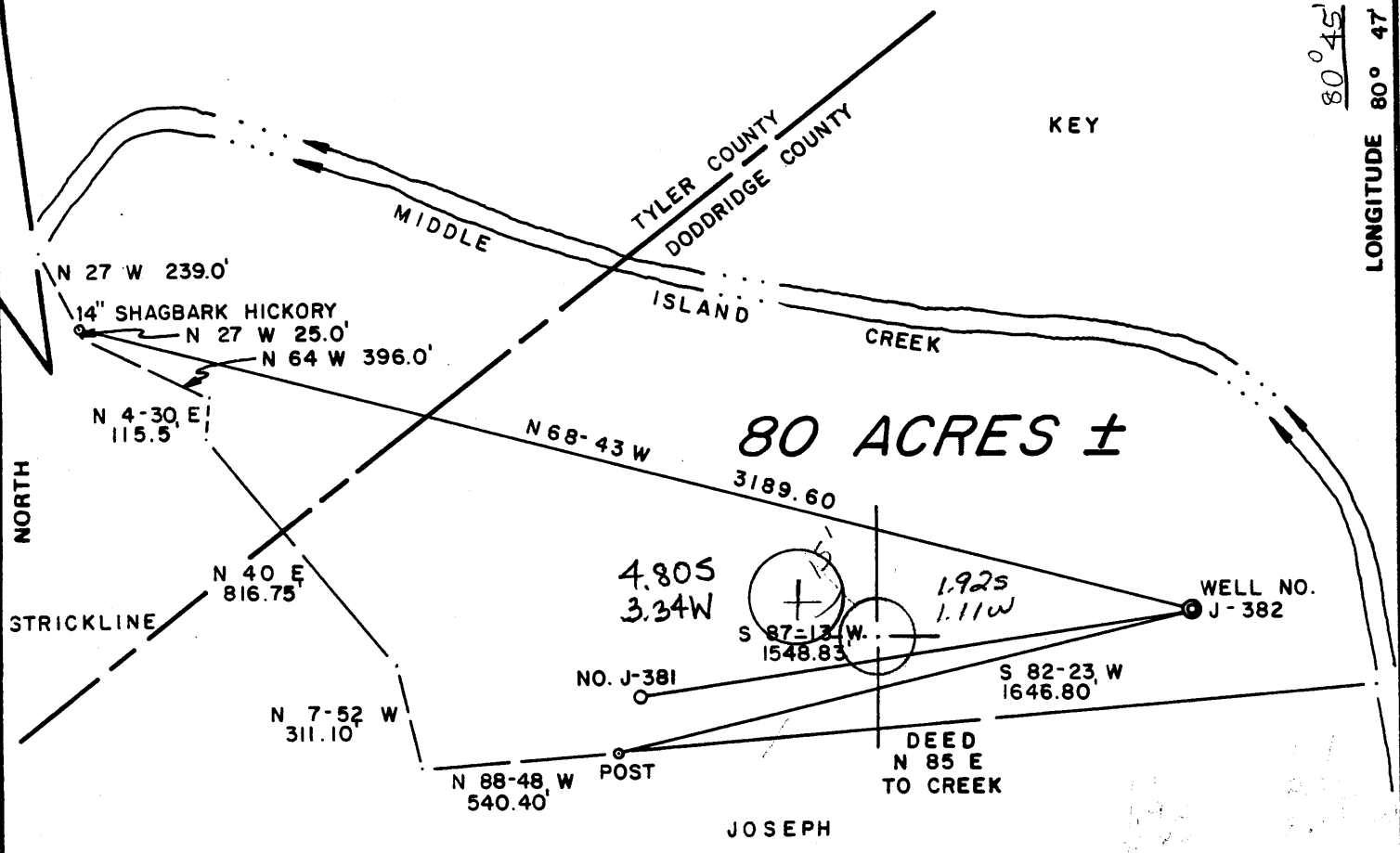


NO WELLS SHOWN
WITHIN 1200' FEET

WELL NO. J-382

LONGITUDE 80° 45' -15"
80° 47' 30"
10,160



GARDNER LEASE

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 AUGUST 1, 1983
 OPERATOR'S WELL NO. J-382
 API WELL NO. 47-017-3256
 STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT 1016

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 760 WATER SHED MIDDLE ISLAND CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5-9.15 EC
 SURFACE OWNER IZETTA B. GARDNER ACREAGE 80
 OIL & GAS ROYALTY OWNER IZETTA 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 5350
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDA CLIFF
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, W.V. 26201 BUCKHANNON, W.V. 26201

OCT 16 1983

IV-35
(Rev 8-81)

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OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date March 20, 1984
Operator's Well No. J-382
Farm Margaret Thomas
API No. 47 - 017 - 3256

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 x /)

LOCATION: Elevation: 760 Watershed Middle Island Creek
District: West Union County Doddridge Quadrangle West Union 7.5

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 E. Thomas
ADDRESS 2801 Emerson Ave. Apt. 35, 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
DRILLING COMMENCED 2/20/84
DRILLING COMPLETED 2/25/84
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	4794.60	4794.60	190 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth feet
Depth of completed well 4850 feet Rotary x / Cable Tools
Water strata depth: Fresh 60 feet; Salt 0 feet
Coal seam depths: 480-85, 1255-60 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4672-76 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow (696) Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1550 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)

Second producing formation Riley Pay zone depth 4250-52 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

APR 2 1984

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

Riley: Perforations: 4250-52 (4 holes) 4266-68 (4 holes) 4275-76 (2 holes)
 Fracturing: 30,000 lbs. 20/40 sand: 500 gal. acid: 515 Bbls. fluid.

Benson: Perforations: 4672-76 (14 holes)
 Fracturing: 45,000 lbs. 20/40 sand: 500 gal. Acid: 440 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe XGLS

$$t=60 + (0.0075 \times 4795) + 459.7 = 556 \quad X = \frac{1}{53.35} \times 556 = \frac{1}{29645} = 0.000034 \quad Pf=1550 \times 2.72^{(0.000034)}$$

$$(0.661)(4464)(0.9) = 1550 \times 2.72^{0.09} = 1550 \times 1.09$$

Pf=1690 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 & shale			0	15	
Sand & shale			15	80	1 1/2" stream @ 60'
Shale & sand			80	480	
Coal			480	485	Gas ck @ 1830 60/10-1" w/water 58,383 cu.ft.
Sand, shale & red rock			485	510	
Shale & red rock			510	620	
Sand, shale & red rock			620	745	Gas ck @ 3130 40/10-1" w/water 47,629 cu.ft.
Sand & shale			745	870	
Shale & sand			870	1255	
Shale & coal			1255	1260	Gas ck @ 4339 120/10-1" w/water 115.46 cu.ft.
Shale & sand			1260	1510	
Lime & shale			1510	1550	
Red rock			1550	1600	Gas ck @ 4741 40/10-2" w/water 267,000 cu.ft.
Big Lime			1600	1675	
Injun			1675	1770	
Sand & shale			1770	1930	Gas ck @ collars 40/10-1" w/water 47,629 cu.ft.
Sand & shale			1930	2665	
Sand & shale			2665	4250	
Riley			4250	4252	
Sand & shale			4252	4672	
Benson			4672	4676	
Sand & shale			4676	4850	
				T.D.	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: Bob D. Dill

Date: 5/20/84

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 sand, encountered in the drilling of a well."

FILE COPY



1) Date: September 8, 19 83
 2) Operator's Well No. J-382
 3) API Well No. 47 - 017 - 3256
 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: 760 Watershed: Middle Island Creek
 District: West Union County: Doddridge Quadrangle: West Union 7.5
- 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 / 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, 5400 feet
- 13) Approximate trata depths: Fresh, 120 feet; salt, 0 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No

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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	113/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	85/8	ERW	23	x		1500	1500	375 sks.	
Coal	85/8	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 47-017-3256 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:
	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	1312

[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