



FILE NO. 18-5
 DRAWING NO. M.P.
 SCALE 1"=400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV.=1368'

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM WW 6 (8-78)



DATE MAY 4, 19 85
 OPERATOR'S WELL NO. JK-1188
 API WELL NO. _____
47 - 085 - 7430
 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 1200' WATER SHED MARSH RUN
 DISTRICT CLAY 1 COUNTY RITCHIE
 QUADRANGLE PENNSBORO 7.5' 539 133 W.M.

SURFACE OWNER DOLPH HICKMAN ACREAGE 34 1/4
 OIL & GAS ROYALTY OWNER PRUDENCE IRENE WILSON ROBINSON et al. LEASE ACREAGE 35
 LEASE NO. JK-361

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 RHINE STREET 421 ESTIMATED DEPTH 5995'
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

AUG 19 1985



IV-35
(Rev 8-81)

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JAN 02 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date December 30, 1986
Operator's
Well No. JKS-1188
Farm Robinson
API No. 47 - 085 - 7430

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: 1200 Watershed Marsh Run
District: Clay County Ritchie Quadrangle Pennsboro 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 Dolph Hickman

ADDRESS Rt. # 2, Pennsboro, WV 26415

MINERAL RIGHTS OWNER Prudence Robinson

ADDRESS N/A

OIL AND GAS INSPECTOR FOR THIS WORK Samuel Hersman
ADDRESS P.O. Box 66 Smithville, WV 26178

PERMIT ISSUED 8/15/86

DRILLING COMMENCED 11/18/86

DRILLING COMPLETED 11/22/86

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	1417.7	1417.7	320 sks.
7			
5 1/2			
4 1/2	5409.51	5409.51	300 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine Street Depth feet

Depth of completed well 5527 feet Rotary x / Cable Tools

Water strata depth: Fresh 130,1635 feet; Salt 0 feet

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

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5354-56 feet

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

Final open flow 984 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1500 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson & Riley Pay zone depth 5060-62 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

JAN 12 1987

(Continue on reverse side)

(REVERSE)

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

Alexander: Perforations: 5354-56 (14 holes)
 Fracturing: 400 sks. 20/40 sand: 570 Bbls. fluid.
 Benson: Perforations: 5060-62 (14 holes)
 Fracturing: 550 sks. 20/40 sand: 500 gal. acid: 580 Bbls. fluid.
 Riley: Perforations: 4668-71 (13 holes)
 Fracturing: Foam frac w/N₂

BOTTOM HOLE PRESSURE Pf=Pwe XGLS

$$t=60 + (0.0075) \times 5410 + 459.7 = 560 \quad X = \frac{1}{53.35 \times 560} = \frac{1}{29876} = 0.000033 \quad Pf=1500 \times 2.72 (0.000033)$$

$$(0.672) (5012) (0.5) = 1500 \times 2.72^{0.1} = 1500 \times 1.1$$

WELL LOG

Pf= 1650 psi

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
KB & Ground Level			0	10	
Red rock & sand			10	40	
Red rock & sand			40	200	Wet @ 130'
Sand, shale & red rock			200	420	
Sand, red rock & shale			420	960	Damp @ 1635'
Red rock, sand & shale			960	1520	
Sand & shale			1520	1610	Damp @ 2120'
Sand & shale			1610	1995	
Big Lime & Injun			1995	2150	Gas ck @ 3346 2/10-1" w/water 60,000 cu.ft.
Shale & sand			2150	2200	
Sand & shale			2200	2450	
Sand & shale			2450	3190	Gas ck @ 4927 4/10-1" w/water 84,000 cu.ft..
Sand & shale			3190	4668	
Riley			4668	4671	
Sand & shale			4671	5060	Gas ck @ 5527 20/10-1" w/water 159,000 cu.ft.
Benson			5060	5062	
Sand & shale			5062	5354	
Alexander			5354	5356	Gas ck @ Drill Collars 20/10- 1" w/water 159,000 cu.ft.
Sand & shale			5356	5527	
				T.D.	

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JAN 02 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:

Date:

12/30/86

Robert Dahlin - Geologist

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
 coal, encountered in the drilling of a well."

