

CODE

CARD

PLOT

1140'

LATITUDE 39-17-30
39'20

MASON - HILL LEASE

76 ACRES ±

HOLLAND

ANTHOS

OMITTED CALL

S54-30 E 301.95'

N38 E 1641.75'

30.3 ACRE TRACT

14.7 ACRE TRACT

S19-30W 1270.5'

CAHOUN

50

DOTSON

50

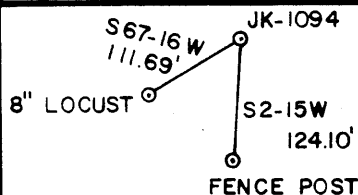
RUN HART

S1-30 E 309.54'

4.775
2.43W



REFERENCES



1" = 200'

ANTHOS

N17-30 E 1391.45'

30.6 ACRE TRACT

JK-1094

S21-20 W 650.44'

S3-51 W 1107.69'

S42-10 W 363'

S23 W 490.05'

HART

N87-15 W 184.8'

N87-30 W 442.2'

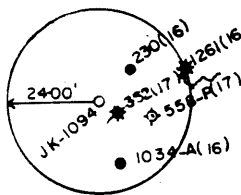
60-P NAIL

N18-00 W 525.03'

S41 W 470.25'

S53-45 W 188.1'

18" SCARLET OAK



WELL NO. JK-1094

FILE NO. 15-25
DRAWING NO. _____
SCALE 1" = 600'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV. 1307'

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 OCTOBER 9, 1984
OPERATOR'S WELL NO. JK-1094
API WELL NO. _____
47 - 017 - 3395
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 1010 WATER SHED DOTSON RUN
DISTRICT CENTRAL COUNTY DODDRIDGE
QUADRANGLE PENNSBORO 7.5' 539 West Union 15' SC 8
SURFACE OWNER DENSIL L. HART ACREAGE 29.28
OIL & GAS ROYALTY OWNER S.B. & SAMUEL McMILLAN HEIRS, ET AL. LEASE ACREAGE 76
LEASE NO. JJ-1548

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

JAN 14 1985

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5600'
WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
427 BUCKHANNON, WV. 26201 BUCKHANNON, WV. 26201

LONGITUDE 80-52-30
9910'

NORTH

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MAR 21 1985

State of West Virginia

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

Date March 19, 1985
Operator's Well No. JK-1094
Farm McMillian Heirs
API No. 47 - 017 - 3395

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

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

LOCATION: Elevation: 1010 Watershed Dotson Run
District: Central County Doddridge 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 Densil L. Hart
ADDRESS Rt. # 1, Box 1, Greenwood, WV 26360
GENERAL RIGHTS OWNER S.B. & Samuel McMillian Hrs.
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. # 2, Box 114, Salem, WV 26426
PERMIT ISSUED 1/7/85
DRILLING COMMENCED 2/18/85
DRILLING COMPLETED 2/23/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR WORKING. VERBAL PERMISSION OBTAINED

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Conf.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1632.95	1632.95	345 sks.
7			
5 1/2			
4 1/2	5376.20	5376.20	26 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5202-18 feet
Depth of completed well 5975 feet Rotary x / Cable Tools
Water strata depth: Fresh 140 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 5202-18 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 852 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 10 hours
Static rock pressure 1650 psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson Pay zone depth 4911-13 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 01 1985

(Continue on reverse side)

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

Alexander: Perforations: 5202-09 (12 holes) 5216-18 (4 holes)
 Fracturing: 450 sks. 20/40 sand: Foam frac.
 Benson: Perforations: 4911-13 (8 holes)
 Fracturing: 450 sks. 20/40 sand: foam frac.

BOTTOM HOLE PRESSURE Pf=PweXGLS

$$t=60 + (0.0075 \times 5376) + 459.7 = 560 \quad x = \frac{1}{53.35 \times 560} = \frac{1}{29877} = 0.000033 \quad Pf=1650 \times 2.72^{(0.000033 \times 5376)}$$

$$(0.698)(5065)(0.9) = 1650 \times 2.72^{0.1} = 1650 \times 1.1$$

Pf=1815 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of and salt water, coal, oil
Fill & Shale			0	10	
Shale & sand			10	110	1/2" stream @ 140'
Red rock & sandy shale			110	170	
Sand & red rock			170	290	Gas ck @ 2103 No show
Red rock & sandy shale			290	1300	
Sand & sandy shale			1300	1520	Gas ck @ 2627 6/10-2" w/
Sand & sandy shale			1520	1920	103,000 cu.ft.
Little Lime			1920	1930	
Sandy shale			1930	1960	
Big Lime			1960	2025	Gas ck @ 3432 No show
Sand & sandy shale			2025	2285	
Sand & sandy shale			2285	4455	Gas ck @ 4825 2/10-2" w/wa
Sand			4455	4911	60,000 cu.ft.
Benson			4911	4913	
Sand & sandy shale			4913	5202	Gas ck @ 5233 3/10-2" w/w
Alexander			5202	5218	73,000 cu.ft.
Sand & sandy shale			5218	5975	
				T.D.	
				Elk@ T.D.	

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:

[Signature]

Robert Dahlin-Geologist

Date:

3/19/85

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic

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NOV - 9 1984



1) Date: October 20, 1984
 2) Operator's Well No. JK-1094
 3) API Well No. 47 - 017 - 3395
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 OIL & GAS DIVISION DEPARTMENT OF MINES, OIL AND GAS DIVISION
DEPT. OF MINES 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: 1010 Watershed: Dotson Run
 District: Central County: Doddridge Quadrangle: Pennsboro 7.5'
- 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 (24150) Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mike Underwood Name _____
 Address Rt. 2 Box 114 Address _____
Salem, WV 26426
- 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, 5600' feet
 13) Approximate strata depths: Fresh, 150' feet; salt, N/A feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes _____ / No X /

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		Kinds	Sizes
Conductor	1 3/4	H-40	42	X		30	0	0 Sacks		
Fresh water	8 5/8	EEW	23	X		1110	1110	To surface		NEAT
Coal	8 5/8	ERW	23	X		1110	1110	To surface		
Intermediate										
Production	4 1/2	J-55	10.5	X		5550	5550	300 Sacks		
Tubing								or as required		by rule 15-01
Liners										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3395 Date January 7, 1985

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 January 7, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>82</u>	Agent: <u>MU</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1858</u>
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Margaret J. Hass
 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