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MAR 5 - 1985

Date February 28, 1985

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

Operator's

Well No. JK-1045

Farm S.A. Shinn Hrs.

API No. 47 - 017 - 3389

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: 866 Watershed Long Run
District: Central 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 Lawrence James

ADDRESS Box 104, Greenwood, WV 26360

MINERAL RIGHTS OWNER Shinn Hrs. C/O Lawrence

ADDRESS James, Box 104, Greenwood, WV 26360

OIL AND GAS INSPECTOR FOR THIS WORK Mike
Rt. #2, Box 114

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED. 12/4/84

DRILLING COMMENCED 1/17/85

DRILLING COMPLETED 1/27/85

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

Casing & Tubing Size	Used in Drilling in Well	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1238	1238	275 sks.
7			
5 1/2			
4 1/2	5190.25	5190.25	280 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander

Depth 5017-64 feet

Depth of completed well 5321 feet Rotary 0 / Cable Tools

Water strata depth: Fresh 360, 1050 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 5017-64 feet

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

Combined Final open flow 793 Mcf/d Final open flow Pbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1450 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson & Riley Pay zone depth 4315-4343 / 4748-50 feet

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

Final open flow Mcf/d Oil: Final open flow Pbl/d

Time of open flow between initial and final tests 18 hours

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

(Continue on reverse side)

(REVERSE)

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

Alexander: Perforations: 5017-20 (5 holes) 5036-38 (3 holes) 5054-64 (8 holes)
 Fracturing: 400 sks. 20/40 sand: 320 Bbls. Fluid: Foam frac.

Benson: Perforations: 4748-50 (8 holes)
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 148 Bbls. Fluid.

Riley: Perforations: 4315-19 (6 holes) 4331-35 (7 holes) 4343 (3 holes)
 Fracturing: 450 sks. 20/40 sand: 500 gal. acid: 660 Bbls. Fluid.

BOTTOM HOLE PRESSURE Pf=PwXGLS $\frac{1}{1}$

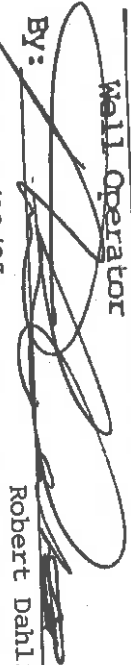
t=60 + (0.0075 x 5190) + 459.7 = 559 X= $\frac{53.35}{559}$ = 29803 = 0.000034 Pf=1400 K.2.72 (0.000034)
 (0.750) (4690) (0.9) = 1400 x 2.72 0.1 = 1400 x 1.1

Pf= 1540 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Fill & shale			0	28	
Shale & sand			28	170	$\frac{1}{4}$ " stream @ 360'
Sandy shale & red rock			170	345	1" stream @ 1050'
Sand & sandy shale			345	630	Gas ck @ 2065 12/10-2" w/water 146,000 cu.ft.
Red rock & sandy shale			630	1145	Gas ck @ 3245 14/10-2" w/water 158,000 cu.ft.
Sand & sandy shale			1145	1735	
Big Lime			1735	1805	
Sand & sandy shale			1805	2055	
Sand			2055	2160	
Sandy shale			2160	3150	Gas ck @ 4393 10/10-2" w/water 133,000 cu.ft.
Sand			3150	4315	
Riley			4315	4748	
Sandy shale			4343	4748	
Benson			4748	4750	
Sandy shale			4750	5017	Gas ck @ 4794 10/10-2" w/water 133,000 cu.ft.
Alexander			5017	5064	
Sandy shale			5064	5321	
					T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
 Well Operator
 By: 
 Robert Dahlin-Geologist
 Date: 2/28/85

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."

RECEIVED

1984



1) Date: October 20, 19 84
2) Operator's Well No.: JK-1045
3) API Well No.: 47-017-3389 State County Permit

OIL & GAS DIVISION DEPT. OF MINES
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 /
Elevation: 866' Watershed: Long Run
District: Central County: Doddridge
6) WELL OPERATOR J & J Enterprises, Inc. 24150 Quadrangle: West Union 7.5'
Address P.O. Box 48 P.O. Box 48
Richard Reddecliff
Buckhannon, WV 26201

8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood
Address Rt. 2 Box 114
9) DRILLING CONTRACTOR: Name Address
Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill X / 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 trata depths: Fresh, 125' 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.	For drilling	Left in well		
Conductor	11 3/4	H-40	42	30	0	0 Sacks	Kinds
Fresh water	8 5/8	ERW	23	966	966	To surface	ALERT
Coal	8 5/8		23	966	966	To surface	Sizes
Intermediate							Depths set
Production	4 1/2	J-55	10.5	5400	5350	300 Sacks	or as required by rule 15-01
Tubing							Perforations:
Liners							Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3389 Date December 4, 19 84

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 December 4, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
82	MU	MU	MU	1873

Margaret J. Khan
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

