

2550' 80° 37' 30" LONGITUDE

1550' 39° 15' 00" LATITUDE

0.15875
0.30875
0.4675

15 0.48 0.53 0.75

3284(25)

W.O. (DOWN)

W.O.

W.O.

W.O.

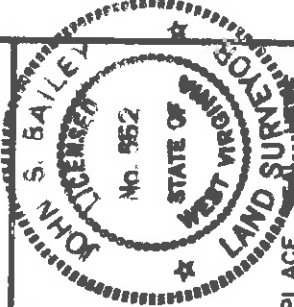
W.O.

W.O.

PREPARED BY MSES CONSULTANTS

FILE NO. MSES84-330
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/16"
 PROVEN SOURCE OF ELEVATION BD JCI RT 15 B 44 EL 872

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) John S. Bailey L.L.S. 632
 R.P.E. _____



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



Department of Mines
 Oil & Gas Division

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS", PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 977.76' WATER SHED BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIIDGE
 QUADRANGLE NEW MILTON 7.5 (1976)
 SURFACE OWNER K.E. CHUMLEY ACRES 62
 OIL & GAS ROYALTY OWNER K.E. CHUMLEY LEASE ACREAGE 62

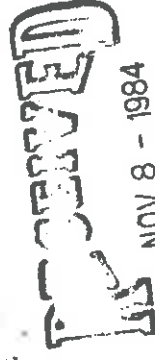
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5550 MAY 14 1984
 WELL OPERATOR J.B. ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF
 ADDRESS P.O. BOX 48 ADDRESS BUCKHANNON, W.V. 26201

ALLEN BLUEPRINT Co. 7 6-6 Zinnia (145) Charleston, WV

DATE MARCH 21, 19 84
 OPERATOR'S WELL NO. JK-888
 API WELL NO. 47-017-3326
 STATE WV COUNTY GREENBRIER PERMIT _____

1-35
WV 8-81)



NOV 8 - 1984
OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date November 5, 1984
Operator's Well No. JK-888
Farm Chumley
API No. 47 - 017 - 3326

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: 977.76 Watershed Buckeye Creek
District: Greenbrier County Doddridge Quadrangle New Milton 7.51

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 K.E. Chumley
ADDRESS Rt. # 1, Salem, WV 26426
MINERAL RIGHTS OWNER Same as surface
ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Stephen
Casey ADDRESS Rt. # 2, Box 232-D, Jane Lew,
WV 26378

PERMIT ISSUED 5/11/84
DRILLING COMMENCED 9/26/84
DRILLING COMPLETED 10/2/84

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"	31	0	0 sks.
9 5/8			
8 5/8	1576.95	1576.95	350 sks.
7			
5 1/2			
4 1/2	5491.95	5491.95	350 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5322-53 feet

Depth of completed well 5707 feet Rotary x / Cable Tools
Water strata depth: Fresh 140,1970 feet; Salt 0 feet
Coal seam depths: 135-40 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5322-53 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Combined Final open flow 298 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1600 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Benson & Riley Pay zone depth 4881-89 4999-5001 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

DEC 03 1984

(Continue on reverse side)

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

Riley: Perforations: 4881-89 (16 holes)
Fracturing: 350 sks. 20/40 sand: 700 Bbls. fluid.
Benson: Perforations: 4999-5001 (8 holes)
Fracturing: 300 sks. 20/40 sand: 612 Bbls. fluid-
Alexander: Perforations: 5322-25 (5 holes) 5342-45 (6 holes) 5351-53 (6 holes)
Fracturing: 400 sks. 20/40 sand: 292 Bbls. fluid

BOTTOM HOLE PRESSURE Pf=Pwg XGLS

t=60 + (0.0075 x 5492)+459.7 = 561 X=53.35 x 561 = 29923 =0.000033 Pf=1600 x 2.72 (0.000033)
(5117) (0.8) (0.9) +1600 x 2.72^{0.12} =1600 x 1.1

Pf=1760 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Red rock & shale			0	30	Including indication of all free and salt water, coal, oil and
Sandy shale & sand			30	90	4" stream @ 140
Red rock & shale			90	135	1 1/2" stream @ 1970
Coal			135	140	
Sand & shale			140	275	Gas ck @ 2227 No show
Sand & shale			275	375	
Sand, shale & red rock			375	500	Gas ck @ 2385 No show
Sand, shales red rock			500	650	
Sand & sandy shale			650	1000	Gas ck @ 5707 No show
Shale, sand & red rock			1000	1480	
Sand & sandy shale			1480	1735	
Sand & shale			1735	1820	
Sand & shale			1820	1945	
Maxton sand			1945	1980	
Sandy shale & shale			1980	2033	
Big Lime			2033	2110	
Injun			2110	2175	
Shale & sand			2175	2350	
Shale & sand			2350	3565	
Sandy shale & sand			3565	4881	
Riley			4881	4889	
Sandy shale & sand			4889	4999	
Benson			4999	5001	
Sandy shale & sand			5001	5322	
Alexander			5322	5353	
Sand & shale			5353	5707	

T..D.

(Attach separate sheets as necessary)

J&J Enterprises, INC.
Well Operator

By:  Robert Dahlin-Geologist

Date: 11/5/84

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 ~~strata~~, encountered in the drilling of a well."



1) Date: March 21, 19 84
 2) Operator's Well No. JK-888
 3) API Well No. 47 State 017 County 3326 Permit

FILE COPY

RECEIVED

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 OIL & GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

DEPT. OF MINES

- 4) WELL TYPE: A Oil Gas B (If "Gas", Production Undergrnd storage Deep Shallow
 Elevation: 977.76 Watershed: Buckeye Creek
 District: Greenbrier County: Doddridge Quadrangle: New Milton 7.5' (1976)
 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 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Stephen Casey 9) DRILLING CONTRACTOR:
 Address Rt. 2, Box 232D Name S.W. Jack Drilling Company
Jane Lew, WV 26378 Address P.O. Box 48
Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill deeper Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify) Alexander

11) GEOLOGICAL TARGET FORMATION, 5550 feet
 12) Estimated depth of completed well, 45 feet; salt, 0 feet.
 13) Approximate trata depths: Fresh, 425 feet; salt, 0 feet.
 14) Approximate coal seam depths: 425 feet; salt, 0 feet. Is coal being mined in the area? Yes No

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	11 3/4	H-40	42	X		30	0	0 SKS.
Fresh water	8 5/8	ERW	23	X		1100	1100	TO SURFACE
Coal	8 5/8	ERW	23	X		1100	1100	TO SURFACE
Intermediate								
Production	4 1/2	J-55	10.5	X		5500	5500	350 SKS.
Tubing								
Liners								

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3326 Date May 11 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. May 11, 1986 unless well work is commenced prior to that date and prosecuted with due diligence. Permit expires

Bond: <u>63</u>	Agent: <u>OK</u>	Plat: <u>TS</u>	Casing: <u>TS</u>	Fee: <u>3224</u>
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[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

