

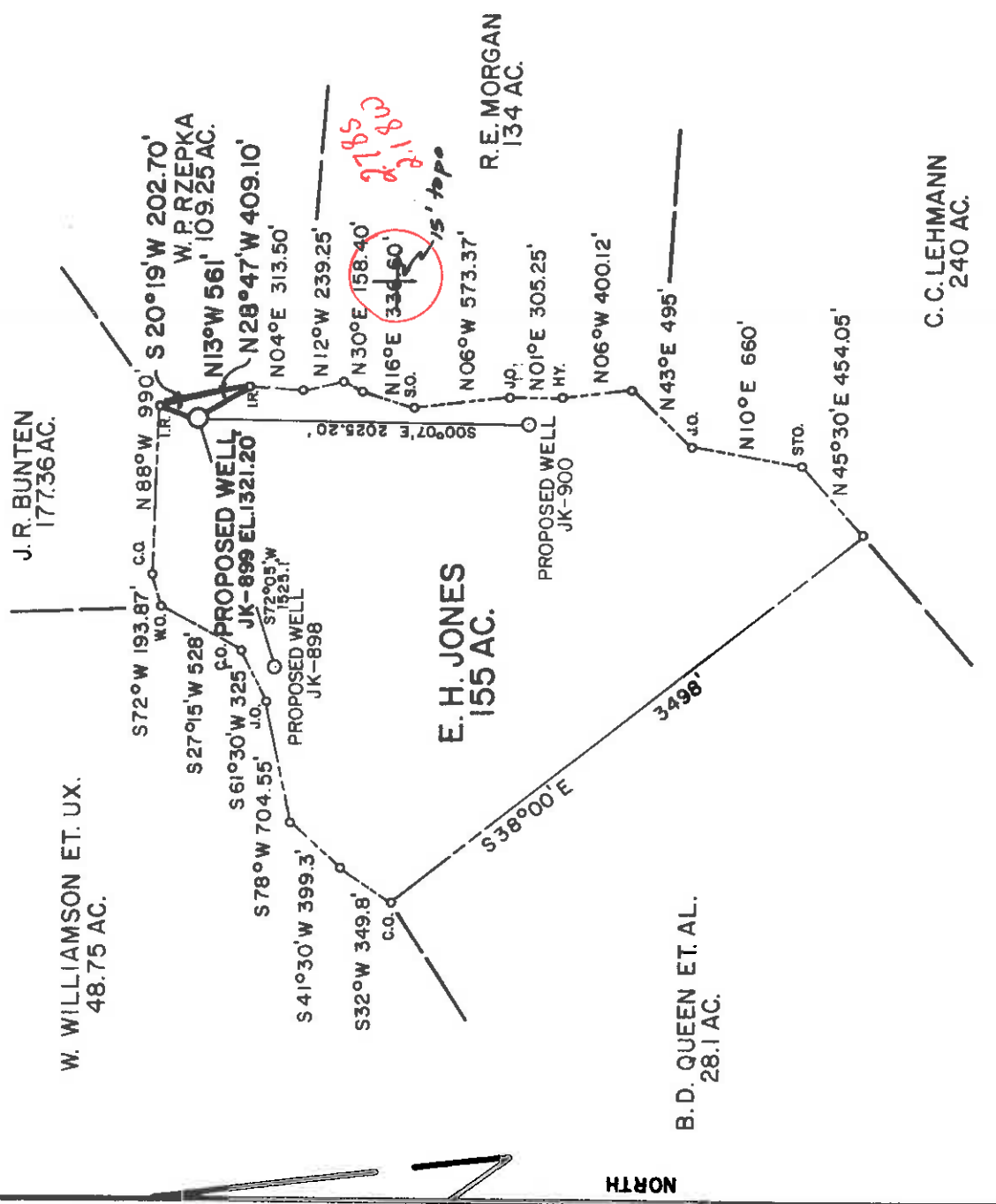
Plot Card CS-13

11,600

14,575

LATITUDE 39°15'00"

LONGITUDE 80°35'00"



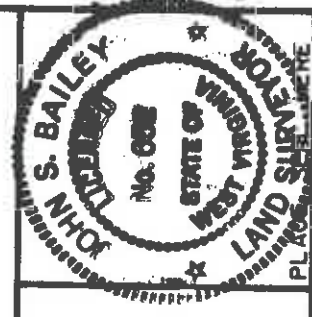
2775  
2200



PREPARED BY MSES CONSULTANTS

FILE NO. MSES84-338  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=1000'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION USGS DISKAT PLEASANT HILL CEMETERY EL. 1291

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  
 R.P.E. L.S. 652



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



Department of Mines  
 Oil & Gas Division

DATE MARCH 26, 19 84  
 OPERATOR'S WELL NO. JK-899  
 API WELL NO. 47-017-3315

STATE WV COUNTY PUTNAM PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1321.20' WATER SHED STANDINGSTONE RUN  
 DISTRICT GREENBRIER COUNTY DODDRIIDGE  
 QUADRANGLE BIG ISAAC 75' (1976) Valid 15' NC  
 SURFACE OWNER ELIZABETH JONES ET AL. ACREAGE 155  
 OIL & GAS ROYALTY OWNER ELIZABETH H. & RICHARD H. JONES LEASE NO. JK-15

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 5400'  
 WELL OPERATOR J.B.J. ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFF  
 ADDRESS P.O. BOX 48 ADDRESS BUCKHANNON, W.V. 26201

ALLEN BLUEPRINT Co. C-G Meathouse Fork-Bristol (146) Charleston, WV

APR 30 1984



Date September 11, 1984  
 Operator's Well No. JK-899  
 Farm Jones  
 API No. 47 - 017 - 3315

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State of West Virginia  
 Department of Mines  
 Oil and Gas Division

OIL & GAS DIVISION  
 DEPT. OF MINES

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: 1321.20 Watershed Standingstone Run  
 District: Greenbrier County Doddridge Quadrangle Big Isaac 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 Elizabeth Jones  
 ADDRESS 301 Camden Avenue, Weston, WV 26452  
 MINERAL RIGHTS OWNER Same as surface  
 ADDRESS     
 OIL AND GAS INSPECTOR FOR THIS WORK Mike  
Underwood ADDRESS Rt, 2, Box 114, Salem, WV  
26426

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1535.25	1535.25	300 sks.
7			
5 1/2			
4 1/2	5772.20	5772.20	300 sks.
3			
2			
Liners used			

PERMIT ISSUED 4/25/84  
 DRILLING COMMENCED 7/16/84  
 DRILLING COMPLETED 7/22/84  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

GEOLOGICAL TARGET FORMATION Alexander Depth 5532-5622 feet  
 Depth of completed well 5991 feet Rotary x / Cable Tools     
 Water strata depth: Fresh 125,535 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 5532-5622 feet  
 Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
 Combined Final open flow 462 Mcf/d Final open flow    Bbl/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 & Riely Pay zone depth 5256-68 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

OCT 2 1984  
 (Continue on reverse side)

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

Alexander: Perforations: 5532-5622 (19 holes)  
 Fracturing: 450 sks. 20/40 sand: 250 gal. acid: 650 Bbls. fluid.  
 Benson & Riley: Perforations: ~~5256-68~~ (7 holes) 5078-80 (5 holes) <sup>Riley</sup>  
 Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 505 Bbls. fluid

BOTTOM HOLE PRESSURE Pf=Pwe XGLS  $\frac{1}{1}$   
 $t=60 + (0.0075 \times 5772) + 459.7 = 563$   $X=53.35 \times 563$   $\frac{1}{30036} = 0.000033$  Pf=1450 x 2.72 (0.000033)  
 (0.682) (5350) (0.9) = 1450 x 2.72  $0.1 = 1450 \times 1.1$

Pf=1595 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top soil			0	50	
Sand & shale			50	110	Hole wet @ 125'
Sand, red rock & shale			110	195	
Sand, shale & red rock			195	380	1/4" stream @ 125
Sandy shale & red rock			380	535	Damp @ 535
Sand, shale & red rock			535	785	Damp @ 535
Sand, shale & sandy shale			785	1535	Damp @ 535
Sandy & sandy shale			1535	1640	Damp @ 535
Sand & shale			1640	1700	Damp @ 1850
Sandy shale & sand			1700	1930	
Shale & sand			1930	2135	Gas ck @ 2670 No show
Shale			2135	2340	
Big Lime & Injun			2340	2485	Gas ck @ 2670 No show
Sand & shale			2485	2750	Gas ck @ 3691 NO show
Sand & shale			2750	3920	
Sand & shale			3920	5078	Gas ck @ 5129 No show
Riley			5078	5080	
Sand & shale			5080	5256	Gas ck @ 5290 60/10-1" w/water
Benson			5256	5268	58,385 cu.ft.
Sand & shale			5268	5532	
Alexander			5532	5622	Gas ck @ 5675 50/10-1" w/water
Sand & shale			5622	5991	52,251 cu.ft.
			5622		T.D.
					Gas ck @ Drill collars
					2/10-1" w/water
					10,650 cu.ft.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:  Robert Dahlin-Geologist

Date: 9/11/84

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  
 any encountered in the drilling of a well."



1) Date: March 26, 19 84  
 2) Operator's Well No. JK-899  
 3) API Well No. 47 - 017 - 3315 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   Undergrnd storage  Deep  Shallow   
 B (If "Gas", Production  Watershed: Standingstone Run  
 5) LOCATION: Elevation: 1321.20 County: Doddridge Quadrangle: Big Isaac 7.5 (1976)  
 District: Greenbrier 7) DESIGNATED AGENT Richard Reddecliff  
 6) WELL OPERATOR J&J Enterprises, Inc. Address P.O. Box 48  
Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name STEVEN CASEY HAROLD MIKE UNDERWOOD 9) DRILLING CONTRACTOR:  
 Address Rt. 2, Box 48 782-1043 Name S.W. Jack Drilling Company  
Buckhannon, WV 26201 Address P.O. Box 697  
Buckhannon, WV 26201

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10) PROPOSED WELL WORK: Drill  deeper  Redrill  Stimulate   
 Plug off old formation  Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Alexander feet  
 12) Estimated depth of completed well, 5400 feet  
 13) Approximate true depths: Fresh, 35-40 feet; salt, 0 feet.  
 14) Approximate coal seam depths: 475-78, 829-33 Is coal being mined in the area? Yes

OIL & GAS DIVISION  
 DEPT. OF MINES

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 SKS.	Kinds
Fresh water	8 5/8	ERW	23	1400	1400	TO SURFACE	NEAT
Coal	8 5/8	ERW	23	1400	1400	TO SURFACE	Sizes
Intermediate							Depths set
Production	4 1/2	J-55	10.5	5350	5350	275 SKS.	Perforations:
Tubing						<u>as reg. by rule No. 1</u>	Top
Liners							Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3315 Date April 25, 1984

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 April 25, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKE</u>	Agent: <u>[Signature]</u>	Plat: <u>MM</u>	Casing: <u>MM</u>	Fee: <u>3227</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

