

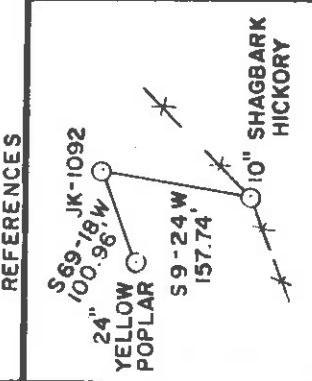
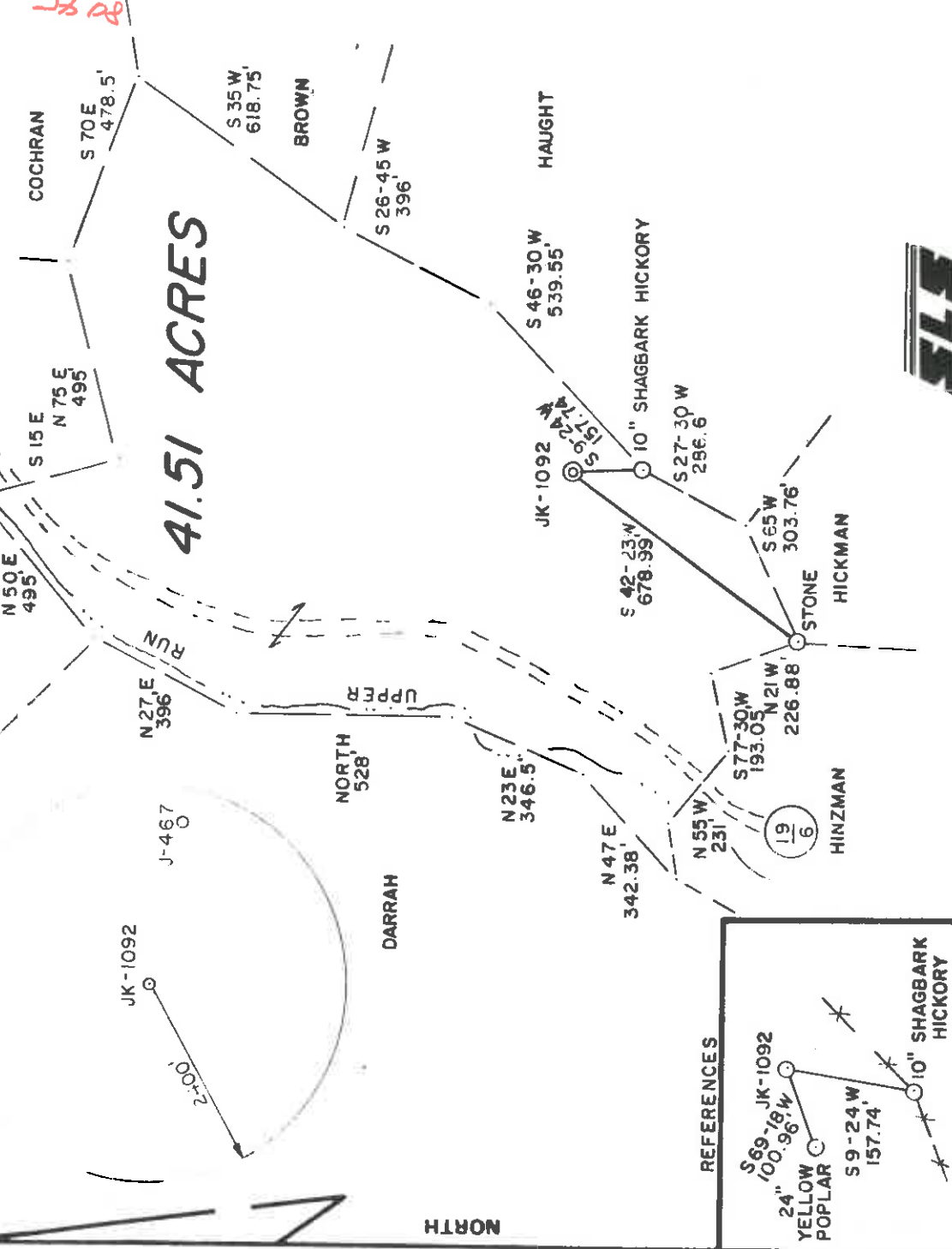
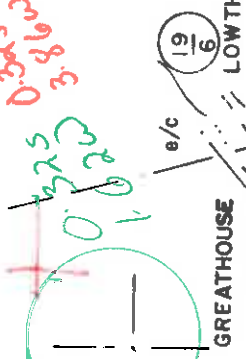
# HUSK LEASE

## WELL NO. JK-1092

LATITUDE 39°10'00"

LONGITUDE 80°47'30"

41.51 ACRES



FILE NO. 16-23  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB  
 ELEV. 1134'

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.I.S. 677



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

PLACE SEAL HERE  
 DATE SEPTEMBER 26, 19 84  
 OPERATOR'S WELL NO. JK-1092  
 API WELL NO. \_\_\_\_\_



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 1042' WATER SHED UPPER RUN  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5' Holbrook 15' EC4 ACRES 41.51  
 SURFACE OWNER RANDAL HUSK  
 OIL & GAS ROYALTY OWNER RANDAL HUSK, et. al. LEASE NO. JK-18 LEASE ACRES 41

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 5600'  
 WELL OPERATOR J.B.J. ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDECLIFFE  
 ADDRESS P.O. BOX 48 BUCKHANNON, WV 26201  
 P.O. BOX 48 BUCKHANNON, WV 26201

NOV 19 1984

6-6 Straight Fork-Bluestone Creek (133)

5  
8-811)



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JAN 25 1985

OIL & GAS DIVISION  
**DEPT. OF MINES**

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date January 23, 1985  
Operator's Well No. JK-1092  
Farm Randal Husk  
API No. 47 - 017 - 3379

WELL OPERATOR'S REPORT

OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1042 Watershed Upper Run  
District: Southwest County Doddridge Quadrangle Oxford 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 Randal Husk  
 ADDRESS Rt. # 2, Box 866, Clarksburg, WV 26301  
 GENERAL RIGHTS OWNER Same as surface  
 ADDRESS  
 OIL AND GAS INSPECTOR FOR THIS WORK Mike  
 Underwood ADDRESS Rt. 2, Box 114, Salem, WV 26426  
 PERMIT ISSUED 11/9/84  
 DRILLING COMMENCED 1/3/85  
 DRILLING COMPLETED 1/10/85  
 IF APPLICABLE: PLUGGING OF DRY HOLE ON  
 CONTINUOUS PROGRESSION FROM DRILLING OR  
 REWORKING. VERBAL PERMISSION OBTAINED  
 UN

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	31	0	0 sks.
9 5/8			
8 5/8	1323.20	1323.20	285 sks.
7			
5 1/2			
4 1/2	5204	5204	285 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5004-48 feet  
 Depth of completed well 5995 feet Rotary x / Cable Tools  
 Water strata depth: Fresh 1175 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 5004-48 feet  
 Gas: Initial open flow Mcf/d Oil: Initial open flow Pbl/d  
 Final open flow 2,144 Mcf/d Final open flow Bbl/d  
 Combined time of open flow between initial and final tests 4 hours  
 Static rock pressure 1200 psig (surface measurement) after 96 hours shut in  
 (If applicable due to multiple completion--)  
 Second producing formation 1st and 3rd Riley Pay zone depth 4315-41 feet  
 Gas: Initial open flow Mcf/d Oil: Initial open flow Pbl/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

... (Continue on reverse side)

(REVERSE)

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

1st. Riley: Perforations: 4315-16 (4 holes) 4325-27 (6 holes) 4332-33(3 holes) 4340-41(3 holes)  
 Fracturing: 250 sks. 20/40 sand; 500 gal. acid; 380 Bbls. Fluid; Foam frac.

3rd Riley: Perforations: 4648-54 (14 holes)  
 Fracturing: 300 sks. 2-/40 sand: 500 gal. acid: 315 Bbls. Fluid.

Alexander: Perforations: 5004-06 (3 holes) 5014-16(4 holes) 5036-40(4 holes) 5044-48(5 holes)  
 Fracturing: 450 sks. 20/40 sand: 200 Bbls. Fluid.

BOTTOM HOLE PRESSURE PF=Pwe XGLS

$t=60+(0.0075 \times 5204) + 459.7 = 558$   $X=53.35 \times 558 = 29769$   $=0.000034$  PF=1200 x 2.72 (0.000034)

(0.651) (4682) (0.9) =1200 x 2.72 0.09 = 1200 x 1.1

PF=1320 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Conductor			0	31	
Sand & shale			31	140	Damp @ 1175'
Sand & shale			140	245	Gas ck @ 1949 25/10-7" w/water
Sand, shale & red rock			245	690	2,252,000 cu.ft.
Red rock & shale			690	1175	Gas ck @ 2900 26/10-2" w/merc
Sand & shale			1175	1585	793,000 cu.ft.
Sand & shale			1585	1755	Gas ck @ 3408 16/10-2" w/merc
Little Lime			1755	1780	622,000 cu.ft.
Shale			1780	1795	
Big Lime & Injun			1795	1910	Gas ck @ 4429 6/10-2" w/merc
Sand & shale			1910	2295	381,000 cu.ft.
Sand & shale			2295	3720	Gas ck @ 4686 6/10-2" w/merc
Sand & shale			3720	4315	381,000 cu.ft.
Sandy shale			4315	4341	
1st Riley			4341	4648	Gas ck @ 4204 6/10-2" w/merc.
Sand & shale			4648	4654	381,000 cu.ft.
3rd Riley			4648	5004	
Sand & shale			4654	5048	Gas ck @ 5071 4/10-2" w/merc
Alexander			5004	5048	311,000 cu.ft.
Sand & shale			5048	5995	
			5048	T.D.	

Bullion @ T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:  Robert Dahlin-Geologist

Date: 1/23/85

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

1) Date: October 18, 19 84  
 2) Operator's Well No. JK-1092  
 3) API Well No. 47-017-3379  
 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  B (if "Gas", Production   
 Undergrnd storage  Deep  Shallow   
 5) LOCATION: Elevation: 1042' Watershed: Upper Run  
 District: Southwest County: Doddridge Quadrangle: Oxford 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  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Mike Underwood  
 Address Rt. 2 Box 114  
Salem, WV 26426

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

11) GEOLOGICAL TARGET FORMATION, Alexander  
 12) Estimated depth of completed well, 5600' feet  
 13) Approximate traata depths: Fresh, 115' feet; salt, N/A feet.  
 14) Approximate coal seam depths: N/A feet. Is coal being mined in the OIL & GAS DIV. No. X

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		PACKERS
	Size	Grade	Weight per ft.	New	Used	
Conductor	11 3/4	H-40	42	X		
Fresh water	8 5/8	ERW	23	X		
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	X		
Tubing						
Liners						

DEPT. OF MINES  
 COMMENT: 0 Sacks  
to surface  
NEAT  
 Depth set 300sacks  
 Perforations: or as required by rule 15-01  
 Top            Bottom           

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 OCT 23 1984

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3379 Date November 9, 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 November 9, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>80</u>	Agent: <u>TS</u>	Plat: <u>MW</u>	Casing: <u>MW</u>	Fec: <u>1841</u>
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*Margaret J. Laan*  
 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

