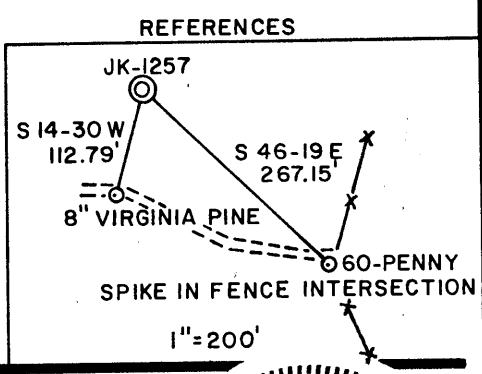
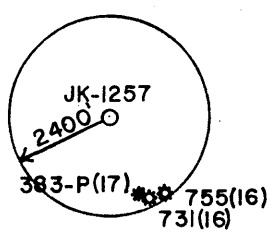
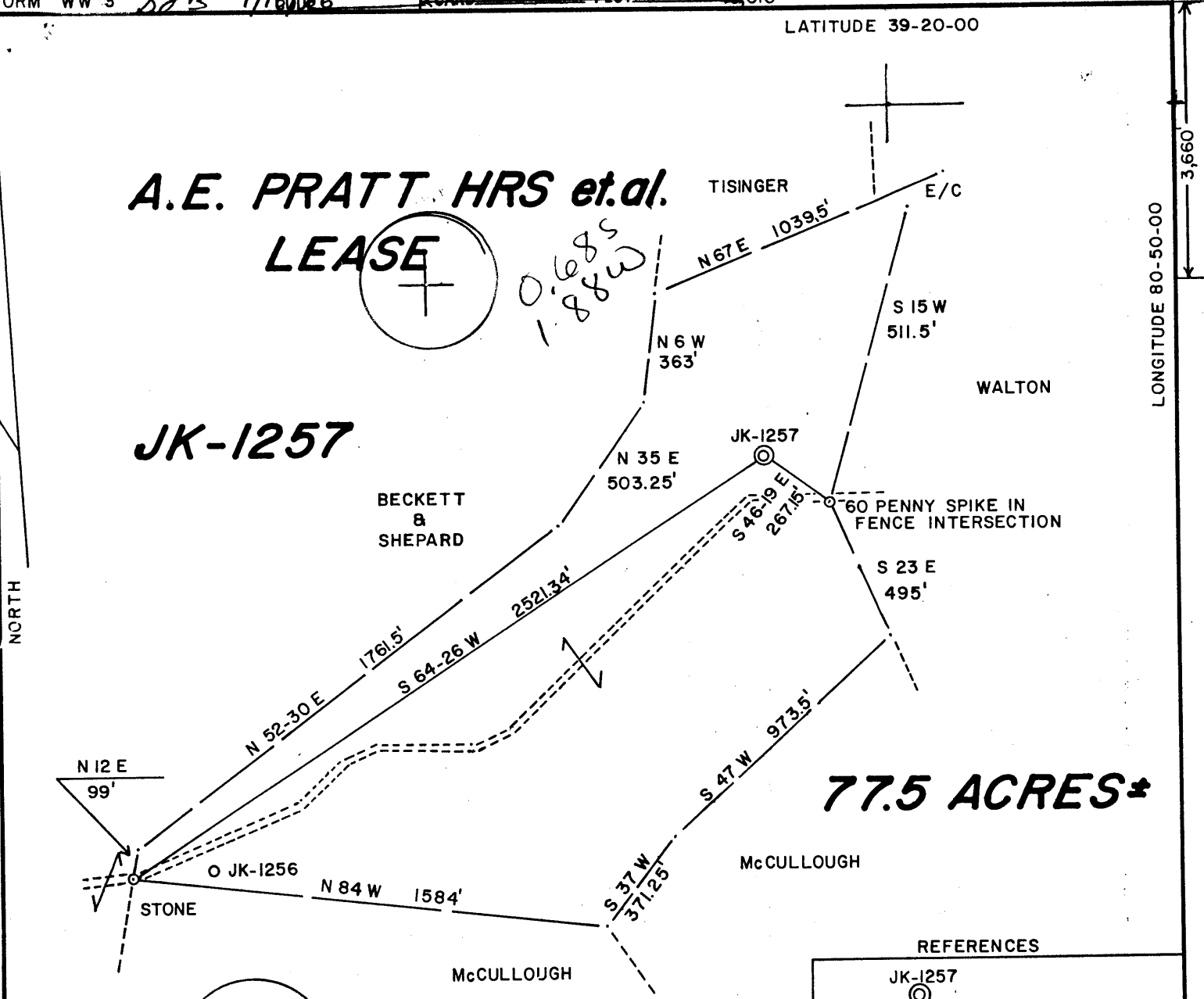


**A.E. PRATT HRS et al.**  
**LEASE**

**JK-1257**

**77.5 ACRES\***

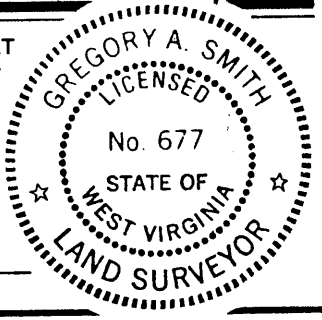


**SLS SMITH LAND SURVEYING**

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE JANUARY 22, 1986  
 OPERATORS WELL NO. JK-1257  
 API WELL NO. 47-095-1147  
 STATE COUNTY PERMIT

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 ENERGY.

L.L.S. 677 Gregory A. Smith



MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 19-10  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB 1308' SCALE 1"=500'



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
**OIL AND GAS DIVISION**

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1148' WATERSHED SHORT RUN  
 DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671  
 SURFACE OWNER HAROLD & EUGENE R. WALTON ACREAGE 77.5  
 OIL & GAS ROYALTY OWNER AUSTIN E. PRATT HRS. et al. LEASE ACREAGE 77.5  
 LEASE NO. JK-218

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF  
 OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_ TARGET FORMATION ALEXANDER  
 ESTIMATED DEPTH 5400'

WELL OPERATOR JBJ ENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF  
 ADDRESS P.O. BOX 48 BUCKHANNON, W.V. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, W.V. 26201

COUNTY NAME TYLER  
 PERMIT 1147

575



IV-35  
(Rev 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date October 2, 1986  
Operator's Well No. 2472 - JK1257  
Farm Austin Pratt #1  
API No. 47 - 095 - 1147

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 \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow XX /)

LOCATION: Elevation: 1148' Watershed Short Run  
District: Centerville County Tyler Quadrangle West Union

COMPANY Union Drilling, Inc.

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

DESIGNATED AGENT Joseph C. Pettey

ADDRESS P.O. Drawer 40, Buckhannon, WV 26201

SURFACE OWNER Harold Walton

ADDRESS Rt. 2, Box 391, Clarksburg, WV 26301

MINERAL RIGHTS OWNER Austin Pratt Heirs

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_

Robert Lowther ADDRESS Gen. Del., Middleborne, WV

PERMIT ISSUED 7/21/86

DRILLING COMMENCED 8/4/86

DRILLING COMPLETED 8/10/86

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	Current fill up Cu. ft.
Size 20-16 Cord.			
13-10"			
9 5/8			
8 5/8	1305.15'	1305.15'	354 cf
7			
5 1/2			
4 1/2		5430.45'	358 cf
3			
2 3/8"	tubing	5283.10	
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5400' feet

Depth of completed well 5504' feet Rotary xxx / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 645' feet; Salt 1570' feet

Coal seam depths: 497/500, 750/754 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Riley, Alexander Pay zone depth 5312' feet

Gas: Initial open flow 189 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow 1024 Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests 2 hours

Static rock pressure 1700# psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ 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 20 1986  
(Continue on reverse side)

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

Dowell - 2 stage Frac - 8/19/86

4610/16 - Riley - 50,000# sand, 511,500 scf nitrogen and 240 Bbls water  
 4622/24 - Riley  
 4639/41

5305/12 - Alexander - 50,000# sand and 624 Bbls water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	497	
Coal			497	500	
Sand & Shale			500	750	3/4" stream water @645'
Coal			750	754	
Sand & Shale			754	1799	Hole Damp @1570'
Maxson			1799	1869	
Big Lime			1993	2072	
Injun			2078	2188	
Weir			2343	2460	
Speechly			3816	3837	
Balltown			3969	4078	
Bradford			4375	4390	
Riley			4594	4658	
Benson			5003	5036	
Alexander			5280	5330	
				5504'T.D	Gas Check @TD 20/10 thru 2" w/w = 189 mcf

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

By:

*Joseph C. Pettey*

Date: Joseph C. Pettey, Vice President of Production

10/2/86

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 ... encountered in the drilling of a well."

FILE COPY  
**RECEIVED**  
JUL 14 1986



1) Date: February 24, 1986  
 2) Operator's Well No. JK-1257  
 3) API Well No. 47 095-1147  
 State County Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  )  
 5) LOCATION: Elevation: 1148' 427 Watershed: Short Run  
 District: Centerville / County: Tyler / Quadrangle: West Union 7.5' 670  
 6) WELL OPERATOR J&J Enterprises, Inc CODE: 24150 7) DESIGNATED AGENT Richard M. Reddecliff  
 Address P.O. Box 48 Address P.O. Box  
Buckhannon, WV 26201 Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Robert Lowther Name S.W. Jack Drilling Co.  
 Address General Delivery Address P.O. Box 48  
Middlebourne, WV 26149 Buckhannon, WV 26201  
 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_  
 11) GEOLOGICAL TARGET FORMATION, Reine Street ALEXANDER 439  
 12) Estimated depth of completed well, 5995' 5400 feet  
 13) Approximate strata depths: Fresh, 125' feet; salt, N/A feet.  
 14) Approximate coal seam depths: N/A 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 Sacks	Kinds
Fresh water	8 5/8	ERW	23	X		<del>1248</del> <u>1248</u>	<del>1748</del> <u>1748</u>	To Surface	Rule 15.05
Coal	8 5/8	ERW	23	X		<del>1248</del> <u>1248</u>	<del>1748</del> <u>1748</u>	To Surface	Rule 15.05
Intermediate									
Production	4 1/2	J-55	10.5	X		<del>5400</del> <u>5995</u>	<del>5350</del> <u>5945</u>	300 Sacks or as required	Depths set by rule 15.01
Tubing									
Lin...									Perforations: Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-095-1147

July 21 19 86

Date

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 July 21, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>ALB</u>	<u>AS</u>	<u>AS</u>	<u>2134</u> <u>129</u>	<u>AS</u>	<u>AS</u>	<u>RAIL</u>

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]  
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.