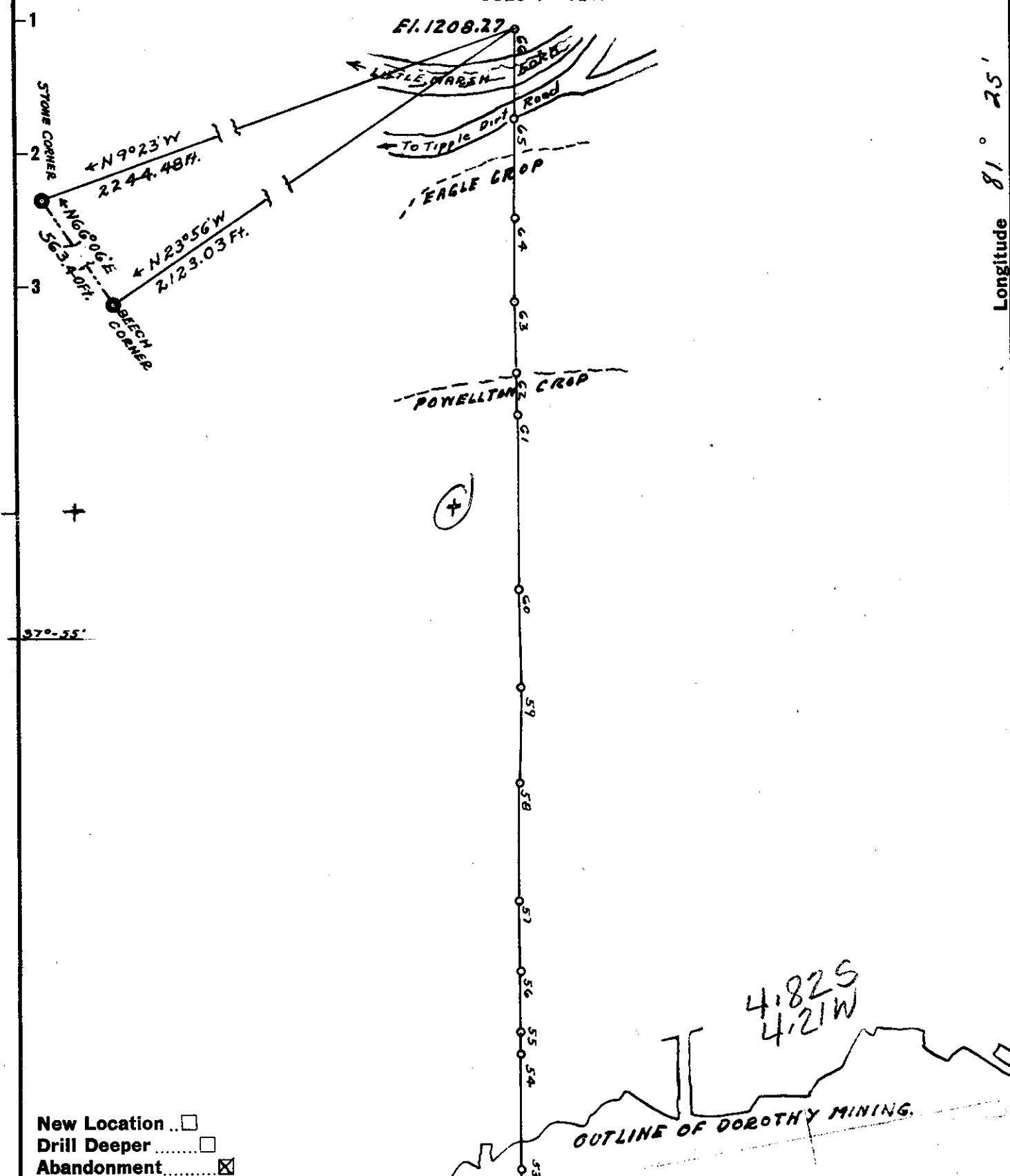


CO: 0B1 PMT: 232  
 Loc Disitized from OGIS 7.5' Mylar  
 QUAD: 325 DATE: 9-FEB-90  
 LAT: 37 57.5 Miles South: 1.98  
 LONG: 81 27.5 Miles West : 1.88

Latitude 38° 00'

91°-25'

Longitude 81° 25'



Company WESTERN POCAHONTAS CORP.  
 Address Box 609, HUNTINGTON, W. Va.  
 Farm DOROTHY-SARITA FARMLANDS  
 Tract \_\_\_\_\_ Acres 8273 Lease No. \_\_\_\_\_  
 Well (Farm) No. 4 Serial No. 78  
 Elevation (Spirit Level) 1208.27  
 Quadrangle ECCLES NW  
 County RALEIGH District MARSH FORK  
 Engineer Geo. H. Miller  
 Engineer's Registration No. 1892  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date \_\_\_\_\_ Scale 1" = 200'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. RAL-232

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 5

Quadrangle Eccles

WELL RECORD

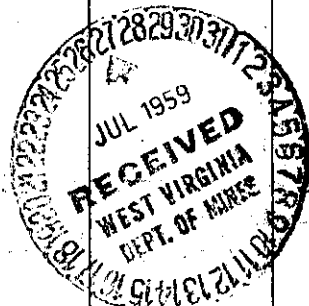
Permit No. Ral. 232

Oil or Gas Well Gas  
(KIND)

Company <u>Peake Petroleum Company</u> Address <u>1310 Williamson Bldg. Cleveland 14, Ohio</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Farm <u>Dorothy-Sarita</u> Acres <u>8,200</u>	Size			
Location (waters) <u>Little Marsh</u>				
Well No. <u>78</u> Elev. <u>1,208.27</u> 16				Kind of Packer <u>Larkin USD</u>
District <u>Marsh Fork</u> County <u>Raleigh</u> 13		<u>5</u>	<u>5</u>	Size of <u>3x7</u>
The surface of tract is owned in fee by <u>Western Pocahontas Box 509</u> Address <u>Huntington, W. Va.</u> 8%		<u>382</u>	<u>382</u>	Depth set <u>2450</u>
Mineral rights are owned by <u>Western Pocahontas Corp</u> 6%		<u>1103</u>	<u>pulled</u>	
<u>Box 509</u> Address <u>Huntington, W. Va.</u> 5 3/16		<u>2268</u>	<u>2268</u>	
Drilling commenced <u>March 24, 1958</u>	3	<u>2660</u>	<u>2660</u>	Perf. top <u>2660</u>
Drilling completed <u>June 18, 1959</u>	2			Perf. bottom <u>2660</u>
Date Shot _____ From _____ To _____	Liners Used			Perf. top _____
With _____				Perf. bottom _____
Open Flow <u>0</u> 10ths Water in _____ Inch				
<u>0</u> 10ths Merc. in _____ Inch				
Volume <u>N.E.T.G.</u> _____ Cu. Ft.				
Rock Pressure <u>N.E.T.G.</u> _____ lbs. _____ hrs.				
Oil <u>None</u> _____ bbls., 1st 24 hrs.				
WELL ACIDIZED _____				
				CASING CEMENTED <u>7</u> SIZE <u>70'</u> No. Ft. <u>6-1-59</u> Date
				COAL WAS ENCOUNTERED AT <u>132</u> FEET <u>12</u> INCHES
				<u>547</u> FEET <u>24</u> INCHES FEET INCHES
				FEET INCHES FEET INCHES
				WELL FRACTURED <u>7-2-59</u> <u>400</u> bbls. H <sub>2</sub> O - <u>20,000</u> # Sand - <u>500</u> gals. Mud X

RESULT AFTER TREATMENT: 315 MCF  
ROCK PRESSURE AFTER TREATMENT 878 # - 24 hrs.  
Fresh Water 12 Feet 1 Bl. per hr. Salt Water 43 - Hole full Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	4			
Sand			4	78			
Sl.&Shs.			78	110			
Sand			110	132			
Coal			132	133			
Sand			133	158			
Sl.&Shs.			158	210			
Sand			210	220			
Sl.&Shs.			220	315			
Sand			315	364			Broken
Slate			364	405			
Sand			405	440			
Slate			440	481			
Sand		Hard	481	547			
Coal			547	549			
Sand			549	555			
Sl.&Shs.			555	574			
Sand			574	686			
Sl.&Shs.			686	746			
Sand			746	804			
Sand			804	985			
Sl.&Shs.			985	1043			
Sand			1043	1120			
Sl.&Shs.			1120	1245			
Sand			1245	1428			
Slate			1428	1466			



(over)

FS9 ✓

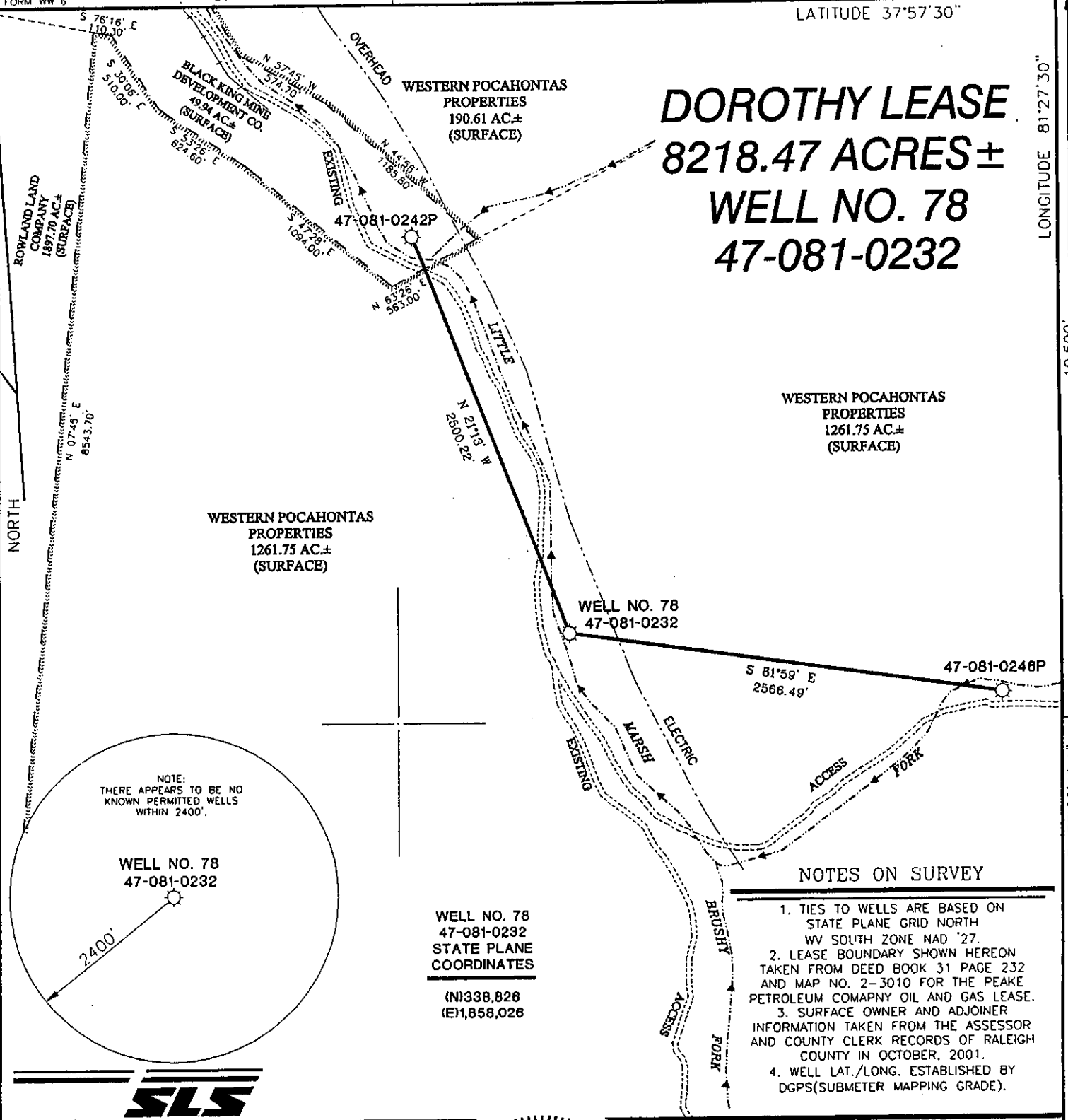
Formation	Color	Hard or Soft	Top 5'	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1466	1507	Gas	806-807	2/10 H2O-1"
Red Rock			1507	1510	Gas	825-827	4/10 " 1"
Sl.&Shs.			1510	1550	Gas	835-838	24/10 " "
Lime			1550	1582			
Slate			1582	1594			
Red Rock			1594	1620			
Sand			1620	1642			
Red Rock			1642	1700			
Lime			1700	1745			
Red Rock			1745	1775			
Sl.&Shs.			1775	1835			
Red Rock			1835	1942			
Lime			1942	2064			
Maxon Sand			2064	2082			
Sl.&Shs.			2082	2125			
Lime			2125	2177			
Slate			2177	2184			
Little Lime			2184	2250			
Big Lime			2250	2500			
Lime	Black		2500	2538			
Injun Sand			2538	2543			
Sl.&Shs.			2543	2585			
Weir Sand			2585	2676			
Sl.&Shs.			2676	2713			

Date July 23, 1959

APPROVED Peake Petroleum Co., Owner

By J.W.F. Rudnicki

(Title)  
J.W.F. Rudnicki, Chief  
Engineer



# DOROTHY LEASE

## 8218.47 ACRES±

### WELL NO. 78

### 47-081-0232

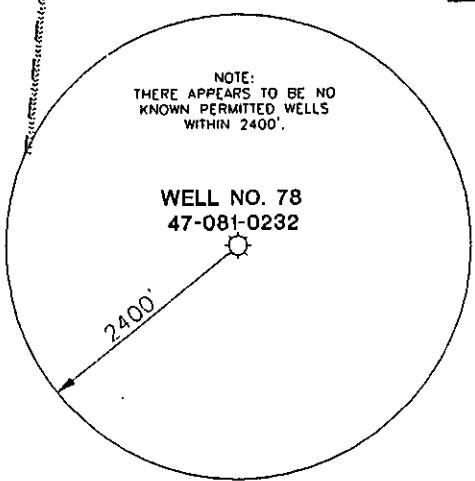
WESTERN POCAHONTAS  
PROPERTIES  
1261.75 AC±  
(SURFACE)

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PROPERTIES  
1261.75 AC±  
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WELL NO. 78  
47-081-0232  
STATE PLANE  
COORDINATES  
(N)338,828  
(E)1,858,028

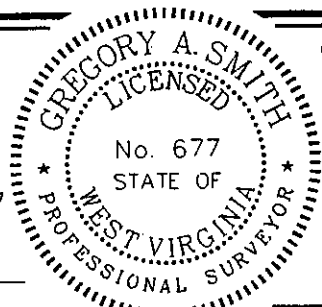
#### NOTES ON SURVEY

1. TIES TO WELLS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 31 PAGE 232 AND MAP NO. 2-3010 FOR THE PEAKE PETROLEUM COMPANY OIL AND GAS LEASE.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RALEIGH COUNTY IN OCTOBER, 2001.
4. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE OCTOBER 18, 20 01

OPERATORS WELL NO. 78

API WELL NO. 47 - 081 - 0232-D

STATE COUNTY PERMIT  
**CANCELLED**

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 4058P232(113-21)  
PROVEN SOURCE OF ELEVATION BENCHMARK ELEVATION 984' SCALE 1"=800'

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS



WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION : ELEVATION 1217' WATERSHED LITTLE MARSH FORK  
DISTRICT MARSH FORK COUNTY RALEIGH QUADRANGLE DOROTHY 7.5'

SURFACE OWNER WESTERN POCAHONTAS PROPERTIES ACREAGE 1261.75±  
ROYALTY OWNER ENERGEN RESOURCES, MAG, INC. ET AL LEASE ACREAGE 8218.47±

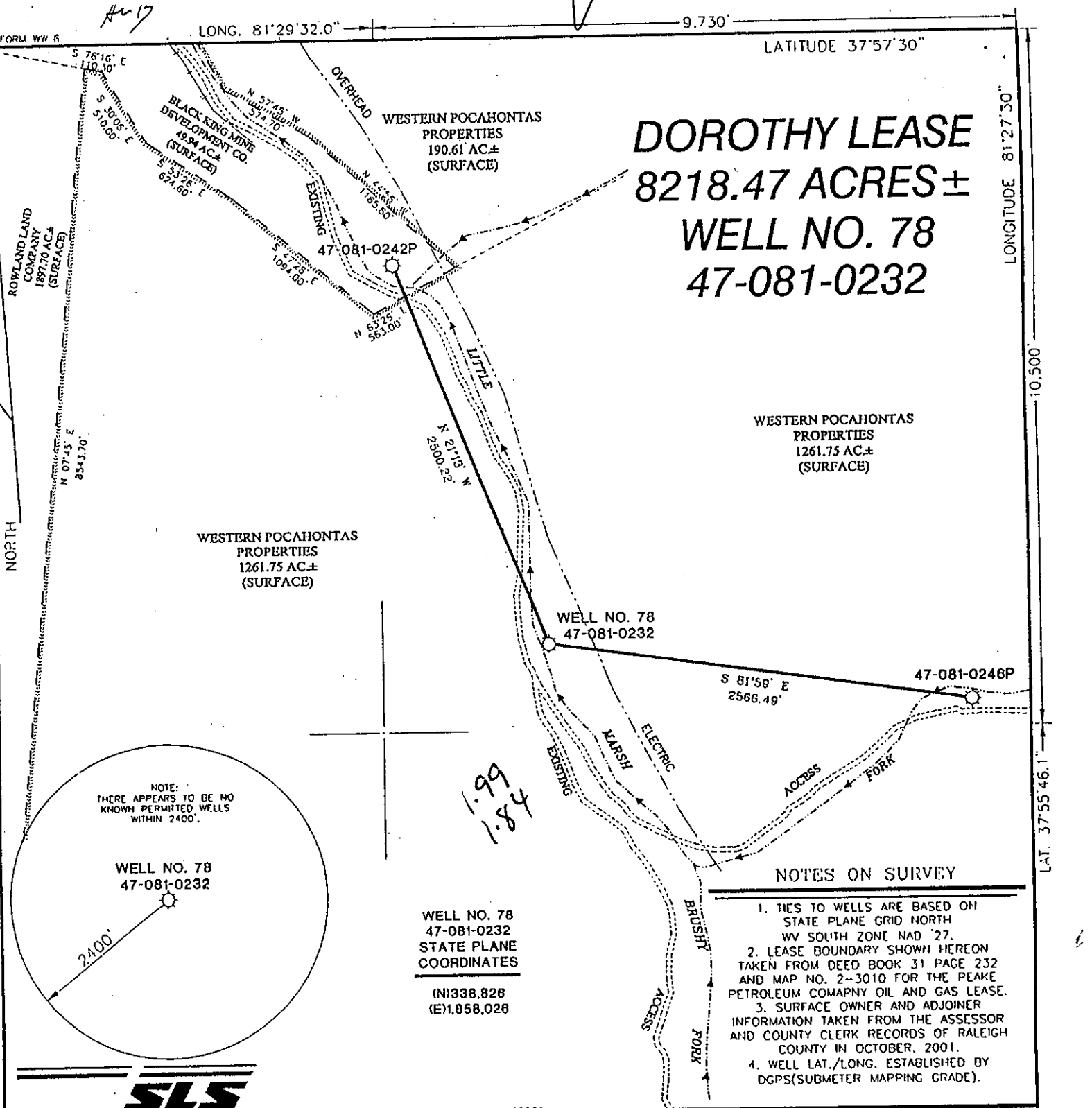
PROPOSED WORK : LEASE NO. \_\_\_\_\_  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION GORDON SAND  
ESTIMATED DEPTH 4980'

WELL OPERATOR NORTH COAST ENERGY EASTERN, INC. DESIGNATED AGENT TOM LIBERATORE SEP 30 2005  
ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164

COUNTY NAME

PERMIT

0232 CANCEL



# DOROTHY LEASE

## 8218.47 ACRES±

### WELL NO. 78

### 47-081-0232

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(SURFACE)

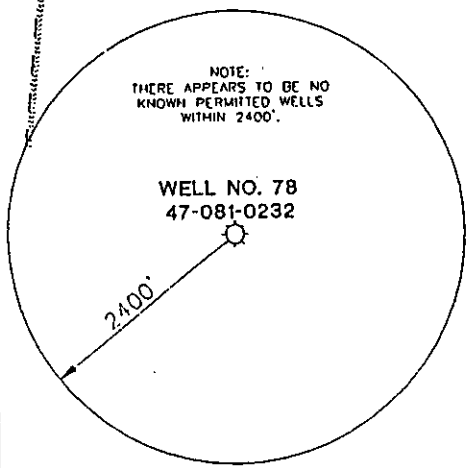
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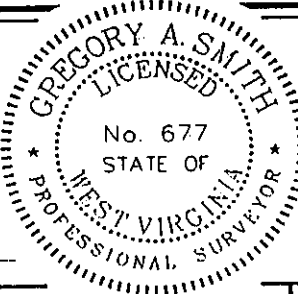
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P. S. *Gregory A. Smith*  
677



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DATE OCTOBER 18, 2001  
OPERATORS WELL NO. 78  
API WELL NO. 47-081-0232-0  
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PERMIT 0232-D