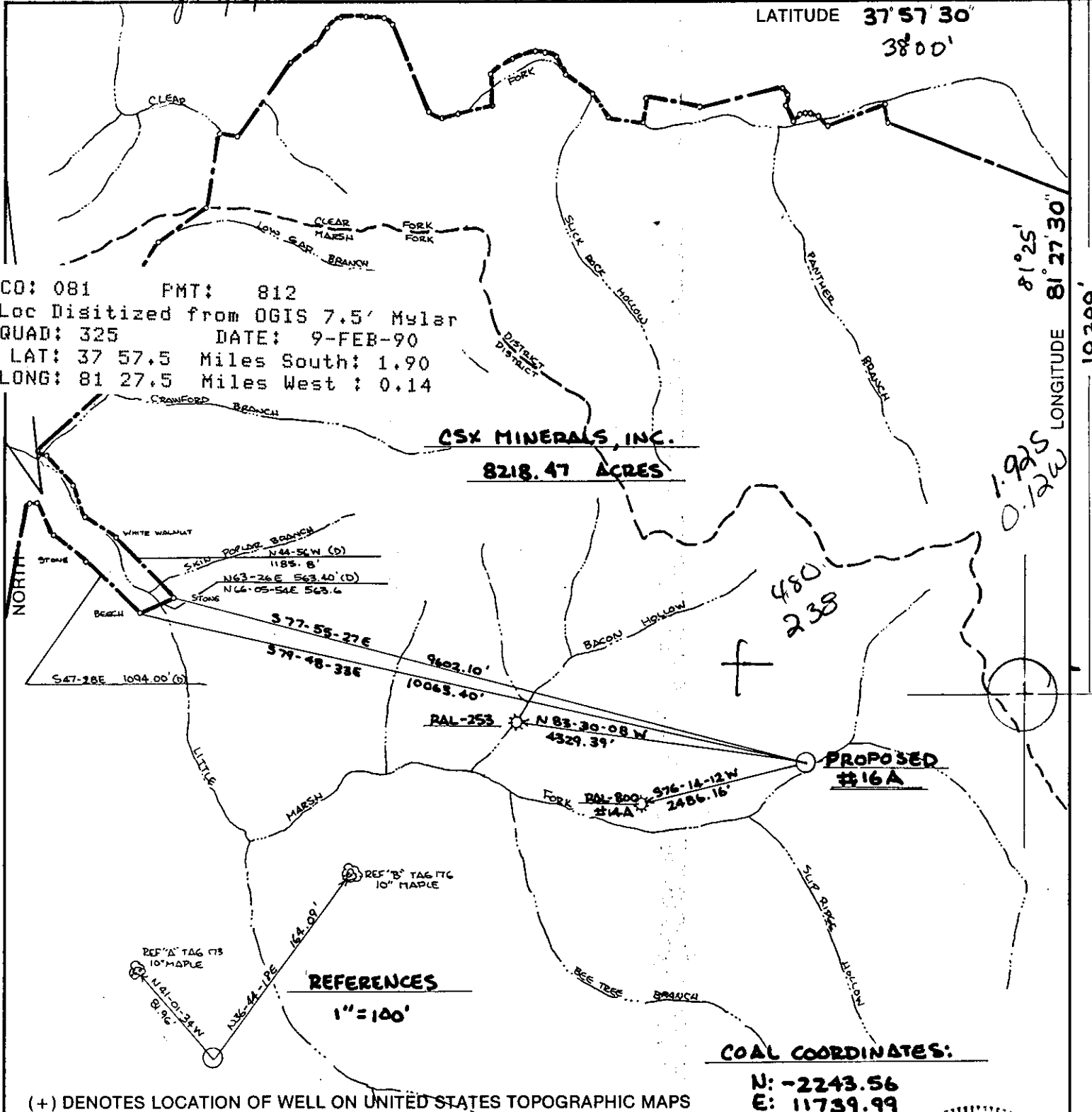


088 3/12/88

670'

LATITUDE 37° 57' 30"  
38° 00'

CO: 081 PMT: 812  
Loc Digitized from OGIS 7.5' Mylar  
QUAD: 325 DATE: 9-FEB-90  
LAT: 37 57.5 Miles South: 1.90  
LONG: 81 27.5 Miles West : 0.14

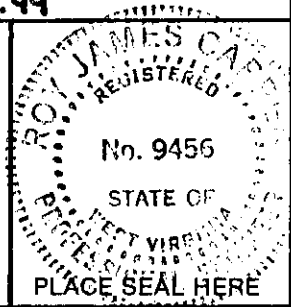


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

COAL COORDINATES:  
N: -2243.56  
E: 11739.99

FILE NO. POC-081-001  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1 IN 5000  
PROVEN SOURCE OF ELEVATION EXISTING WELL #14ADS (ELEV. = 1680.13')

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.  
(SIGNED) Ray James Copper  
R.P.E. 9456 L.L.S. \_\_\_\_\_



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE 15 FEBRUARY, 19 88  
OPERATOR'S WELL NO. DOROTHY #16A  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION 1723.3' WATERSHED LITTLE MARSH FORK  
DISTRICT MARSH FORK 2 COUNTY RALEIGH  
QUADRANGLE DOROTHY 7.5' 325 036 Eccles NW

SURFACE OWNER CSX MINERALS, INC. ACREAGE 8218.47  
OIL & GAS ROYALTY OWNER CSX MINERALS, INC. LEASE ACREAGE 8218.47  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
MAR 25 1988

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
WELL OPERATOR PEAKE OPERATING COMPANY DESIGNATED AGENT TIMOTHY K. WILCOX  
ADDRESS 423 CNB PLAZA ADDRESS 423 CNB PLAZA  
CHARLESTON, WEST VIRGINIA 25301 CHARLESTON, WEST VIRGINIA 25301

COUNTY NAME  
PERMIT

H.T. HALL 48673 FORM WW-6

DATE: 21-OCT-88  
API # 47-081-0812

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

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Well Operator's Report of Well Work

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
Operator's Well No: DORO-SARITA 16A

Farm Name: WESTERN POCAHONTAS PROP

LOCATION: Elevation: 1723.30

Quadrangle: DOROTHY

District: MARSH FORK

County: RALEIGH

Latitude: 10200 Feet South of 37 Deg. 57 Min. 30 Sec.

Longitude: 670 Feet West of 81 Deg. 27 Min. 30 Sec.

Company: PEAKE OPERATING COMPANY  
1401 CHARLESTON NAT'L PLAZA  
CHARLESTON, WV 25301

Agent: Thomas S. Liberatore

Inspector: JERRY HOLCOMB  
Permit Issued: 05/24/88  
Well work Commenced: 09/26/88  
Well work Completed: 10/04/88

Verbal Plugging  
Permission granted on:  
Rotary X Cable Rig  
Total Depth (feet) 5350' KB (DTD)  
Fresh water depths (ft) NONE

Salt water depths (ft) NONE

Is coal being mined in area (Y/N)?  
Coal depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8"	465'	465'	160 Sks
7"	1794'	1794'	295 Sks
4 1/2"	5318'	5318'	170 Sks
2 3/8"			

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4763' - 5269'  
Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 bbl/d  
Final open flow 440 Mcf/d Final open flow 0 bbl/d  
Time of open flow between initial and final tests 0 Hours  
Static rock Pressure \* psig (surface pressure) after 72 Hours

Second producing formation Gordon Pay zone depth (ft) 3597' - 36  
Gas: Initial open flow 73 Mcf/d Oil: Initial open flow  
Final open flow 1,410 Mcf/d Final open flow bbl/d  
Time of open flow between initial and final tests Hours  
Static rock Pressure \* 695 psig (surface pressure) after 72 Hours  
\* Comingleo

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

650  
mcf  
FOF  
for  
well

For: Thomas S. Liberatore  
PEAKE OPERATING COMPANY

NOV 18 1988

By: Thomas S. Liberatore - Agent  
Date: 11-11-88

-88 Perforated Devonian Shale with 25 holes from <sup>L. Huron</sup> 4763'-5269' KB N2, at 80,000 SCF/MIN. BDP 2892, ATP 3504, ISIP 1928, 1698# A/15 MIN

-88 Perforated Gordan with 30 holes from 3597'-3636' KB. 75Q Faom using 500G 15% HCl, 15,000# 80/100, 50,000# 20/40, 436 MCF N2, bbl total fluid. Dropped 250g acid and perf balls halfway thru frac. BDP 515#, ATP 1321#, ISIP 989#, 852# 15 MIN A/SI.

WELL LOG

FORMATION TYPE	TOP FEET	BASE FEET	REMARKS (water, coal, oil, gas)
Standstone	0		
Shale		415	
Sandstone	415	800	
Shale	800		No water reported
Sandstone	960		
Shale	1015		
Avis Lime	1400		
Shale	1870	1902	
Shale	1902	2381	
Maxton	2381		Gas Checks:
Big Lime	2440		2391 - N/S
Injun Sand & Shale	2450		2482
Upper Weir	2865		2910
Sandy Shale	2976		3050
Coffee Shale	3009		3474
Berea	3352		3569
Devonian Shale	3368		3879 52/10 W1"=76m
Gordan	3407		3/10 W2"=73m
Shale	3584		4435 3/10 W2"=73m
Gordan <sup>ptd?</sup>	3599		5350 2/10 W2"=60m
Shale	3618		
Lower Huron	3737		
Lava	4681		[Fault at C. 3597]
TD	5261		
TD	5350		
	5364		

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NOV 15 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

NOV 18 1988

FROM LOG 10' ABOVE G. L.

0210

23 081-0812  
 Renewed 3/23/8  
 Expires 3/23/8

FORM WW-2B

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: PEAKE OPERATING COMPANY <sup>669</sup> 37100, 2, 325
- 2) Operator's Well Number: Dorothy-Sarita #16-A 3) Elevation: 1723'
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): Devonian Shale <sup>441</sup>
- 6) Proposed Total Depth: 5325 feet
- 7) Approximate fresh water strata depths: 370'
- 8) Approximate salt water depths: 500'? <sup>1383</sup>
- 9) Approximate coal seam depths: 200' <sup>113-118'</sup> 648'-653'
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /  
*From Raleigh 280, 238, 253, 800*
- 11) Proposed Well Work: Drill and stimulate.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	12-1/4	H-40	42#	30	30	CTS
Fresh Water	9-5/8	H-40	32#	420	420	380CSR18-11.3 CTS
Coal						
Intermediate	7	J-55	17#	1525	1525	380CSR18-11.22 CTS
Production	4-1/2	J-55	9.5#	5325	5325	380CSR18-11.1 150 sks.
Tubing	2-3/8					
Liners						

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 MAR 04 1988

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: 18 Well Work Permit 18 Reclamation Fund 18 WPCP  
 Plat 18 WW-9 18 WW-2B 18 Bond 50 Blanket Agent

(Type)

6908  
 6720

**RECEIVED**  
MAR 05 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: February 26, 1988  
Operator's well number  
Dorothy-Sarita #16-A  
API Well No: 47 - 081 - 0812  
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
 (a) Name Western Pocahontas Prop. Ltd. Name None  
 Address Box 2827 Ptnrship Address \_\_\_\_\_  
Huntington, WV 25727  
 (b) Name Attn: K. Wall (b) Coal Owner(s) with Declaration  
 Address \_\_\_\_\_ Name Western Pocahontas Prop. Ltd. Ptnrship.  
Huntington, WV 25727  
 (c) Name \_\_\_\_\_ Address Box 2827  
 Address \_\_\_\_\_ Name Attn: Kevin Wall  
 Address \_\_\_\_\_
- 6) Inspector Rodney Dillon (c) Coal Lessee with Declaration  
 Address Box 1526 Name Bethlehem Steel Corp. Attn: Tim Comer  
Sophia, WV 25921 Address 7012 MacCorkle Ave., S.E.  
 Telephone (304)- \_\_\_\_\_ Charleston, WV 25304

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

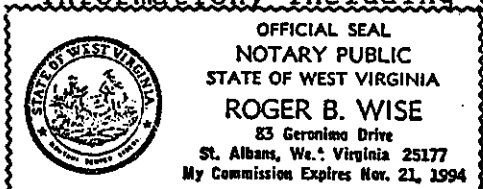
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties, by:  
 Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



Well Operator PEAKE OPERATING COMPANY  
By: [Signature]  
Its: Vice President/General Manager  
Address 423 Charleston National Plaza  
Charleston, WV 25301  
Telephone (304) 342-6970

Subscribed and sworn before me this 3<sup>RD</sup> day of MARCH, 1988

[Signature] Notary Public  
My commission expires 21 NOV 1994