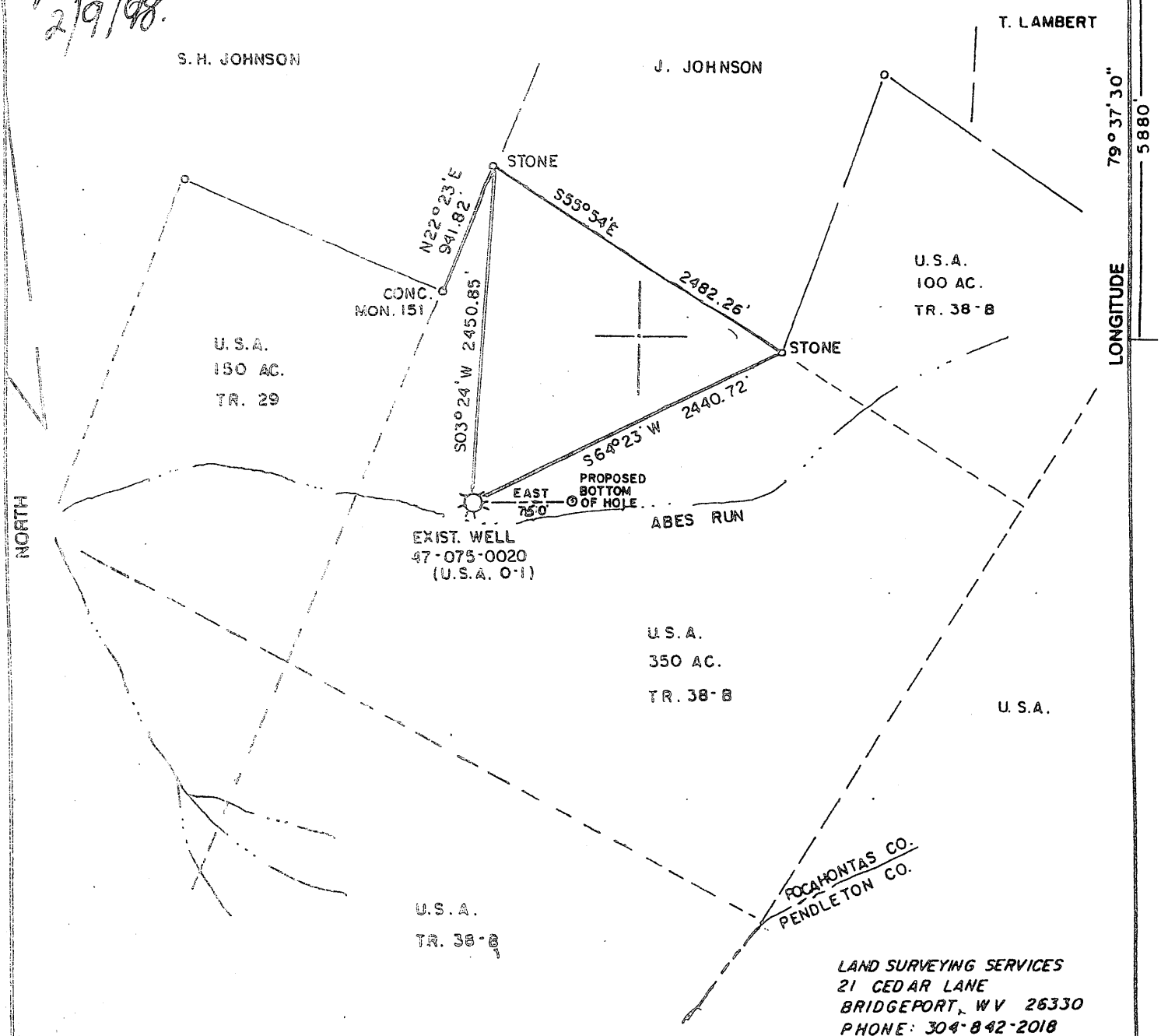


*James*  
*2/19/98.*

6920'  
LATITUDE 38°37'30"



(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION Rd. inter. 2800'  
W. of location El. = 3480'

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) *[Signature]*  
R.P.E. \_\_\_\_\_ L.L.S. 674  
Stephen D. Losh

PLACE SEAL HERE

WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506



DATE September 04, 19 97  
OPERATOR'S WELL NO. USA 0-1  
API WELL NO.

47 075 00020 H-P  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 3567.50' WATER SHED Abes Run  
DISTRICT Greenbank COUNTY Pocahontas  
QUADRANGLE Thornwood 7.5 min.  
SURFACE OWNER U.S.A. ACREAGE 350  
OIL & GAS ROYALTY OWNER U.S.A. LEASE ACREAGE 2343.84  
LEASE NO. BLM A-017120 (CA-8213)

COUNTY NAME

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Permanent Plug Back cut window drill out (11000' + 9' @ 6000' + deep produce  
PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION Oriskany ESTIMATED DEPTH 6115' (MD), 6005' (TVD) Oriskany, existing well drilled in 1968  
WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT JOHN ABSHIRE  
ADDRESS Rt. 3, Box 583 ADDRESS Rt. 3, Box 583

PERMIT

AUG 14 2009

FORM WVA-9

*Jamie*  
*2/9/98*

6920' LATITUDE 38°37'30"

S. H. JOHNSON

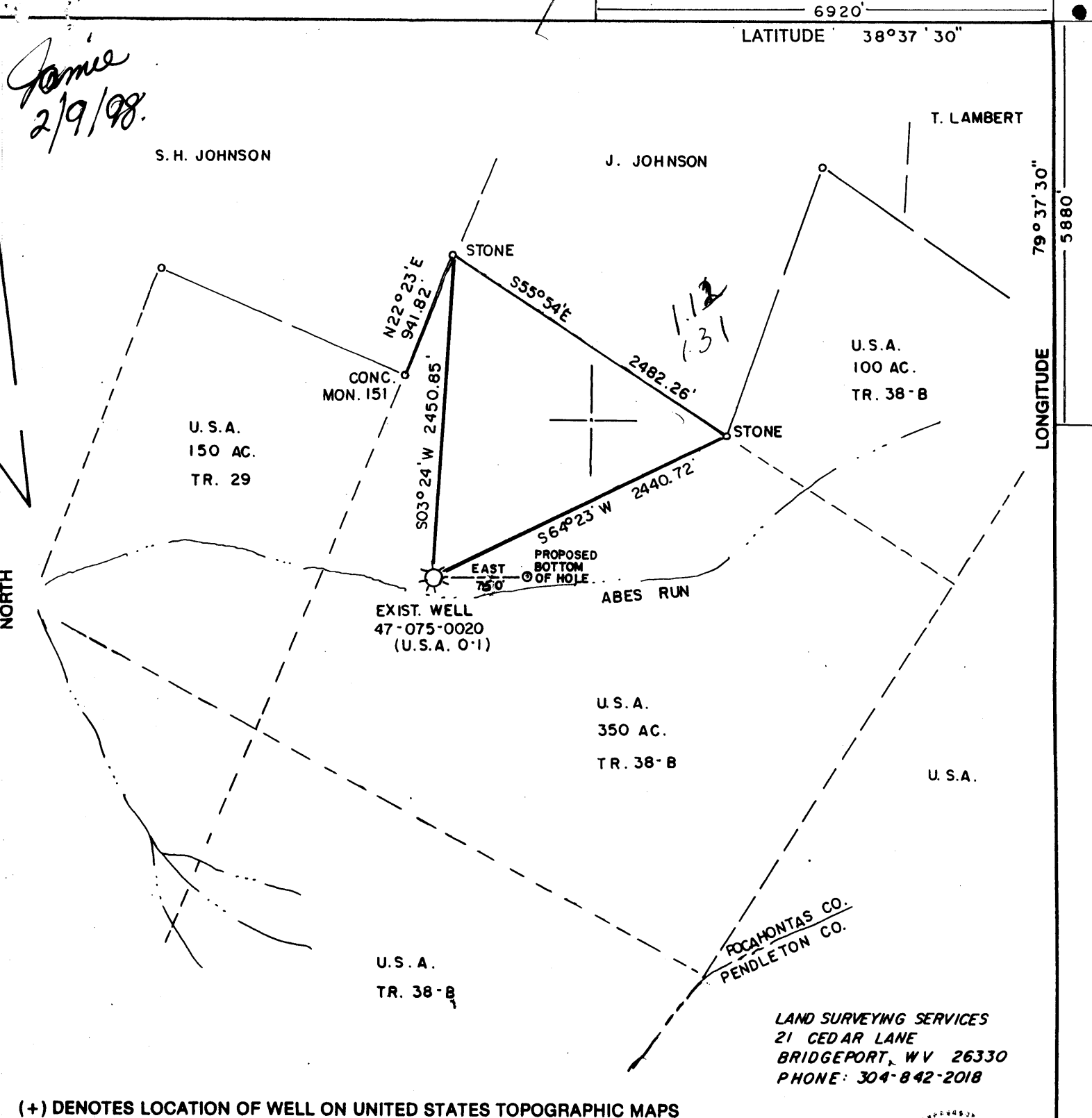
J. JOHNSON

T. LAMBERT

NORTH

LONGITUDE 79°37'30"

5880



U.S.A.  
150 AC.  
TR. 29

U.S.A.  
100 AC.  
TR. 38-B

EXIST. WELL  
47-075-0020  
(U.S.A. O-1)

U.S.A.  
350 AC.  
TR. 38-B

U.S.A.

U.S.A.  
TR. 38-B

POCAHONTAS CO.  
PENDLETON CO.

LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 in 200  
PROVEN SOURCE OF ELEVATION Rd. inter. 2800'  
W. of location El. = 3480'

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) *[Signature]*

R.P.E. \_\_\_\_\_ L.L.S. 674  
Stephen D. Losh

PLACE SEAL HERE

WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506



DATE September 04, 19 97  
OPERATOR'S WELL NO. USA 0-1  
API WELL NO.

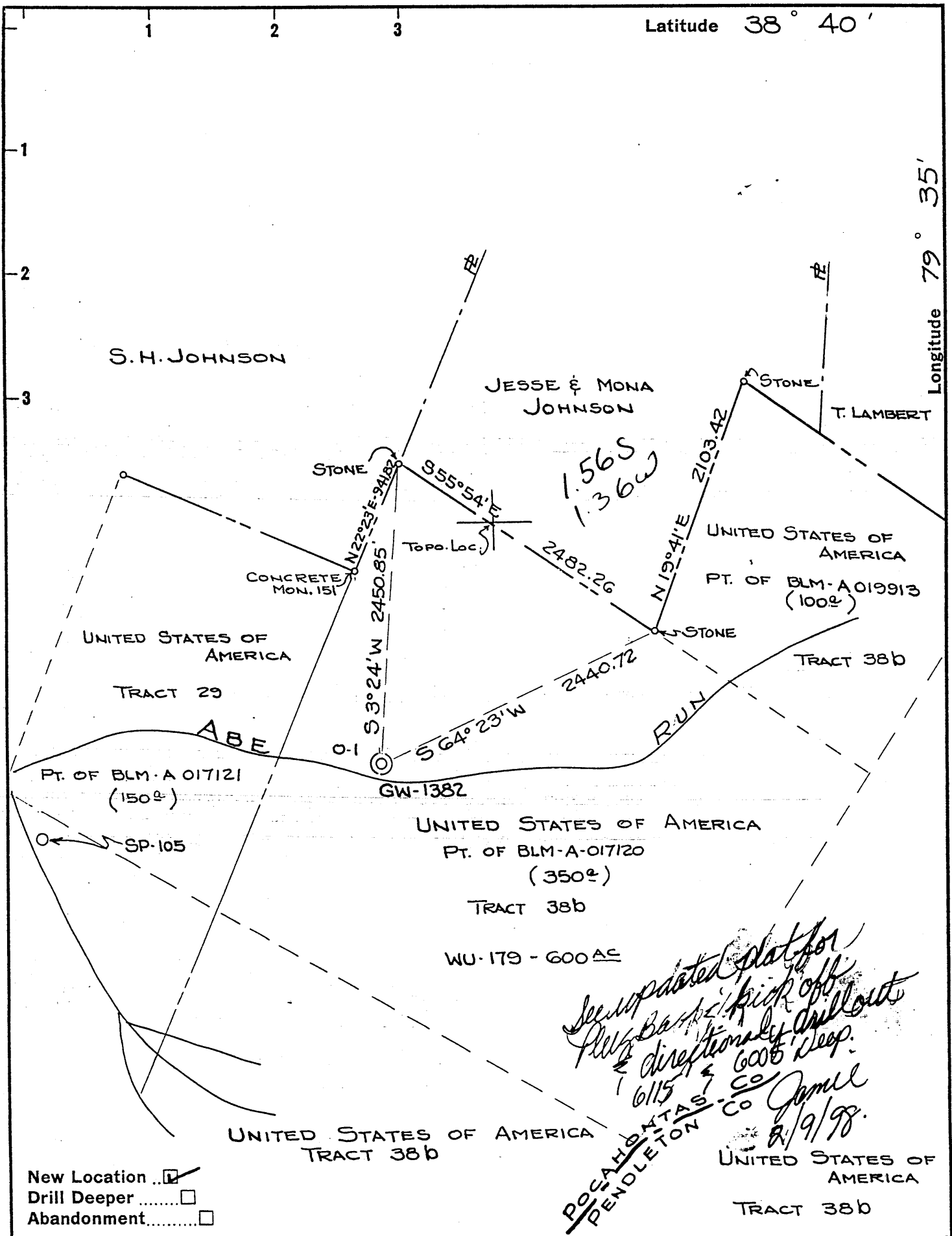
WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 3567.50' WATER SHED Abes Run  
DISTRICT Greenbank COUNTY Pocahontas  
QUADRANGLE Thornwood 7.5 min. *workover-directional well suffix = N*

SURFACE OWNER U.S.A. ACREAGE 350  
OIL & GAS ROYALTY OWNER U.S.A. LEASE ACREAGE 2343.84  
LEASE NO. BLM A-017120 (CA-8213)

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
*Permanent Plug back cut window drill out @ 6000' + 7' @ 6000' + deep fracture*  
PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION Oriskany ESTIMATED DEPTH 6115' (MD), 6005' (TVD) *Oriskany existing well drilled in 1968*  
WELL OPERATOR Cabot Oil & Gas Corporation DESIGNATED AGENT JOHN ABSHIRE  
ADDRESS Rt. 3, Box 583 ADDRESS Rt. 3, Box 583  
Clarksburg, WV 26301 Clarksburg, WV 26301

COUNTY NAME

PERMIT



Company Cabot Oil + Gas Corp  
COLUMBIAN CARBON CO.

Address Box 873, CHARLESTON, W.VA.

Farm UNITED STATES OF AMERICA  
PT. OF WU-179-600AC

Tract 38b Acres 350 Lease No. BLM-A017120

Well (Farm) No. 0-1 Serial No. GW-1382

Elevation (Spirit Level) 3550.80'

Quadrangle SPRUCE KNOB-5 S416-W-360

County POCAHONTAS District GREENBANK

Engineer R. B. Anderson

Engineer's Registration No. 2074

File No. \_\_\_\_\_ Drawing No. W-19-62

Date 5-2-62 Scale 1"=1000'

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

WELL LOCATION MAP  
FILE NO. Poca-20 DD-

*directionally*  
+ 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.

Poca 0020A

Latitude 38° 40'

Longitude 79° 35'

S. H. JOHNSON

JESSE & MONA JOHNSON

STONE

T. LAMBERT

STONE

Topo. Loc.

UNITED STATES OF AMERICA  
PT. OF BLM-A 019913  
(100±)

CONCRETE MON. 151

UNITED STATES OF AMERICA

TRACT 29

ABE

PT. OF BLM-A 01721  
(150±)

SP-105

GW-1382

UNITED STATES OF AMERICA  
PT. OF BLM-A-01720  
(350±)

TRACT 38b

WU-179-600±

RUN

TRACT 38b

UNITED STATES OF AMERICA  
TRACT 38b

UNITED STATES OF AMERICA

New Location   
Drill Deeper   
Abandonment

19  
4.07 S.  
3.68 W.

~~POCAHONTAS CO~~  
~~PENDELTON CO~~  
5 SW (I-13)

7.5' loc  
1.11 S 38° 37' 30"  
1.31 W 79° 37' 30"

Company COLUMBIAN CARBON CO.  
Address BOX 873, CHARLESTON, W.VA.  
Farm UNITED STATES OF AMERICA  
PT. OF WU-179-600±  
Tract 38b Acres 350 Lease No. BLM-A017120  
Well (Farm) No. 0-1 Serial No. GW-1382  
Elevation (Spirit Level) 3550.80' *Thornwood*  
Quadrangle SPRUCE KNOB-5 S416-W360 *7.5' quad*  
County POCAHONTAS District GREENBANK  
Engineer R. B. Anderson  
Engineer's Registration No. 2074  
File No. \_\_\_\_\_ Drawing No. W-19-62  
Date 5-2-62 Scale 1"=1000'

STATE OF WEST VIRGINIA *Calc 15' loc*  
DEPARTMENT OF MINES 3.995  
OIL AND GAS DIVISION 3.56w  
CHARLESTON

WELL LOCATION MAP  
FILE NO. Poca-20

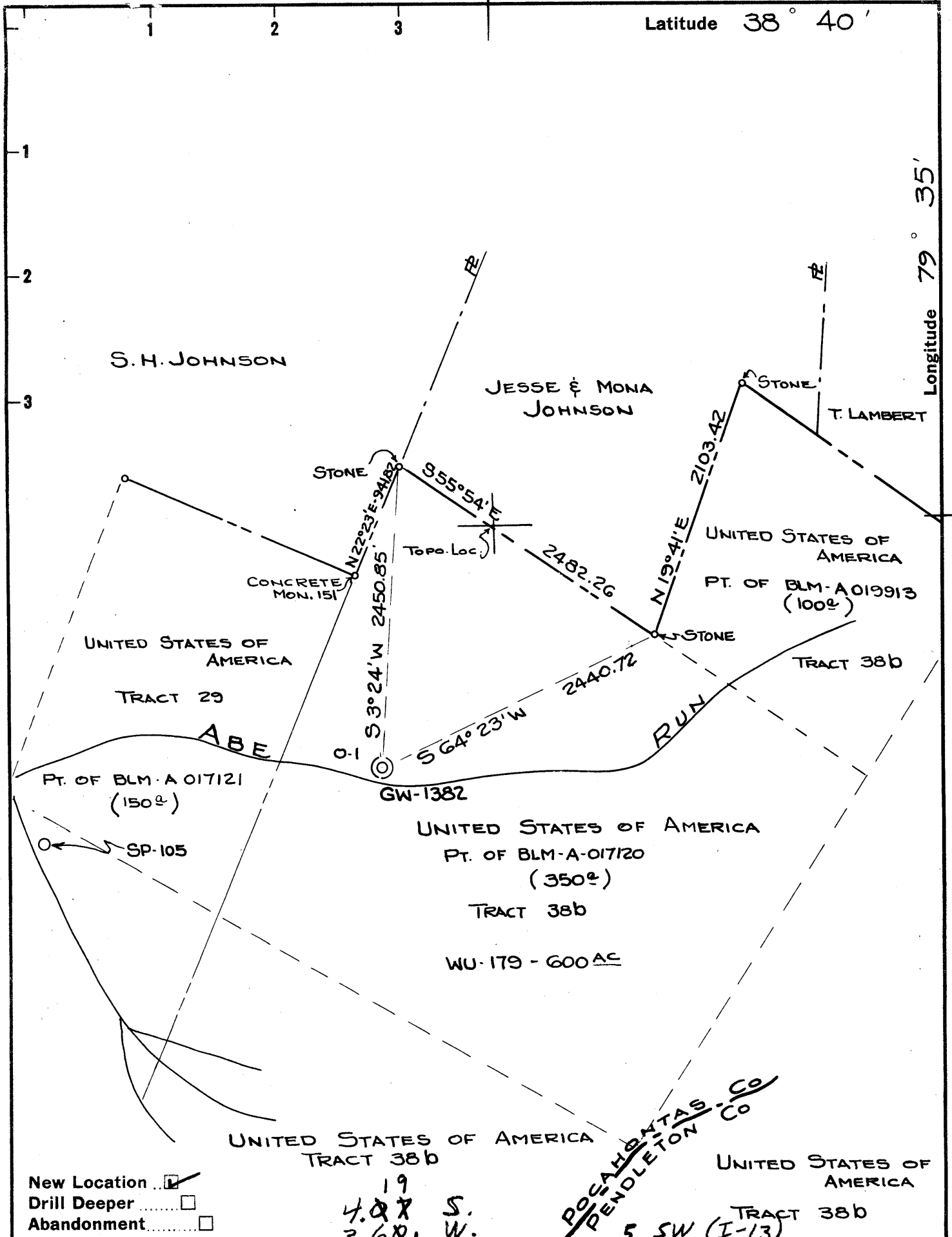
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

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

NOE 156 IMPERIAL TRACING CLOTH T.M. 68006  
Samples 2-B (0-6113')

1-1 0

*Deep Well*



New Location   
 Drill Deeper   
 Abandonment

19  
 4.87 S.  
 3.68 W.

~~POCAHONTAS CO~~  
~~PENDLETON CO~~  
 5 SW (I-13)

Company COLUMBIAN CARBON CO.  
 Address BOX 873, CHARLESTON, W.VA.  
 Farm UNITED STATES OF AMERICA  
 Tract 38b Acres 350 Lease No. BLM-A017120  
 Well (Farm) No. 0-1 Serial No. GW-1382  
 Elevation (Spirit Level) 3550.80'  
 Quadrangle SPRUCE KNOB-5 5416-W-360  
 County POCAHONTAS District GREENBANK  
 Engineer R. B. Anderson  
 Engineer's Registration No. 2074  
 File No. \_\_\_\_\_ Drawing No. W-19-62  
 Date 5-2-62 Scale 1"=1000'

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

**WELL LOCATION MAP**  
 FILE NO. Poca-20

+ 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 21

Quadrangle Spruce Knob SW

Permit No. POCA-20

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company Columbian Carbon Co., Oper.  
Address Box 873, Charleston 23, W. Va.  
Farm United States of America Acres 350.00  
Location (waters) Abe Run  
Well No. O-1, GW-1382 Elev. 3550.80'  
District Greenbank County Pocahontas  
The surface of tract is owned in fee by Bureau of Land Management  
Interior Bldg. Address Washington, D. C.  
Mineral rights are owned by same  
Address \_\_\_\_\_  
Drilling commenced 5-18-62  
Drilling completed 6-2-62  
Date Shot not shot From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
\_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
Volume show \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED not acidized

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer _____
16			none
13 3/8" 48#	30'6"	30'6"	Size of _____
10			Depth set _____
8 1/4" 24#	2516'7"	2516'7"	Perf. top _____
6 3/8"			Perf. bottom _____
5 3/16" 17#	6153'6"	6153'6"	Perf. top _____
3			Perf. bottom _____
2 3/8" 4.7#	5989'6"	5989'6"	
Liners Used	w/ 2" cage as siphon string		

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
see reverse side

COAL WAS ENCOUNTERED AT none FEET \_\_\_\_\_ INCHES \_\_\_\_\_  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

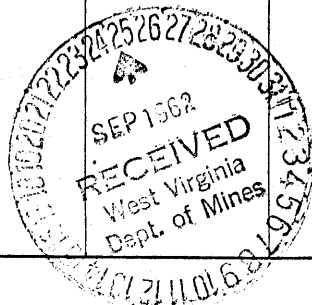
WELL FRACTURED see reverse side

RESULT AFTER TREATMENT 6/10 W. 2" = 103,000 cu. ft. (Chert and Oriskany)

ROCK PRESSURE AFTER TREATMENT 11 days 1671# B. H. -- 1626# tubing

Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Lime			0	42			
Lime and Shale			42	130			
Shale			130	300			
Sand			300	350			
Shale and Lime streaks			350	750			
Sand and Shale			750	918			
Sand, Lime and Shale			918	1073			
Shale and Lime streaks			1073	1360			
Sandy Lime			1360	1560			
Lime and Shale			1560	1640			
Lime and Sand			1640	1755			
Lime and Shale			1755	2000			
Shale			2000	2260			
Shale and Lime streaks			2260	2507			
Shale			2507	2985			
Shale and Lime streaks			2985	4165			
Shale			4165	5460			
Lime and Shale streaks			5460	5678			
Shale			5678	5740			
Sand			5740	6087			
Chert			6087	6113			
Total depth				6113'			
Samples show:							
Chert			5587	5627			
1st Oriskany			5758	5914			
2nd Oriskany			5914	6088			



Formation	Color	Hard or Soft	Top 2'	Bottom	Oil, Gas or Water	Depth Found	Remarks
<b>CASING RECORD</b>							
5-18-62	Ran 13-3/8" drive pipe at 30'DLM-cemented with 9 sacks.						
5-26-62	Ran 8-5/8" with shoe 2507'DLM-gelled with 15 sacks. Cemented with 50 sacks - circulation.						
6-6-62	Ran 5-1/2" 17# casing at total depth with Whirler Guide Shoe on bottom-differential fill up collar on 1st joint - centralizers at 6,078' 6,017', 5,926' 5,861' 5,764' and 5,576'. Circulated mud until in good shape - 9.3#. Ran 2 sacks Bazflos mixed with 30 bbls. water followed by 5 bbls. water. Ran 250 sacks cement with 1% Flac - pumped down with 142 bbls. fresh water-pressure 1200# when plug down.						
-----							
7-9-62	Perforated 5" casing at Oriskany Horizon 5940-50' 2 shots/foot with 1/2" jets-good show gas after perforating.						
7-12-62	Perforated 5832-36' (Oriskany) 4 shots per foot.						
7-13-62	Perforated 5832-5987' (Oriskany)						
<b>FRACTURED THE ORISKANY 7-17-62.</b>							
Show of gas before fracturing. Pumped in 500 gallons MCA, 4,000 gallons regular acid-loaded hole. Pumped acid at 2,000# - broke to 1,500# - displaced at 2500-2700# with 1 Allison pump - at 2900# with 2 Allison pumps. Let set one hour 20 minutes-pressure dropped to 2100# -broke down with 3 Allisons - 60 bbls. at 3200#-started sand 1/4#/gallon-increased to 2#. Pressure 3200# to 3600#. Flushed with 15 bbls. Used 35,000# sand, 1,286 bbls. water. Average injection rate 21-24 bbls/minute. 10 minutes after shut down 2700#-opened well-flowed back. Bailed-no gas. Pulled tubing - gas gauging 28 MCF.							
<b>FRACTURED THE CHERT 8-1-62.</b>							
Perforated Chert Horizon 5589-5607' 4 shots/foot. Set Bridge Plug below Chert to seal off Oriskany. Pumped in 1,500 gallons acid-displaced with 2 Allisons at 2900#-broke to 2800#. Shut down 1-1/2 hours. Pressure dropped to 2300# and held. Frac started at 2700# with 1/4# sand/gallon. In 4 minutes increased to 1-1/4# - in 20 minutes to 1-1/2#. Injected 25 perf balls - no effect when hit bottom - decreased sand to 1# when injecting balls. In 4 minutes increased to 1-1/4# - in 4 minutes increased to 1-1/2#. Injected 25 more balls-pressure went to 2900# - at 1-3/4# pressure started up. Started flush - got 85 bbls. flush in when screened out - went to 4,800#. Used 900 bbls. sand laden fluid, 44,000# sand, 1100 bbls. fluid total - 2 drums TMN - 2 drums T-08.							
Final open flow 6/10 W. 2" = 103MCF Chert and Oriskany.							

Date.....September 24....., 1962... 6

APPROVED Columbian Carbon Co., Oper., Owner

By W. S. Moore, Mgr. of Prod.  
(Title)

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work

Farm name: U.S. Dept. of Agriculture Operator Well No.: U.S. America O-1

LOCATION: Elevation: 3,567.50 Quadrangle: Thornwood  
District: Greenbank County: Pocahontas  
Latitude: 5,880 feet South of 38 DEG. 37 MIN. 30 SEC.  
Longitude: 6,920 feet West of 79 DEG. 37 MIN. 30 SEC.

Company: Cabot Oil & Gas Corporation  
400 Fairway Drive: Suite 400  
Coraopolis, PA 15108-4308

Agent: John Abshire  
Inspector: Craig Duckworth  
Permit Issued: 2/9/98  
Well Work Commenced: 5/19/98  
Well Work Completed: 6/24/98  
Verbal Plugging  
Permission granted on:  
Rotary X Cable      Rig  
Total Depth (feet) 5850' (MD)  
5662' (TVD)  
Fresh Water Depths (ft) --  
Salt Water Depths (ft) --

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up Cu. Ft.
13-3/8"	30.6'	30.6'	
8-1/4"	2516.7'	2516.7'	
*5-1/2"	6153.6'	2761.6'	
4-1/2"	5841'	5841'	260 sks Class "A"

Is coal being mined in area (Y / N)?      N  
Coal Depths (ft)      --

\* Original wellbore plugged back to 2811' for kickoff

OPEN FLOW DATA

Producing formation      Oriskany (2nd Bench)      Pay zone depth (ft)      5768' - 5778'  
Gas: Initial open flow      231      MCF/d      Oil: Initial open flow      N/A      Bbl/d  
Final open flow      1,200      MCF/d      Final open flow      N/A      Bbl/d  
Time of open flow between initial and final tests      26.5      Hours  
Static rock pressure      1700      psig (surface pressure after      12      Hours

Second producing formation      Pay zone depth (ft)       
Gas: Initial open flow      MCF/d      Oil: Initial open flow      Bbl/d  
Final open flow      MCF/d      Final open flow      Bbl/d  
Time of open flow between initial and final tests      Hours  
Static rock pressure      psig (surface pressure after      Hours

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 GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: CABOT OIL & GAS CORPORATION

By:      Ray Rudnick Jr.       
Date:      8-28-98     

POCAHONTAS



**OPEN FLOW DATA**

Perf'd 2nd Bench of Oriskany @ 5768' - 5778'. Broke down with 500 gals 15% HCl acid. BDP: 4300 psi. ISIP: 3000 psi. Fractured with 25# x-link gel fluid (1670 bbls), 94,500# 20/40 mesh sand. ATP: 4180 psi. MTP: 4800 psi. AIR: 30 bpm. ISIP: 3540 psi.

FORMATION	TOP		BOTTOM		REMARKS
	MD	TVD	MD	TVD	
Tully	4916'	4834'	5147'	5041'	
Upper Marcellus	5147'	5041'	5228'	5114'	
Purcell	5228'	5114'	5258'	5141'	
Lower Marcellus	5258'	5141'	5312'	5190'	
Onondaga	5312'	5190'	5436'	5301'	
Huntersville	5436'	5301'	5527'	5382'	
Needmore - 1st	5527'	5382'	5558'	5447'	
Needmore - 2nd	5558'	5447'	5642'	5486'	
Oriskany	5642'	5486'	5850'	5672'	

5850

2811

3039 "new ftg"



STATE OF WEST VIRGINIA  
**OIL AND GAS CONSERVATION COMMISSION**  
#10 McJUNKIN ROAD  
NITRO, WEST VIRGINIA 25143-2506

January 27, 1998

Division of Environmental Protection  
Office of Oil and Gas  
Nitro, West Virginia

Re: Application for Permit #47-075-00020ST to drill deep well.

COMPANY: Cabot Oil and Gas Corporation

FARM: USA #O-1

COUNTY: Pocahontas DISTRICT: Greenbank QUAD: Thornwood

The application of the above company is Approved for Oriskany.  
(Approved or Disapproved)

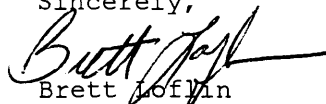
Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **yes**

2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; **none**

3.) Provided a plat showing that the proposed location is a distance of **1,500** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

  
Brett Loflin  
Engineer

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

WELL WORK PERMIT

This permit, issued to CABOT OIL & GAS CORPORATION is evidence of permission granted to perform the specified well work at the location described on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the \_\_\_ pages attached hereto. Notification shall be given to the Oil and Gas Inspector CRAIG DUCKWORTH at 304-543-5342 prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be reported to 1-800-654-3312.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and in addition may result in civil and/or criminal penalties.

Well work to be conducted under this permit shall be commenced within two (2) years from date of issue.

Theodore M. Streit  
Chief

By: 

Title: 

Operator's Well No: U.S.AMERICA O-1

Farm Name: U.S. DEPT AGRICULTURE

API Well Number : 47- 75-00020 H

Date Issued : 02/09/98

Expires two (2) years from issue date.

075-0020-H - redrill-side track

STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

24814

- 1) Well Operator: Cabot Oil & Gas Corporation 8145 (2) 639
- 2) Operator's Well Number: United States of America O-1 3) Elevation: 3567.50
- 4) Well Type: a) Oil      / or Gas X /  
b) If Gas: Production X /Underground Storage      /  
Deep X / Shallow      /
- 5) Proposed Target Formation(s): Oriskany
- 6) Proposed Total Depth: 6005' TD/6115' MD feet
- 7) Approximate fresh water strata depths: N/A
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes      / No X /
- 11) Proposed Well Work: Cut and remove 5-1/2" casing @ ± 4000'. Plug well back to ±3000'. Kick off and drill sidetrack to Oriskany formation.

RECEIVED  
JAN 2 1992  
Environmental Protection  
Division of  
Office of Oil & Gas  
Permitting

12) Existing.

CASING AND TUBING PROGRAM

4000' of 5 1/2" removed.

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	13-3/8"		48#	30'	30'	9 sks
Fresh Water	8-5/8"		24#	2508'	2508'	500 sks (CTS)
Coal						<i>Plugging</i>
Intermediate						
Production	*4-1/2"	N-80	11.6#	6115'	6115'	250 sks
Tubing						39058/18-11-1
Liners						

\*Existing 5-1/2" casing will be cut at TOC (±4400') and pulled. New 4-1/2" casing will be run to TD of new sidetrack well.

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

1400003372

For Office of Oil and Gas Use Only

- Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP
  - Plat  WW-9  WW-2B  Bond \_\_\_\_\_  Agent
- (Type)

RECEIVED  
WV Division of  
Environmental Protection  
JAN 1 1998  
Permitting  
Office of Oil & Gas

1) Date January 12, 1998  
2) Operator's well number  
United States of America O-1  
3) API Well No 47 - 075 - 0020-H  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served  
(a) Name U.S. Dept. of Agriculture  
Address U.S. Forest Service  
Monongahela National Forest  
200 Sycamore Street  
Elkins, WV 26241-3962  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator  
Name Not Operated  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Craig Duckworth  
Address Box 107, Davisson Route  
Gassaway, WV 26624  
Telephone (304) 626-0789

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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**  
X Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)  
I certify that as required under Chapter 22 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)  
X Certified Mail (Postmarked postal receipt attached)  
   Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 Cabot Oil & Gas Corporation  
By [Signature]  
Its Geologist  
Address 400 Fairway Drive Suite 400  
Coraopolis, PA 15108  
Telephone (412)299-7000

Subscribed and sworn before me this 21st day of \_\_\_\_\_ January \_\_\_\_\_, 1998  
[Signature]  
My commission expires \_\_\_\_\_ April 30, 2001

Notarial Seal  
Susan K. Hayden, Notary Public  
Moore Twp., Allegheny County  
My Commission Expires April 30, 2001  
Member, Pennsylvania Association of Notaries

WR-38  
DATE: September 29, 2009

API #47-075-00020

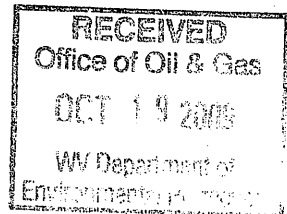
STATE OF WEST VIRGINIA  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: USA Operator Well No.: 0-1

LOCATION: Elevation: \_\_\_\_\_ Quadrangle: Spruce Knob SW  
District: Green Bank County: Pocahontas  
Latitude: 5880 Feet South of 38 Deg. 37 Min. 30 Sec.  
Longitude: 6920 Feet West of 79 Deg. 37 Min. 30 Sec.



Well Type: OIL \_\_\_\_\_ GAS X

Company: Chesapeake Appalachia, LLC Coal Operator US Forest Service/Mon Nat'l Forest  
PO Box 18496 or Owner 200 Sycamore Street  
Oklahoma City, OK 73154 Elkins, WV 26241

Agent: Tal Oden Coal Operator US Dept of the Interior BLM  
or Owner 626 E. Wisconsin Ave., Suite 200  
Milwaukee, WI 53202

Permit Issued Date: 08/14/2009

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Upshur ss:

Alvin Sorcan and Phillip Pulliam being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Dave Glibert Oil and Gas Inspector representing the Director, say that said work was commenced on the 9th day of September, 2009, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
			2 3/8" 5647'	0'
Bridge Plug	5703'	5705'		
Gel	5705'	0'	4 1/2" 2690'	3151'
Cement	2700'	2325'		
Cement	250'	0'	8 5/8" 0'	2517'
			13 3/8" 0'	30'

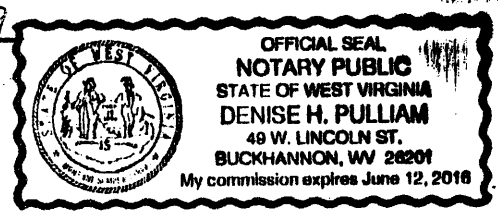
Description of monument: Underground 6"x6" Aluminum plate with API # and that the work of plugging and filling said well was completed on the 15th day of September, 2009.

And further deponents saith not.  
Alvin Sorcan  
Phillip O. Pulliam

Sworn and subscribe before me this 30th day of September, 2009  
My commission expires: June 12, 2016

Denise H. Pulliam  
Notary Public

Oil and Gas Inspector: [Signature]



OCT 23 2009