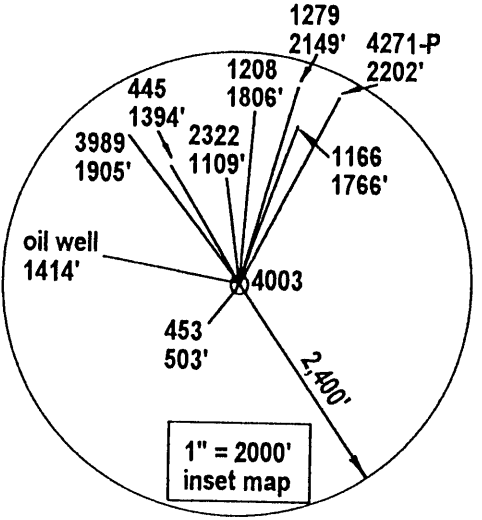


LATITUDE 39 - 20 - 00  
 9,875' West  
 85' South



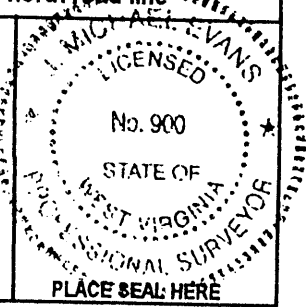
NAD 27 WV North Coor.  
 N 305,876.5 E 1,648,448.2

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

FILE NUMBER: \_\_\_\_\_  
 DRAWING NUMBER: \_\_\_\_\_  
 SCALE: 1" = 500 ft.  
 MINIMUM DEGREE OF ACCURACY: 1 in 2500  
 PROVEN SOURCE OF ELEVATION: GPS Survey (submeter)

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) *J. Michael Evans*  
 J. Michael Evans, PS 900



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WV 25143-2506  
 FORM WW-6

LAND SURVEYING SERVICES  
 21 CEDAR LANE, BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018 OR 842-6762

DATE: August 6, 2002

OPERATORS WELL NO.: 11585

API WELL NO. 47 - 017 - 4003 F

STATE COUNTY PERMIT  
 FRAC CANCELLED

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1,010' WATERSHED Nutter Fork  
 DISTRICT West Union COUNTY Doddridge  
 QUADRANGLE Smithburg

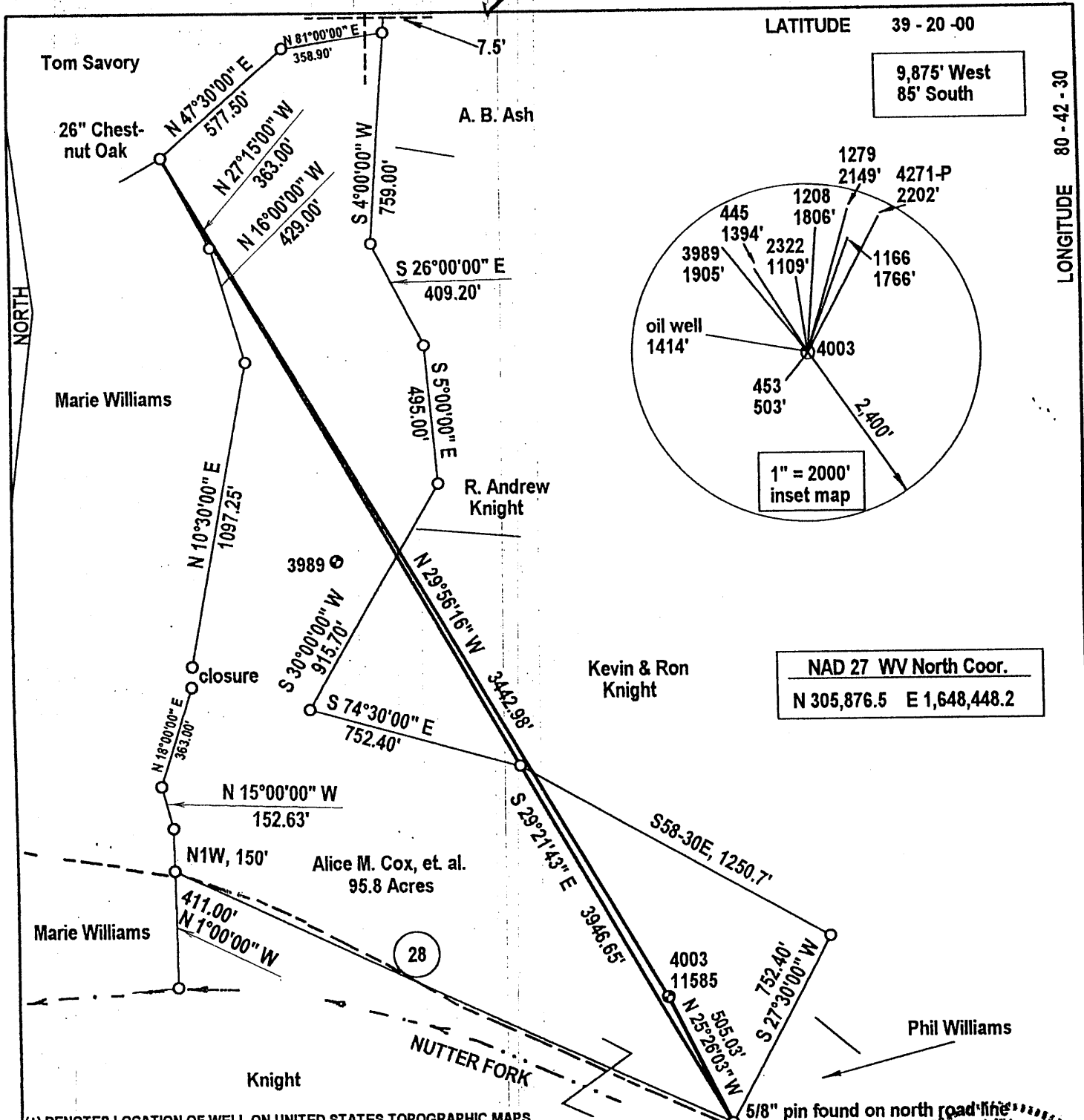
SURFACE OWNER Fred A. & Mary E. Knight LEASE NUMBER \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER Alice M. Cox & G. E. Knight ACREAGE 16.  
 LEASE ACREAGE 95.8

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

TARGET FORMATION Benson-Riley PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 ESTIMATED DEPTH 5500'

WELL OPERATOR DOMINION EXPLORATION & PRODUCTION, INC. DESIGNATED AGENT Rodney J. Biggs  
 ADDRESS P. O. Box 1248, Jane Lew, WV 26378 ADDRESS P. O. Box 1248, Jane Lew, WV 26378

COUNTY NAME PERMIT  
 Doddridge 4003 CANC.

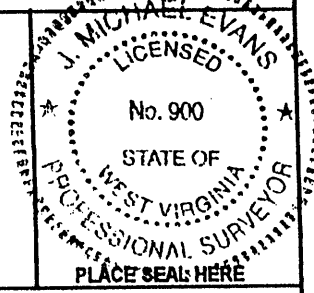


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: \_\_\_\_\_  
 DRAWING NUMBER: \_\_\_\_\_  
 SCALE: 1" = 500 ft.  
 MINIMUM DEGREE OF ACCURACY: 1 in 2500  
 PROVEN SOURCE OF ELEVATION: GPS Survey (submeter)

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) *J. Michael Evans*  
 J. Michael Evans, PS 900



STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WV 25143-2506  
 FORM WW-6

LAND SURVEYING SERVICES  
 21 CEDAR LANE, BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018 OR 842-6762

DATE: August 6, 2002

OPERATORS WELL NO.: 11585

API WELL NO. 47 - 017 - 4003 F

STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION \_\_\_ STORAGE  DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1,010' WATERSHED Nutter Fork  
 DISTRICT West Union COUNTY Doddridge  
 QUADRANGLE Smithburg LEASE NUMBER \_\_\_\_\_

SURFACE OWNER Fred A. & Mary E. Knight ACREAGE 16.  
 OIL & GAS ROYALTY OWNER Alice M. Cox & G. E. Knight LEASE ACREAGE 95.8

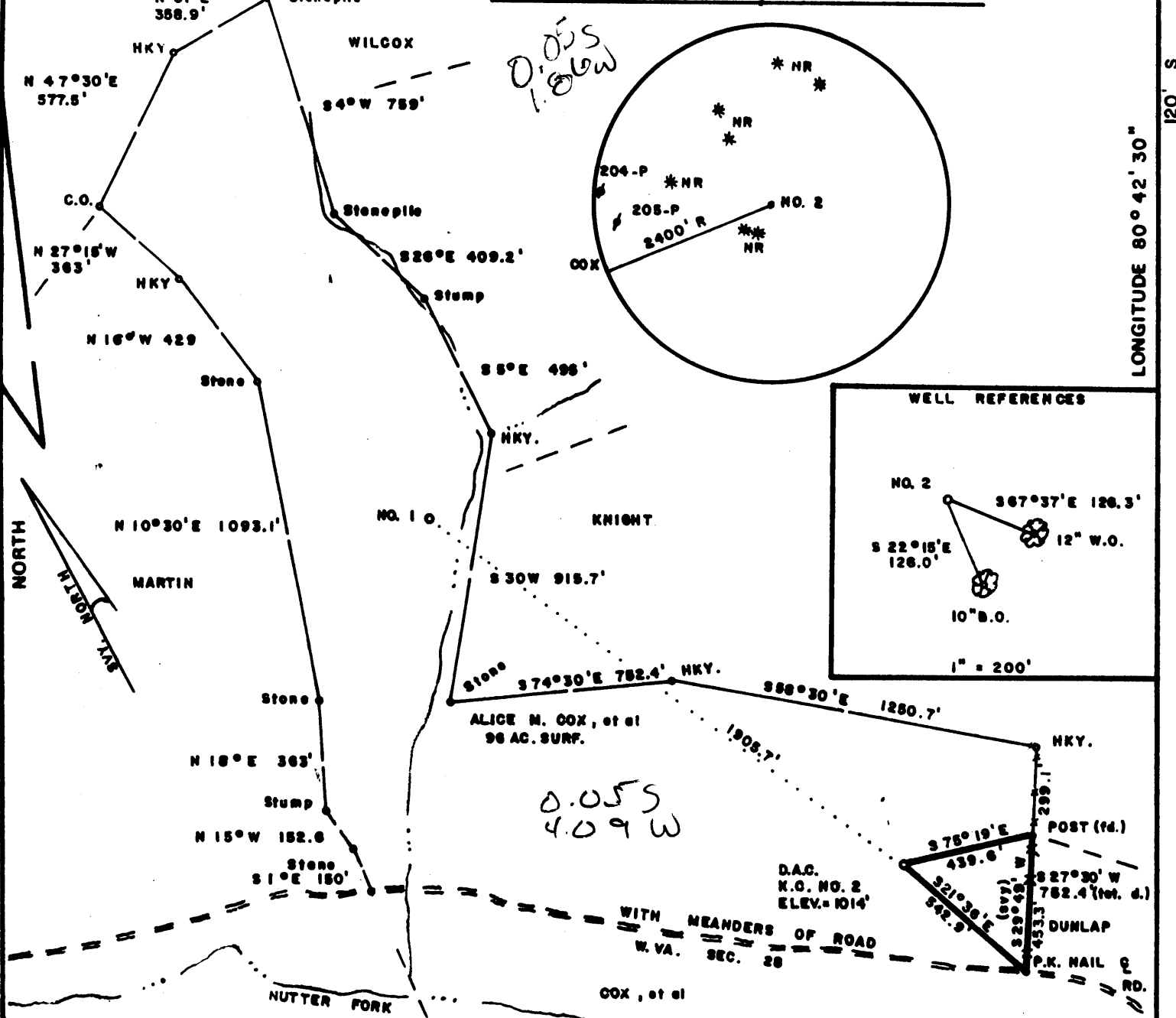
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_  
 PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) REWORK

TARGET FORMATION Benson-Riley PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 ESTIMATED DEPTH 5500'

WELL OPERATOR DOMINION EXPLORATION & PRODUCTION, INC. DESIGNATED AGENT Rodney J. Biggs  
 ADDRESS P. O. Box 1248, Jane Lew, WV 26378 ADDRESS P. O. Box 1248, Jane Lew, WV 26378

COUNTY NAME PERMIT

# KNIGHT-COX LEASE 96 AC. ±



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION Jct. of Roads  
West of Lease Elev. = 862'

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.

*Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490



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



DATE OCTOBER 1, 19 92  
 OPERATOR'S WELL NO. K.C. No. 2  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 4003  
 STATE COUNTY PERMIT

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 1014' WATER SHED NUTTER FORK  
 DISTRICT WEST UNION 9 COUNTY DODDRIDGE  
 QUADRANGLE SMITHBURG 7.5' *Centerpoint SW*  
 SURFACE OWNER ALICE M. COX, et al ACREAGE 96  
 OIL & GAS ROYALTY OWNER ALICE M. COX, et al LEASE ACREAGE 96  
 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) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION BENSON-RILEY ESTIMATED DEPTH 5500'  
 WELL OPERATOR D.A.C. 280 DESIGNATED AGENT KENNETH MASON  
 ADDRESS P.O. BOX 99 ADDRESS P.O. BOX 99  
ALMA, W. VA. 26320 ALMA, W. VA. 26320

WR 35  
 FEB 0 1 93  
 Permitting  
 Office of Oil & Gas

09-Dec-92  
 API # 47- 17-04003

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: COX, ALICE M. ETAL. Operator Well No.: KNIGHT-COX #2

LOCATION: Elevation: 1014.00 Quadrangle: SMITHBURG

District: WEST UNION County: DODDRIDGE  
 Latitude: 120 Feet South of 39 Deg. 20Min. '0 Sec.  
 Longitude 9810 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP  
 P. O. BOX 99  
 ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD  
 Permit Issued: 12/10/92  
 Well work Commenced: 12/20/92  
 Well work Completed: 1/4/93  
 Verbal Plugging  
 Permission granted on: NA  
 Rotary X Cable \_\_\_\_\_ Rig  
 Total Depth (feet) 5152  
 Fresh water depths (ft) 90

Salt water depths (ft) 1650

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			CTS
8-5/8	1127'	1127'	255sks
4-1/2		5106	670sks

OPEN FLOW DATA

Producing formation Benson/Gordon Sands Pay zone depth (ft) 502a-25'  
Commingled 2709-27'  
 Gas: Initial open flow 25 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 180 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure 900 psig (surface pressure) after 48 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: DRILLING APPALACHIAN CORP.

Reviewed TM6  
 Recorded \_\_\_\_\_

By: Kenneth R. Mason  
 Date: 1-22-93

FEB 8 1993

Perfed 1st stage at a depth of 5021-25, 16 shots.  
 Fraced 1st stage with 10,000# 80/100, 20,000# 20/40 sand, 414 bbl  
 20# gel water, 49,000 SCF nitrogen gas. Formation break at 2326 psi  
 avg treatment psi, 3024, avg fluid rate 25 bbl/minute. INSIP 1593 psi

Perfed 2nd stage at 2709-27', 16 shots.  
 Fraced with 10,000#, 80/100, 30,000# 20/40 sand, 405 bbl 20# gel wate  
 54,000 SCF nitrogen gas. Formation break at 2326 psi, avg treatment  
 psi 3221, avg fluid rate 25 bbl/min. INSIP 2028 psi

Permian Sands/Shales	Surface	500	
Pennsylvanian Sands/Shales	500	1900	
Big Lime	1918	1976	
shale	1977	1981	
Keener Sand	1982	1990	
shale	1991	2015	
Big Injun	2016	2102	
shale	2103	2265	
Weir	2266	2346	
shale	2347	2467	
Gantz Sand	2468	2488	
shale/siltstone	2489	2683	
Gordon Sand	2684	2722	show gas
shale/siltstone	2723	3329	
Warren	3330	3386	
shale/siltstone	3387	4529	
Riley	4530	4592	
shale/siltstone	4593	5003	
Benson Sand DF-435	5004	5006	slight show gas
shale/siltstone	5007	5187	
TD DF-424		5187	

16531

Environmental Protection  
 FORM WW-2B  
 DEC 07 92

16531

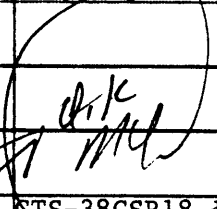
4003  
 017-~~1000~~  
 Issued 12/10/92  
 Expires 12/10/94  
 Page \_\_\_ of \_\_\_

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

Permitting  
 Office of Oil & Gas

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION <sup>311</sup> 14425 (8) 610
- 2) Operator's Well Number: KNIGHT-COX #2 3) Elevation: 1014'
- 4) Well type: (a) Oil  / or Gas  /  
 (b) If Gas: Production  / Underground Storage  /  
 Deep  / Shallow  /
- 5) Proposed Target Formation(s): BENSON-RILEY <sup>435</sup>
- 6) Proposed Total Depth: 5500± feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: \_\_\_\_\_
- 9) Approximate coal seam depths: --
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

CASING AND TUBING PROGRAM *New Well*

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	H-40	42#	30'	0'	
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	20#	1125'	1125'	CTS-38CSR18-11.3 CTS-38CSR18-11.2
Production	4-1/2"	J-55	10.5#	5150'	5150'	CTS-38CSR18-11.1
Tubing						
Liners						

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

*008923*  
*42*

For Division of Oil and Gas Use Only

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

RE  
DEC 0 7

1) Date: October 9, 1992  
2) Operator's well number  
Knight-Cox #2  
3) API Well No: 47 - 17 - 4003  
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:  
(a) Name Alice M. Cox, et al  
Address Route 1, Box 13  
Pullman WV 26421  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Rte 2, Box 135  
Salem WV 26426  
Telephone (304)- 782-1043

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(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 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:

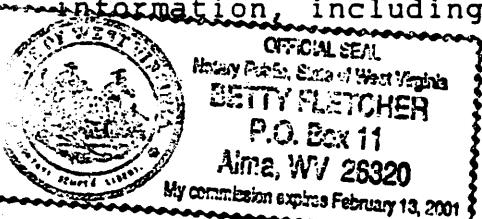
- \_\_\_\_\_ Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 DRILLING APPALACHIAN CORPORATION  
By: Kenneth R. Mason  
Its: President  
Address PO Box 99, Alma, WV 26320  
Telephone 304/758-4638



Subscribed and sworn before me this 9th day of October, 1992

Betty Fletcher Notary Public  
My commission expires February 13, 2001