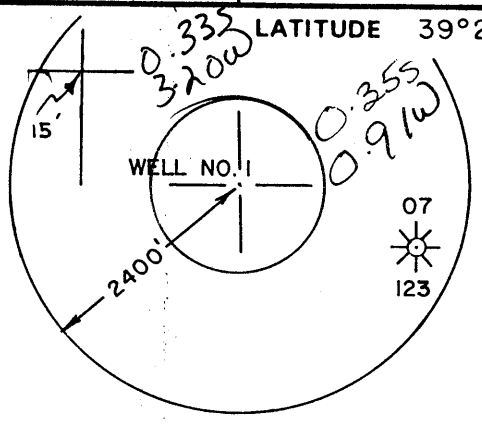


11/7/82 10/31/82  
**KNOTTS NO. 1**  
**249.26 ACRES**  
**WELL NO. 1**

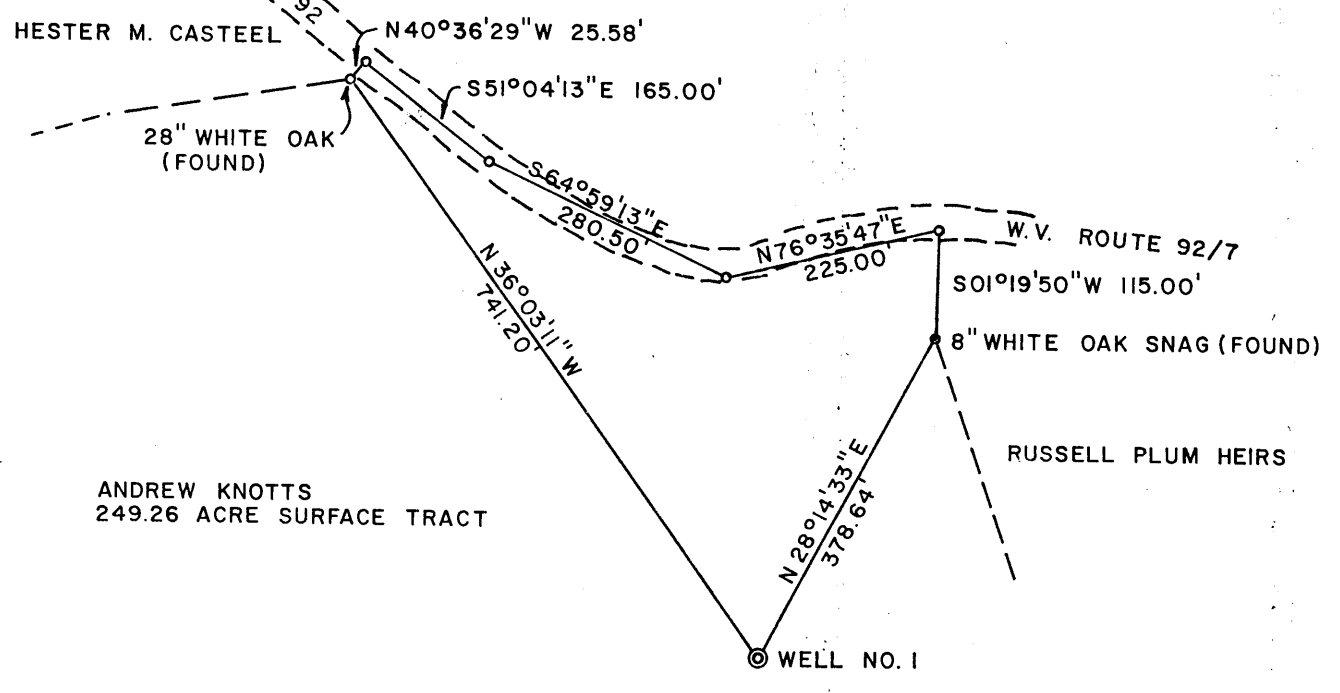
NOTE: NO WELLS SHOWN WITHIN 2400'



4800'

LONGITUDE 79° 47' 30"  
 79° 45'

INTER-STATE LUMBER CO.

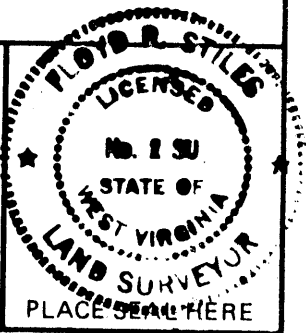


NOTES:

- 1.) LOCATION OF GAS WELL NO. 123 RECEIVED FROM W.V. DEPARTMENT OF MINES, OIL & GAS DIVISION ON OCTOBER 28, 1982.
- 2.) PLAT OF ENTIRE 249.26 ACRE SURFACE TRACT FILED IN PRESTON COUNTY CLERK'S OFFICE IN MAP CABINET 1-51A.

FILE NO. 748  
 DRAWING NO. 01  
 SCALE 1"=200'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION B.M. - JUNCTION OF ROUTES 92 & 92/7 ELEV. 1710.59

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.  
 (SIGNED) Floyd R. Stiles  
 R.P.E. \_\_\_\_\_ L.L.S. 2 S.U.



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



DATE OCTOBER 28, 19 82  
 OPERATOR'S WELL NO. 1  
 API WELL NO. \_\_\_\_\_  
47 - 077 - 0237frac  
 STATE COUNTY PERMIT

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

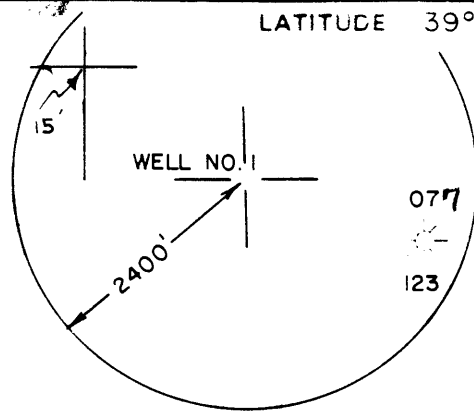
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1748 WATER SHED BIRDS CREEK  
 DISTRICT LYON 3 COUNTY PRESTON  
 QUADRANGLE NEWBURG 7.5' 507  
 SURFACE OWNER ANDREW KNOTTS ACREAGE 249.26  
 OIL & GAS ROYALTY OWNER ANDREW KNOTTS LEASE ACREAGE 249.26  
 LEASE NO. 1  
 PROPOSED WORK: DRILL X 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 HAVERTY ESTIMATED DEPTH 5990  
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE  
 ADDRESS P.O. BOX N 259 ADDRESS P.O. BOX N  
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

MAY 26 1987

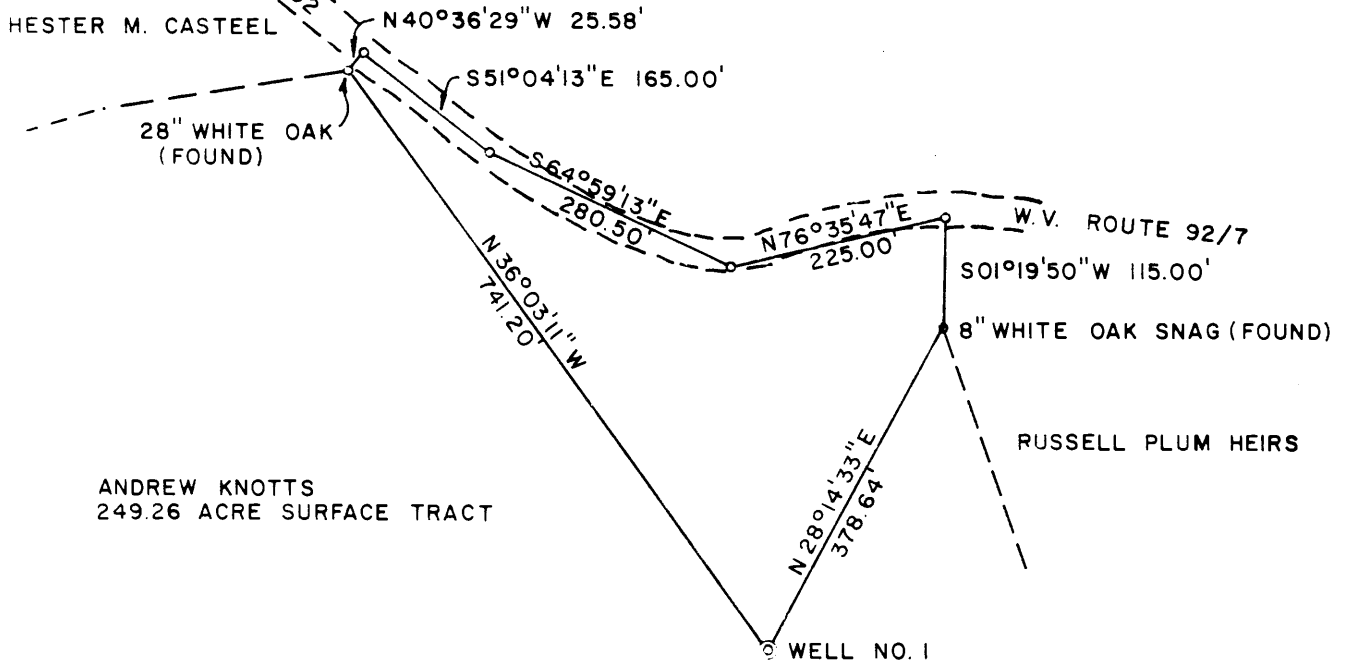
PRES. - 0237

**KNOTTS NO. 1  
249.26 ACRES  
WELL NO. 1**

NOTE: NO WELLS SHOWN WITHIN 2400'



INTER-STATE LUMBER CO.

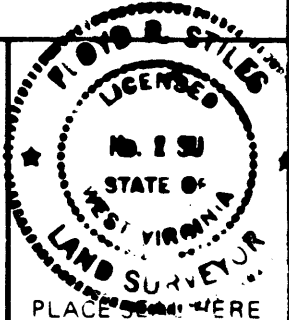


**NOTES:**

- 1.) LOCATION OF GAS WELL NO. 123 RECEIVED FROM W.V. DEPARTMENT OF MINES, OIL & GAS DIVISION ON OCTOBER 28, 1982.
- 2.) PLAT OF ENTIRE 249.26 ACRE SURFACE TRACT FILED IN PRESTON COUNTY CLERK'S OFFICE IN MAP CABINET 1-51A.

FILE NO. 748  
DRAWING NO. 01  
SCALE 1" = 200'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION B.M. - JUNCTION OF ROUTES 92 & 92/7 ELEV. 1710.59

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.  
(SIGNED) *Ray M. Stiles*  
R.P.E. \_\_\_\_\_ L.L.S. 2 S.U.



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



DATE OCTOBER 28 1982  
OPERATOR'S WELL NO. 1  
API WELL NO. 47-077-0237frac  
STATE COUNTY PERMIT

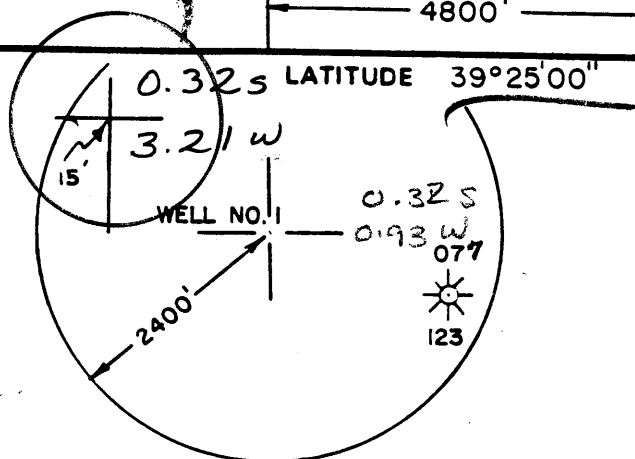
**STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION**

WELL TYPE OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION ELEVATION 1748 WATER SHED BIRDS CREEK  
DISTRICT LYON COUNTY PRESTON  
QUADRANGLE NEWBURG 7.5'  
SURFACE OWNER ANDREW KNOTTS ACREAGE 249.26  
OIL & GAS ROYALTY OWNER ANDREW KNOTTS LEASE ACREAGE 249.26  
LEASE NO. 1  
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 HAVERTY ESTIMATED DEPTH 5990  
WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE  
ADDRESS P.O. BOX N ADDRESS P.O. BOX N  
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

MAR 12 1984

**KNOTTS NO. 1  
249.26 ACRES  
WELL NO. 1**

NOTE: NO WELLS SHOWN WITHIN 2400'



LONGITUDE 79°47'30"  
79°45'

INTER-STATE LUMBER CO.

HESTER M. CASTEEL

N40°36'29"W 25.58'

S51°04'13"E 165.00'

28" WHITE OAK (FOUND)

S64°59'13"E 280.50'

N76°35'47"E 225.00'

W.V. ROUTE 92/7

S01°19'50"W 115.00'

8" WHITE OAK SNAG (FOUND)

RUSSELL PLUM HEIRS

ANDREW KNOTTS  
249.26 ACRE SURFACE TRACT

N28°14'33"E 378.64'

WELL NO. 1

NORTH

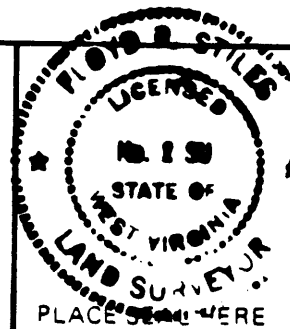
NOTES:

- 1.) LOCATION OF GAS WELL NO. 123 RECEIVED FROM W.V. DEPARTMENT OF MINES, OIL & GAS DIVISION ON OCTOBER 28, 1982.
- 2.) PLAT OF ENTIRE 249.26 ACRE SURFACE TRACT FILED IN PRESTON COUNTY CLERK'S OFFICE IN MAP CABINET 1-51A.

FILE NO. 748  
DRAWING NO. 01  
SCALE 1"=200'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION B.M. - JUNCTION OF ROUTES 92 & 92/7 ELEV. 1710.59

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.

(SIGNED) *Donald M. Stiles*  
R.P.E. \_\_\_\_\_ L.L.S. 2 SU.



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



DATE OCTOBER 28 1982  
OPERATOR'S WELL NO. 1  
API WELL NO. 47-077-0237  
STATE 47 COUNTY 077 PERMIT 0237

**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 N ELEVATION 1748 WATERSHED BIRDS CREEK  
DISTRICT LYON COUNTY PRESTON  
QUADRANGLE NEWBURG 7.5' Thorton 15' EC  
SURFACE OWNER ANDREW KNOTTS ACREAGE 249.26  
OIL & GAS ROYALTY OWNER ANDREW KNOTTS LEASE ACREAGE 249.26  
LEASE NO. 1

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

NOV 8 1982

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION HAVERTY ESTIMATED DEPTH 5990 4-4 Concord (299)  
WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE SPD - Riley, Benson, Eds  
ADDRESS P.O. BOX N ADDRESS P.O. BOX N  
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

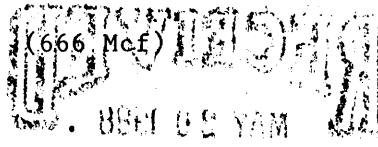


DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1 STAGE FOAM FRAC:

6 holes (2170'-2144') B.D. 2500 psi 75 Quality Foam (666 Mcf)  
80,000# of 20/40 sand

Total BBLs: 334 Rate: 12 BPM



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	15	
Shale			15	22	
Sand			22	87	Damp @ 45'
Sand and Shale			87	120	Damp @ 75'
Coal			120	123	
Sand and Shale			123	212	
Coal			212	216	
Sand and Shale			216	325	
Sand and Shale			325	396	
White Sand			396	441	3/8" stream of water @ 434'
Sand and Shale			441	1142	E. Log top @ 778'
Big Lime			1142	1200	
Injun			1200	1276	
Squaw			1276	1334	
Shale			1334	1398	
Weir			1398	1520	
Shale			1520	1620	
Sand and Shale			1620	2944	
Balltown			2944	3013	
Shale			3013	3208	
Speechley			3208	3282	
Sand and Shale			3282	5990	
Driller Total Depth			5990		
Logger's Total Depth			6008		



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: Rich Heffelfinger District Operations Mg  
Date: May 6, 1988

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 those encountered in the drilling of a well."  
1729



DEPARTMENT OF ENERGY

IV-35 (Rev 8-81)

MAY 14 1986

State of West Virginia

DEPARTMENT OF ENERGY Oil and Gas Division

Date May 1, 1986 Operator's Well No. Knotts #1 Farm Andrew Knotts API No. 47 - 077 - 0237

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 x. / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 1748' Watershed Birds Creek District: Lyon County Preston Quadrangle Newburg 7.5'

COMPANY Eastern American Energy Corporation

ADDRESS p.O. Box N, Glenville, WV 26351

DESIGNATED AGENT Donald C. Supcoe

ADDRESS p.O. Box N, Glenville, WV 26351

SURFACE OWNER Andrew J. Knotts

ADDRESS Rt. #1, Box 45, Newburg, NJ 26410

MINERAL RIGHTS OWNER (SAME)

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Donald Ellis ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554

PERMIT ISSUED November 3, 1982

REWORKING COMMENCED April 26, 1984

REWORKING COMPLETED April 26, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 3/8 and Liners used.

GEOLOGICAL TARGET FORMATION Haverty Depth 5990 feet

Depth of completed well 5990' feet Rotary X / Cable Tools

Water strata depth: Fresh 75 feet; Salt 434 feet

Coal seam depths: 120' & 212' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson, Riley, Elk Pay zone depth 3990'-5160' feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow (189) Mcf/d Final open flow 0 Bbl/d

orig pays Time of open flow between initial and final tests 4 1/2 hours

Static rock pressure 1080 psig (surface measurement) after 4 1/2 hours shut in

(If applicable due to multiple completion--)

REWORK Second producing formation Weir Pay zone depth 1298'-1520' feet

Gas: Initial open flow 0 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 58 Mcf/d Oil: Final open flow 0 Bbl/d

new pay:

Time of open flow between initial and final tests 4 hours

Static rock pressure 200 psig (surface measurement) after 12 hours shut in

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

FOR REWORK:

Weir 12 - .39 holes 1401' - 1432' Frac w/20,000 lbs. of 80/100 sand and 30,000 lbs. of 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
(SEE ATTACHED COPY FROM COMPLETION REPORT FILED 12-21-82)					

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: Bruce Smith

District Operations Mgr

Date: May 1, 1986

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 those encountered in the drilling of a well."

original record

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

Perforate: 12 - 0.39" holes, one each @ 5160, 5156, 5151, 5150, 5144, 4949, 4878, 4683, 4580, 4393, 4388, 4387.

Fracture with 10,000 lbs. 80/100 sand, 30,000 lbs. 20/40 sand  
Pressure - 3450 PSI  
Rate - 20.9 BPM

Perforate: 8 - 0.39" holes, 1 each @ 4225, 4217, 4170, 4169, 4044, 4043, 3992, 3990.

Fracture with 10,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand  
Pressure - 3350 PSI  
Rate - 24.4 BPM

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	15	
Shale			15	22	
Sand			22	87	Damp @ 45'
Sand & Shale			87	120	Damp @ 75'
Coal			120	123	
Sand & Shale			123	212	
Coal			212	216	
Sand & Shale			216	325	
Sand & Shale			325	396	
White Sand			396	441	3/8" stream water @ 434'
Sand & Shale			441	1142	E Log top @ 778'
Big Lime			1142	1200	
Conjun GBR			1200	1276	
Quaw			1276	1334	
Shale			1334	1298	
Leir			1298	1520	
Shale			1520	1620	
Sand & Shale			1620	2944	
Balltown			1944	3013	
Shale			3013	3208	
Peechley			3208	3282	
Sand & Shale			3282	5990	
Drillier Total Depth			5990		
Loggers Total Depth			6008		

Top Dev @ 1700'

(Attach separate sheets as necessary)

Eastern American Energy Corporation

Well Operator

*F. H. McCullough, III*

By: F. H. McCullough, III

vice President

Date: December 21, 1982

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 coal, encountered in the drilling of a well."

MAY 19 1986





7-35  
WV 8-81)

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 21, 1982  
Operator's Well No. Knotts #1  
Farm Andrew Knotts  
API No. 47 - 077 - 0237

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 X /)

LOCATION: Elevation: 1748' Watershed Birds Creek  
District: Lyon County Preston Quadrangle Newburg 7.5

COMPANY Eastern American Energy Corporation  
ADDRESS P. O. Box N, Glenville, WV 26351  
DESIGNATED AGENT Donald C. Supcoe  
ADDRESS P. O. Box N, Glenville, WV 26351  
SURFACE OWNER Andrew J. Knotts  
ADDRESS Rt. 1, Box 45, Newburg, WV 26410  
MINERAL RIGHTS OWNER Andrew J. Knotts  
ADDRESS Rt. 1, Box 45, Newburg, WV 26420  
OIL AND GAS INSPECTOR FOR THIS WORK  
William Blosser ADDRESS P.O.Box 1028, Colfax, WV  
PERMIT ISSUED October 29, 1982  
DRILLING COMMENCED November 6, 1982  
DRILLING COMPLETED November 14, 1982  
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	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	19.45	19.45	--
9 5/8			
8 5/8	910.65	910.65	Surface
7			
5 1/2			
4 1/2		5227.4	700 sks
3			
2-3/8"		4339.4	
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5990 feet  
Depth of completed well 59 feet Rotary \_\_\_ / Cable Tools \_\_\_  
Water strata depth: Fresh 75 & 434 feet; Salt none feet  
Coal seam depths: 120 & 212 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson, Riley, Elk Pay zone depth 3990-5160 feet  
Gas: Initial open flow -0- Mcf/d Oil: Initial open flow -0- Bbl/d  
Final open flow 189 Mcf/d Final open flow -0- Bbl/d  
Time of open flow between initial and final tests 4 1/2 hours  
Static rock pressure 1080 psig (surface measurement) after 18 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

NOV 28 1983

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

forate: 12 - 0.39" holes, one each @ 5160, 5156, 5151, 5150, 5144, 4949, 4878, 4683, 4580, <sup>E/C</sup>  
~~4393, 4388, 4387.~~ <sup>Benson</sup>  
 ic with 10,000 lbs. 80/100 sand, 30,000 lbs. 20/40 sand  
 Pressure - 3450 PSI  
 Rate - 20.9 BPM

forate: 8 - 0.39" holes, 1 each @ 4225, 4217, 4170, 4169, 4044, 4043, 3992, 3990. <sup>Riley</sup>  
 ic with 10,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand  
 Pressure - 3350 PSI  
 Rate - 24.4 BPM

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
1			0	15	
Shale			15	22	
Sand			22	87	Damp @ 45'
Sand & Shale			87	120	Damp @ 75'
1			120	123	
Sand & Shale			123	212	
1			212	216	
Sand & Shale			216	325	
Sand & Shale			325	396	
te Sand			396	441	3/8" stream water @ 434'
Sand & Shale			441	1142	E Log top @ 778'
Big Lime			1142	1200	
Jun			1200	1276	
QuiaW			1276	1334	
Shale			1334	1298	
Uir			1298	1520	
Shale			1520	1620	
Sand & Shale			1620	2944	
Balltown			1944	3013	
Shale			3013	3208	
Speechley			3208	3282	
Sand & Shale			3282	5990	
<del>3-2-1-1</del> Total Depth Drivers			5990		
loggers Total Depth			6008		Bralher @ T.D.

(Attach separate sheets as necessary)

Eastern American Energy Corporation

Well Operator

By: F. H. McCullough, III

vice President

Date: December 21, 1982

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic

**RECEIVED**  
 APR 30 1987



1) Date: April 26, 19 87  
 2) Operator's Well No. KNOTT'S #1 WVPRE000101 (Rework)  
 3) API Well No. 47 State 077 County 0237 - FRA Permit

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

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 1748 Watershed: Birds Creek  
 District: Lyon County: Preston 077 Quadrangle: Newburg 7.5 506
- 6) WELL OPERATOR EASTERN AMERICAN CODE: 01498 7) DESIGNATED AGENT Donald C. Supcoe  
 Address ENERGY CORPORATION, P.O. Box N 14980 Address P.O. Box N  
Glenville, WV 26351 Glenville, WV 26351
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Donald Ellis  
 Address 2604 Crab Apple Lane  
Fairmont, WV 26554
- 9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_
- 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, 4th Sand  
 12) Estimated depth of completed well, 2170 feet zone of interest  
 13) Approximate strata depths: Fresh, 75 feet; salt, 434 feet.  
 14) Approximate coal seam depths: 120 & 212 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	10 3/4	J-55	34		X	16'			Kinds	
Fresh water	8 5/8	CW	20	X		910.65	910.65	C.T.S.	Sizes	
Coal										
Intermediate										
Production	4 1/2	J-55	10.5	X			5227	826 Cu. Ft.	Depths set	
Tubing	2 3/8	H-40	4.75				4368'		Perforations:	
Liners									Top Bottom	

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-077-0237-FRAC Date May 18 19 87

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 May 18, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

10045-

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <u>18</u>	Casing: <u>18</u>	Fee: <u>323.198</u>	WGP: <u>18</u>	SEE: <u>18</u>	Other: <u>18</u>
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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.



1) Date: February 14, 19 84  
 2) Operator's Well No. KNOTTS #1  
 3) API Well No. 47 - 077 - 0237-FRA  
 State County Permit

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, 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: 1748' Watershed: Birds Creek  
 District: Lyon County: Preston Quadrangle: Newburg 7.5'  
 6) WELL OPERATOR Eastern American Energy Corp. 7) DESIGNATED AGENT Donald C. Supcoe  
 Address P. O. Box N Address P. O. Box N  
Glenville, WV 26351 Glenville, WV 26351  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Donald Ellis (684-7082) Name S. W. Jack  
 Address P. O. Box 47 Address \_\_\_\_\_  
Belmont, WV 26134  
 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, Haverty  
 12) Estimated depth of completed well, 5990 feet  
 13) Approximate strata depths: Fresh, 45, 75, 434 feet; salt, None feet.  
 14) Approximate coal seam depths: 120, 212 Is coal being mined in the area? Yes  No

**RECEIVED**  
 FEB 17 1984

OIL & GAS DIVISION  
**DEPT. OF MINES**

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	J 55			X	19.45	19.45		Kinds
Fresh water	8 5/8	CW	2416	X		910.65	910.65	CTS	Sizes
Coal									
Intermediate									
Production	4 1/2	J 55	10.5	X			5227.4	700 sks.	Depths set
Tubing	2 3/8	EUE	2.7	X			4339.4		Perforations:
Liners									Top 3990 Bottom 5160

OFFICE USE ONLY  
**DRILLING PERMIT**

Permit number 47-077-0237-FRAC Date March 7, 19 84

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 March 7, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <b>BLANKET</b>	Agent: <u>lp</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>90</u>
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T. J. ...  
 Administrator, Office of Oil and Gas

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

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

File





1) Date: October 28, 1982

2) Operator's Well No. Knotts #1

3) API Well No. 47 State West Virginia County \_\_\_\_\_ Permit 077-0237

DRILLING CONTRACTOR:

S. W. Jack  
Buckhannon, WV

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas X /  
B (If "Gas", Production \_\_\_\_\_ / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)
- 5) LOCATION: Elevation: 1748' Watershed: Birds Creek  
District: Lyon County: Preston Quadrangle: Nashport 7.5'
- 6) WELL OPERATOR Eastern American Energy Corporation  
Address P.O. Box W Clenville, WV
- 7) OIL & GAS ROYALTY OWNER Andrew J. Knotts  
Address Rt. 1 Box 45 Newburg, WV 26410  
Acreage 249
- 8) SURFACE OWNER Andrew J. Knotts  
Address Rt. 1 Box 45 Newburg, WV 26410  
Acreage 249
- 9) FIELD SALE (IF MADE) TO:  
Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
Name William Blosser  
Address P.O. Box 1028 Culfax, WV 26566
- 11) DESIGNATED AGENT Donald C. Sipe  
Address P.O. Box W Clenville, WV 26151
- 12) COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 14) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 15) PROPOSED WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, Haverly
- 17) Estimated depth of completed well, 5990 feet
- 18) Approximate water strata depths: Fresh, 290 feet; salt, unknown feet.
- 19) Approximate coal seam depths: unknown Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

RECEIVED

OIL & GAS DIVISION  
DEPT. OF MINES

20) 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	<u>20"</u>	<u>J-55</u>	<u>94</u>		<u>X</u>	<u>28'</u>	<u>-----</u>		Kinds
Fresh water	<u>8 3/8"</u>	<u>J-55</u>	<u>20</u>	<u>X</u>		<u>900'</u>	<u>900'</u>	<u>Surface</u>	
Coal									Sizes
Intermediate									
Production	<u>4 1/2"</u>	<u>ERW</u>	<u>10.5</u>	<u>X</u>		<u>5900</u>	<u>5900</u>	<u>600 ft. 3</u>	Depths set
Tubing	<u>1 1/2"</u>	<u>H-40</u>	<u>2.5</u>	<u>X</u>			<u>5700</u>		
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS  
Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS  
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: \_\_\_\_\_ Signed: \_\_\_\_\_  
My Commission Expires \_\_\_\_\_ Its: \_\_\_\_\_

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 077-0237 Date November 1982

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. 10) 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.)

Permit expires July 3, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
				<u>132</u>

Administrator, Office of Oil and Gas

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



Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
 "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_/ owner \_\_\_\_\_/ lessee \_\_\_\_\_/ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_