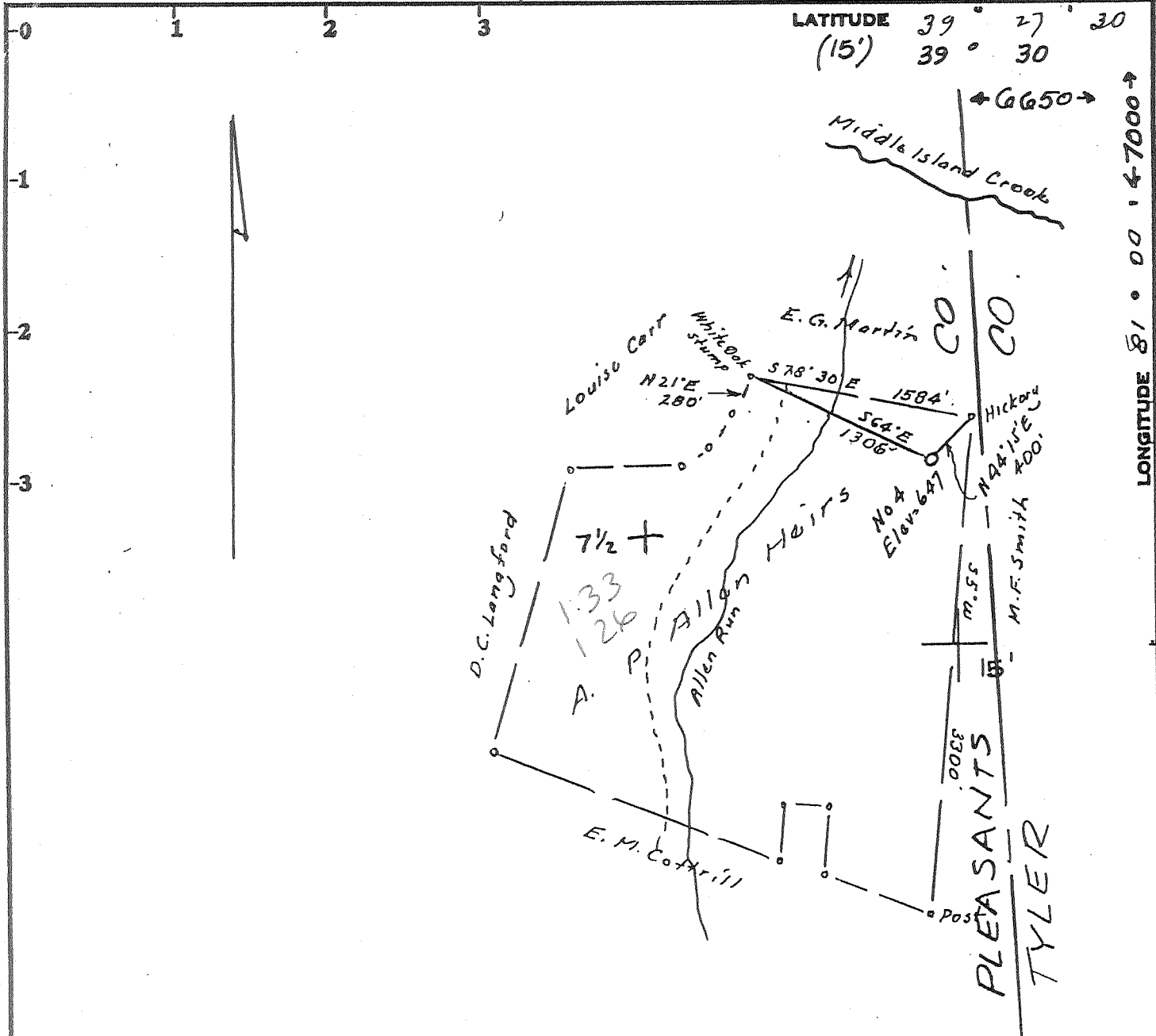


6620

LATITUDE 39° 27' 30" (15') 39° 30'

LONGITUDE 81° 00' 18" 7000'



No Coal  
 Surface:- A.P. Allen Hrs  
 101 37th St Vienna, W. Va  
 Minerals: same

Minimum Error of Closure 1 in 200

Source of Elevation Elev Well No 3 = 670

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]  
 Squares: N S E W

Map No.

Company GEDCO Oil and Gas Energy Capital Development Co.

P.O. Box 56 - Reno, Ohio 45773  
 Address Surface: Emil Balogna

Farm A.P. Allen Hrs

Tract \_\_\_\_\_ Acres 220 Lease No. \_\_\_\_\_

Well (Farm) No. Four Serial No. \_\_\_\_\_

Elevation (Spirit Level) 647

Quadrangle Bens Run 7 1/2', ST. MARY

County Pleasants District Union

Engineer [Signature]

Engineer's Registration No. 1227

File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_

Date Jan 10, 1980 Scale 1" = 1000'

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

WELL LOCATION MAP

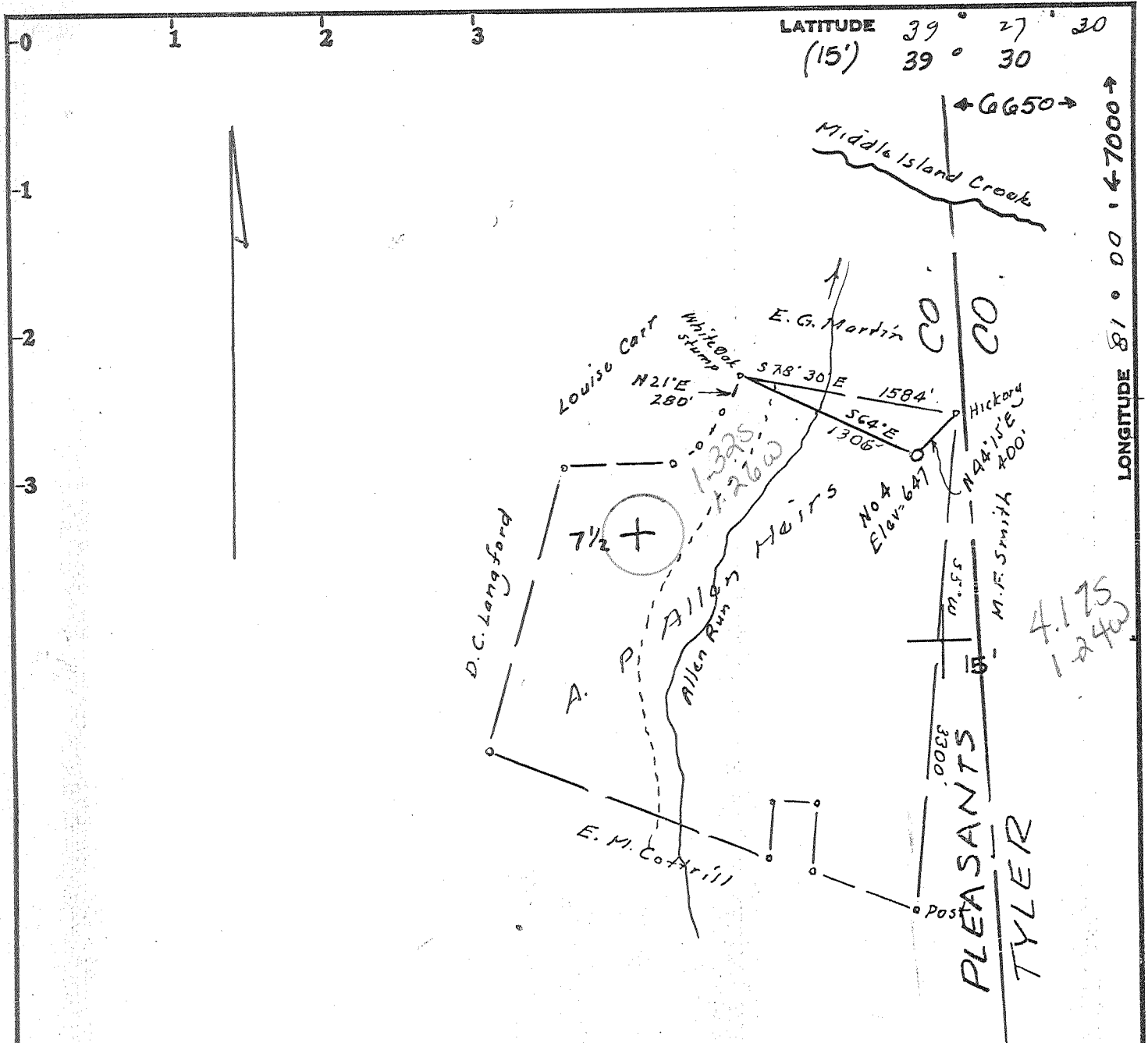
FILE NO. 47-073-0787-Frac

+ Denotes location of well on United States Topographic Maps, scale 1 to <sup>24,000</sup>/<sub>62,500</sub> latitude and longitude lines being represented by border lines as shown.

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

1000'

Pleasants - 0787 - Frac



LATITUDE 39° 27' 30"  
(15') 39° 30'

LONGITUDE 81° 00' 47000'

No Coal  
Surface: - A.P. Allen Hrs  
101 37th St Vienna, W. Va  
Minerals: same

Minimum Error of Closure 1 in 200  
Source of Elevation Elev Well No 3 = 670

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Fracture.....  
New Location.....  
Drill Deeper.....  
Abandonment.....

Signed: W. H. Stacey  
Squares: N S E W

Map No.

Company Energy Capital Development Co.  
Address P.O. Box 56 - Reno, Ohio 45773  
Surface: Emil Balogna  
Farm A.P. Allen Hrs  
Tract \_\_\_\_\_ Acres 220 Lease No. \_\_\_\_\_  
Well (Farm) No. Four Serial No. \_\_\_\_\_  
Elevation (Spirit Level) 647 - OK - 7.5' topo. KVA  
Quadrangle Bens Run 7 1/2', St. Mary NE  
County Pleasants District Union 5  
Engineer W. H. Stacey  
Engineer's Registration No. 1227  
File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
Date Jan 10, 1980 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. 47-073-0787-Frac

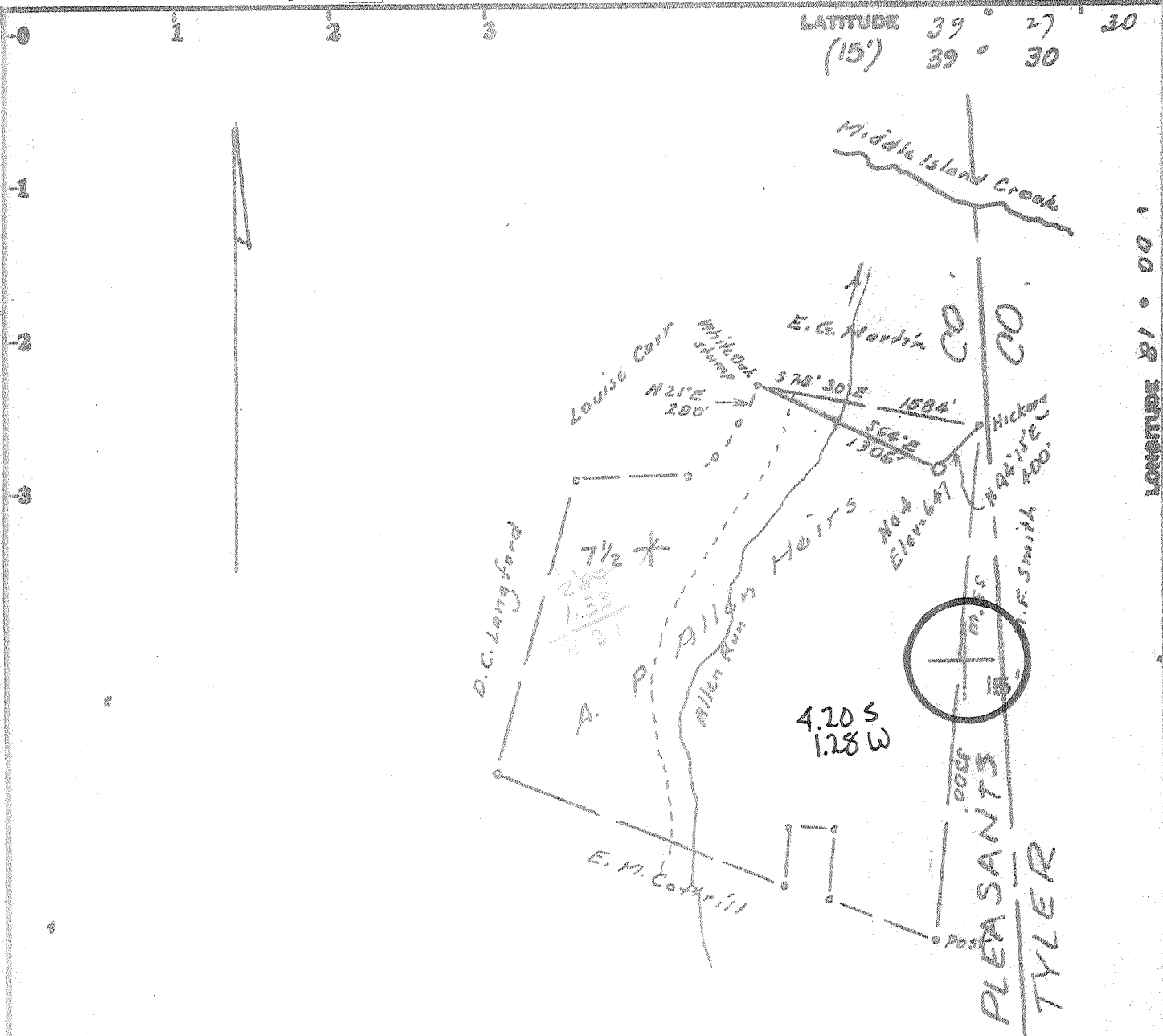
+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

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

DEC 15 1986

6-6 Shilon-wick (86)  
Marden 3200'

LATITUDE 39 27 30  
(15') 39 30



LONGITUDE 81 00 00

No Coal  
Surface: - A.P. Allen Hrs  
101 37th St Vienna, W. Va  
Minerals: Same

39 26 20  
81 01 25

Minimum Error of Closure 1 in 200  
Source of Elevation Elev Well No 3 = 676

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: [Signature]  
Squares: N S E W

Map No.

Company Lauderman Oil & Gas Co  
 Address P.O. Box 266, Paden City, W. Va.  
 Farm A.P. Allen Hrs  
 Tract \_\_\_\_\_ Acres 220 Lease No. \_\_\_\_\_  
 Well (Farm) No. Four Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 647  
 Quadrangle Bens Run 7 1/2', St. MARVIN'S NE  
 County Pleasants District Union  
 Engineer [Signature]  
 Engineer's Registration No. 1227  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Jan 10, 1980 Scale 1" = 1000'

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

**WELL LOCATION MAP**  
FILE NO. 47-073-0787

+ Denotes location of well on United States Topographic Maps, scale 1 to 25,000 latitude and longitude lines being represented by border lines as shown.  
 -- Denotes one inch spaces on border line of original tracing.

H. G. SHIMON - WICK

86  
FEB 13 1980

IV-35  
(Rev 8-81)



Date 3-10-88  
Operator's  
Well No. #4  
Farm A.P. ALLEN  
API No. 47-073-0787-F

**RECEIVED**  
MAR 18 1988

State of West Virginia  
Department of Mines  
Oil and Gas Division

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
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 \_\_\_ /)

LOCATION: Elevation: 720' Watershed Middle Island Creek  
District: Union County Pleasants Quadrangle Bens Run

COMPANY Energy Capital Development Corp.  
ADDRESS 525 Dime Bank Building  
DESIGNATED AGENT Dave Semmerville  
ADDRESS Rt 1 Box 104 Elizabethtown, W.Va.  
SURFACE OWNER Emil Bologna  
ADDRESS Friendley, W.Va.  
MINERAL RIGHTS OWNER A.P. Allen Heirs  
ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Robert  
Lawther ADDRESS Middlebourne, W.Va.

PERMIT ISSUED Dec. 8, 1988  
DRILLING COMMENCED Dec. 19, 1986  
DRILLING COMPLETED Dec. 21, 1986

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"			
9 5/8			
8 5/8	197	197	
7			
5 1/2			
4 1/2	2665	2665	
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Weir Depth 2665 feet  
Depth of completed well 2665 feet Rotary \_\_\_ / Cable Tools \_\_\_  
Water strata depth: Fresh 80-90 feet; Salt 500-1500 feet  
Coal seam depths: NONE Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Weir Pay zone depth 2142 feet  
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d  
Final open flow 425 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 48 hours  
Static rock pressure 1850 psig (surface measurement) after 4 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  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale	Brown	Soft	0	20	
Sand	Brown	"	20	25	
lime	gray	"	75	80	
Slate	gray	"	80	135	
Shale	Brown	Hard	135	180	
lime	gray	"	180	245	
Sand	white	"	245	310	
Slate	Black	soft	310	380	
lime	gray	"	330	385	
Rock	Red	Hard	385	460	
Slate	gray	soft	460	510	
lime	gray	"	510	595	
Rock	Red	Hard	595	700	
Sand	white	soft	700	750	
lime	gray	soft	750	820	
Rock	Red	Hard	820	860	
Sand	White	soft	860	895	
Slate	gray	soft	860	895	
Rock	red	Hard	895	910	
Slate	Black	Hard	910	955	
Sandy Shell	gray	Hard	955	999	
Salt Sand I		soft	999	1050	
Sand	white	soft	1050	1125	
Salt Sand II		soft	1050	1125	
Salt Sand II		soft	1250	1165	
Salt Sand II		soft	1255	1175	
Slate	gray	"	1175	1335	
Maxon	Sand	"	1335	1365	
Big lime		"	1365	1400	
Slate	Black	"	1400	1485	
Slate	Black	"	1485	1500	
Keener	Sand	"	1500	1535	
Big Wagon		soft	1535	1585	

**RECEIVED**  
MAR 18 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Energy Capital Development Corp.  
Well Operator

By: Delia J. Wilson


Date: 3-10-88

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."

MAR 25 1988

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shell	gray	Soft	1585	1610	 MAR 18 1988  DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
Shell	Blue		1610	1700	
Shell	gray		1700	1775	
Shell	Blue		1775	1835	
Shell	gray		1835	1910	
Sandy shell	gray		1910	1985	
Weir Sand			1985	2030	
Shell	gray		2030	2055	
Shell	Brown		2055	2150	
Shell	Blue		2150	2220	
Shell	Blue		2220	2310	
Shell	gray		2310	2340	
Shell	Brown		2340	2485	
Shell	gray		2485	2525	
Sandy shell			2525	2610	
Weir	gray		2610	2665	
Shell	Blue				

(Attach separate sheets as necessary)

Energy Capital Development Corp  
Well Operator

By: Delra J. Wilson

Date: 3-10-88

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

OCT 30 1979

Oil and Gas Division  
WELL RECORD 19

OIL & GAS DIVISION  
DEPT. OF MINES  
Rotary  Oil   
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb.   
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal Open Pit  
(Kind)

Quadrangle Bons Run 7W

Permit No. 47-073-0787

Company Lauderman Oil & Gas Drilling  
Address 311 S. 4th Ave. Padon City, W. Va  
Farm A.P. Allen Acres 210  
Location (waters) Middle Island Creek  
Well No. 4 Elev. 720  
District Union County Pleasants  
The surface of tract is owned in fee by Elmo  
Bologna  
Address \_\_\_\_\_  
Mineral rights are owned by A.P. Allen Heirs  
Address \_\_\_\_\_  
Drilling Commenced July 1979  
Drilling Completed July 29, 1979  
Initial open flow Show cu. ft. Show bbls.  
Final production 625M cu. ft. per day \_\_\_\_\_ bbls.  
Well open \_\_\_\_\_ hrs. before test \_\_\_\_\_ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	197	197	
7			
5 1/2			
4 1/2	Cemented thru Pay Zones		
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Keil Trac. 5 stages - 60,000# Sand 20/40 Mesh Sand  
1800 BBLs water.

Coal was encountered at No Coal Feet No Coal Inches  
Fresh water 80 Feet 90 Salt Water 1500 Feet 1550  
Producing Sand Gordon Depth 2500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale	Brown	Soft	0	20		
Sand	Brown	"	20	25		
Lime	Gray	"	75	80		
Slate	Gray	Soft	80	135		
Shale	Brown	Hard	135	180		
Lime	Gray		180	245		
Sand	White	Soft	245	310		
Slate	Black	Soft	310	330		
Lime	Gray	"	330	385		
Rock	Red	Hard	385	460		
Slate	Gray	Soft	460	510		
Lime	Gray	Soft	510	595		
Rock	Red	Hard	595	700		
Sand	White	Soft	700	750		
Lime	Gray	Soft	750	820		
Rock	Red	Hard	820	860		
Sand	White	Soft	860	895		
Slate	Gray	Soft	895	910		
Rock	Red	Hard	910	955		
Slate	Black	Hard	955	995		
Sandy Shell	Gray	Hard	995	1050		
Salt Sand I		Soft	1050	1125		
Sand	White	Soft	1125	1165		
Salt Sand II		Soft	1165	1275		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Salt Sand II		Soft	1275	1335		
Slate	Gray	"	1335	1365		
Naxon Sand		Soft	1365	1400		
Big Time		"	1400	1485		
Slate	Black	Soft	1485	1500		
Keener Sand			1500	1535		
Big Injun		Soft	1535	1585		
Shell	Gray		1585	1610		
Shell	Blue	Soft	1610	1700		
Shell	Gray		1700	1775		
Shell	Blue	Soft	1775	1835		
Shell	Gray	Soft	1835	1910		
Sandy shell	Gray		1910	1985		
Weir Sand			1985	2030		
Shell	Gray		2030	2055		
Shell	Brown		2055	2150		
Shell	Blue		2150	2220		
Shell	Blue		2220	2310		
Shell	Gray		2310	2340		
Shell	Brown		2340	2485		
Sandy Shell	Gray	Soft	2485	2525		<i>Dorden</i>
Shell	Gray		2525	2610		
Shell	Blue		2610	2665		

Date 7-10-19 1979

APPROVED Phillip M. Morgan Owner

By Ford Agent  
(Title)





STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

JUL 16 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

Surface Owner A. P. Allen Heirs  
Address 101 37th St. Vienna, W. Va.  
Mineral Owner A. P. Allen Heirs  
Address 101 37th St. Vienna, W. Va.  
Coal Owner No coal--Pleasants County  
Address Left out of coal  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

DATE July 12, 1979  
Company Lauderman Oil & Gas Drilling  
Address P.O. Box 266 Paden City, W. Va.  
Farm A.P. Allen Acres 220  
Location (waters) Middle Island Creek  
Well No. Four Elevation \_\_\_\_\_  
District Union County Pleasants  
Quadrangle Bens Run 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,  
of the W. Va. Code, the location is hereby approved  
for drilling. This permit shall expire if  
operations have not commenced by 3-18-80.

INSI Phillip Tracy  
TO I P. O. Box 173-Dodd St.  
Middlebourne, W. Va.  
ADDI \_\_\_\_\_  
PHON \_\_\_\_\_

*[Signature]*  
Deputy Director - Oil & Gas Division  
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated February 6, 1895 by A.P. Allen & M.L. Allen made to P.H. Gaffney and recorded on the 6th day of February 1895 in Pleasants County, Book 24 Page 268

NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address 12th day July before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours,  
(Sign Name) *[Signature]*  
Well Operator  
311 South 4th Avenue  
Street  
Paden City  
City or Town  
West Virginia 26159  
State

\*SECTION 3. . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-0787

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

**THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Johnson Drilling NAME Ernest Herbold  
 ADDRESS Rt. 6, Smith Dr. Marietta, Ohio ADDRESS P.O. Box 266 Paden City, W. Va.  
 TELEPHONE 614-373-0877 TELEPHONE 304-657-2701  
 ESTIMATED DEPTH OF COMPLETED WELL: 3200 ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Garden?  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB.  STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

**TENTATIVE CASING PROGRAM:**

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8	4 5/8 210	210	
8 - 5/8			
7			
5 1/2	4 1/2 Cemented thru		
4 1/2	payzone		
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER 1700 FEET  
 APPROXIMATE COAL DEPTHS 420 (No coal in Pleasants County--left out)  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

**TO DRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

**TO DRILL DEEPER OR REDRILL:**

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

**TO FRACTURE - STIMULATE:**

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company

\_\_\_\_\_  
Official Title

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

Well Operator's Report of Well Work

Farm name: A.P. ALLEN Operator Well No.: A.P. ALLEN #4

LOCATION: Elevation: 647' Quadrangle: BENS RUN

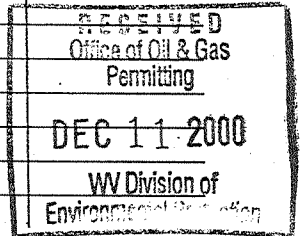
District: UNION County: PLEASANTS

Latitude: 6650 Feet South of 39 Deg. 27 Min. 30 Sec.

Longitude 7000 Feet West of 81 Deg. 00 Min. \_\_\_\_\_ Sec.

Company: TRIAD RESOURCES, INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. Box 430</u> <u>RENO, OHIO 45773</u>				
Agent: <u>KIM LYNN</u>	<u>8 5/8"</u>	<u>197'</u>	<u>197'</u>	<u>TO SURFACE</u>
Inspector: <u>LARRY PARRISH</u>				
Date Permit Issued: <u>11/29/99</u>	<u>4 1/2"</u>	<u>2665'</u>	<u>2665'</u>	
Date Well Work Commenced: <u>6/23/00</u>				
Date Well Work Completed: <u>8/31/00</u>	<u>2"</u>		<u>2545'</u>	
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig <u>X</u>				
Total Depth (feet): <u>2665</u>				
Fresh Water Depth (ft.): <u>N/A</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): _____				



OPEN FLOW DATA

Producing formation BIG INJUN Pay zone depth (ft) 1603'-1609'  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 35 MCF/d Final open flow - Bbl/d  
 Time of open flow between initial and final tests 72 Hours  
 Static rock Pressure 100 psig (surface pressure) after 72 Hours

Second producing formation WEIR & GORDON Pay zone depth (ft) 1989'-2500'  
 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.

Signed: Rocky Roberts  
 By: ROCKY ROBERTS GEOLOGIST  
 Date: 12-7-00

JAN 5 2001

PLE 0787-F

## PERFORATIONS

BIG INJUN SAND 1603'-1609' 4 SHOTS / FT. WITH 0.39 HSC

## COMPLETION INFORMATION

SET BRIDGE PLUG AT 1700'. PERFORATE BIG INJUN AT 1603'-1609'.  
FRAC BIG INJUN WITH 500 GALLONS 15% HCl BREAKDOWN AT 1950 PSIG  
RATE 3 BPM. FRAC WITH 300 BARRELS WATER WITH AVERAGE TREATING  
PRESSURE OF 1500 PSIG AT A RATE OF 10 BPM. ISIP: 500 PSIG  
5-MIN SIP: 200 PSIG.

SWAB FRAC BACK. KNOCK OUT BRIDGE PLUG AND RAN 2545' 2" TUBING  
AND PRODUCE WELL THROUGH COMMINGLED ZONES OF BIG INJUN, WEIR AND GORDON.

## FORMATIONS

MAXTON Ss.	1435' - 1489'
BIG LIME	1514' - 1548'
KEENER Ss.	1548' - 1576'
BIG INJUN Ss	1600' - 1758'
WEIR	1986' - 2056'
GORDON	2527' - 2534'

FORM WV-2 (B)  
(Observer)  
7/85

**RECEIVED**  
DEC 04 1986



1) Date: NOVEMBER 15, 19 86  
2) Operator's Well No. A.P. ALLEN #4  
3) API Well No. 47 073 0787-F  
State County Permit

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, 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: 720' Watershed: MIDDLE ISLAND CREEK  
District: UNION 1034 County: PLEASANTS Quadrangle: BEN'S RUN
- 6) WELL OPERATOR ENERGY CAPITAL DEV. CORP. CODE: 15 795 7) DESIGNATED AGENT DAVID SHERAVILLE  
Address P.O. Box 56 Address REIL, BOX 104  
RENO, OHIO 45773 ELIZABETH, WV 26143
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT LOUTHER  
Address GENERAL DELIVERY  
MIDDLEBOURNE, WV 26149
- 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) COMPLETE NEW PAY ZONE UPHOLE
- 11) GEOLOGICAL TARGET FORMATION, WEIR 387
- 12) Estimated depth of completed well, 2166.5 feet
- 13) Approximate trata depths: Fresh, 80, 90 feet; salt, 1500, 1550 feet.
- 14) Approximate coal seam depths: NONE 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									Kinds
Fresh water									
Coal									Sizes
Intermediate									Depths set
Production									Perforations
Tubing									Top Bottom
Liners									

*See Existing Well Record*  
*Log must be run to determine cement tops.*  
*No perforations above cement tops.*

THIS IS TO STIMULATE A CURRENTLY PRODUCING GORDON WELL.

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-073-0787-F Date December 8 19 86

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 December 8, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>1000</u>	Agent: <u>MW</u>	Plat: <u>18</u>	Casing: <u>MW</u>	Fee: <u>345</u>	WPCP: <u>NO PIT</u>	S&E: <u>185</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location. \_\_\_\_\_  
Director, Division of Oil and Gas File

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