

RECEIVED  
FORM IV-2(B) FILE COPY  
(Obverse)  
7-83

NOV 16 1984



1) Date: \_\_\_\_\_, 19\_\_\_\_  
2) Operator's Well No. Faris Heirs #30  
3) API Well No. 47 - 033 - 3123  
State County Permit

OIL & GAS DIVISION  
DEPT. OF MINES  
STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil \_\_\_\_\_ / Gas XX /  
B (If "Gas", Production XX / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow XX /)
- 5) LOCATION: Elevation: 1128' Watershed: Simpson Creek  
District: Simpson County: Harrison Quadrangle: Rosemont 7 1/2'
- 6) WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION 7) DESIGNATED AGENT STEVEN R. WILLIAMS  
Address PO BOX 26, 103 EAST MAIN STREET 38200 BRIDGEPORT, WV 26330 Address PO BOX 26, 103 EAST MAIN STREET BRIDGEPORT, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name STEPHEN CASEY Address RT 2, BOX 232-D JANE LEW, WV 26378  
9) DRILLING CONTRACTOR: Name \_\_\_\_\_ Address \_\_\_\_\_
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_ /  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, BENSON
- 12) Estimated depth of completed well, 5000 feet  
13) Approximate trata depths: Fresh, 48; 200 feet; salt, 1250 feet.  
14) Approximate coal seam depths: 430; 510 Is coal being mined in the area? Yes \_\_\_\_\_ / No XX /

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	H-40	42#	x		30'			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J-55	20#	x		950'	950'	cement to surface (neat cmt.) 400 sks	Depths set
Production	4 1/2	J-55	10.5#	x		5000'	5000'		Perforations: <u>15.01</u>
Tubing								<i>or as required by rule</i>	Top Bottom
Liners									

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-033-3123

December 3, 19 84  
Date

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 3, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>116</u>	<u>MW</u>	<u>TS</u>	<u>TS</u>	<u>835</u> <u>299</u>

Margaret J. Hahn  
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

12/3





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

Performed a 75 Quality foam frac on the Benson. Perforated the zone with 13 shots (4329'-33'). Treated with 37,000 lb. of 20/40 sand and 625,000 scf N2.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
KB - GL			0	10	caol @ 60'; 1/2" stream H2O @ 87'
sand, shale, redrock			10	1252	
big lime			1252	1326	gas @ 1299'; no show
keener			1326	1351	
big injun			1351	1398	
sand, shale			1398	1753	
gantz			1753	1764	
sand, shale			1764	1774	gas @ 1773'; no show
50 foot sand			1774	1813	
sand, shale			1813	1843	
30 foot sand			1843	1871	
sand, shale			1871	1924	
gordon stray			1924	1938	
sand, shale			1938	1942	
gordon			1942	1964	
sand, shale			1964	2074	gas @ 1993'; 8/10 thru 3/4" w/H2O
4th sand			2074	2106	
sand, shale			2106	2150	
5th sand			2150	2194	gas @ 2151'; 8/10 thru 3/4" w/H2O
sand, shale			2194	2198	
lower 5th			2198	2213	
sand, shale			2213	2261	gas @ 2240'; 6/10 thru 3/4" w/H2O
bayard			2261	2307	
sand, shale			2307	2877	gas @ 2870'; 6/10 thru 3/4" w/H2O
speechley			2877	2967	
sand, shale			2967	3084	gas @ 2968'; 8/10 thru 3/4" w/H2O
balltown			3084	3292	
sand, shale			3292	3450	
bradford			3450	3567	
sand, shale			3567	3982	gas @ 3968'; 8/10 thru 3/4" w/H2O
riley			3982	4164	
sand, shale			4164	4306	gas @ 4284'; 4/10 thru 1" w/H2O
benson			4306	4334	
sand, shale			4334	4366	TD logger
				4411	TD driller
					gas @ TD; 16/10 thru 2" w/H2O
					gas after drill collars; 4/10 thru 2" w/H2O

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION  
 Well Operator \_\_\_\_\_  
 By: Str. R. W.  
 Date: 1/16/85

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."

IV-35  
(Rev 8-81)

RECEIVED  
JAN 17 1985  
OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 1/9/85  
Operator's  
Well No. #30  
Farm Faris  
API No. 47 - 033 - 3123

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil     / Gas xx / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production xx / Underground Storage     / Deep     / Shallow xx /)

LOCATION: Elevation: 1128' Watershed Simpson Creek  
District: Simpson County Harrison Quadrangle Rosemont 7 1/2'

COMPANY PETROLEUM DEVELOPMENT CORPORATION  
ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330  
DESIGNATED AGENT STEVEN R. WILLIAMS  
ADDRESS 103 EAST MAIN ST, BRIDGEPORT, WV 26330  
SURFACE OWNER ROBERT D. & MARJORIE FARIS  
ADDRESS RT 1, BOX 20, BRIDGEPORT, WV 26330  
MINERAL RIGHTS OWNER ROBERT D. FARIS, ET AL  
ADDRESS RT 1, BOX 20, BRIDGEPORT, WV 26330  
OIL AND GAS INSPECTOR FOR THIS WORK STEPHEN CASEY  
ADDRESS RT 2, BOX 232-D IANE LEW, WV 26378  
PERMIT ISSUED DECEMBER 3, 1984  
DRILLING COMMENCED DECEMBER 11, 1984  
DRILLING COMPLETED DECEMBER 15, 1984  
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"	30'	30'	cement to surface
9 5/8			
8 5/8	953'	953'	240 sks
7			
5 1/2			
4 1/2	4358'	4358'	525 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson Depth 5000 feet  
Depth of completed well 4411 feet Rotary xx / Cable Tools      
Water strata depth: Fresh 87 feet; Salt n/a feet  
Coal seam depths: 60 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4329-33 feet  
Gas: Initial open flow NOT TAKEN Mcf/d Oil: Initial open flow     Bbl/d  
Final open flow 793 Mcf/d Final open flow     Bbl/d

Time of open flow between initial and final tests 4 hours  
Static rock pressure 2040 psig (surface measurement) after 72 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

(Continue on reverse side)

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

RECEIVED

DEC 17 1984

OIL & GAS DIVISION  
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 33-3123

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Petrol. Devel. Co.

Address \_\_\_\_\_

Farm R. Faris

Well No. 30

District Simpson County Harv.

Drilling commenced 12-12-84

Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_

Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_

Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch

Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch

Volume \_\_\_\_\_ Cu. Ft.

Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.

Oil \_\_\_\_\_ bbls., 1st 24 hrs.

Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet

Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_

NAME OF SERVICE COMPANY \_\_\_\_\_

COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names CDI 9

Remarks: dr. at 170

12-12-84  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR



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

RECEIVED

DEC. 17 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 33-3123

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company Petrol. Devel. Co.  
 Address \_\_\_\_\_  
 Farm Faris  
 Well No. 30  
 District \_\_\_\_\_ County Harp.  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_ Total depth \_\_\_\_\_  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water 87 feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT 60 FEET 60 INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Drillers' Names UPI 9

Remarks: 8 7/8 953' 240 SKS. Halliburton

12-13-84  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR





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

**RECEIVED**  
DEC 26 1984  
OIL & GAS DIVISION  
DEPT. OF MINES

**INSPECTOR'S WELL REPORT**

Permit No. 33-3123

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>Petrol Dev. Co.</u> Address _____ Farm <u>Faris</u> Well No. <u>30</u> District _____ County <u>Harr.</u> Drilling commenced <u>12-12-84</u> Drilling completed <u>12-16</u> Total depth <u>4478</u> Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	<b>CASING AND TUBING</b> Size 16 13 10 8 1/4 6 1/2 5 3/16 3 2 Liners Used	<b>USED IN DRILLING</b>	<b>LEFT IN WELL</b>	<b>PACKERS</b> Kind of Packer _____ Size of _____ Depth set _____ Perf. top _____ Perf. bottom _____ Perf. top _____ Perf. bottom _____
	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
	NAME OF SERVICE COMPANY _____			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names UDI 9

Remarks:

12-17-84  
DATE

Steve Casey  
DISTRICT WELL INSPECTOR

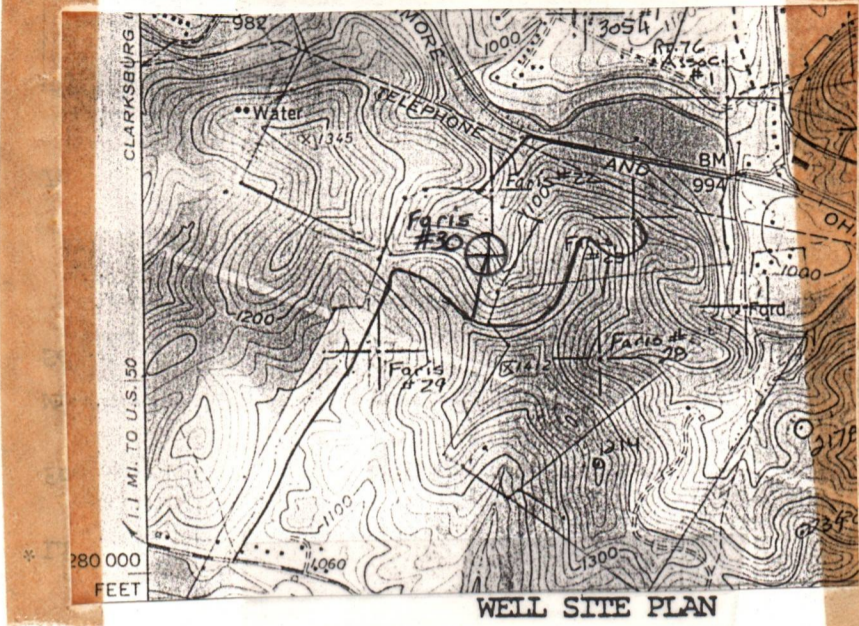


ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE Rosemont 7 1/2'

LEGEND

Well Site ⊕

Access Road ———

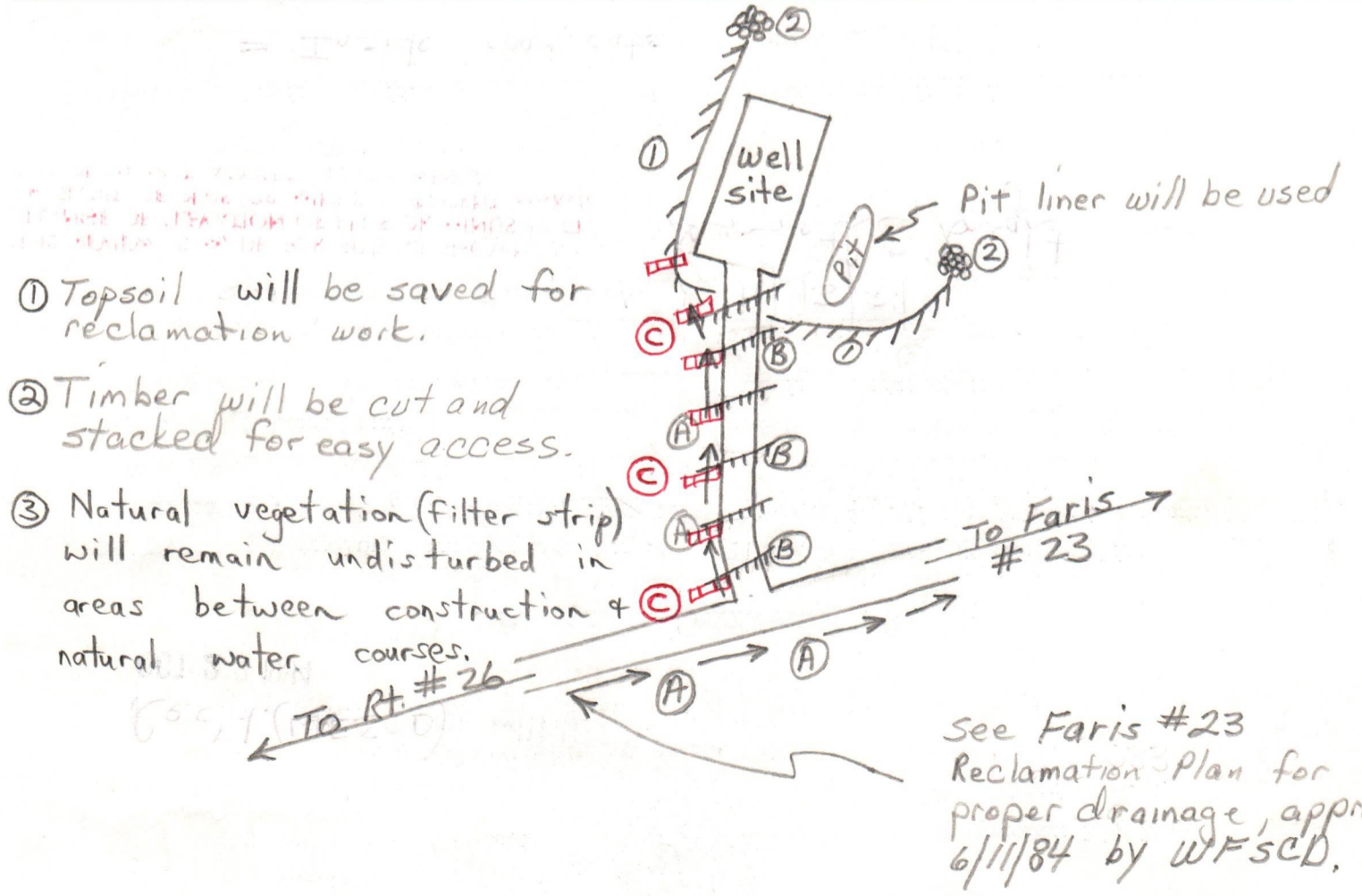


WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary ————	Diversion ————
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ☼
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ —
Open ditch — ···· — ···· — ···· —	Waterway <= = = =



DATE October 14, 1984  
WELL NO. Paris No. 30  
API NO. 47-033-3/23

OIL & GAS DIVISION  
State of West Virginia  
Department of Mines  
Oil and Gas Division



RECEIVED  
OCT 16 1984

OCT 22 1984

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp. DESIGNATED AGENT Steven Williams

Address P.O. Box 26, Bridgeport, WV 26330

Address P.O. Box 26, Bridgeport, WV 26330

Telephone 842-6256

Telephone 842-6256

LANDOWNER Robert Paris

SOIL CONS. DISTRICT West Fork

Revegetation to be carried out by

Seeding Contractor (Agent)

This plan has been reviewed by

West Fork SCD. ALL corrections

and additions become a part of this plan:

11/13/84  
(Date)  
Kenneth Knight  
(SCD Agent)

LOCATION

Structure Drainage ditch (A)

Structure Diversion ditch (1)

Spacing Inside road cuts

Material earth

Page Ref. Manual 2.12

Page Ref. Manual 2.12

Structure Cross drains (B)

Structure Rip-rap (2)

Spacing 45' to 60' with rippod outlet

Material stone

Page Ref. Manual 2.1

Page Ref. Manual 2.14

Structure Sediment Barrier (C)

Structure

Material Hay or straw bales (stacked)

Material

Page Ref. Manual 2-16

Page Ref. Manual

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Woods

Woods

Treatment Area I

Treatment Area II

\* Lime 3 Tons/acre or correct to pH 6.5

\* Lime 3 Tons/acre or correct to pH 6.5

Fertilizer 600 lbs/acre (10-20-20 or equivalent)

Fertilizer 600 lbs/acre (10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed\* Orchard grass 12 lbs/acre

Seed\* Orchard grass 12 lbs/acre

Ladino clover 3 lbs/acre

Ladino clover 3 lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium.

\*Lime according to pH test

NOTES: Please request Amendment cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY David Jackson

ADDRESS P.O. Box 969

Buckhannon, WV 26201

PHONE NO. 472-9369

**APPLICATION**  
**WV General NPDES Permit for Oil & Gas**  
**Drilling PTE Waste Discharge**

FORM NO. \_\_\_\_\_

5/28/85 47-033-3123

**1) APPLICATION (To Be Completed By Company)**

- Company Name Petroleum Development Corporation Harrison  
 Mailing Address P.O. BOX 26, Bridgeport, West Virginia 26330  
 Telephone 304/842-6256 Well Name Paris #30
- Name of stream that may be discharged to: Unknown  
 A tributary of: Deegan Lake
- Treatment and method of pit disposal most likely to be utilized (method not necessarily restricted to this):  
Lime
- Name of person supervising discharge: PKC Inc - Charles Krushansku  
 Telephone 304/292-1265 Date Approved \_\_\_\_\_

5. By completing and submitting this application I agree to adhere to the guidance and provisions of the interim experimental general permit system. I understand that participation in the program does not prohibit enforcement action for violation of the terms of this general permit or some other applicable law or regulation.

Essele E. Morgan 4-9-85  
 Signature Date

**NOTIFICATION (To Be Completed By DWR)**

- Initial Company contact: (Approximately 7 days prior to discharge)  
 Date 5-22-85 Individual V. Leon  
 Proposed discharge date 5-24-85  
 Type of disposal method selected land fill  
 Volume of waste 1 Pit - 20,000 Discharge rate 100 GPH CFS  
1 Pit - 40,000 DAYS  
 Time projected for discharge 1 Day CFS  
 Receiving Stream flow rate N/A  
 Objection No Objection
- Final Company contact: (48 hours required notice)  
 Date 5-22-85 Individual V. Leon  
 Final discharge date 5-24-85  
 Objection No Objection

**INSPECTION (To Be Completed By DWR)**

- 208 Practices - Acceptable  Not Acceptable \_\_\_\_\_  
 Comments: \_\_\_\_\_
- Compliance with general permit interim guidelines: Acceptable  Not Acceptable \_\_\_\_\_  
 Comments: \_\_\_\_\_
- Division of Water Resources Action Taken: None  
 Action Recommended: \_\_\_\_\_
- Parameters (Prior to discharge (if any) at discharge):  
 pH 7.5 Total Pb \_\_\_\_\_ TOC \_\_\_\_\_  
8.0 TSS \_\_\_\_\_ Conductivity \_\_\_\_\_  
 Chloride \_\_\_\_\_ Total Cu \_\_\_\_\_  
 Total Fe 51.0

