

Plot Log Card CSD 0.987 mi. W ~0 07 39 (15') 39 10 WOOFTER -1 1188 80 80 100 TOPO. LOC. 7.9' SERIES rockwell Pet. Co Well no Z S.L. GRAY LEASE 148.50 AC. 970.20 L.C. COLE GRAHAM-DOAK ROCKWELL L. H. STRALEY Minimum Error of Closure ONE PART IN 200 ORIDGE COUNTY Source of Elevation U.S.G.S. I, the undersigned, hereby certify that this map is correct to the best of my know-ledge 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. 60 New Location ... X Drill Dasper..... mark Signed:\_ Map No. W Squares: Abandonment..... STATE OF WEST VIRGINIA Company ROCKWELL PETROLEUM COMPANY DEPARTMENT OF MINES Address P.O. BOX 86 SAND FORK W. VA. 26 436 OIL AND GAS DIVISION CHARLESTON SI GRAY LEASE Mr. Howard Hinter Tract\_\_\_\_\_Acres 148.50 Lease No. WELL LOCATION MAP Well (Farm) No. THREE \_Serial No. Elevation (Spirit Level) 971 FILE NO DODD - 2288 Quadrangle VADIS County DODDRIDGE \_District \_COYE + Denotes location of well on United States Topographic Maps, scale 1 to 24,050, latitude and longitude lines being represented by Surveyor MARK C. FCHARD border lines as shown. Surveyor's Registration No. 490 \_\_Drawing No.. - Denotes one inch spaces on border line of 47-017 original tracing. \_Scale \_1" = 500' Date AUGUST 8, 1978 TRASCO 200 10-77 MC 6990. 2,100 Big Linguis

SEP 1 9 1978

#### Date \_\_\_\_\_ January 29 \_\_\_\_\_, 19 79 STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION Operator's FORM IV-25 (Obverse) Well No. Three WELL OPERATOR'S REPORT API Wel No. 47 - 017 - 2288 HANGE State County Permit DRILLING, FRACTURING AND/OR STIMULATING, OR FHYSIDAL CHANGE ELL TYPE: Oil\_\_\_/ Gas\_X\_/ Liquid Injection\_\_\_/ Waste Disposal\_\_\_/ (If "Gas", Production / Underground storage / Deep / Shallow X /) Elevation: 971° Watershed: Fallen Timber County: Doddridge Quadrungle: Vadis District: Cove ELL OPERATOR <u>Rockwell Petroleum Company</u> DESIGNATED AGENT Robert R. Jones Address P. O. Box 86 Address P. O. Box 86 Sand Fork, WV 26430 Sand Fork, WV 26430 RMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Practure or stimulate Plug off old formation / Perforate new formation\_\_\_\_ Other physical change in well (specify) OIL & CAS DIVISION The R. C. Lotte County \_\_\_\_\_, 19<u>78</u> OIL & GAS INSPECTOR FOR THIS WORK: ERMIT ISSUED ON August 30 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR Name Paul Garrett Address <u>Clarksburg, WV</u> REWORKING. VERBAL PERMISSION OBTAINED \_\_\_\_, 19\_\_ EOLOGICAL TARGET FORMATION: Big Injun Depth \_\_\_\_\_\_\_ Fee\* Depth of completed well, 5405 feet Rotary x / Cable Tools Water strata depth: Fresh, 99 feet; salt, feet. Is coal being mined in the area? No Coal seam depths: \_\_\_\_\_ Work was commenced <u>December 27</u>, 19 78, and completed <u>December 31</u>, 19 78 800 MCF CEMENT FILL-UP OR SACKS FOOTAGE INTERVALS PACKERS SPECIFICATIONS Weight Size Grade per ft New Used For drilling Left in well Kinds 200 sks 20 1b X 874 Sizes

[08-78]

OCATION:

ASING AND TUBING PROGRAM ASING OR UBING TYPE onductor resh water oal <u>ntermediate</u> roduction 9.5 Depths set 4 1/2 225 sks ubing iners Perforations: Top Bottom

PEN FLOW DATA Pay zone depth 5154 - 5234 feet Producing formation Elk Gas: Initial open flow, show Mcf/d Oil: Initial open flow, 0 Final open flow, Not taken Mcf/d Final open flow, 0 Bbl/d Time of open flow between initial and final tests, \_\_\_\_ hours Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_ hours shut in [if applicable due to multiple completion--] Pay zone depth 4460 - 4900-03 (eet Second producing formation Benson-Riley Gas: Initial open flow, show Mcf/d Oil: Initial open flow, Bbl/d TotalFinal open flow, 800,000 Mcf/d Final open flow, \_\_Bbl/d Time of open flow between initial and final tests, 6 hours TotalStatic rock pressure, 1600 psig (surface measurement) after 48 hours shut in

#### ETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Fractured January 8, 1979

Benson & Riley -

586 bls water

injection rate-27 BPM at 1950 lb.

2500 lb. breakdown

35,000 lb. 20/40 sand 15,000 lb. 80/100 sand

E1k -

Bottom

599 bls water

injection rate-27 BPM at 1988 lb.

1900 lb. breakdown

35,000 lb. 20/40 sand

15,000 lb. 20/40 sand

Perforations - 4460 - 4461.5 4 holes

4899 - 4900 4 holes

5154, 5155, 5156, 5157, 5187, 5198, 5224, 5234, 1 hole each

ELL LOG

FORMATION	Color	Soft	Top Feet	Feet	and salt water, coal, cil and gas
Surface			0	95	MANAGE CONTRACTOR
Sand			95	99	Water. In the property of the second
Shale			99	168	And the second of the second o
Red Rock		<b></b>	168	179	
Shale		. •	179	388	
Red Rock	·		388	405	
Shale			405	475	
Red Rock			475	493	
Shale			493	710	
Red Rock			710	744	
Shale			744	988	
Sand			988	1044	
Red Rock			1044	1052	
Shale			1052	1388	
Red Rock			1388	1401	
Shale			1401	1489	
Sand	NAME OF THE PROPERTY OF THE PR		1489	1503	
Shale			1503	1800	and the second of the second o
Sand			1800	1840	
Shale			1840	1885	· · · · · · · · · · · · · · · · · · ·
Sand			1885	1900	
Shale			1900	1980	
Lime			-1980	2000	
Sand		and the second	2000	2022	
Slate	godinana.		2022	2038	A CONTRACT OF THE PROPERTY OF
Lime			- 2038	2095	
Sandy Lime		Action to the second second	2095	2138	
Sand	and the state of t		2138	2156	Gas 48/10 in 2"
Sandy Lime	THE COLUMN TO TH	•	2156	2190	
Sandy Shale	deleta		2190	2350	
Shale			2350	2445	
Sand -			2445.	2457	
Shale			2457	2565	
Sand	Name of the last o		2565	2879	
Shale		a.	2879	2975	5405
Sand		Name of the state	2975	3008	i de la companya de
Shale		Ĭ.	3008	3345	2300

ROCKWELL PETROLEUM COMPANY - 47-017-2288			
Sand	3345	3370	
Shale	3370	4450	
	4450	4470	
Sand	4470	4895	K
Shale	4895	4903	
Sand	4903	5145	
Shale	5145	5255	Show gas
Sandy Shale	5255	5405	
Shale	5405		
Total Depth	3403	Burgarah Sarah	Section 1





### OIL & GAS DIVISION DEET. OF WINES

## Oil and Gas Division

#### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE August 11, 1978
Surface Owner Mr. Howard Hinterer	
Address New Milton, WV	Address P.O. Box 86, Sand Fork, WV 2643
Mineral Owner Howard Hinterer & others	
Address New Milton, WV	
Coal Owner None	0.71
Address	Doddrida
Coal Operator None	
Address	
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 I	NSPECTOR O BE NOTIFIED Paul Garrett
operations have not commenced by 12-31-78	DDRESS <u>Clarksburg, W. Va.</u>
Deputy Director - Oil & Gas Division	HONE 622-3871
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 d Hinterer & others Rockwell Petroleu	ated October 5 1977 by Howard on the 25th October
Hinterer & others to Rockwell Petroleu  1977 in Doddridge County, Book 103	Page 97
	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	
The enclosed plat was prepared by a registered engineer o have been notified as of the above date.	r licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or fi	notified that any objection they wish to make, or are required led with the Department of Mines within ten (10) days. *
or coal owners at their above shown respective address	
same day with the mailing or delivery of this copy to the Dep	partment of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL	Very truly yours,
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Solve Parisoleum
WEST VIRGINIA GEOLOGICAL AND	P.O. Box 86
ECONOMIC SURVEY Address	
P. O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505  Well Open	
AC-304 - 292-6331	City or Town
	West Virginia 26430
	State
notice and plat by the department of mines, to said proposed location, the filing of such plat, that no objections have been made by the coal op	Department of mines, within said period of ten days from the receipt of the department shall forthwith issue to the well operator a permit reciting serators or found thereto by the department and that the same is approved
and the well operator authorized to proceed.	
RIANKET ROND	DODD=2288 PERMIT NUMBER
"I have read and understand the reclamation requirements as set f	orth in 117_017

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

DRILLING CONTRACTOR: (If NAME Haught & Sons	77	DECRONGEDIE ACEN			
NAME Haught & Sons	Known)	RESPONSIBLE AGENT: NAME Robert R. Jones			
ADDRESS Smithville, V		ADDRESS P.O. Box 86, Sand Fork, WV 2643 TELEPHONE 462-7389			
TELEPHONE 477-3333					
ESTIMATED DEPTH OF COMP.		ROTARY X	CABLE TOOLS		
PROPOSED GEOLOGICAL FOR					
TYPE OF WELL: OIL_			GE DISPOSAL		
	RECYCLIN	NG WATER F	LOODOTHER		
TENTATIVE CASING PROGRA	M:				
CASING AND TUBING	$us_{FD} Vor$	LEFT IN	CEMENT PHIL UP		
SIZE	DRILLING	WELL.	OR SACKS - CUBIC 1-T.		
0 - 16					
3 - 10		And the state of t			
- 5/8	27.01	210'	To surface		
- 5/8	210'	210	10 Sullace		
1/2					
1/2		2150'	110 sks Pozz		
			Perf. Top		
			Perf. Bottom		
iners			Perf. Top		
			Perf. Bottom		
PPROXIMATE FRESH WATEF	DEPTHS 90 FEET	SALT WATE	R FEET		
PPROXIMATE COAL DEPTHS	None				
COAL BEING MINED IN TH	he area? No	BY WHOM?			
	2, 4200.00	r fee, performance	BOND AND PERMANENT COPY		
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OBOND, PERMANENT PLAT OIL AND/OR GAS WELL OIL AND/OR GAS WELL OING ORIGINAL PERMIT NO	LL: OF OG - 1, SHOWING ORIGI TO 1929, A PERMANENT CO ED.  PRIGINALLY DRILLED BEFOR AND ORIGINAL WELL REC PRIGINALLY DRILLED ON AN UMBER, AND PERFORMANCE	NAL PERMIT NUMBER OPY OF THE PLAT AND REJUNE 5, 1929, FIVE ( ORD. ID/OR AFTER JUNE 5, 1 BOND. ompletion for bond release	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD  5) COPIES OG - 1, PERFORMANCE  1929, FIVE COPIES OG - 1, SHOW- se. Inspector to be notified twenty-		
O DRILL DEEPER OR REDRIC SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITTO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL OBOND, PERMANENT PLATO OIL AND/OR GAS WELL OING ORIGINAL PERMIT NUR Required forms must be file four (24) hours in advance.  The following waiver must be recorded to the state of the s	LL:  OF OG - 1, SHOWING ORIGI TO 1929, A PERMANENT CO ED.  PRIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECO PRIGINALLY DRILLED ON AN UMBER, AND PERFORMANCE and within ninety (90) days of co be completed by the coal ope ent for	NAL PERMIT NUMBER OPY OF THE PLAT AND REJUNE 5, 1929, FIVE ( ORD. ID/OR AFTER JUNE 5, 1 BOND. ompletion for bond release rator if the permit is to  Coal Company, Ow aps this proposed well lo have no objections to said	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD  5) COPIES OG - 1, PERFORMANCE  1929, FIVE COPIES OG - 1, SHOW- se. Inspector to be notified twenty- be issued within ten days of receipt		
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT  OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OBOND, PERMANENT PLAT OIL AND/OR GAS WELL OING ORIGINAL PERMIT NU Required forms must be file four (24) hours in advance.  The following waiver must ereof.  AIVER: I the undersigned, Ag this lease have examin We the providing operator has	LL:  OF OG - 1, SHOWING ORIGI TO 1929, A PERMANENT CO ED.  PRIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECO PRIGINALLY DRILLED ON AN UMBER, AND PERFORMANCE and within ninety (90) days of co be completed by the coal ope ent for	NAL PERMIT NUMBER OPY OF THE PLAT AND REJUNE 5, 1929, FIVE ( ORD. ID/OR AFTER JUNE 5, 1 BOND. ompletion for bond release rator if the permit is to  Coal Company, Ow aps this proposed well lo have no objections to said	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD  5) COPIES OG - 1, PERFORMANCE  1929, FIVE COPIES OG - 1, SHOW- se. Inspector to be notified twenty- be issued within ten days of receipt ener or Operator of the coal under location. It well being drilled at this location,		