

STATE OF WEST VIRGINIA **DEPARTMENT OF MINES**

OIL & GAS DIVISION DEPT. OF MINES

Disposal_

Oil and Gas Division

Whipkey Drilling

WELL RECORD

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Permit No. 47-107-1116 Was 1090

Quadrangle Willow Island 72"

Fresh water____

Recycling_ Comb. Water Flood___ Storage_

(Kind) Company NRM Petroleum Corporation Casing and Used in Left Cement fill up Address P. O. Box 816, Buckhannon, WV 26201 Tubing Drilling . in Well Cu. ft. (Sks.) Farm Wilma & Raymond Ingold Acres 36.75 Location (waters) North Fork Size Well No. 2 20-16 County Wood District Walker Cond. DSXXXX 11 3/4 35 Sks. Hallibur 1 Jt. The surface of tract is owned in fee by Same 9 5/8 Address Rt. 2, Box 180, Walker, WV 8 5/8 328.82 90 Sks. Hallibur 328.82 Mineral rights are owned by... 5 1/2 _ Address_ 4340 4 1/2 12-6-80 Drilling Commenced____ Drilling Completed 12-14-80 Show cu. ft. bbls. Initial open flow _ Liners Used Final production 215 M cu. fb. per day 12_bbls 450# RP tubing Well open ____3 _hrs. before test_ 550# casing Attach copy of cementing record. Well treatment details: 3940 to 4296 Ohio Shale perforations - 13 holes - Foam Frac with 516,000 C.F. of nitrogen Ohio Shale Frac Broke down at 1000# Broke down at 1000#, maximum pressure 3500% Shut-in pressure 600%, average rate 35 BPM 3500#, 54,000# of 20/40 sand and 1500 gal. of 15% HCI Coal was encountered at No Coal Salt Water Big Injun

Feet .

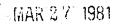
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Sand and Shale Cow Run Shale Sand Sand and Shale Big Injun Shale Coffee Shale Berea Shale Gordon Ohio Shales DE U Sh	0 1117 1147 1158 1213 1695 1889 2242 2249 2255 2615 2648	1117 1147 1158 1213 1695 1889 2242 2249 2255 2615 2648	All Formation Depths Taken From Gamma Ray Log (EKB = 866' Drilled on a Baroid Mud 12,000 PPM Show Gas In Berea
TOTAL DEPTH		4373	
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Formation Calor Hard or	Soft To	op Foot	Bottom Feet	Oil, Gas or Water	* Remarks
Berea Perforations - Berea Frac - Broke e bbl. water.	10 holes	s, 2257 900#, a	2260 verage pre	ssure 1225#, us	ed 244
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Date ____

APPROVED NRM Petroleum Corporation Orner Cohu C, Mone Lyd.





STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division WELL RECORD

Whipkey	Drilling
Rig #1	· ·

Quadrangle Willow Island 71/2"

formerly 1090

Rotary X Oil ______
Cable ____ Gas _____

Permit No. 47-107-1116 Wate

Recycling Comb. Storage Disposal

(Kind) Company NRM Petroleum Corporation Casing and Used in Left Address P. O. Box 816. Buckhannon, WV 26201 Cement fill up Tubing Drilling in Well Farm Wilma & Raymond Ingold Acres 36.75 Cu. ft. (Sks.) Location (waters) North Fork Size Well No. 2 _ Elev. 860' 20-16 District Walker _ County Wood Cond. The surface of tract is owned in fee by Same **MXXXX** 11 3/4 l Jt. 1 Jt. 35 Sks. Hallibu 9 5/8 Address Rt. 2. Box 180, Walker, WV 8 5/8 328.82 328.82 90 Sks. Hallibu Mineral rights are owned by___ _ Address_ 5 1/2 Drilling Commenced 12-6-80 4 1/2 4340 Drilling Completed_ 12-14-80 Initial open flow Show ___cu. ft. _ Final production 21 bbls. 215 cu. ft. per day. 12 bbls. Liners Used 450# RP tubing Well open ___ hrs, before test. 550# casing Attach copy of cementing record. Well treatment details: Ohio Shale perforations - 13 holes, 3940 to 4296 Ohio Shale Frac Foam Frac with 516,000 C.F. of nitrogen Broke down at 1000# maximum pressure 3500#, average pressure

Shut-in pressure 600#, average rate 35 BPM

54,000# of 20/40 sand and 1500 gal. of 15% HCI

Coal was encountered at No Coal Feet Inches

Fresh water Salt Water Big Injun

Feet . Ohio Shale Producing Sand Berea Depth . Formation Color Hard or Soft Top Feet Bottom Feet Oil, Gas or Water * Remarks Sand and Shale 0 1117 All Formation Depths, Taken Cow Run 1117 1147 From Gamma Ray Log (EKB = 866') Shale 1147 1158 Sand 1158 1213 Drilled on a Baroid Mud Sand and Shale 1213 1695 12,000 PPM Big Injun 1695 1889 Shale 1889 2242 Coffee Shale 2242 2249 Berea 2249 2255 Show Gas In Berea Shale 2255 2615 Gordon 2615 2648 Ohio Shales 2648 TOTAL DEPTH 4373

Formation	Color	Hard	or Bott		Top Feet		Bottom	Feet	Oil,	Gas or Water	 Remarks
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APPROVED NRM Petroleum Corporation Oper John C, Mone Super.



Oil and Gas Division

OIL & GAS DIVISION

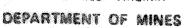
OIL AND GAS WELL PERMIT APPLICATION - OF MINES

Address Route 2, Box 180, Walker, WV Mineral Owner Wilma Ingold and Raymond Ingold Address Route 2, Rox 180, Walker, WV Coal Owner unknown Address Coal Owner unknown Address Coal Operator unknown Address To Be NoTIFI ADDRESS Sm PHONE 477-2 GENTLEMEN: The undersigned well operator is entitled to drill upon the above named title thereto, (or as the case may be) under grant or lease dated May Raymond Ingold, et thiede to Petroleum Services, Inc. and rec 1980, in Wood County, Book 741 Page 171 X NEW WELL DRILL DEPER REDRI QIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUN The enclosed plat was prepared by a registered engineer or licensed land have been notified as of the above date. The above named coal owners and/or operator are hereby notified that an to make by Section 3 of the Code, must be received by, or filed with the De Copies of this notice and the enclosed plat were mailed by registered mail, or coal owners at their above shown respective address or coal owners at their above shown respective address amme day with the mailing or delivery of this copy to the Department of Min PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: (Sign Name) WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well Operator of found the holling of such plat, than no objections have been made to the department of mine, to said proposed location, the department of the lift of the plat that the plate of the plate	September 22,	1980
Address Route 2, Box 180, Walker, WV Mineral Owner Wilma Ingold and Raymond Ingold Address Route 2, Rox 180, Walker, WV Coal Owner unknown Address Coal Owner unknown		
Mineral Owner Wilma Ingold and Raymond Ingold Parm Ingold Address Route 2, Box 180, Walker, WV Location (v. Coal Owner unknown Well No. District. W. Coal Operator unknown Quadrangle. Address District. W. Quadrangle. HIS PERMIT MUST BE POSTED AT THE WELL Site Workshop being in accordance with Chapter 22, with the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the W. Vo. Code, the location is hereby approved in the World of the William Phone Services. In the World Ingold, et will upon the above named title thereto, (or as the case may be under grant or lease dated May. Raymond Ingold, et will be to Petroleum Services, Inc. and rec 1980, in Wood County, Book 741. Page 171. X. NEW WELL DRILL DEPPER REDRITED The enclosed plat was prepared by a registered engineer or licensed land have been notified as of the above date. The above named coal owners and/or operator are hereby notified that any to make by Section 3 of the Code, must be received by, or filed with the December of the work of the Wert Truly your PLEASE SUBMIT COPIES OF ALL Geophysical Logs Directive address was day with the mailing or delivery of this copy to the Department of Mine with the West Virginia Geological AND ECONOMIC SURVEY Address of Well Operator AC-304 - 192-6331 **SECTION 3 If no objections are filed or found by the Department of mine notice and plat by the department of mines, to said pioposed location, the department in the foling of such plut, that no objections have been hade by the coal operators or found it and the well operator southwired to proceed.	NRM Petroleum Corp	
Address Roure 2, Box 180, Walker, WV Location (see Coal Owner unknown Well No	PO Box 816, Buckhanno	
Coal Owner Unknown Address	Ingold North Fork	Acres 36.75
Address Coal Operator unknown Quadrangle. Address Address Its PERMIT MUST BE POSTED AT THE WELL SITE Its pervisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved to drilling. This permit shall expire if a drilling. This permit shall expire if a drilling. Pervisions have not commenced by 5-29-81. Deputy Director Off & Gas Division The undersigned well operator is entitled to drill upon the above named title thereto, (or as the case may be) under grant or lease dated May. Rayugond Ingold, et unide to Petroleum Services, Inc. and rec 1980, in Wood County, Book 741. Page 171 X. NEW WELL DRILL DEEPER PREDRICATION OF The enclosed plat was prepared by a registered engineer or licensed land have been notified as of the above date. The above named coal owners and/or operator are hereby notified that an to make by Section 3 of the Code, must be received by, or filed with the De Copies of this notice and the enclosed plat were mailed by registered mail, or coal owners at their above shown respective address are day with the mailing or delivery of this copy to the Department of Min PLEASE SUBMIT COPIES OF ALL CEOPHYSICAL LOGS DIRECTLY TO: (Sign Name) WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address of Well Operator AC-304 - 192-6331 **SECTION 3 If no objections are filed or found by the Department of minotice and plat by the department of mines, to said 10-poxed location, the department she the filing of such plat, that no objections have been made by the coal operators or found the and the well operator authorized to proceed.	tion (waters) North Fork	
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Deputy Director - Oil & Gas Division Deputy Director - Oil & Gas Division The undersigned well operator is entitled to drill upon the above named title thereto, (or as the case may be) under grant or lease dated May. Raymond Ingold, et timed to Petroleum Services, Inc. and received in Wood County, Book 741 Page 171 X NEW WELL DRILL DEEPER REDRICATION OF THE ENDING OF THE PAGE OF THE ADDRESS OF THE ADDRES	OTIFIED K. Paul Good	dnight
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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 **SFCTION 3 If no objections are filed or found by the Department of mine notice and plat by the department of mines, to said proposed location, the department sha the filing of such plat, that no objections have been made by the coal operators or found the and the well operator authorized to proceed.		9
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the filing of such plat, that no objections have been made by the coal operators or found the and the well operator authorized to proceed.	State	
CIANKET ROND	nent shall forthwith issue to the well o	tays from the receipt of
And the R. B.		perator a permit reciting that the same is approved
"I have read fid understand the reclamation requirements as set forth in Chapter 22. Article 4, Section 12-b and will carry out the specified requirements."	47-107-1090	perator a permit reciting that the same is approvedPERMIT NUMBER

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

PROPOSE	ED WORK ORDER TO	X DRILL	_ DEEPEN	FRACTURE-STIMULATE
DRILLING	CONTRACTOR: (II	Known)	RESPONSIBLE AGEN	${f r}$:
NAME	Union Drilling		NAME Rickard Hop	kins
ADDRESS	Drawer 40 . Bu	ickhannon, WV 26201	ADDRESS PO Box	816, Buckhannon, WV
TELEPHO	NE 472-4610		TELEPHONE	72-9113
		ETED WELL: 2910!	ROTARY X	CABLE TOOLS.
PROPOSE	D GEOLOGICAL FORM	MATION: Gordon		
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			GWATER FI	
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				FEET.
	MATE COAL DEPTHS			
IS COAL	BEING MINED IN TH	E AREA? unknown	BY WHOM?	
TO DRILL	L:			
SUB	MIT FIVE (5) COPIES	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE	BOND AND PERMANENT COPY
OF	PLAT.			•
TO DRILL	L DEEPER OR REDRIL	L:		•
			NAL PERMIT NUMBER	AND PERFORMANCE BOND. ON
				THE ORIGINAL WELL RECORD
	T ALSO BE SUBMITTE			· · · · · · · · · · · · · · · · · · ·
TO FRAC	TURE - STIMULATE:			
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		AND ORIGINAL WELL REC		
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		MBER, AND PERFORMANCE		**************************************
Rogi	ried forms must be file	d within minute (00) days of a	ampletion for band subsec	e. Inspector to be notified twenty-
	(24) hours in advance.	o within ninety (50) days of c	ompletion for bond reseas	e. Inspector to be nothed twenty
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The	following waiver must	be completed by the coal ope	rator if the permit is to h	e issued within ten days of receipt
thereof.			•	
WALVER:	I the undersigned, Age	ent for	Coal Company, Owi	ner or Operator of the coal under
		ed and place on our mine ma		
				well being drilled at this location,
				d 7, Chapter 22 of the West Virginia
	Code.	compact with an rules and regu-	nasons in Alticida 4, 0, 40	the state of the s
	COUR.			
				For Coal Company
			- The second	
				Official Title







Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION MINES

	ARTAZAT OF LENKE,					
Charle	***a, 7. %	DAT	8	ecember 2,	1980	
Surface Owner	Wilma Ingold and Raym	ond Ingold	NF	M Petroleu	m Corporat	ion
Add Route	2. Box 180, Walker, V	WV Add	PO	Box 816, B	uckhannon,	WV 26201
	Wilma Ingold and Ray	and the second s	Ing	old	ACTO	36.75
	2. Box 180. Walker	WV Loo	tion (water	North	Fork	4
Cal Over	unknown	win	Mo. Ing	old#2	Eleva	tion 860'
Address		por entre communication de la communication de	rict	Walker	Cour	Wood
Coal Operator	urknown.		drangle	Willow Is	land	
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decre being in occi	rdance with Chapter 22,	•				
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illing	This permit shall expire if		OTIFIED	K. Paul	Goodnight	
ns have not commend	ed by 8-10-81					
1 5 Margar	3	**************************************	• Smithy	ille. WV	26178	
ity Director - Bill & J	as Division	Phone 4	77-2455	<u>or 65</u> 8-428	0	
GENTLEVEN:		•	•			
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"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 6, 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_	X	_ DEEPEN FI	RATTURESTIMULATE			
DRILLING CONTRACTOR: UI K		RESPONSIBLE AGENT: NAME Rickard L. Hopkins				
NAME Union Drilling						
ADDRESS Drawer 40, Buckh	annon, WV	ADDRESS PO Box 8	16, Buckhannon, WV			
TELEPHONE 472-4610	and the state of t	TELEPHONE 472-	-			
ESTIMATED DEPTH OF COMPLE		ROTARY X	CABLE TOOLS			
PROPOSED GEOLOGICAL FORMA	ATION: Gordon					
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	within ninety (90) days of cur	npletion for land release.	Inspector to be notified twenty			
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			oll being drilled at this location			
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		1.	or Coal Company			

Official Title