

OIL & GAS ROYALTY OWNER Dra Morgan LEASE NO.

PROPOSED WORK: DRILL CONVERT \_\_DRILL DEEPER. FRACTURE OR \_PERFORATE NEW PLUG OFF OLD FORMATION\_

\_OTHER PHYSICAL CHANGE IN WELL (SPECIFY). FORMATION\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG. ESTIMATED DEPTH 5400 TARGET FORMATION DEVODIZA Shale DESIGNATED AGENT R.L. WELL OPERATOR YEM Detroleum Box 816 30x 816 ADDRESS\_ ADDRESS

Buckhannon, W. Va. 26201 Buckhannon W. Va. 26201 6-6 Meathouse Fork-Bristol (146)



FEB 0 3 1988

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

# WEST LINE X

#### State of West Birginia

DEPARTMENT OF ENERGY
Gil und Gas Pivision

Februar	, 1,	1988			
tor's					
No. A#1					
Morg	an				
ю. <sup>47</sup>	CARD-	017	-	2923	FRAC
	No. A#1	No. A#1  Morgan	No. A#1	No. A#1 Morgan	No. A#1  Morgan

WELL OPERATOR'S REPORT

OF

#### DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1390' GL Watersh	ed Big Isaac C	Creek		
District: Greenbriar County	Doddridge	Quadrangle	e Big Isaac	7.5
OMBANI.				
OMPANYNatural Resource Management Corporation 681 Andersen Drive, Foster Plaza VI DDRESS Pittsburgh, PA 15220  Dave Cash	Casing	Used in	Left	Cement fill up
ESIGNATED AGENT Natural Resource Management Co	Tubing	Drilling	in Well	Cu. ft.
DDRESS 312 Sixth Ave., Charleston, WV 25303	— Size		manda da sana	
URFACE OWNER Mona L. Morgan	20-16 Cond,	SEE INITIA	L WELL	
DDRFSS Rt. 3, Salem, WV 26426	13-10"	RECORD DAT	ED MAY 14,	1981 <sup>.</sup>
UNERAL RIGHTS OWNER See attached sheet.	9 5/8			
DDRESS	8 5/8			
OIL AND GAS INSPECIOR FOR THIS WORK Mike	7			
Underwood ADDRESS Rt. 2, Box 135 Salem, WV 26426	5 1/2			· · · · · · · · · · · · · · · · · · ·
ERMIT ISSUED August 10, 1987	4 1/2			
STIMULATION ANTIATING COMMENCED September 11, 1987	3			
STIMULATION  NATURAL COMPLETED September 11, 1987 -	2			
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
FOLOGICAL TARGET FORMATION SEE INITIAL WEL	LL RECORD	Dep	th	feet
Depth of completed wellf	eet Rotary	/ Cabl	e Tools_	
Water strata depth: Fresh f	feet; Salt	feet		
Coal seam depths:	Is coal	being min	ed in the	e area?
DPEN FLOW DATA				
Producing formation SEE INITIAL WELL REC	CORD Pa	v zone dep	th	feet
Gas: Initial open flow Mc				
Final open flow Mc				
Time of open flow between	•			
Static rock pressurepsig(s		•		
(If applicable due to multiple comple			***************************************	
Second producing formation Benson			th : 516	59 <b>fee</b>
Gas: Initial open flow 37 Mar				
,	cf/d Oil: Fi	nal open i	LOW	ا المشالفانة
Final open flow 460 M  Time of open flow between	cf/d ^Oil: Fi n initial and f	nal open i inal tests		ours FEB 1

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

Set frac plug at 5281'. Spotted 500 gal. 15% HCL and 500 gal. MeOH. Perfed 5149' to 5169' with 15 holes. Brokedown Benson at 1700#. Pumped 35,000# 20/40 sand, 481 bbls gel water 2% KCL, 150 SCF N2/bbl. Average treating rate 21 BPM. Average pressure 2600 PSI. ISIP A/F 1600 PSI.

#### WELL LOG

FORMATION COLOR H	ard or soft	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
· SEE INTITAL WELL	RECORD DATED	MAY 14, 1981.		
•				
				FEB 0 3 1988
				DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
				DEI ARTIMATA
		Designation of the control of the co		
		egyption of the control of the contr		

(Attach separate sheets as necessary)

NATURAL RESOURCE MANAGEMENT CORPORATION
Well Operator
Rand 1 Shadala
By: Paul Shalestal, Regional Geology Manager
Date: 7/1/88
and the state of t

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 that, encountered in the drilling of a well."

Sand and Shale

Little Lime

Big Lime Big Injun

Shale

Shale

Weir Shale



### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division

Union Drilling Rig #1

Quadrangle Big Isaac 7½  Permit No. 47-017-2923	MELL	RECORD		Rotary X Cable Recycling Water Floor Disposal	Gas	•
Company NRM Petroleum Corporation		Casing and	Used in	Left	Cement fill up	
Address P.O.Box 816, Buckhannon, W. Farm Morgan Ad		Tubing	Drilling	in Well	Cu. ft. (Sks.)	
Location (waters) Big Isaac Creek Well No. A #1 Ele	v 1390'	Size 20-16	,			
District Greenbrier County Dodo The surface of tract is owned in fee by Ora E. Morgan		Cond. *** 11 3/4 9 5/8	151.55	151.55		
Address Rt. 3, Box 94, Salem, WV		8 5/8	1358.90	1358.90	320 Sks. (4-4-8)	1
Mineral rights are owned by Same		7				
Address		5 1/2				
Drilling Commenced 3-31-81		4 1/2	460	5616.2	5 140 Sks. (4-8-8)	l
Drilling Completed 4-8-81		3				
Initial open flow 48 M cu. ft.	bbls.	2				
Final production 855 cu. ft. per day _	bbls.	Liners Used				
Well open 4 hrs. before test 2 Well treatment details: Alexander Perforations - 12	2000 RP. 2 holes.	Attach copy of c	_			
Alexander Frac - Breakdown	2000#, a	verage pressi	ure 2850;	#, avera	age	
rate 30.9 BPM, total fluid	444 bbl.	, shut-in pro	essure I	40 <i>0#</i>		
10,000# of 80/100 sand and	30;000#	of 20/40 san	d.	859	5MCF	
Coal was encountered atFe	et	Salt W	/ater		Feet	
Producing Sand Alexander		Depth	5491-	5500		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	* Remarks	
Formation Depths Taken From Dri	ller's Log	Book				
Clay	0	2	ME	PIETT	MIEIN	
Sand and Shale	2	36		Ace o	25111	
Sand	36	88				
Sand and Shale	88	124	(a) (a)	MAY 14 1	981	
Sand, Shale and Red Rock Sand and Shale	124 555	555 783			<del>-</del> - /	
Shale and Red Rock	783	801	<u></u>	L & GAS D	IVISION	
Sand and Shale	801	915				
Sand	915	960	UEF	1. OF	MINEE	
Sand and Shale	960	-				
Formation Depths Taken From Gar	ma Ray Log	EKB 1395'	<b>0</b> 400			

2198

2216 2238

2286

2396

2416

2573

2647

Gas Chk. @ 2308' - No Show (Odor)

1981

JUN 4

- 2198

- 2238

2216

2286

2396

2416

.2573

Formation	Color	Hard or Left	Top Foot	Bottom Feet	Oil, Gas or Water Remarks
		, , , , , , , , , , , , , , , , , , ,			
Berea			- 2647	2671	
	and Shale	3	2671	2854	
Gordon St			2854	2987	Gas Chk. @ 2933' - 15 M
	and Shale		2987	3511	0a3 dia. 6 2/33 - 13 H
Warren		<b>-</b> ;	511	3552	
Shale			3552	3572	
	and Shale	2	3572	3716	,
Upper Spe		-	3716	3768	
	and Shale	<u> </u>	3768	3848	·
Speechley		and the second of the second	3848	3894	es e
	and Shale	2	3894	3998	
Balltown			3998	4166	
	and Shale	2	4166	4336	
Siltstone			4336	4435	
Siltstone	and Shale	e	4335	5148	Gas Chk. @ 4462' - No Show
Benson ·			- 5148	5175	Gas Chk. @ 4775° - No Show
Siltstone	and Shale	e ·	5175	5436	Gas Chk. @ 5430' - 37 M
Alexander	•		5436	5576	
Siltstone	and Shale	2	5576		Gas Chk. @ 5740° - 40 M
TOTAL DEP	TH			5755	Gas Chk. @ TD (In Collars) - 48
		A CONTRACTOR OF THE CONTRACTOR			
					·
Well Loss	ed By All	oheny Nucle	r Surveys		
Well Logg	ed By Alle	egheny Nucle	ar Surveys		
Well Logg	ed By All	egheny Nucle	ar Surveys		
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Initial O	-	- 48 Mcf per	day		
	-	- 48 Mcf per	day		

Date 5-12,	19	81
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APPROVED NRM Petroleum Corporation

\_ Owner

Richard L. Hoplains



JAN - 2 1981

#### DEPARTMENT OF MINES

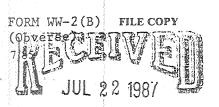
# Oil and Gas Division oil & GAS DIVISION DEPT. OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

•	
TO THE DEPARTMENT OF MINES.	and the control of th
Charleston, W. Va.	DATE December 31, 1980
Surface Owner Ora E. Morgan	The state of the s
AddamaRt 3. Box 94, Salem, WV	NRM Petroleum Corporatio
Manual Owner Ora E. Morgan, et al	
Address Rt 3, Box 94, Salem, WV	Acres 12
Cod Own	Location (voters) Big Issac Creek
Address	Elevation 137
Cual Operator	Cunteration
Address AT THE WELL SITE	Quadrangle Big Isaac
IT MUST BE POSTED AT THE WELL DIE	
ons being in accordance with Chapter 22,	
Va. Codersthe location is hereby approved	•
1 ing . This permit shall expire it	INSPECTOR
have not commenced by 9-6-81	TO BE NOTIFIED Paul Garrett
11	TO BE OUT TO DE
Director Day & Gas Division	ADDRESS 321 Beech Street, Clarksburg
Director 1921 & Gas Division	PHONE - 622-3871
	8 88014 € 022-3071
GENTLEMEN:	
The undersigned well operator is entitled to dri	ll upon the above named farm or tract of land for oil and gas, havin
BEING RECORDED RWH DRILL DEE  NEW WELL DRILL DEE  OIL AND GAS WELL ORIGINALLY	PerREDRILLFRACTURE OR STIMULA DRILLED BEFORE JUNE 5, 1869.
BEING RECORDED RWHIT. Book	Page
BEING RECORDED RWH. Book X NEW WELL DRILL DEE QIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered chave been notified as of the above date.  The above named coal owners and/or operator ar to make by Section 3 of the Code, must be received.	Page
BEING RECORDED RWH. Book	Page
BEING RECORDED RWH. Book X NEW WELL DRILL DEE OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered have been notified as of the above date.  The above named coal owners and/or operator ar to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were a coal owners at their closes shows the coal owners at their closes the coal owners at the coal own	Page
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BEING RECORDED RWH. Book X NEW WELL DRILL DEE  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered thave been notified as of the above date.  The above named coal owners and/or operator are to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were a core coal owners at their above shown respective add some day with the mailing or delivery of this copy to	Page
BEING RECORDED RWHY. Book X NEW WELL	Page  Page  PERREDRILLFRACTURE OR STIMULA'  DRILLED BEFORE JUNE 5, 1869.  engineer or licensed land surveyor and all coal owners and/or operate the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.   mailed by registered mail, or delivered to the above named coal operations the Department of Mines at Charleston, West Virginia.  Very truly yours.  (Sign Name)
BEING RECORDED RWH. Book X NEW WELL DRILL DEE  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered thave been notified as of the above date.  The above named coal owners and/or operator ar to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were a cor coal owners at their above shown respective add as me day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Page  Page  PERREDRILLFRACTURE OR STIMULA  DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operate  the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.   mailed by registered mail, or delivered to the above named coal operate  them day
BEING RECORDED RWH. Book X NEW WELL DRILL DEE  OIL AND GAS WELL ORIGINALLY  The enclosed plat was prepared by a registered chave been notified as of the above date.  The above named coal owners and/or operator ar to make by Section 3 of the Code, must be received Copies of this notice and the enclosed plat were a cor coal owners at their above shown respective add mame day with the mailing or delivery of this copy to PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Page  Page  PERREDRILLFRACTURE OR STIMULA  DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operate  the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.   mailed by registered mail, or delivered to the above named coal operate  the Department of Mines at Charleston, West Virginia.  Very truly yours  (Sign Name)
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BEING RECORDED RWH. Book  NEW WELL	Page  Page  PERREDRILLFRACTURE OR STIMULA'  DRILLED BEFORE JUNE 5, 1969.  engineer or licensed land surveyor and all coal owners and/or operate the hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.   mailed by registered mail, or delivered to the above named coal operation they before, or on the Department of Mines at Charleston, West Virginia.  Very truly yours  (Sign Name)
BEING RECORDED RWHY.  NEW WELL	Page

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

		DEEPEN FRACTURE STIMULATE				
DRILLING CONTRACTOR: (II	Known)	RESPONSIBLE AGENT:				
		NAME Rickard L. Hopkins  ADDRESS PO Box 816, Buckhannon, WV  TELEPHONE 472-9113				
ESTIMATED DEPTH OF COMPL			CABLE TOOLS			
PROPOSED GEOLOGICAL FORM						
TYPE OF WELL: OIL_						
	- RECYCLIN	G WATER FLO	OOD OTHER			
TENTATIVE CASING PROGRAM						
CANING AND TUBING	USED FOR DRILLING	IIIT IN WILL	OR SACKS - CURCLE			
311 - 16						
13.10						
9 - 5/8	province and the contract of t	production control of the same of the control of th	Mark the state of			
N - 1/N	1200'	1200	cement to surface			
			540			
5 1 <sub>2</sub>	57001		540			
1	<u> </u>	5 400	300 sks cement			
1			Perk Burgo Perk Beatterns			
lint:		The state of the s				
			Past Mattern			
APPROXIMATE FRESH WATER APPROXIMATE COAL DEPTHS	DEPTHS 365' FEET _ 305-365'	SAIT WATER	FEET			
IS COAL BEING MINED IN THE	FARRAS	פע שניסאיי	THE THEORY IN A REST TO THE			
	19 0 19 19 19 19 19 19 19 19 19 19 19 19 19	01 8 A6 18 C 144 ;	ம்பானார் - <del>சாரில் இன்ற பான்ற கூறிய இரிய சியிய சிய ச</del>			
TO DRILL						
SUBMIT FIVE (5) COPIES OF PLAT.	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE B	OND AND PERMANENT COPY			
TO DRILL DEEPER OR REDRIL	L:					
	O 1929, A PERMANENT CO	PY OF THE PLAT AND	ID PERFORMANCE BOND ON THE ORIGINAL WELL RECORD			
TO FRACTURE - STIMULATE:	Pagaga a a a a a a a a a a a a a a a a a					
nond, permanent plat	AND CHICINAL WELL RECO	DRD.	cories oc - 1, performance			
	RIGINALLY DRILLED ON AN MBER, AND PERFORMANCE		9. FIVE COPIES OG - 1, SHOW-			
Required forms must be filed	within ninety (90) days of co	impletion for band release.	Inspector to be notified twenty.			
four (24) hours in advance.						
	.മതുന്നു നിന്നും പുമാതാവം നിന്നും വരു	at maken ing at a sepanjan ing kanangan panggan panggan panggan panggan panggan panggan panggan panggan pangga Tanggan panggan pangga				
The following waiver must be thereof.	e completed by the coal oper	ator if the permit is to be	to a see a see all this bound			
WAINER. I the undersigned, Age	nt forn	·				
	•	• •	ell being drilled at this location,			
	• • • • • • • • • • • • • • • • • • • •		7, Chapter 22 of the West Virginia			
			and See			
		1	or Coal Company			
			Orticial Title			





)	Date:_	Ju1y	16,	1987
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2) Operator's Well No. MORGAN A#1

3) API Well No. 47 - 017 - 2923 - FRAC

#### STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS

#### .DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

UEPAH	KIMET	VI OF E	NEFGY		APPL	ICALIU	NEUR	A WELI	L WORK PERMI			
4) WE	LL TYF	E: A O	il	/ G	as X							
							Unde	rground s	torage	/ Deep	_/ Shallow .	/)
5) LO	CATIO	v: Ele	vation: _	1390	GL		Water	shed: B	ig Isaac Ci	eek		
•		Dis	trict:G	reenbr	iar /	<u> </u>	Coun	ty: Dod	dridge 0/	ZQuadrangleBi	g Isaac 7	.51 252
6) WE	LL OPI	RATOR	NATURA	L RESC	URCE	CODE:	345	50	7) DESIGNATE	DAGENT _Dave_C	lash	
										Natural Resou	rce Manag	ement Cor
•	144, 000				Pittsbı				•	312 Sixth Ave	Charle	ston. WV
8) OII	& C A 4			-	FIED				9) DRILLING C	ONTRACTOR:		2530
Nan	M:	ike Un	derwoo	d						known at this	time	
	Address	77.	2 Bo			~			Address	•		
,	-100103		em, WV		)	-						
n PRO	OPOSE	D WELL	WORK:	Drill	/	Drill	deepe	r	/ Redrill	/ Stimulate	X	
,	01 002								ate new formation			XXXX
				Other t	hydral cha	nge in sv	ell (sne	dfv) Se	t stage plu	ig @ + 5260'	perf & st	im
11) OF	OI OCI	CAT TAD	CET EOD	AOITAM	Renso	n a	ne	w for	mation (	comingled prod		
					5150			feet	And Alfred to a State of the Annual A			
					None				None	feet		
										ne area? Yes	/ No	37
					None		<u></u>	18 ¢Os	ai Oeing immed in ti	ie arear res	/ RO	X
15) CA:	SING A	ND TUBI									š:	
CASING TUBING			SPEC	CIFICATION  Weight	S	U	F	OOTAGE II	NTERVALS	CEMENT FILL-UP OR SACKS	PACK	ERS
1001110	4146	Size	Grade	per ft.	New Us	ed	For dr	Illing	Left in well	(Cubic feet)		
Conductor							15	<u>/</u>	151		Kinds	
Fresh water	r								`			
Coal											Sizes	
Intermediat	le	8.5/8				i i	135	8	1358	3205ks		
Production		4%		1					5616	140 SKS	Depths set	-
Tubing		1	<b>†</b>	1				***************************************				
Liners			<b> </b>	1				***************************************			Perforations:	The state of the s
Directo			<b> </b>								Тор	Bottom
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		A SALES MANUAL TO SALES					<del></del>		1			
xisti	ng;	see at	tached	well	record	$\supset$						
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								NG PE				
						***			M 42 7 M M	<u>.</u>		
ermit nu	umber_	47-	-017-2	923-FR	AC					Augu	st 10	19 87
		:								Da		
This perr	nit cove	ring the w	ell operat	or and we	ll location s	hown be	elow is	evidence (	of permission gran	ited to drill in accorda	nce with the per	tinent legal re-
quiremen	its subje	ct to the c	onditions	contained	herein and	on the r	everse h	ereof Not	ification must be	given to the District Oil	and Gas Inspec	tor, (Refer to
o. 8) Pri listrict o	or to th il and g	e construc as inspecto	tion of ros or 24 hour	ads, locati s before a	ons and pits ctual permi	for any tted wor	permit k has c	ed work. ommence	d.)	well operator or his co	miacioi siian ne	thy the proper
The perm everse h		ork is as d	escribed i	n the Noti	ce and Appl	ication,	plat, ar	d reclam	ation plan, subject	to any modifications	and conditions s	pecified on the
Permit ex		Aus	gust	10 1	989		u	nless well	work is commence	ed prior to that date and	d prosecuted with	n due diligence.
. CITALIN CA			×							=		-
Bono	a. I	Agent		ANTA.	Masin	Fo	e l	VPT F.	h Dan	Other		
Done	٠. ا	PRETIT		777.1	(DIATE	JE	57	13/1	1 15/1/			

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

Director, Division of

File

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