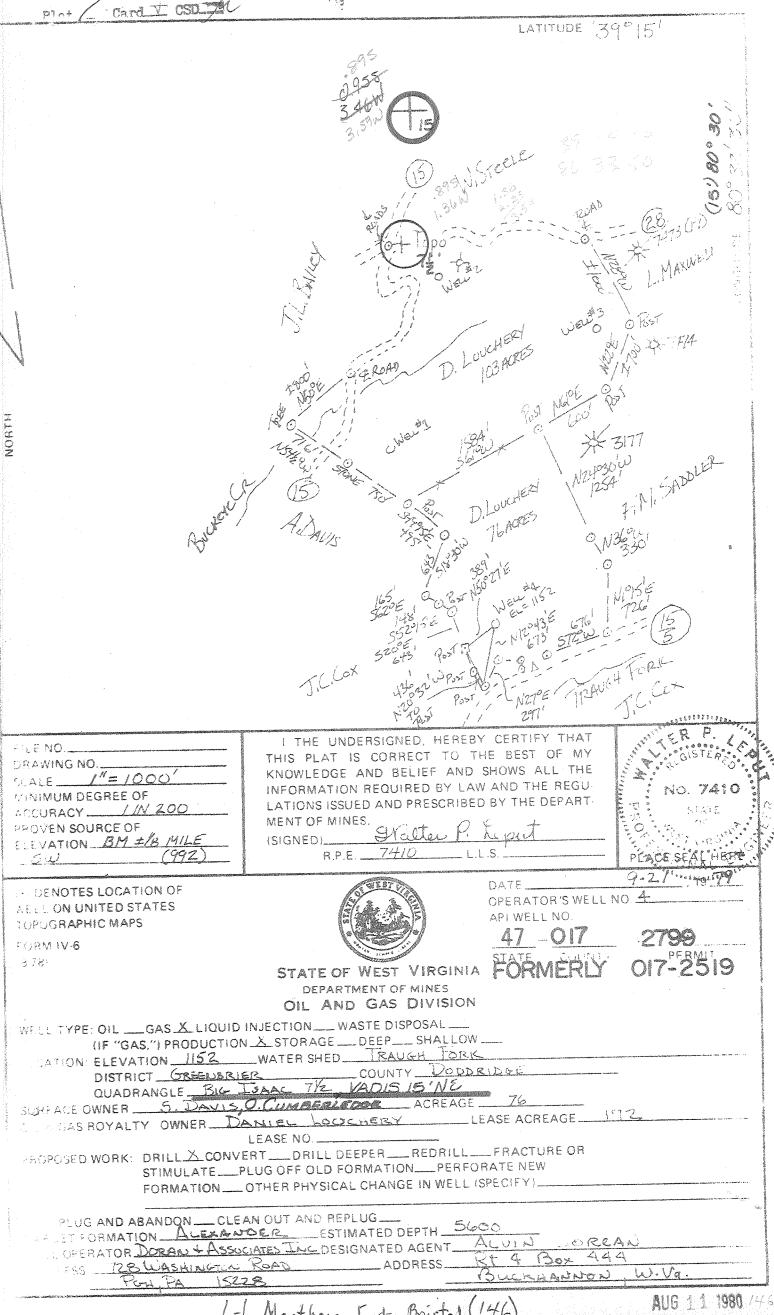
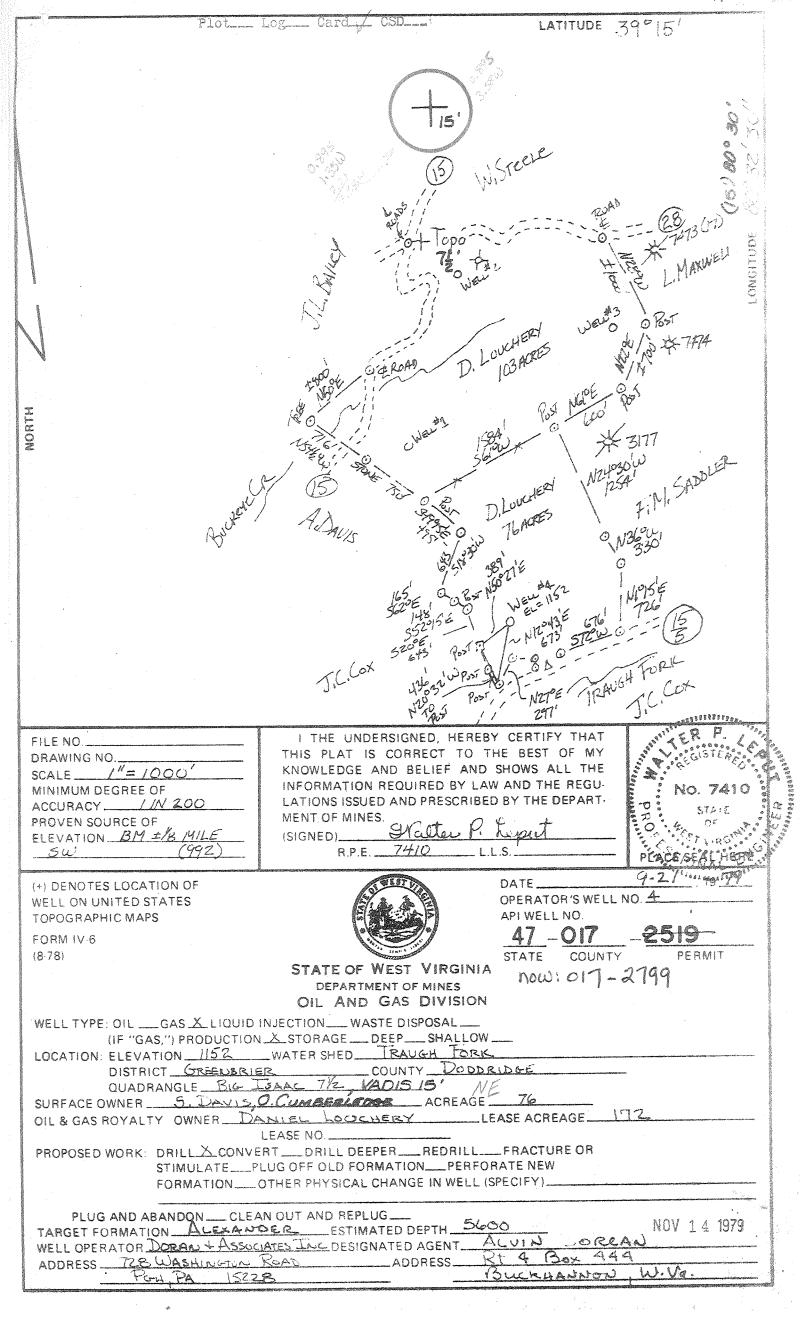
Boxes.	LATITUISE 3 SOLUTION AND THE PORT OF THE	(28) 77 MAX WELL (28) 7474 (28)
FILE NO. 12-25-80 DRAWING NO. SCALE 1 = 1000' MINIMUM DEGREE OF ACCURACY 1/N 200 PROVEN SOURCE OF ELEVATION 3/1 ±/8 MILE SOUTHWEST (992)	I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGU- LATIONS ISSUED AND PRESCRIBED BY THE DEPART- MENT OF MINES. (SIGNED) R.P.E. 7410 L.L.S.	
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FORM IV-6 (8-78)	DATEOPERATOR'S WELL I	
LOCATION: ELEVATION 1309 DISTRICT GREENBRI QUADRANGI E 136 1 SURFACE OWNER OLAN OIL & GAS ROYALTY OWNER DA PROPOSED WORK: DRILL X CONVE STIMULATE PROPOSED FORMATION CLEAN PLUG AND ABANDON CLEAN	OIL AND GAS DIVISION INJECTIONWASTE DISPOSAL X_STORAGEDEEPSHALLOWWATER SHEDIRAUGH_TORK ERCOUNTYDODDRIDGE SAAC_7/2_ VANOY D 15/ CUMBER LEDGE ACREAGE 76 NIELOUCHERY LEASE ACREAGEI LEASE NO/// RTDRILL DEEPERREDRILLFRACTURE OR LUG OFF OLD FORMATIONPERFORATE NEW OTHER PHYSICAL CHANGE IN WELL (SPECIFY) NOUT AND REPLUG	7 2
TARGET FORMATION ALEXAN WELL OPERATOR DORANIT ASSOC ADDRESS 200 ROESSLER RO PGH, PA. 1522 H.T. HALL	ATES INC DESIGNATED AGENT AL SORAN ADDRESS RTE 4. BOX	444 WY 36201



CSD-

- Plot. Card

W







STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL & GAS DIVISION Oil and Gas Division DEPT. OF MINES RECORD WELL

INTERVAL PERFORATED:

Quadrangle Big Isaac 7½ Permit No. <u>47-017-2</u>799

Rotary_X Oil_ Cable_____ Gas_X Recycling___ _ Comb. Water Flood_ Storage_ Disposal____

				(Kind)
Company Doran & Associates, Inc. Address 200 Roessler Rd., Pgh., PA 15220 Farm D. Louchery #4 Acres 172	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Trough Fork Well No. K-U-5 Elev. 1309 District Green brier County Doddridge	Size 20-16 Cond.			
The surface of tract is owned in fee by Olan Cumberleds	9 5/8 -			
Address Rte.3, Salem, WV 26426 Mineral rights are owned by Daniel Louchery	8 5/8	1524	1524	265 sks
Address P.O. Box 1206, Clarksburg, Drilling Commenced 5-17-81 WV 26201	5 1/2 4 1/2	5640	5640	215 sks
Drilling Completed 5-22-81	3	3040	3040	213 585
Final production 1007 m cu. ft. — bbls.	Liners Used			
Well openhrs. before test 1950 RP. Well treatment details:	Attach copy of ce	menting reco	rd	

DATE:

Attach copy of cementing record.

STIMULATION RECORD

TO A CTUTTED .						TOOLLD
DATE:	<u>INTERVAL PER</u>	FORATED:	FROM	TO	AMT FLUID	AMT SAND
6-12-81			2500	2529	446 BBLS	60,000
			2400	2444	514 BBLS	60,000
		Probable	() 472	u Bo	us on 5182-94	
	red at 115', 1270'	Feel	U		Inches	
Fresh water 388'	the same of the sa			Salt V	Vater	This day
Producing Sand G	Santz, 30' Sand, 50'	Sand, Fifth	Sand.	Depth	2882, 3004, 2954,	Feet
STEECULEY, Ba	lltown, Bradford, R	<u>iley, Bensor</u>	1	P	4028, 4420, 5038,	5128
Formation (Color Hard or Soft	Top Feet	Botto	m Feet	Oil, Gas or Water	* Remarks

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Substructure Sand Shale Coal Sand & Shale Sand & Shale Coal Sand & Shale Shale Shale Sand Lime Sand Sand Shale Slate Sand Shale Sand Sand Sand Shale Sand Sand Sand Sand Sand Sand Sand Sand	0 5 75 115 128 388 1270 1275 1524 1801 2100 2240 2280 3027 3425 3550 3577 3600 3650 3700 3800 3870 3884 4010	5 75 115 128 388 1270 1275 1524 1801 2100 2240 2280 3027 3425 3550 3577 3600 3650 3700 3800 3870 3884 4010 4056	F.W. @388 gas @2320, 2360
	<u> </u>		.1111 2 7 1981

Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Re	marks
Sandy Shale Sand Shale Sand & Shale Sand Shale Sand Shale Sand Sand & Shale Sand Sand & Shale Sand Sand Sand Sand Sand Sand Sand Sand		4056 4150 4188 4300 4460 4480 4550 4560 4650 4700 5182 5224 5310 5404 5490 5580 5690 5700 5710	4150 4188 4300 4460 4480 4550 4560 4650 4700 5182 5224 5310 5404 5490 5580 5690 5700 5710 5714	Gas @5185°	
Gantz 50' Sand 30' Sand Fourth Sand Fifth Sand Speechley Balltown Bradford Riley Benson Logger's T.D.		2882 2954 3004 3110 3210 3874 4028 4420 5038 5182	2908 2985 3025 3120 3220 3904 4058 4430 5064 5194 5796 Alex		
		Scriptowoodinament	SECULOR SECULO		- 3
8				e de la granda de l La granda de la granda d	
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	t garage				united the second secon
	Management of the second				
		decreased by the second			

APPROVED Donald R. Langliowner

By Lice President - Aprintions

(Fall)

Loucher	y #4 14-6-280				
FORM IV-2 (Obverse)	·	TATE OF WEST V	IRGINIA AND GAS DIVISIO	Date: September 26	, 19 <u>7</u> 9
[08-78]				Operator's Well No. 4	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	OIL AND	GAS WELL PERM	IT APPLICATION	API Well No. 47 - 017	
WELL TYPE: Oil	/ Gas <u>X</u> _/				
(If "G	as", Production X	Underground	storage/	Deep/ Shallow/)	47
LOCATION: Elevat	ion: <u>1152</u>	Watershed:	Traugh Fork		
Distri	ct: <u>Greenbrier</u>	County: Dodd	lridge Qua	drangle: Big Isaac 7½	
WELL OPERATOR Dor	can & Associates, Inc	2.	DESIGNATED AGEN	T Mr. Alvin Sorcan	
	Washington Road			Rt. 4, Box 444	-
Pit	tsburgh, PA 15228			Buckhannon, WV 26201	
OIL & GAS					****
ROYALTY OWNER Dan	niel Louchery	The state of the s	COAL OPERATOR _	Virginia Tetrick	
Address P.	0. Box 1206		Address	Union National Center We	est
	arksburg, WV			Clarksburg, WV 26301	
Acreage 172				ITH DECLARATION ON RECORD:	
	an Cumberledge, Rt.			Same as above	7
	Lem, WV 26426		Address		
\$	lvis W. & Wanda Mae l x 1222, Clarksburg, V		-	· · · · · · · · · · · · · · · · · · ·	
FIELD SALE (1F MADI	The state of the s	2030,1			j
Name N/A			Address		
Address		***************************************	COAL LESSEE WIT	H DECLARATION ON RECORD:	and the second second second
			Name N/A	DISCOENTIA	
OIL & GAS INSPECTOR	R TO BE NOTIFIED	And the second s	Address	Magagagi	
Name Paul Garre	ett			OCT - 9 1979	1
Address 321	l Beech Street		4 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1	001	
Cla	arksburg, WV 26301			OIL & GAS DIVISION	
The under	esigned well operator	is ontitled to	operate for oil	DEPT. OF MINES or gas purposes at the above	nae [©]
				April 17 , 19 79 ,	
	XXXXXXXXXXXX to R & P			,	
If said deed, leas	se, or other contract l	has been record	led:]		
Recorded on <u>Septe</u> r	mber 10, 19 <u>79</u> , in	the office of	the Clerk of the	e County Commission of Dodd	ridge
County, West Virgin	nia, in}	300k <u>110</u> at	prage <u>572</u> .	A permit is requested as f.	Alews:
PROPOSED WORK:	: Drill X / Drill de	eeper/ Red	rill/ Fract	ture or stimulate/	
	Plug off old formati	lon/ Per	forate new forms	ation/	
	Other physical chang	ge in well (spe	cify)		*************************************
77 1	planned as shown o				
				e are hereby notified that a	
	i to make or are requir Steen (15) days after t			ust be filed with the Depart	ment
				n by the Department. reclamation plan have been m	
				or, coal owner(s), and coal	
				cion to the Department of Mi	
Tharleston, West Vi		•			-
					M. J.
PLEASE SUBMIT COPIE ECPHYSICAL LOGS DI		(\rightarrow	77	26g
WEST VIRGINIA OIL A			Noraw F	Ussoc. Dnc. Well Operator	
CONSERVATION CO TELS WASHINGTON STR HARLESTON, WV 253	REET EAST				
DELEPHONE: (304) 3		Ву	Honala	K. Laughlin	
		It	5 Vici F	President - Operate	nia

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRACTO	R (IF	KNOWN)						
				Addre	ss				
								and the second s	**************************************
GEOLOGICAL T	ARGET	FORMAT	ION,	Ac	EXAN	DER			en e
									Cable tools/
								, feet.	
									an Yes/ 115
CASING AND T	HIBTNO	PROCEA	M						
CASING OR	ODING		n IFICATI	ONS	44	FOOTAGE	INTERVALS	VCEMENT FILL-U	P II PACKERS
TUBING TYPE	Size	1	Weight	1	Used Fo		1	OR SACKS 1 (Cubic feet)	
Conductor	113/4			×			30'		n
Fresh water									
Coal									Sizes
Intermediate	11			X			1600'	To Surface	
Production	4 1/2			×			5600	350 SU.	Depths set
Tubing				ļ					
Liners									Perforations:
			S .	 					Top Botton
A Section 1			A SALAN	ļ					
			1	<u> </u>	L				
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79800000	A 48 P	rector -		2		d .			·
ve or	ecai	កាលវិត () ខែ ខេ ខ្គង	nning Who ha	s rec	rnern; orded a teen (15	declarati b) days of	on under Code receipt ther	t m and by big \$ 22-4-20, if eof:	eral ounce the permit
'ران	o un to	rsicha		೧೯೯೭		$\underline{\underline{W}} \underline{\underline{A}} \underline{\underline{I}} \underline{\underline{V}} \underline{\underline{E}}$	_	na / nr + b-	్రాజ్క్ కండాన్కుడు ఉంది. అందన్
well location the work pro	n, the posed	well to be a	location done at	n has this	been ad locatio	ided to th on, provid	e mine man. ed. the well	The undersianed	To the land this well vers the lanes of the lanes of the lanes of the land to the land with all
te:			, '						, mil.
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Louchery #4	K-0-3	
	OIL AND GAS WELL	PERMIT APPLICATION Date: 3-10-81
WELL TYPE: 0:1	for the second s	API NO. 47 - 017 - 2799-REN State County Permit
(11	"'Gas", Production Unders	round storage / Deep / Shallow /
	White subject is not a sy	nes: Traugh Fork
Dist	rict: Greenbrier County	: Doddridge Quadrangle: Big Issac 7 3
WELL OPERATOR	Doran & Associates, Inc.	CDAL OPERATOR Virginia Tetrick
Address	200 Roessler Road	Address Union National Center
- Managarian	Pittsburgh, PA	Clarksburg, WV 26301
OIL & GAS		COAL OWNER(S) WITH DECLARATION ON RECORD:
	Daniel Louchery	Name same as above
Address	P. O. Box 1206	an announcement and an ano
**************************************	Clarksburg, WV 26201	* The control of the
Acreage	172	COAL LESSEE WITH DECLARATION ON RECORDS
SURFACE OWNER	Olan Cumberledge	Name DEGESVEIN
Address	Rte. 3,	
· wedstoning	Salem, WV 26426	Address
Well NO. 4	Acreage 172	OLEGAS DIVISION DECIT of MAINE C
FISID SALE (IF MA		BEFORE CONSTRUCTION BEGINS NOTIFY IN ES
A CONTROL OF THE PROPERTY OF T	N/A	Name Steve Casey
	The state of the s	Rte 2, Box 232-D
	en e	Street Jane Lew, WV 26378
DESIGNATED AGENT	А1 Sorcan	City
	. The state of the	PH: (304) 884-7470
1 Ng 1	Rte. 4. Box 444 Buckhannon,	
ine uncersig	ned well operator is entitled	to operate for oil or gas purposes at the above
equation under a	deed \sim lease \times other o	contract / dated April 17
xxidemaxxidemaxxidem	se or other continue has been	es from Daniel L. Loucherv
		f the Clerk of the County Commission of Doddr
County, West Virg	inia, in Book 110.	at page 572. A permit is requested as foll
FROPOSED WOR	<pre>C: Orill x / Orill Deeper</pre>	/ Redrill / Fracture or stimulate
	Plug off old formation /	Perforate new formation
	Other physical change in we	
	-	

--planned as shown on the work order on the reverse side hereof. The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the De-partment of Mines within fifteen (15) days after the receipt of this Application by Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the maililg or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOFHYSICAL LOGS DIRECTLY TO: OFFICE OF OIL AND GAS 1615 Washington Street, East

Well Operator

PROPOSED WORK OFFER

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Entrance Co		a (IF	Elcan)	enternia: mag-metalen	ISPSTALISSTERROUGHENENT	mencourses and a control of the cont	TO THE PARTY OF TH	A HANDER OLD AND THE REAL PROPERTY OF THE PERSON OF THE PE	- Considerate and Constitution of Constitution		
				Addre	SS .	P. O.		AND THE PROPERTY OF THE PROPER	TOTAL SELECTION OF SELECTION CONTRACTOR SELECTION C	•	
			•		*03/53/6215	TO CHARLES AND	a. PA	12/01	in contribute and the contribute		
TEGLACICAL			490400	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	eneloginous compressiones	hara Meridi i derakar ereke kerkerkeri werdan beredare	PROGRAMMA CONTRACTOR AND	Part de represent a l'est s'illettrant en Australianne.	n cisi seringe eka professioon		
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Approx	imate e	cal se	am dept		1445	Secretaria de la composición del la composición del composición de la composición del composición del composición de la composición del co	Is coal	being a	ined in the are:	a? Yes	No X
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			loer II	× 116.4	Used		lis Left		OR SACIS	CONT. TO PROPER THE PERSON OF	professional and consumption of the State Constitution of the second
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	N. C. Samuella and C. Samuella			REPRESENTATION OF THE PROPERTY	DEPOTE TO CONSIST HIS CONTRACT OF	eren eren mannen er menne aktori eren bet eren bet eren beter beter beter beter beter beter beter beter beter b	principal en service de la	interpretation of the control of the		en (j. 1770 s. s. sene cuentum variantem kantantem kantantem kantantem kantantem kantantem kantantem kantantem	CONTRACTOR OF CO
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THIS PERM All proving of the W. for dril operations	freetward as a series of the s	requirer property of the prope	od by Cappend the Form the Figure 1 the Figu	AT THe with is here permit	shall e	not be resided in constitution of the constitu	is owner	of any	orm 17-3, "Teel. d Regulation 23, 22-4-12a, and water sell or d rouring or stime which a permit	(V) if applied Selling within	7
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# Work ores	mand br	m has a m	198 do - 60 de - 6	- to d - 4			war many traff in	orthographic and a state of the	e undersigned ha erator has compl regulations.	as no objectio lied with all	n to

Ву __ Its ____

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE June 5, 1980
Surface Owner Olan Cumberledge	Company Doran & Associates, Inc.
Address Rt. 3, Salem, WV 26426	Address 728 Washington Rd., Pgh., PA 15228
Mineral Owner Daniel Louchery	Farm D. Louchery #4 Acres 172
Address P. O. Box 1206, Clarksburg, WV 26201	Location (waters) Traugh Fork
Coal Owner Virginia Tetrick	Well No. 4 Elevation 1152
Address Union National Center West, Clarksburg,	District Greenbrier County Doddridge
Coal Operator SAME AS ABOVE WV 26301	Quadrangle Big Isaac 7½
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
	SPECTOR
for DRILLING . This permit shall expire if TO	BE NOTIFIED Paul Garrett
operations have not commenced by 3-25-81 . ADI	DRESS 321 Beech Street, Clarksburg, WV 26301
Deputy Director - Oil & Gas Division PHO	ONE 304-622-3871
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 dat	
made to R & P Associates	and recorded on the $\frac{10\text{th}}{}$ day of ${}$
19_79 in Doddridge County, Book 110	Page572
XXX NEW WELL DRILL DEEPER	REDRILL FRACTURE OR STIMULATE
QIL AND GAS WELL ORIGINALLY DRILLED	
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required d with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by re or coal owners at their above shown respective address	this day before, or on the
v	ery truly yours,
PLEASE SUBMIT COPIES OF ALL	Sign Name) Nonel P. Janelle
GEOPHYSICAL LOGS DIRECTLY TO: (S	Well Operator Donald R. Laughlin
WEST VIRGINIA GEOLOGICAL AND	728 Washington Road
P. O. BOX 879 Address of	Street
MORGANTOWN, WEST VIRGINIA 26505 Well Operation AC-304 - 292-6331	Or Pittsburgh, City or Town
	PA 15228
	State State
notice and plat by the department of mines, to said proposed location, the the filing of such plat, that no objections have been made by the coal oper and the well operator authorized to proceed.	ators or found thereto by the department and that the same is approved
OR & GAS DIVISION DEPT. OF MINIS	(TIODMEDT V TOOD 9510)
"I have read and understand the reclamation requirements as set for Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."	th in
Signed by	

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

PROPOSED WORK ORDER TO DRILLING CONTRACTOR: (If NAMES. W. Jack Dri	Known)	DEEPEN FRACTURE-STIMULATE RESPONSIBLE AGENT: NAME _ Alvin Sorcan			
ADDRESS P. O. Box 697	, Indiana, PA 15701	ADDRESS Rt. 4, Box 444, Buckhannon, WV			
TELEPHONE349-6800		TELEPHONE472	2-0007 26201		
ESTIMATED DEPTH OF COMP		ROTARY XXX	CABLE TOOLS		
PROPOSED GEOLOGICAL FOR		•			
TYPE OF WELL: OIL	GAS XXX CC	MB STORAGE	E DISPOSAL		
. %			OODOTHER		
TENTATIVE CASING PROGRAM	M:				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16					
13 - 10 1/3/4	30.	30	To Surface		
8 - 5/8	1/ -	1/ 0			
7	1600	1600	To Surface		
5 ½					
4 ½	5600	5600	550Sks		
3	2000		Perf. Top		
2			Perf. Bottom		
Liners			Perf. Top		
-			Perf. Bottom		
SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTE OF FRACTURE - STIMULATE: OIL AND/OR GAS WELL OF BOND, PERMANENT PLAT OIL AND/OR GAS WELL OF ING ORIGINAL PERMIT NU	E AREA?O OF OG - 1, \$100.00 PERMIT L: OF OG - 1, SHOWING ORIGIN O 1929, A PERMANENT COF CD. RIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECO RIGINALLY DRILLED ON AND MBER, AND PERFORMANCE B I within ninety (90) days of cor	BY WHOM? BY WHOM? FEE, PERFORMANCE BO AL PERMIT NUMBER AN PY OF THE PLAT AND TO E JUNE 5, 1929, FIVE (5) O RD. O/OR AFTER JUNE 5, 1929 OND. Impletion for bond release.	DND AND PERMANENT COPY D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE D, FIVE COPIES OG - 1, SHOW-		
VAIVER: I the undersigned, Agenthis lease have examine We the		Coal Company, Owner this proposed well locations to said we	on. Il being drilled at this location.		
		For	Coal Company		

Official Title