

TRASCO 290 10-77 MC 6990-

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FORM IV-3	5		DEPA	ST RTMENT	OF MINES	, OIL AN	D GAS DIV	VISION			r #1	**
(Obverse)			4			TOR'S RE			API Wel	No. 47	- 017 ·	- 2504
[08-78]	<u>D</u>	RILLIN	G, FRAC	TURING	AND/OR	STIMULAT]	ING, OR P	HYSIJAI	. CHANGE	Stat	e County	Permit
TYPE: Oi	1 /	Gas	X/	Liqui	ld Inject	ion	_/ Waste	e Dispo	sal/			
(1	f "Gas"	, Prod	uction_	X/	Underg	round sto	orage	_/ De	eep/	Shallow <u>X</u>	/)	
ATION: El	evation	: :	371!	*	Watersh	ed: <u>Cov</u> e	: Creek					
Di	strict:		Cove		County:		dge	Quadi	rangle: V	adis		
L OPERATOR	Pale	o, In	C.	a Ruil	ding		aathnica Addre		Troy,	WV		
Address	3022 — Okla	N.W.	Expres	sway OK 731	112		naare		Troy,			
:TTED WORK	: Dril	1 <u> </u>	_/ Cony	vert	_/ Dri	ll deepe	r/	Redril	2/ Pa	acture or	· stimulat	e
	Plug	off	old for	mation_	/	Perforat	e new for	rmation				
	Oth	er phy	sical c	hange i	n well ((specify)		•				
RMIT ISSUED	ON	Octo	per 12		19_79_				CTOR FOR TH			
D ADDITCART	F. PLI	IGGING	OF DRY	HOLE O	N				Paul Gar			
CONTINUO REWORKIN	US PROG IG. VEF	RESSIC	N FROM ERMISSI	DRILLI ATBO NC	INED		Addı		Clarksbu			
			, 19						622-3871			
OLOGICAL TA	RGET FO	RMATI	ON:	Devon	ian Shal	e			Depth	<u> </u>	166-	
Depth of	comple	eted w	ell,	5240	feet	Rot	ary_X	/ Cat	ole Tools _			•
Water st	rata de	epth:	Fresh,	96	_feet;	salt,	fe	et.				
Coal sea	am dept	ns:	None		I:	s coal be	eing mine	d in th	ne area?	<u> </u>	3.970	
Work was	s comme	nced _	_Octob	er 12		19 <u>79</u> ,	and comp	leted _	October	18	_, 17/9	-
SING AND T			FICATIO	2นก	4	FOOTAGE	INTERVAL	s (EMENT FILL	_UP	PACKER	2
SING OR JBING TYPE					ti			N	OR SACKS (Cubic fee	t)		
onductor					Accessed by the second			4		Kinds	;	
resh water	0 = /	2			and the second s	1156	115	6	To surfac	:e		
oal	0.37					•				Sizes	3	
ntermediate					Anguedonistana. Annual Sympletistana.							
roduction	41/2						5167	7	635 sks	Dept1	hs set	
ubing								9700				
iners							1	الزاخات	וווקעי		orations:	
							115	2000	U CI		Top	Bottom
				1			413		7U/0			
		and					NC .)V 2 9	13/3			
	a cra a						O!! !	e CAS!	ווריביעונ			
PEN FLOW DA	41A	matian	E1	k & Be	nson		DFP	α σας ι [<u> </u>	MINE	epth	5113	feet
rroduc	ing ior	4 4 4 5 3	open fl	OW.		Mcf/d	011: I	nitial	open flow		Bb1/d	
i.	no. Ith	nal ^-	en flor	·	380	Mcf/d)	F	Final o	pen flow,		Bbl/d	
	P.L	mar. Of	en of or	en No	w betwee	n initia	l and fir	nal tes	ts, <u>4</u>	nours		
	· · · · · ·	AV.	essure	17	700 psin	s (surfac	e measure	ement)	after <u>48</u>	hours s	hut in	
					ompletic		، سد د			*		
									Fay zone	Jepth		
Second	produc	ing I	onen e			Mcf/d	011:	 Initial	open flow			
G	as: In	inclai	open i	 w		Mcf/d		Final :	ren flow,		Bb1/d	
•	F:								its,			
	Static	rock p	ressure	,		g (surfa	ce measur	amer '	in the same of the	hours s	, <u>h</u>	
		•										

ORM IV-35 Reverse) 08-78]

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

Fractured November 5, 1979

Elk & Benson - 50,000 lb. 20/40 sand 30,000 lb. 80/100 sand 766 bbls water

Injection rate - 37.3 BPM at 1874 lb.

1950 lb. breakdown

Perforations - 4741 - 5113, 14 holes

ELL LOG

			4 7 7		
FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and cas
			0	10	
Clay		en e	10	91	
Slate			91	96	Water
Sand			96	900	
Shale			900	1038	
Sandy Shale			1038	1110	
Sand			1110	1420	
Shale		acceptance of the control of the con	1420	1480	
Sand			1480	1810	
Shale		to a constant of the constant	-1810	1840	
Lime			1840	1852	Show of gas
Sand			1852	1864	Dilow of gas
Slate			ų	1984	
Lime			1864	2000	Show of gas
Sandy Lime			1984	2006	Show of gas
Lime			2000	1	
Shale .			2006	2090 2200	
Sandy Shale			2090	4	Control of the Contro
Shale		500 C	2200	2410	Show of soc
Sand			2410	2420	Show of gas
Shale			2420	2496	
Sand		9 9	2496	2510	
Shale			2510	2822	
Sand			2822	2838	Show of gas
Shale			2838	4736	
Sandy Shale BENSON			- 4736	4747	Show of gas
Shale		Accessed to	4747	4970	
Sandy Shale ALEX.			4970	5120	Show of gas
Shale			5120	5240	
Total Depth		:	5240		
				ndgh-sedie	
,			No.		

(Attach separate sheets to complete as necessary:

Paleo, Inc. Well Operator

Ву

Its agent

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall near a systematic, detailed geologial record of all formations, including scal, encountered in the drilling of a well."

FORM IV-2 STATE OF WEST VIRGINI	A Date: October 11 , 19 7
(Obverse) COP DEPARTMENT OF MINES, OIL AND G	Operator's
OIL AND GAS WELL PERMIT APP	Well No. Lowther #1
WELL TYPE: Oil/ Gas _X_/	API Well No. 47 - 017 - 2504 State County Permi
(If "Gas", Production χ / Underground storage	e / Deen / Shallow X /)
LOCATION: Elevation: 871' Watershed: Cove C	
	Quadrangle: Vadis
MELL OPERATION	
Contract Con	NATED AGENT Terry Bonnett
Address Suite 205, May-Ex Building 3022 N.W. Expressway Oklahoma City, OK 73112	Address Troy, WV
ORIGINAL OLO, OR TOTAL	
OIL & GAS ROYALTY OWNER Lewis C. Lowther, et ux COAL (OPERATOR None
	Address
Acreage 105 COAL C	DWNER(S) WITH DECLARATION ON RECORD:
	None
	Address
Acreage Name _	None
FIELD SALE (IF MADE) TO:	Address
Name N/A	
Address COAI, I	ESSEE WITH DECLARWITCH CONTRICTED;
Name _	None
OIL & GAS INSPECTOR TO BE NOTIFIED	Address 007 2 1979
Name Paul Garrett	
Address Clarksburg, WV 26301	OIL & GAS DIVISION
622-3871	DEET. OF MINES
The undersigned well operator is entitled to operat	e for oil or gas purposes at the above
location under a deed/ lease χ _/ other contract	/ dated, 1978, to the
undersigned well operator from <u>Lewis & Marie Lowther</u>	
[If said deed, lease, or other contract has been recorded:]	
Recorded on <u>October 19</u> , 19 <u>78</u> , in the office of the Cl	
County, West Virginia, in Lease Book 105 at page	
PROPOSED WORK: Drill X / Drill deeper / Redrill	The state of the s
Plug off old formation / Perforate	
Other physical change in well (specify)	
planned as shown on the work order on	the reverse side beneat
The above named coal operator, coal owner(s), and c	
objection they wish to make or are required to make by Code §	
of Mines within fifteen (15) days after the receipt of this A	
Copies of this Permit Application and the enclosed	
by registered mail or delivered by hand to the above named co	
on or before the day of the mailing or delivery of this Permi	
Charleston, West Virginia.	
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	
WEST VIRGINIA OIL AND GAS Pal	eo, Inc. Well Operator
CONSERVATION COMMISSION - 1635 WASHINGTON OTHEET EAST	
CHARLESTON, NV 25311 BAKET BOND	rank R. Work
TELEPHONE: (344) (448-3092)	

PROPOSED WORK ORDER



THIS IS AN ESTIMATE ONLY: $_{\rm f}$ ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING COM	NTRACTO	R (IF	KNOWN)		J	Union Drilli	ng, Inc.			
				Addres		Orawer 40 Buckhannon,				·
Approxi	ed dep	th of ater s	complet	ed well	l, Fr	5200 esh, 140	Seet; salt	Rotary X / feet.		
CASING AND T	UBING	PROGRA	M .							
CASING OR TUBING TYPE	Size	9	IFICATI Weight per ft	1	Jsed		INTERVALS	CEMENT FILL-UP OR SACKS		CKERS
Conductor	Company of the compan						'		Kinds	A.
Fresh water	8 5/8					1150	1150	To surface		disc a co
Coal								And the state of t	Sizes	
Intermediate		:								
Production	4 ¹ / ₂						5200	160 sks	Depths set	
Tubing										· , »
Liners									Perforation	ns:
				-					Top	Botton:
-				-						ist
applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well. A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing any stimulating Ad tollow part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith. All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved of the W. Va. Code, the location is hereby approved on the code of the work for water and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit										
is	to be	issued	d withi	n fifte	een	(15) days of	receipt ther	reof:		
location has well locatio the work pro	examin n, the posed t	med this well is to be o	ls prop locatio done at	osed we n has b this l	ell een locat	location. If added to the tion, provide	a mine map mine map.	ee / of the exists which country the undersigned operator has cong regulations.	ers the area	a of the ction to
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C. C. ;			, 19							
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