

South (302)

STATE OF WEST VINGINIA DEPARTMENT OF MINES

# Oil and Gas Division

### WELL RECORD

Quadrangle Headsville

### OIL & GAS DIVISION DEPT. OF MINES

Rotaty	011
Cable X	Gas DRY HOLE
Recycling	Comb
Water Flood	Storage
Disposal	(Kind)

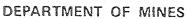
Company UPLAND RESOURCES, % Hunt Address 1700 Benedum-Trees Bldg., FarmCalvin & Viola Gillaspie A Location (waters) Patterson Creek	lev & Huntle			Disposal	(Kind)
Location (waters) Patterson Creek	NOTES ALA	ey, Inc., and Parising and Parising	Used in Drilling	Leit	Cement fill up Cu. ft. (Sks.)
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Well No.	lev 917.6	20-16	populari e manga		
District Cabin Run County Mi	neral	Cond.			
The surface of tract is owned in fee by Ca	lvin &	13-10"			
	ooronoonooloonooloona naastassassa aastannoossa sadaassakkaa valastastas	9 5/8			Cemented to
Address Rt. 1, Box 107, Burlingt	8 5/8	400	400'	Surface	
Mineral rights are owned by Same	26710	7			
Address		5 1/2	helper derries destructions de de la company au particular	The second secon	
Drilling Commenced 8/2/79		4 1/2	Transmission of the same accounts of the		
Drilling Completed 9/16/79			emblemblere union - day upo par par upo upo -		
Initial open flow 0 cu. ft.		7	ł	1 1	
Final production or ft. per day _	O lubis	Liners Used		1	
Well open	0 64	The second secon			
Well treatment details:  Not treated - Shut in.		Attach copy of a			
Fresh water 165'; 463-71'; 855-60' Fe Producing Sand ORISKANY  Formation Color Hard or Soft	COST CONTRACTOR CONTRA	Salt V Depth Bottom Feet	/ater	0981	Feet
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Brallier Harrell Mahantango Marcellus	1005° 1050° 1590°	1050° 1590° 1812'	Water		tanissi titaannistanin distanin ankittanoinistanin on eelitaansi titaanista oo
Brallier Harrell Mahantango Marcellus Tioga Metabentonite	1005° 1050° 1590° 1812°	1050' 1590' 1812' 1824'	Water	@ 463'-47	tanissi titaannistanin distanin ankittanoinistanin on eelitaansi titaanista oo
Brallier Harrell Mahantango Marcellus Tioga Metabentonite Onondaga Limestone	1005° 1050° 1590° 1812° 1824°	1050' 1590' 1812' 1824' 1832'	Water	@ 463'-47	tanissi titaannistanin distanin ankittanoinistanin on eelitaansi titaanista oo
Brallier Harrell Mahantango Marcellus Tioga Metabentonite Onondaga Limestone Needmore Shale	1005° 1050° 1590° 1812° 1824° 1832°	1050' 1590' 1812' 1824' 1832' 1942'	Water Water	@ 463'-47 @ 855'-86	T. 3
Brallier Harrell Mahantango Marcellus Tioga Metabentonite Onondaga Limestone	1005° 1050° 1590° 1812° 1824°	1050' 1590' 1812' 1824' 1832'	Water	@ 463'-47 @ 855'-86	T. 3
Brallier Harrell Mahantango Marcellus Tioga Metabentonite Onondaga Limestone Needmore Shale Oriskany Sand Helderberg Limestone	1005° 1050° 1590° 1812° 1824° 1832° 1942°	1050' 1590' 1812' 1824' 1832' 1942' 2098'	Water Water	@ 463'-47 @ 855'-86	T. 3
Brallier Harrell Mahantango Marcellus Tioga Metabentonite Onondaga Limestone Needmore Shale Oriskany Sand	1005° 1050° 1590° 1812° 1824° 1832° 1942°	1050' 1590' 1812' 1824' 1832' 1942'	Water Water	@ 463'-47 @ 855'-86	T. 8
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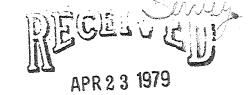
(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.









OIL & GAS DIVISION DEPT. OF MINES

\_PERMIT NUMBER

### Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

mo with oppinmental on laying			
TO THE DEPARTMENT OF MINES,  Charleston, W. Va.		April 18, 1979	)
		Upland Resources	
Surface Owner Calvin E. & Viola E. Gill	~	Company c/o Huntley & Hun	ntley. Inc.
Address Rt. 1, Box 107, Burlington, W.V.		Address 1700Benedum-Trees I	
Mineral Owner Same as above		Farm C. & V. Gillaspie	Acres112
Address		Location (waters) Patterson (	Creek
Coal OwnerNo Coal	,	Well No1-	Elevation 917.6'
Address		District Cabin Run	CountyMineral
Coal Operator Not Applicable		Quadrangle Headsville	
Address		e and an great	
THIS PERMIT MUST BE POSTED AT THE WELL SI	TE		
All provisions being in accordance with Chapter 2 of the W. Va. Code, the location is hereby approve	ed	remon	
for <u>drilling</u> . This permit shall expire	if TO B	ECTOR E NOTIFIED Robert S. St	ewart
operations have not commenced by 2-4-80	- ADDR	ESS P. O. Box 345, Jane	e Lew, W.Va. 26378
Deputy Director - Fit & Gas Division	PHON	E 884-7782	
GENTLEMEN:			
The undersigned well operator is entitled to drill	upon the ab	ove named farm or tract of land for	w oil and man having foo
title thereto, (or as the case may be) under grant of Gillaspie, et ux made to Columbia Gas Tr	or lease dated	January 24, 19 75	b by Calvin E.
1975, in Mineral County, Book	195	Page699	
X NEW WELLDRILL DEEP			
OIL AND GAS WELL ORIGINALLY I			URE OR STIMULATE
The state of the s	DIVIDLED DE	FORE 30NE 3, 1969.	
The enclosed plat was prepared by a registered en have been notified as of the above date.	ngineer or li	eensed land surveyor and all coal	owners and/or operators
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received	hereby noti	lied that any objection they wish t with the Department of Mines with	o make, or are required in ten (10) days. *
Copies of this notice and the enclosed plat were mor coal owners at their above shown respective addresame day with the mailing or delivery of this copy to	ess	dav	before, or on the
	Very	truly yours,	
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sin	n Name) / Mucy Ban Holl Well Operator	342115
GEOFRISICAL LOGS DIRECTLY 10:	(218)	Well Operator	Vice President
. · · · · ·		1700 Benedum-Trees	
, OIL & GAS CONSERVATION COMMISSION	Address	Street	
washington street, east $_{ m p}$	of Vell Operator	Pittsburgh	
LESTON, WEST VIRGINIA 25311	> posavot	City or Town	
		Pennsylvania 1522	.2
		State	
		•	
*SECTION 3 If no objections are filed or found notice and plat by the department of mines, to said proposed the filing of such plat, that no objections have been made by t and the well operator authorized to proceed.	location, the d	epartment shall forthwith issue to the we	Il operator a permit reciting
The first that the second section is the second in the first		47~057~0024	

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

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

PROPOSED WORK ORDER TO	X DRILL	DEEPENF	RACTURE-STIMULATE		
DRILLING CONTRACTOR: (If Talkington-Brady,	Known)	RESPONSIBLE AGENT:  NAME Troy A. Brady, Jr.  ADDRESS P.O. Box 371, Buckhannon, W.Va. 2620  TELEPHONE (304) 472-4677			
ADDRESS P.O. Box 371, Buc					
TELEPHONE (304) 472-4677					
	2 9001		37		
ESTIMATED DEPTH OF COMPL	Orighany	ROTARY	CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MALION.				
TYPE OF WELL: OIL_			DISPOSAL		
	RECYCLIN	G WATER FLO	ODOTHER		
TENTATIVE CASING PROGRAM	1 <u>.</u>				
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP		
S!ZE	DRILLING	WELL	OR SACKS - CUBIC FT.		
20 - 16		erritoristikalistaja artikatura telektristikalistakistakistajak ya kilor dapar kranjalakis takingang ta sajakay is a a agas aga			
9 - 5/8					
8 - 5/8	3501	350 *	Cement to Surface		
7					
5 ½	entration due se their de détainment de la comment de se de la comment de la comment de la comment de la comme				
4 1/2	2,500'	2,500'	Cement thru Onondaga		
3			Perf. Top		
2			Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
	100 0 200				
APPROXIMATE FRESH WATER	$N \sim \infty$	SALT WATER	FEET		
APPROXIMATE COAL DEPTHS			*		
IS COAL BEING MINED IN THE	E AREA? No	BY WHOM?			
TO DRILL:					
SUBMIT FIVE (5) COPIES	OF OG - 1. \$100.00 PERMIT	FEE PERFORMANCE R	OND AND PERMANENT COPY		
OF PLAT.	1, 4200.04 123.01.11		SHE AND TELLIAMENT COLL		
TO DRILL DEEPER OR REDRIL	T.•				
		AN DEDMIN WINGED AN	D PERFORMANCE BOND. ON		
WELLS DRILLED PRIOR T	O 1929, A PERMANENT CO	PY OF THE PLAT AND T	HE ORIGINAL WELL RECORD		
MUST ALSO BE SUBMITTE	D.				
TO FRACTURE - STIMULATE:					
	PIGINALLY DRILLED REFOR	PHINDS 1000 PIVE (E)	COPIES OG - 1, PERFORMANCE		
BOND, PERMANENT PLAT	AND ORIGINAL WELL RECO	ORD.	COFIES OG - 1, PERFORMANCE		
			9, FIVE COPIES OG - 1, SHOW-		
ING ORIGINAL PERMIT NU	MBER, AND PERFORMANCE	BOND.	, , , , , , , , , , , , , , , , , , , ,		
Required forms must be filed	within ninety (90) days of co	ampletion for hand release	Inspector to be notified twenty-		
four (24) hours in advance.	the state of the s	impleviou to bond release.	mapector to be notified twenty-		
		or .	-		
The following waiver must b	e completed by the coal oper	ator if the permit is to be	issued within ten days of receipt		
thereof.			•		
WAIVER: I the undersigned, Age	nt for	Coal Company, Owner	or Operator of the coal under		
	ed and place on our mine ma				
We the	Coal Company h	ave no objections to said w	ell being drilled at this location,		
			7, Chapter 22 of the West Virginia		
Code.					
			Mary and the second sec		
		17	or Coal Company		
		£.(	or Coar Company		
			Official Title		

οł

Signed by .



#### DEPARTMENT OF MINES

# Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE August 26, 1981
Surface Owner Calvin & Viola Gillaspie	Company Upland Resources, c/o Westvaco
Address Rt. 1, Box 107, Burlington, WV	Address 299 Park Ave., NY, NY 10017
fineral Owner Same as above	
ddraw	Farm Gillaspie Acres 112
Owner N/A	Location (waters) Patterson Creek  Well No. 1 918
peratoe N/A	La Contraction of the Contractio
	- Quadrangle
	TOTAL CONTROL OF THE PROPERTY
MUST BE POSTED AT THE WELL SITE	
being in accordance with Chapter 22,	
Va. Code, the location is hereby approved	INSPECTOR
ing. This permit shall expire if	TO BE NOTIFIED Robert Stewart
ve not commenced by 5-10-82	ADDRESS P.O. Box 345, Jane Lew, WV
Thurson	004 7702
Director - Oika Bas Division	PHONE 884-7782
IMEN:	
thouse for so the second to	n the above named farm or tract of land for oil and gas, having fe
	ase dated On File 19 by
made to	and recorded on the day of
in County, Book	Page
NEW WELL DRILL DEEPER	Page
NEW WELLDRILL DEEPER	Page REDRILL XXX FRACTURE OR STIMULATE
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRI	PageREDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRII	Page REDRILL XXX FRACTURE OR STIMULATE
NEW WELLDRILL DEEPEROIL AND GAS WELL ORIGINALLY DRING nclosed plat was prepared by a registered engine notified as of the above date.	Page
NEW WELL	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators
NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRI e enclosed plat was prepared by a registered engin been notified as of the above date. e above named coal owners and/or operator are her take by Section 3 of the Code, must be received by, pies of this notice and the enclosed plat were maile	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
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NEW WELL	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.  Upland Resources  Very truly yours, Geological Consultants, Agent  (Sign Name)  West Operator  City or Town  G 2 8 1981  State  State  Charleston of ten days from the receipt of the Department of mines, within said period of ten days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the days from the days from the receipt of the days from the receipt of the days from the receipt of the days from the days from the receipt of the days from t
NEW WELL	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.  Upl/and Resources  Very truly yours, Geological donsultants, Agent  (Sign Name)  West Operator  City or Town  G 2 8 1981  State
OIL AND GAS WELL ORIGINALLY DRIVERS of the shower and the enclosed plat was prepared by a registered enginer notified as of the above date.  above named coal owners and/or operator are here by Section 3 of the Code, must be received by, as of this notice and the enclosed plat were mailed owners at their above shown respective address by with the mailing or delivery of this copy to the E SUBMIT COPIES OF ALL SICAL LOGS DIRECTLY TO:  OF OIL AND GAS  Ashington Street, East eston, West Virginia Code 304 -348-3092 348-3096  ECTION 3 If no objections are filed or found by the department of mines, to said proposed locations of such plat, that no objections have been made by the content of such plat, that no objections have been made by the content of the content o	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators day before, or on the Department of Mines at Charleston, West Virginia.  Very truly yours, Geological Consultants, Agent (Sign Name)  West Operator  City or Town  G 2 8 1981  State  City or Town  G 2 8 1981  State  State  State  City or Town the receipt of the Department of mines, within said period of ten days from the receipt of the 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 fail operators or found thereto by the department and that the same is approved.
OIL AND GAS WELL ORIGINALLY DRIVERS OF ALL LOGS DIRECTLY TO:  OF OIL AND GAS Shington Street, East ton, West Virginia de 304 -348-3092  TION 3 If no objections are filed or found by plat by the department of mines, to said proposed locar f such plat, that no objections have been made by the control of	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators  eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.  Upland Resources  Very truly yours, Geological Consultants, Agent  (Sign Name)  West Operator  City or Town  G 2 8 1981  State  State  Charleston of ten days from the receipt of the Department of mines, within said period of ten days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the department shall forthwish interest the life of the days from the receipt of the days from the days from the receipt of the days from the receipt of the days from the receipt of the days from the days from the receipt of the days from t
NEW WELL	REDRILL XXX FRACTURE OR STIMULATE LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators reby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators day before, or on the Upland Resources Upland Resources Upland Resources (Sign Name)  West Operator  City or Town  G 2 8 1981  City or Town  Appartment of mines, within said period of ten days from the receipt of the Department shall forthwith issue to the well operator a permit reciting said operators or found thereto by the department and that the same is approved.  47-057-0024 - Frac  PERMIT NUMBER
NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRIP the enclosed plat was prepared by a registered engin been notified as of the above date. The above named coal owners and/or operator are her take by Section 3 of the Code, must be received by, topies of this notice and the enclosed plat were maile total owners at their above shown respective address day with the mailing or delivery of this copy to the TASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:  CE OF OIL AND GAS Washington Street, East leston, West Virginia Code 304 -348-3092 348-3096  AU  *SECTION 3 If no objections are filed or found by and plat by the department of mines, to said proposed local ing of such plat, that no objections have been made by the or the well operator authorized to proceed.	REDRILL XXX FRACTURE OR STIMULATE  LLED BEFORE JUNE 5, 1969.  eer or licensed land surveyor and all coal owners and/or operators or filed with the Department of Mines within ten (10) days. *  d by registered mail, or delivered to the above named coal operators of Department of Mines at Carleston, West Virgina.  Very truly yours. Geological Consultants, Agent (Sign Name)  West Operator  City or Town  G 2 8 1981  State  City or Town  City or Town  City or Town  Character of mines, within said period of ten days from the receipt of the 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 all operators or found thereto by the department and that the same is approvent of the coal operators or found thereto by the department and that the same is approvent for the coal operators or found thereto by the department and that the same is approvent.

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

PROPOSED WORK ORDER TO _	DRILL	DEEPENXXX I	FRACTURE-STIMULATE
DRILLING CONTRACTOR: (If K	(nown)	RESPONSIBLE AGENT	<b>:</b> :
NAME		NAME	
ADDRESS		ADDRESS	
TELEPHONE		TELEPHONE	
ESTIMATED DEPTH OF COMPLE	TED WELL	ROTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORMA	ATION:		
TYPE OF WELL: OIL	GAS XXX CO	MB. STORAG	E DISPOSAL
	RECYCLIN	GWATER FL	OOD OTHER
TENTATIVE CASING PROGRAM:			and the second s
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL OP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8		· ·	
8 - 5/8	4001	_400'	Cement to Surface
7			
5 ½		2090'	209 SK8
4 ½	The state of the s	2090	Perf. Top
2		- /	Perf. Bottom
Liners			Perf. Top 28 C 1886 1886 1886
			Pert. Bottom
OF PLAT.  TO DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED  TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	F OG - 1, SHOWING ORIGIN D 1929, A PERMANENT CO D. IGINALLY DRILLED BEFOR AND ORIGINAL WELL REC IGINALLY DRILLED ON AN IBER, AND PERFORMANCE	NAL PERMIT NUMBER A PY OF THE PLAT AND EF JUNE 5, 1929, FIVE (5 ORD. D/OR AFTER JUNE 5, 19 BOND.	BOND AND PERMANENT COPY  AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  29, FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty-
_			
The following waiver must be thereof.	e completed by the coal oper	rator if the permit is to be	e issued within len days of receipt
	e Com	Cool Comment	on on Onemics of the
WAIVER: I the undersigned, Agen			-
	d and place on our mine ma	The second secon	
			well being drilled at this location, d 7, Chapter 22 of the West Virginia
		· ·	
			For Coal Company

Orficial Title



IV-35 (Rev 8-81)

# RECEIVE State of Mest Wirginia

Bepartment of Mines Gil und Gas Bivision

rave	<u> </u>	:cope	r 9,	198	
Opera	ator	's			
Well	No.	7			
Farm	Gil	lasp	ie		
API N	ю.	47 -	057	(MED)	0024

OCT 1 3 1981

OIL AND GAS DIVISION
WY DEPARTMENT OF MINES
WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE:	Oil/ ( (If "Gas,"	$as_X$ / L Production	iquid Injec n <u>X</u> /Under	ction rgrow	n/ Was und Stora	te Disposa ge / Dee	l/ p / Sha	allow X/N
LOCATION:	Elevation:_						-	
	District: C						e <u>Heads</u>	ville
COMPANY Up	land Resource	s %Westvac	0					
ADDRESS 29	9 Park Ave., 1	N.Y.,N.Y.	10017	-	Ta:		_	Cement
DESIGNATED	AGENT T. Bra	ady		<b>380</b>	Casing	Used in		fill up
	0. 1016, Keyse			-	Tubing Size	Drilling	in Well	Cu. ft.
SURFACE OW	NER Calvin & \	/iola Gilla	aspie	-	20-16			
	. 1. Box 107.			- <i>7</i> 10	Cond.			
MINERAL RI	GHIS OWNER S	Same as abo	ove		13-10"			
ADDRESS				•	9 5/8	400		
	S INSPECTOR F			_	8 5/8	400	400	surface
R. Stewart	ADDRESS J	ane Lew, W	I.Va.		7			
PERMIT ISS	UED			•	5 1/2			
DRILLING CO	DMMENCED 8/2/	79			4 1/2		2100	900'
DRILLING CO	OMPLETED 9/16	/79			3			
IF APPLICATIONS	BLE: PLUGGING	G OF DRY H	OLE ON		2			
REWORKING.	PROGRESSION I VERBAL PERM	ROM DRILL ISSION OBT	ING OR AINED		Liners useđ			
GEOLOGICAL	TARGET FORMAL	CION Ori	skany Sands	: tone		Pont	h 1942	feet
Depth	of completed	well 2124	feet	t Ro	otarv	/ Cable	Tools X	***************************************
Water	strata depth:	Fresh	165, 463 855 feet		Salt	/ cable feet	10012 V	^^
	seam depths:						in the	area?
OPEN FLOW D								a
	ing formation	Marcellus	E & Noodman	in Chi	ala Desa			
Gas:	Initial open	flow 0	Mof /	<u>د عاا</u> ا	<u>die</u> Pdy Nile Toid	zone dept	1 1348-18	80 feet
	Final open fl	ow 15	Mcf/d	 I	Fin:	lar open :	TOM 0	Bbl/d
	Time of	open flow	between in	itia	l and fir	r open m	<b>W</b> 0	Bbl/d
Static	rock pressur	e	psig(surf	300	measureme	nt) after	nou	rs
(If ap	plicable due	to multipl	le completi			arc, arcer	nour	s sout in
	producing fo					zone dentk		En
Gas:	Initial open	flow	Mcf/d	0	il: Init	ial open f	:	feet
:	Final open fl	OW	Mcf/d	. 0	il: Fina	l open flo		Bbl/d Bbl/d
	Time of	open flow	between in	itia	l and fin	al tests	hon	
Static	rock pressur		psig(surfa	ce m	easuremen	t) after	hair	s chut in
						***************************************	es entre Verbelle &	ققيل ساهيده سب

FORM IV-35 (REVERSE)

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

Bridge Plug at 1893'

1384-1482, 20 shots; 1st stage Perforated at:

1593-1727, 20 shots; 2nd stage 1780-1880, 20 shots; 3rd stage Fractured first stage with a 5% acid foam frac of 180 bbls. of top hole

fluid and 300 sacks of 20/40 sand.

Fractured second stage with a 5% acid foam frac of 180 bbls. of top hole

fluid and 300 sacks of 20/40 sand. Fractured third stage with a 5% acid foam frac of 180 bbls. of top hole fluid and 300 sacks of 20/40 sand.

#### WELL LOG

FORMATION COL	OR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all frestand salt water, coal, oil and gas
Sandstone &	Shale	0	1410	
Marcellus Sh	ale	1410	1634	
Parcell Memb Marcellus Sh		1634	1736	
Lower Marcel	lus Shale	1736	1804	
Tioga Benton	ite	1804	1818	
Needmore Sha	le	1818	1942	
Oriskany San	dstone	1942	2098	
Shriver Cher	t	2098	2124	
T.D.		2124		
			*CCT:	
			SPACE AND ADDRESS OF THE PROPERTY OF THE PROPE	

(Attach separate sheets as necessary)

Upland Resources Well/Operator Agent A Energy Omega, Inc. October 9, 1981 Date:

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 coul, encountered in the drilling of a well."