

IV-35 (Rev 8-81)

State of Mest Birginia

Bepartment of Mines Gil und Gas Bivision

Date	September 14, 1983
Operat	or's 12 A AME
Well N	No. (AI) ORO. I MEA
Farm_	V.M. Boggess
APT N	0. 47 - 035 - 1783

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 660 Watershed	Big Lick	Run	A AMERICA	
District: Ravenswood County Jacks	on	Quadrangle		
10 168 1" SIRGAM AT 40"			HALE	SAND & S
DELLING CO. N. F. PROD				SHALE
OMPANY DELTA DRILLING CO., N.E. PROD.  200 Fleet Street - Suite 4005  ADDRESS Pittsburgh, PA. 15220	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT John O. Kizer	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box #951, Charleston, W.VA. 25323 SURFACE OWNER Stephen L. Utt	Size 20-16 Cond.		PALE ROCK	SAND &
ADDRESS 731 Clearview Hts., Charleston, W. VA.	13-10"		195'	190'
MINERAL RIGHTS OWNER Virginia M. Boggess 25312	9 5/8		EBRE	A CIVAD
ADDRESS 684 Hunter ST., Logan, Ohio 43138	8 5/8		2187'	2150'
OIL AND GAS INSPECTOR FOR THIS WORKHOMER Doughe	rLy 7			SAND
Box #3A ADDRESS Looneyville, W. VA. 25259	5 1/2		3 1413	DEAD A CHAR
PERMIT ISSUED December 1, 1982	4 1/2		5012'	2500'
DRILLING COMMENCED 12/20/82	3			MAR
DRILLING COMPLETED 12/28/82	2		S.IAR	SAND SIS
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners		V	BIG LIB SHATE SAND
GEOLOGICAL TARGET FORMATION Brown Shall				90 fee
Depth of completed well 5027 feet	Rotary_	X / Cab	le Tools_	MANUAL TANKS
Water strata denth: Fresh 250 feet;	Salt	iee		
Coal seam depths:	Is coa	l being min	ned in th	e area? no
OPEN FLOW DATA  Producing formation Brown Shale	P	ay zone de	pth 490	00 fee
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	n flow_	Bb1/
Final open flow 335 Mcf/d	F	inal open	flow	Bb1/
Time of open flow between init	tial and	final test	sh	nours
Static rock pressure 1125 psig(surface	ce measur	rement) aft	er 72 ho	ours shut i
(If applicable due to multiple completion	n)	one de	orth	fee
Second producing formation	0:3-	Initial one	n flow	Bbl
Gas: Initial open flow Mcf/d  Final open flow Mcf/d	0:1:	Final open	flow	Bbl
Final open flowMcf/d  Time of open flow between ini	OII:	TIMI OPEN	Water Turning	No. You

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

PERFORATIONS	75 QUALITY FOAM	SAND	AVE. INJECTION RATE
4370 - 4980 (14)	32,000	40,000#	45 BBL./MIN.
2985 - 4177 (15)	32,000	40,000#	48 BBL./MIN.
(b) Dell SHIKEON			

## WELL LOG

ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all franching and salt water, coal, oil and
SUB	0	10	District: Ravens
SAND & SHALE	10 .	168	1" STREAM AT 40"
RED ROCK	168	180	
SHALE	180	190	
SAND	190	197	COMPANY DELITA DELITING CO., N.
SAND & SHALE	197	230	
	230	264	2" STREAM @ 250"
SAND S SHALE	264	280	SERVICE CONTROL OF THE PROPERTY OF THE PROPERT
SAND & SHALE	280	305	DESIGNATED AGENT John O. H
RED ROCK	305	545	a Francis District of the second
SAND & SHALE		625	ADDRESS P.O. Bex #951, Cherle
SHALE & RED ROCK	545		SURFACE OWNER Stephen L. L
SANDY SHALE	625	660	The second secon
RED ROCK	660	735	ADDRESS 731 Clearview Hts
SAND	735	810	a los los a litt etterat en descenarios esta
SAND & SHALE	810	840	MINERAL RIGHTS OWNER VIRGINIA
SAND	840	1030	ASSESSED 584 Hunter ST., Loyan
SAND & SHALE	1030	1150	CCLYCLY
SAND	1150	1285	OTL AND CHE DISPECTOR FOR TH
SAND	1285	1345	
SAND & SHALE	1345	1390	Box #3A ADDRESS Looney
SAND	1390	1440	PERMIT ISSUED December 1
SAND & SHALE	1440	1450	The second secon
SAND	1450	1530	DRIEFIENC CONTRINCED - [2/20/
SAND & SHALE	1530	1680	12/23/
WHITE SAND	1680	1770	DRILLING COMPLICIO
BIG LIME	1770	1884	THE PROPERTY OF THE PARTY
SHALE	1884	1907	MOOT MATERIAL STREET
BIG INJUN	1907	1957	TO DESCRIPTION OF THE PARTY OF
SHALE	1957	2110	REMINERAL VERGEL PERTENCE
SAND	2110	2126	MO
SHALE	2126	2325	2340
SAND Bene?	2325	2340	2340
SHALE	2340	5028 J.D.	2688
			0
	feet; Salt	1 025 Internal	26.88 Rhinestreet @ T.D.
000 0 5025 WTL	aI		
6 - 0 5025 . WT	) ET		Coal seam depths:

(Attach separate sheets as necessary)

DELTA DRILLING COMPANY, NORTHEAST PRODUCTION DIVISION

Well Operator

By: W.G. Darden, Production Div. Mgr

Date: September 14, 1983

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 of a well."

DRILLING CONTRACTOR:

NO.	WI	STV	III.
ES !	A STATE OF THE PARTY OF THE PAR	Sim	国
100	11		
Mag	12/11/25	MEN CITY	THE REAL PROPERTY.

1)	Date:	MBER 1		_, 19
2)	Operator's Well No.			-1 01
3)	API Well No.	47	095	1783
,		Cu	0	D

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

035-1783

					OIL A	IND GA	S WELL PERI	VIII A			
4) WELL T	ГҮРЕ:		Gas", Pro	duction _					age		_/ Shallow/)
5) LOCAT	ION:		on:	660 KNSVOO					IG LICK RU		TIVERPOOL 7 5
O WELL	DED A	ATOR					County:		Tarina de la companya del companya de la companya del companya de la companya de	Quadrangle: AGENT	O_ RIZER
Addr		On PLEE		SHIT				11)	Address	P. O. BOX 9	51
Addi	CSS	PITTSBU							Address	CHARLESTON,	W. VA. 25323
7) OIL & C		VIII	CTNTA	MAE P	LOGGE	SS. s	et. al.	10)	COAL OPERA	N/A	
		WNER	HINTE	R STRE	-30 gr			12)	COAL OPERAT	TOR	
Addr	ess	LOGA	M. OH	10 431	38				Address		
Acrea	age		9 AC.					13)	COAL OWNER	(S) WITH DECLAR	ATION ON RECORD:
SURFACE		VNER 53	CRPHEN	L. UI	nepi L. A.			10,		M/A	
Addr		731	CLEAR	AIEM H	RICH	TS			Address		
		CHARLE	ISTON.	W. VA	. 25	312					
Acrea	age		59	AC					Name		
) FIELD S	SALE	(IF MADE	) TO:						Address		
Addr	ess						A STATE LABOR.				
								14)	COAL LESSEE	WITH DECLARAT	ION ON RECORD:
O) OIL & C	GAS IN	NSPECTOR	R TO BE	NOTIFIE	D			10	Name	5/A	
Name _	ROM	ER H. I	OTHER	RTY					Address		
Addr	ess	TANDEN I	CT. BO	V. VA.	0.00	A PLAN			-		
5) PROPO	SED V						/ Rec			ture or stimulate	
								e new	formation		
				ysical char							
6) GEOLO	GICA	L TARGET	FORMA	TION, _	178	MARIE !	SCHELLE				
		depth of co									
					1,		feet;		t,		
19) App	proxim	ate coal sea	m depths:				Is	coal b	eing mined in the a	area? Yes	/ No
) CASINO	G AND	TUBING	PROGRA	AM							
CASING O	OR		SPE	CIFICATION	NS	1	FOOT	AGE II	NTERVALS	CEMENT FILL-UP	PACKERS
TUBING T	TYPE	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	OR SACKS (Cubic feet)	
Conductor		12 3/4	Grade	per it.	1.0	0.00	20 77	-		(	
						1					Kinds
Fresh water		11 3/4					200 FT		20 FT 200 FT	To Surface	Kinds
Fresh water		11 3/4					200 FT		20 FT 200 FT	To Surface	
Coal		11 3/4 8 5/8					200 FT		20 FT 200 FT 2385 FT	To Surface	Kinds
Coal Intermediate		8 5/8 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface	Sizes
Coal Intermediate Production		8 5/8 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SRS	
Coal Intermediate Production Tubing		8 5/0 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SKS	Sizes  Depths set
Coal Intermediate Production		3 /8 11 3/4 8 5/8 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SKS	Depths set Perforations:
Coal Intermediate Production Tubing		8 5/8 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SKS	Depths set  Perforations:
Coal Intermediate Production Tubing		3 7/8 3 3/4 8 5/8 4 1/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SRS	Depths set  Perforations:
Coal Intermediate Production Tubing Liners	CTION	3 5/3 4 3/2					200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SRS	Depths set  Perforations:
Coal Intermediate Production Tubing Liners			the follo	wing:			200 FT 2385 FT 4990 FT		20 FT 200 FT 2385 FT 4990 FT	To Surface To Surface 900 SKS	Depths set  Perforations:
Coal Intermediate Production Tubing Liners  1) EXTRAC Check an	nd pro	vide one of			contin	uing cor	2335 FT 4990 FT	cts by	200 FT 200 FT 2385 FT 4990 FT	right to extract oil of	Depths set  Perforations:  Top Bottom
Intermediate Production Tubing Liners  1) EXTRAC Check an	nd proncluded	vide one of I is the lease	e or lease	s or other			2395 PT 4990 PT tract or contractor contract			right to extract oil or	Depths set  Perforations:  Top Bottom
Intermediate Production Tubing Liners  1) EXTRAG Check ar	nd proncluded he requ	vide one of l is the lease uirement of OVISIONS	e or lease f Code 22- S	es or other -4-1-(c) (1)	) throu	gh (4).	(See reverse side	e for s	specifics.)		Depths set  Perforations:  Top Bottom
Intermediate Production Tubing Liners  Liners  Check an Intermediate The check an Intermediate T	nd proncluded he requestry PR	vide one of l is the lease uirement of COVISIONS xtract, prod	e or lease f Code 22 S duce or ma	es or other -4-1-(c) (1) arket the o	) throu	gh (4).	(See reverse side	e for s	specifics.)	ct or contracts providi	Depths set  Perforations:  Top Bottom  r gas.
Intermediate Production Tubing Liners  1) EXTRA Check at Check at Intermediate Inte	nd production of the requestry PR with to expression of the provision of t	vide one of l is the lease airement of COVISIONS extract, product on for comp	e or lease f Code 22- S duce or ma pensation	es or other -4-1-(c) (1) arket the o	) throu	gh (4).	(See reverse side	e for s	specifics.)	ct or contracts providi	Depths set  Perforations:  Top Bottom
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners	nd producted he requestry PR to expression of the control of the c	vide one of l is the lease airement of COVISIONS extract, product on for comparketed?	e or lease.  F Code 22-  S  duce or material pensation  Yes	es or other -4-1-(c) (1) arket the or to the ow No	) throu oil or ga wner of	gh (4). as based the oil	(See reverse side upon a lease or or or gas in place	other of which	specifics.) continuing contractions is not inherently	ct or contracts providi related to the volun	Depths set  Perforations:  Top Bottom  r gas.
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners	nd pro- ncluded he request TY PR tht to exprovision d or ma above	vide one of l is the lease uirement of OVISIONS extract, product on for comparketed?	e or lease.  F Code 22-  S  duce or material pensation  Yes  hing additional	arket the or No tional is n	) throu oil or ga wner of	gh (4). as based the oil	(See reverse side upon a lease or or or gas in place	other of which	specifics.)	ct or contracts providi related to the volun	Depths set  Perforations:  Top Bottom  r gas.
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners  1) EXTRAG Check an Intermediate Intermed	nd pro- ncluded he requ TY PR tht to e provision d or ma above d Copie of this	vide one of I is the lease uirement of COVISIONS xtract, prod on for comparketed? is No, not es (See reve Permit App	e or leases  Code 22-  S  duce or ma  pensation  Yes   hing additerse side.)  plication a	arket the or to the ow No tional is n	oil or ga wner of needed.	gh (4).  s based the oil  If the an old plat and	(See reverse side upon a lease or corgas in place uswer is Yes, you	other of which ou ma	continuing contract is not inherently y use Affidavit Fo	ct or contracts providing related to the volunt orm IV-60.  The registered mail or description or the registered mail or description or the registered mail or description	Perforations:  Top Bottom  r gas.  ng for flat well royalty or an e of oil or gas so extracte
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners  1) EXTRAG Check an Intermediate Intermed	nd pro- ncluded he request TY PR tht to e provision d or ma above d Copie of this coal op	vide one of I is the lease uirement of COVISIONS extract, prod on for comparketed? is No, not es (See reve Permit App verator, coa	e or lease.  f Code 22-  S  duce or ma pensation Yes  hing additerse side.) plication a al owner(s)	arket the or to the ow No tional is n and the en	oil or ga wner of needed.	gh (4).  s based the oil  If the an old plat and	(See reverse side upon a lease or corgas in place uswer is Yes, you	other of which ou ma	continuing contract is not inherently y use Affidavit Fo	ct or contracts providing related to the volunt orm IV-60.  The registered mail or description or the registered mail or description or the registered mail or description	Perforations:  Top Bottom  r gas.  ng for flat well royalty or an e of oil or gas so extracte
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners  1) EXTRAG Check an Intermediate Intermed	nd pro- ncluded he request TY PR tht to e provision d or ma above d Copie of this coal op	vide one of I is the lease uirement of COVISIONS xtract, prod on for comparketed? is No, not es (See reve Permit App	e or lease.  f Code 22-  S  duce or ma pensation Yes  hing additerse side.) plication a al owner(s)	arket the or to the ow No tional is n and the en	oil or ga wner of needed.	gh (4).  s based the oil  If the an old plat and	(See reverse side upon a lease or corgas in place uswer is Yes, you	other of which ou ma	continuing contract is not inherently y use Affidavit Fo	ct or contracts providing related to the volunt orm IV-60.  The registered mail or description or the registered mail or description or the registered mail or description	Perforations:  Top Bottom  r gas.  ng for flat well royalty or an e of oil or gas so extracte
Intermediate Production Tubing Liners  Liners  Check an Intermediate Intermediate Production Tubing Liners  1) EXTRAG Check an Intermediate Intermed	nd pro- ncluded he request TY PR tht to e provision d or ma above d Copie of this coal op	vide one of I is the lease uirement of COVISIONS extract, prod on for comparketed? is No, not es (See reve Permit App verator, coa	e or lease.  f Code 22-  S  duce or ma pensation Yes  hing additerse side.) plication a al owner(s)	arket the or to the ow No tional is n and the en	oil or ga wner of needed.	gh (4).  s based the oil  If the an old plat and	(See reverse side upon a lease or corgas in place uswer is Yes, you	other of which ou ma	continuing contract is not inherently y use Affidavit Fo	ct or contracts providing related to the volunt orm IV-60.  The registered mail or description or the registered mail or description or the registered mail or description	Perforations:  Top Bottom  r gas.  ng for flat well royalty or an e of oil or gas so extracte

My Commission Expires\_ OFFICE USE ONLY

**DRILLING PERMIT** 

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Pe	mit expires	100 2	1983	2	unless di	rilling is commenced prior to that date and prosecuted with due diligence.
	Bond:	Agent:	Plat:	Casing	Fee	
		7.5	15	- 5	5166	Administrator, Office of Oil and Gas