



IV-35 (Rev 8-81)

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	Oct	ober	4,	1982	
	itor's				
Well	No	1			
Farm	Lawso	n W.	Han	iltor	1
API N	Ю. 47	- 01	9	Samp.	0474

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Wast ind Storag	e Disposa e/ Dee	l/ p.*/ Sha	llow/)	
LOCATION: Elevation: 1444.6 Watershed Mil			•		ver
District: Valley County Fayett					
		200000000			
COMPANY Ashland Exploration, Inc.					
ADDRESS P. O. Box 391, Ashland, Ky. 41114	Caşing	Used in	Left	Cement	
DESIGNATED AGENT Forrest Burkett	Tubing	Drilling	in Well	fill up Cu. ft.	
ADDRESS P. O. Box 158, Brenton, WV 24818	Size				ĺ
SURFACE CWNER Lawson Hamilton, Jr. etal	20-16 Cond.	31	31		÷
ADDRESS P. O. Box 175, Hansford, WV	13-10"		(0	(0 -1	ļ
MINERAL RIGHTS OWNER Lawson Hamilton, Jr. et al	9 5/8	1/12	1413	60 sks	
ADDRESS P. O. Box 175, Hansford, WV		1412	1412	450 sks	
OIL AND GAS INSPECTOR FOR THIS WORK D. Craig	8 5/8 7				
Duckworth ADDRESS Rt. 2, Box 2-D Sandyville		6202	6202	170 sks	:
PERMIT ISSUED 1/5/82 WV		/			Í
DRILLING COMMENCED 3/4/82	<u>4 1/2</u> 3				
DRILLING COMPLETED 4/16/82			5/22	71 - 0 0576	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2 3/8		5433	Pkr @ 2576	į B
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used				
ON	useu,				
GEOLOGICAL TARGET FORMATION Newburg		Dept	h 7589	feet	
Depth of completed well 7641 feet R	otary X	_/ Cable	Tools_		
Water strata depth: Freshfeet;	Salt	feet			
Coal seam depths:	Is coal h	cing mine	ed in the	area? No	
OPEN FLOW DATA Rhinestreet > Marcellus					
Producing formation Dev. Shale, Cordon & Ma	1570 - 1626 xton Pav	zone dept	·h -=-	feet	
Contraction of the Contraction o	Oil: Init			Bbl/d	
Final open flow 3060 Mcf/d		al open fl	~~~~	Bbl/d	-
Time of open flow between initi					
Static rock pressure 520 psig(surface		_			
(If applicable due to multiple completion-					
Second producing formation		zone dept	h	feet	
Gas: Initial open flow Mcf/d				Bbl/d	
Final open flow Mcf/d					100
Time of open flow between initi		-		urs OCT 18	1902
Static rock pressurepsig(surface)					
•				rawaa aidal	

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING PHYSICAL CHANGE, ETC. Perf Dev. Shale 30H/4584-5904-Frac w/75 Quality foam using 590 sks 20/40 sand, ETC. 713 MCFN₂, ATP 3037# @ 11.6 B/M, ISIP 4800#, 15 min 4200#, TSLF 291 bbl. Perf Gordon 15H/2942-54 - Frac w/75 Quality foam using 25,000# 80/100, 28,600# 20/50, 350 MCFN₂, BD @ 600#, ATP 1450# @ 39.6 B/M foam rate. ISIP 1500#, 5 min 1000#, TSLF 139 bbl.

Perf Weir 30H/2401-2441 - Frac w/75 Quality foam using 50,000# 20/40, 390 MCFN2, BD @ 1200#, ATP 1000# @ 7.5 B/M (wtr rate) ISIP 850#, 15 min 800#. TSLF 200 bbl - Squeezed and abandoned)

Perf Maxton 30H/1570-1626- Water frac w/30#/1000 J-266 gel system, 35,000# 20/40 -BD on vacuum, ATR 30 B/M, ATP 1250#, ISIP 1000#, 15 min 800#. TSLF 585 bbl. Perf M. Maxton 13H/1423-50 - Frac w/20#/1000 waterfrac gel system using 19,000# 20/40 BD @ 1600#, ATP 2244# @ 24 B/M, ISIP 1750#, 15 min 1100# - TSLF 390 bb1.

Completed as a commingled gas producer in Devonian Shale & Maxton w/3060 MCF/D. WELL LOG

·			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fres and salt water, coal, oil and ga
Sand	0	170	@ 2244 94 MCF/D
Shale	170	190	@ 2520 84 MCF/D
Sand	190	272	@ 3010 119 MCF/D
Shale & Sand	272	316	@ 3516 119 MCF/D
Salt Sand	316	976	@ 5510 94 MCF/D
Shale	976	1196	@ 5585 84 MCF/D
Ravencliff	1196	1390	·
Shale	1390	1422	
Middle Maxton	1422	1456	€
Shale	1456	1565	
Stray Maxton	1565	1629	
Shale	1629	1664	
Lower Maxton	1664	1761	
Little Lime	1761	1827	
Pencil Cave	1827	1863	
Big Lime	1863	2180	·
Shale	2180	2295	
Upper Weir	2295	2328	*
Shale	2328	2402	•
Lower Weir	2402	2443	
Shale	2443	2720	
Coffee Shale	2720	2736	
Berea	2736	2768	
Dev. Shale	2768	2935	
Gordon	2935	2961	
Dev. Shale	2961	6132	
Onondaga Limestone	6132	6230	
Oriskany	6230	6247	Hole plugged back
Lime	6247	6466	6800-7000 36 sks Cl A
Dolomite	6466	6937	6100-6300 46 sks Cl A
Newburg	6937	6950	Drillable plug set @
Dolomite	6950	7114	6050 inside of 7" csg.
Keifer	7114	7134	
Rose Hill	7134	7532	
Juniatė,	7532	7641	
~ ⇔™~~ <i>~ ~</i>			1.000
DTD 7635			
LTD 7641			

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC. Well Operator	
By: D. D. Belcher	
Date: October 4, 1982	14

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 end, encountered in the drilling of a well."

IV-35 (Rev 8-81)

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 access.			

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Date	0c	tob	er	/4 »	Paralle S	98	2	
ومروس	fore				-			-

NOV 3 - 1982 State of Mest Hirginia Well No. OIL AND GAS DIVISION WYDEPARTMENT OF MINES

Depurtment of Mines noiciál sad bnu liO Farm Lawson W. Hamilton API No. 47 0474

WELL OPERATOR'S REPORT OF

BEAISED

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1444.6 Watershed Mil	burn Cree	k of Paint	Creek of	illow/) Kanawha Ri
District: Valley County Fayett		Quadrangl		* a
OMPANY Ashland Exploration, Inc.				
DDRESS P. O. Box 391, Ashland, Ky. 41114	Caşing	Used in	Left	Cement
ESIGNATED AGENI Forrest Burkett	Tubing		in Well	fill up Cu. ft.
DDRESS P. O. Box 158, Brenton, WV 24818	Size		• .	Cuo ILo
URFACE CAMER Lawson Hamilton, Jr. etal	20- <u>k&</u> Cond-	3 1	31	
DDRESS P. O. Box 175, Hansford, WV	13-10"	60		
INERAL RIGHS OWNER Lawson Hamilton, Jr. et al	9 5/8	1412	1412	60 sks
DDRESS P. O. Box 175, Hansford, WV	8 5/8	1412	1412	450 sks
IL AND GAS INSPECTOR FOR THIS WORK D. Craig	7			
Duckworth ADDRESS Rt. 2, Box 2-D Sandyville,	5 1/2	6202	6202	170 sks
ERMIT ISSUED 1/5/82				
RILLING COMMENCED 3/4/82	<u>4 1/2</u> 3	<u> </u>		
RILLING COMPLETED 4/16/82			5400	- 0 0 - 0 - 0
f applicable: plugging of dry hole on	2 3/8		5433	Pkr @ 2576
ONTINUOUS PROGRESSION FROM DRILLING OR EXORKING. VERBAL PERMISSION OBTAINED	Liners used			
N	useu			
EOLOGICAL TARGET FORMATION Newburg		Dept	h 7589	feet
Depth of completed well 7641 feet Ro	tary X			
Water strata depth: Fresh feet;		feet	:	
			dîn the	area? No
PEN FIOW DATA •				
	A D			•
Producing formation Dev. Shale, Gordon & Max				
Gas: Initial open flow 84 Mcf/d 0				
Final open flow 3060 Mcf/d	_			The state of the s
Time of open flow between initia				
Static rock pressure 520 psig(surface)		nt, arter	408 hour	s shut in
(If applicable due to multiple completion				
Second producing formation				fcet
Gis: Initial open flow 1:0/4 0				
Final open flow 101/d 0			(C)	Bbl/d
Time of open flow between initial		. %	_	

Perf Dev. Shale 3011/4584-5904-Frac w/75 Quality foam using 590 sks 20/40/18416, Erc. 713 MCFN₂, ATP 3037# @ 11.6 B/M, ISIP 4800#, 15 min 4200#, TSLF 291 bb1. Perf Gordon 15H/2942-54 - Frac w/75 Quality foam using 25,000# 80/100, 28,600# 20/50, 350 MCFN2, BD @ 600%, ATP 1450% @ 39.6 B/M foam rate. ISIP 1500%, 5 min 1000%, TSLF 1:

Perf Weir 30H/2401-2441 - Frac w/75 Quality foam using 50,000# 20/40, 390 MCFN2, BD @ 1200#, ATP 1000# @ 7.5 B/M (wtr rate) ISIP 850#, 15 min 800#. TSLF 200 bbl - Squeezed and abandoned)

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Completed as a commingled gas producer in Devonian Shale & Maxton w/3060 MCF/D. WELL LOG

Sand	Company	•		
Sand 170	_			REMARKS
Sand	FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fre
Sand Shale S	Control			and salt water, coal, oil and o
Shale 170 190 272 190 272 190 272 190 272 190 272 190 272 190 272 190 272 190 272 190 272 190 19			170	
Sand	.T	D		44.
Shale & Sand 272 316 6 3516 119 MCF/D 6 5510 94 MCF/D 6 5510 94 MCF/D 6 5510 94 MCF/D 6 5580 84 MCF/D 6 5580 84 MCF/D 6 5585 84 MCF/D 7	•	NA CONTRACTOR OF THE CONTRACTO	507	B
Salt Sand Shale 976 1196 2585 84 MCF/D 2585 84 MCF	-			
Shale	•		10 2	
Ravencliff	<u>.</u>		22 2	
Shale			W H	6 2282 84 MCF/D
Middle Maxton			101 10	
Shale 1456 1565 1629 1664 1629 1664 1761 1827 1863 1863 1863 1864 1863 1864 1865			8	
Stray Maxton 1565 1629 1664		ii .	x g	
Shale 1629 1664 1761 1827 1863 1863 1863 1863 2180 2295 2328 2402 2443 2720 2736 2768 2720 2736 2768 295 295 295 295 205 2			K 18	
Little Lime	•		81 607	
Little Lime Pencil Cave Big Lime Shale Upper Weir Shale Lower Weir Shale Lower Weir Shale Coffee Shale Berea Dev. Shale Conondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tusesaroya Juniata DTD 7635 Big Lime 1827 1863 1863 1863 2180 2295 2295 2295 2295 2295 2295 2295 229	. •	8	92 B	
Rencil Cave 1827 1863 2180 2180 2295 2328 2295		. .	Mr. St.	
Big Lime			5X	
Shale	Pencil Cave		# # # # # # # # # # # # # # # # # # #	
Upper Weir 2295 2328 2402			it K	
Shale Lower Weir Shale Coffee Shale 2443 2720 2443 2720 2736 Berea 2736 2768 2935 Gordon 2935 2961 Dev. Shale Onondaga Limestone Oriskany Coriskany Coriskan			X 91	*
Lower Weir 2402 2443 2720	Upper Weir	1 1	8 65	
Shale Coffee Shale Pev. Shale Dev. Shale Cordon Dev. Shale Onondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tuscaroza Juniata DTD 7635 Dev. Shale 2736 2736 2736 2736 2736 2736 2736 273	Shale ·		e 81	
Coffee Shale Berea Dev. Shale Cordon Dev. Shale Onondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tuscaroya Juniata DTD 7635 2720 2736 2768 2978 2961 2768 2935 2961 6132 6230 6247 6462 6630 6247 6466 6937 6950 7114 7134 7134 7456 7582 7641 2780 2788 2935 2961 6132 6230 6247 6466 6937 6950 7114 7134 7134 7134 7134 7134 7134 7134	Lower Weir		i z	
Berea 2736 2768 2935	Shale	80	3 89	•
Dev. Shale Gordon Dev. Shale Onondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tuscaroya Juniata DTD 7635 2935 2961 6132 6630 66247 66230 66247 66246 6800-7000 36 sks Cl A 6100-6300 46 sks Cl A 6100-6300 46 sks Cl A 6050 inside of 7" csg.	Coffee Shale		(80	
Gordon Dev. Shale Onondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tuscarora Juniata DTD 7635 2935 2961 6132 6230 6247 6463 6230 6247 6466 6937 6946 6800-7000 36 sks Cl A 6800-7000 36 sks Cl A 6800-7000 36 sks Cl A 6100-6300 46 sks Cl A Drillable plug set @ 6050 inside of 7" csg.	Berea		·	
Dev. Shale Onondaga Limestone Oriskany Lime Dolomite Newburg Dolomite Keifer Rose Hill Tusearora DTD 7635 Dev. Shale 2961 6132 6230 6247 6466 6937 66466 6937 6950 7114 7134 7134 7456 7582 7641 DTD 7635	Dev. Shale	2768	2935	•
Onondaga Limestone Oriskany Lime Colomite Dolomite Newburg Dolomite Rose Hill Tuscarora Juniata DTD 7635 6132 6230 6247 6466 6247 6466 6937 6937 6937 6950 7114 7134 7456 7582 6050 6050 Fillable plug set @ 6050 7114 7134 7456 7582 7641	Gordon	2935	2961	
Oriskany Lime 6247 6466 Dolomite 66466 6937 Newburg Dolomite 6950 7114 Rose Hill Tuscarora Juniata DTD 7635 6230 6247 6466 6800-7000 36 sks Cl A 6800-7000 36 sks Cl A 6900 6910 6920 6920 6930 6930 6930 6930 6930 6930 6930 693	Dev. Shale ·	2961		
Oriskany Lime 6247 6466 600-7000 36 sks Cl A 600-6300 46 sks Cl A 600-6300 46 sks Cl A 600-6300 46 sks Cl A 600-6300 600	Onondaga Limestone	6132	(AL	
Lime Dolomite Dolomite Newburg Dolomite Keifer Rose Hill Tusearora Juniata DTD 7635 6247 6466 6800-7000 36 sks Cl A 6100-6300 46 sks Cl A 6100-6300 46 sks Cl A 6937 6950 7114 7134 7134 7134 7456 7582 7641		6230	. 6247	
Newburg 6937 6950 Drillable plug set @ Dolomite 6950 7114 6050 inside of 7" csg. Keifer 7114 7134 7456 Tusesrora -only revision 7456 7582 Juniata 7582 7641 DTD 7635 7635 7641	***************************************	6247	6466	
Newburg 6937 6950 Drillable plug set @ Dolomite 6950 7114 6050 inside of 7" csg. Keifer 7114 7134 7456 Tusesrora 7456 7582 Juniata 7582 7641 DTD 7635 7635	Dolomite	6466	6937	6100-6300 46 sks Cl A
Dolomite Keifer Rose Hill Tusearora - only revision DTD 7635 Tolomite 7114 7134 7134 7456 7582 7641 7635		6937	· 6950	
Keifer 7114 7134 Rose Hill 7134 7456 Tuse arova - only revision 7456 7582 Juniata 7582 7641 DTD 7635 7635 7641	. —	6950	7114	6050 inside of 7" csg.
Rose Hill 7134 7456 Tusespora only revision 7456 7582 Juniata 7582 7641 DTD 7635		· 7114	7134	•
Tusearora 7456 7582 Juniata 7582 7641 DTD 7635		7134	7456	•
Juniata 7582 7641 · • • • • • • • • • • • • • • • • • •		i i i i i i i i i i i i i i i i i i i	7582	
DTD 7635		· · · · · · · · · · · · · · · · · · ·	Terror National Control of the Contr	
	· ·		0 V 7 L	•
	.00			

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.	
Well Operator	
By: D. D. Beldrer	<u> </u>
Date: October 4, 1982	Act.

lic.: c: Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all forestions, including



Well	No.	1 -	Ser.	#0931	21		
Farm_	Laws	on W	. Ham	ilton,	Jr.	et	al
API #	47 -	019 ·	- 04	74			•
Date	Dece	mber	23,	1981	****************	***************************************	•

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /	
•	Underground storage / Deep X / Shallow /
	tershed: Milburn Creek of Paint Creek of Kanawha Rive unty: Fayette Quadrangle: Pax
WELL OPERATOR Ashland Exploration, Inc. Address P. O. Box 391 Ashland, KY	41114 Address P. O. Box 156
	Brenton, WV 24818
OIL AND GAS	- COAL OPERATOR MONE
ROYALTY OWNER <u>Lawson W. Hamilton, Jr. et</u> Address P. O. Box 175	Address
Hansford, WV 24103	
Acreage 6966.4	coal alumn(a) with projection and
SURFACE OWNER Lawson W. Hamilton, Jr.	COAL OWNER(S) WITH DECLARATION ON RECORD: et al NAME Hansford Coal Company
Address P. O. Box 175	Address P. O. Box 175
Hansford, WV 24103	Hansford, WV 24103
Acreage 6615.4	NAME
FIELD SALE (IF MADE) TO:	Address
NAME	
Address	
	NAME
OIL AND GAS INSPECTOR TO BE NOTIFIED:	Address
	िडिक्काइव
NAME D. Craig Duckworth	RECEIVED
Address Rt. 2 Box 2-D Sandyville, WV 25275	DEC 2 8 1981
Telephone 304 273-5853	and the party of the control of the
	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
Recorded on November 4, 1981, in t	he office of the Clerk of County Commission of
	, in 404 Book at page 16 . A permit is
requested as follows: PROPOSED WORK: Drill x / Drill D	eeper / Redrill / Fracture or stimulate v /
requested as follows: PROPOSED WORK: Drill x / Drill D	eeper / Redrill / Fracture or stimulate v /
requested as follows: PROPOSED WORK: Drill X / Drill D Plug off old format	
requested as follows: PROPOSED WORK: $Drill X / Drill D$ Plug off old format Other physical chan	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify)
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow objection they wish to make or are requested to the physical chan be above to the physical chan be above named coal operator, coal ow objection they wish to make or are requested to the permit Application and pailed by registered mail or delivered	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow Objection they wish to make or are requested to the Permit Application and mailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia.
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow objection they wish to make or are requested to the Permit Application and mailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest PLEASE SUBMIT COPIES OF ALL	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia. Ashland Exploration, Inc.
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow Objection they wish to make or are requested on the permit Application and mailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia.
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow Objection they wish to make or are requested on the permit Application and mailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: VEST VIRGINIA OIL AND GAS	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept. the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia. Ashland Exploration, Inc.
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow objection they wish to make or are req Department of Mines within fifteen (15) Dopies of this Permit Application and mailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS DONSERVATION COMMISSION 1613 WASHINGTON ST., E.	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia. Ashland Exploration, Inc. Well Operator By: Ashland Exploration inc.
PROPOSED WORK: Drill X / Drill D Plug off old format Other physical chan planned as shown The above named coal operator, coal ow objection they wish to make or are requested to the Permit Application and nailed by registered mail or delivered er(s), and coal lessees on or before to the Department of Mines at Charlest PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS ONSERVATION COMMISSION	eeper / Redrill / Fracture or stimulate X / ion / Perforate new formation / ge in well (specify) on the work order on the reverse side hereof. ner(s), and coal lessee are hereby notified that any uired to make by Code \$22-4-3 must be filed with the) days after receipt of this Application by the Dept the enclosed plat and reclamation plan have been by hand to the above named coal operator, coal ownhe day of the mailing or delivery of this Application on, West Virginia. Ashland Exploration, Inc. Well Operator Well Operator

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACT	TUAL II	IFORMAT	ION MUST	BE S	UBMITT	ED ON FO	RM IV-35 L	IPON COMPLETI	OH	
DRILLING COL	TRACTO	OR (IF	KNOMN)	Ray	Resou	rces Dril	ling Co.		•	•
		A	ddress_	630	Comme	rce Squar	е	Phonosing Commission (Commission Commission		
				Cha	rlesto	n, WV 25	301			,
GEOLOGICAL Estimated Approxima Approxima Is coal b	d depti ate wa ate co	h of con ter str al seam	mpleted v ata depth depths:	well_ hs: None	7600' Fresh, e	5	t. Rotai feet; s	y X / Cabl salt, Top of Salt S	feet.	/
CASING AND CASING OR TUBING TYPE	-	SPE	M CIFICATION Weight per ft			For Dril		CEMENT FILL- UP OR SACKS Cubic ft.	PACK	ERS
	·	·	48#	7	USEU	60	60	30	Kinds	
Conductor	13 3/8	IH-40		X	+	7	1380	Circulate	1	
Fresh water	<u>9 5/8</u>	!H-4U	32#	X	 	1380	11.300	Circulate_	Sizes	May and the second seco
Coal	7	N-80	23#/ft.	X	 	6145	6145	2500 ft.	1	And the second s
			7	1	1	1	1	As Required	Denths s	et
Production Tubing	14 1/2	N-80	11.6	X	1	7600	7600	As Required	I	
Liners									Perforat	
		1				<u> </u>		1	Тор	Bottom -
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All provision of the W. \ for dril operations by	-i'b a prod by -sa fr wallrate - fract - and - MUST - being - a Code - ling - ave note - ave not	end Regul Code 8 com the Form IV wring of is note 85 POSTE in accorde , the local	lation 2 22-4-12a owner of 7-2 shall or stimul ed as suc D AT THE conce with C ion is hereby his permit shall by 9-4-	3, (i any not ating th on WELL hapter appro-	(v) in l (v) water be recorded to the F	leas proi if applic well or quired fo o be para	ricusty pa pable, the dualling or fractur t of the w	ation required in the same consent required within 200 fing or stimular ork for whice connection to the same conne	me well, wired by eet of th lating a h a permi	the fee Code he pro- Jell it is
The undersignorate of the signed has reated the the the governing	no lecture in the second second well no object that	oal ope ined th location ection	o has recithin fill rator	corde fteen _/ ow sed w ell l	d a a (15) WAL mer cell lo ocatio	claration live of VER lesse cation. on has be	n wider Coreacipt it reacipt it ee/ of If a mine een added done at t	erator and by ode \$22-4-20, hereof: the coal under map exists to the mine which is location of the West	of the parties which compose The provide	well overs the under-
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