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DEPARTMENT OF ENERGY Gil and Ges Zivision

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20-	Farm	Eagle			•	
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WELL OPERATOR'S REPORT

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District: Clear Fork County Raleigh Quadrangle Pax COMPANY Ashland Exploration. Inc. ADDRESS P. O. Box 391. Ashland. KY 41114 DESIGNATED AGENT Forrest Burkett ADDRESS Box 379, Brenton, WV 24818 SURFACE CWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 MINERAL RIGHTS CWNER Eagle Land Co. 9 5/8 1716' 1716' 600sks	·
ADDRESS P. O. Box 391. Ashland. KY 41114 DESIGNATED AGENT Forrest Burkett ADDRESS Box 379, Brenton, WV 24818 SURFACE OWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 13-10* Casing Used in Left fill up Cu. ft.	er
ADDRESS P. O. Box 391. Ashland. KY 41114 DESIGNATED AGENT Forrest Burkett ADDRESS Box 379, Brenton, WV 24818 SURFACE OWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 13-10* Casing Used in Left fill up Cu. ft.	
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DESIGNATED AGENT Forrest Burkett ADDRESS Box 379, Brenton, WV 24818 SURFACE OWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 13-10* Drilling in Well Cu. ft.	- Company
ADDRESS Box 379, Brenton, WV 24818 SURFACE OWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 13-10* Size 20-16 Cond. 38' 38' 20sks	
SURFACE OWNER Eagle Land Co. ADDRESS Box 88, Charleston, WV 25321 13-10* 20-16 Cond. 38' 38' 20sks	
ADDRESS Box 88, Charleston, WV 25321	
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MINERAL RIGHTS OWNER Eagle Land Co. 9 5/8 1716' 1716' 600sks	-
ADDRESS Box 88. Charleston. WV 25321 8 5/8 OIL AND GAS INSPECTOR FOR THIS WORK Rodney 7	
	, ALCOHOLD !
PERMIT ISSUED April 12, 1985 4 1/2 6738' 6738' 390sks DRILLING COMMENCED 8/23/85 3	
	permitte
DRILLING COMPLETED 9/6/85 2 5330' v/R-4 pkr IF APPLICABLE: PLUGGING OF DRY HOLE ON 8 3670'	
CONTINUOUS PROGRESSION FROM DRILLING OR Liners	
REWORKING. VERBAL PERMISSION OBTAINED USed	والمدرس
ONDepth 6779 fe	o+-
GEOLOGICAL TARGET FORMATION Onondaga Lime	
Depth of completed well 6809 feet Rotary X / Cable Tools	New York
Water strata depth: Fresh 40 feet; Salt 1015 feet	
Coal seam depths: 140-145 343-345 394-398 Is coal being mined in the area? N	
OPEN FLOW DATA 558-573	
Producing formation Upper & Strav Dev. Shale Pay zone depth 4675-4705 fe	et
Gas: Initial open flow TSTM Mcf/d Oil: Initial open flow Bbl	/d
Final open flow 438 Mcf/d Final open flow Bbl	./ċ
Time of open flow between initial and final tests 3 hours	
1225 () () The manufact of the 480 hours shut	iı
(If molicable due to multiple completion)	
Second producing formation Gordon Pay zone depth 3636-3650 fr	æ
Con Tritial con flow TSTM Mond Oil: Initial open flow	-,
Final open flow 310 Mcf/d Oil: Final open flow Bb	L /

Time of open flow between initial and final tests 3 hours

Static rock pressure 900 psig(surface measurement) after480 hours shut in JAN 1 3 1986

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMILATING,

Perf L. Dev. Shale 30H/6310-6330 - N₂ frac using 500 gal 28% HCl & 1,969,000 SCF N₂, BD @ 3650#, ATP 4383# @ 66,000 SCF/m, MTP 4690#, ISIP 3100#. Made water plugged off w/a "NC" BP @ 5445 Perf U. Dev. Shale 30H/5280-5300 - N2 frac using 500 gal 28 7 31,947,000 SCF N₂. BD @ 3800#, ATP 4096, MTP 4140#, ISIP 2480#.

Perf Stray Dev. Shale 30H/4675-4705 - N₂ frac using 500 gal 15% HCl & 1,074,000 SCF N2. BD @ 2890#, ATP 2767# @ 49,500 SCF/m, MTP 2890#, ISIP 2060#. Perf Gordon 20H/3636-3650 - 75 Q foam frac using 500 gal 15% HCl, 30,000# 20/40 sand, 250,000 SCF N₂ @ 8500 SCF/m. BD @ 1320#, ATP 1372# @ 20 B/M foam, MTP 1410#, ISIP 850#, TLGFW 196 bbl., TSLF 112 bbl.

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WELL LOG

man comment

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ORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh
Nestado Como sea anti-			and salt water, coal, oil and gas
Sand & Shale	0	1016	Fresh wtr & coal
Salt Sand ·	1016	1682	Salt water
Shale	1682	1864	
Avis LS	1864	1895	
Shale	1895	2004	
Upper Maxton	2004	2060	
Shale	2060	2139	
Middle Maxton	2139	2159	
Shale	2159	2403	
Lower Maxton	2403	2472	
Shale	2472	2475	
Little Lime	2475	2546	
Pencil Cave	2546	2573	
Big Lime	2573	2871	
Shale	2871	3007	
Upper Weir	3007	3032	
Shale	3032	3068	
Lower Weir	3068	3159	
Shale	3159	3411	
Coffee Shale	3411	3433	·
Berea	. 3433	3466	
Devonian Shale	3466	3628	
Gordon	3628	3653	
Dev. Shale	3653	6800	
Onondaga	6800	680 9	
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LTD 6781			
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*Note: Top of Lime lost on	log aue to	ILTI-ab 6 10	
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April 5656 220			5 .
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(Attach separate sheets as necessary)

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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 inial, encountered in the drilling of a well.

MAR 27 \$95



1) Date: March 25 , 19 85
2) Operator's Eagle Land Company
Well No. 7, Serial No. 104721

3) API Well No. 47 - 081 - 0680 State County

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

WELLTYPE A OIF WILL GE X WELLTYPE A OIF WILL GE X WELLTYPE A OIF WILL GE X WELLTYPE A OIF GE X Address P.O. BOX 391 PAGES P.O. BOX 391 Ashaland X X 41114 Reach CONTRACTOR Name Rodney G. Dillon Address P.O. BOX 379 Ashaland X X 41114 Reach CONTRACTOR Name Rodney G. Dillon Address P.O. BOX 30 Address P.O. BOX 30 Nor DILL WORK DE DE Y WELLTYPE A OIF GE X WELTYPE A OIF GE X WELLTYPE A OIF GE X WELLTYPE A OIF GE X WELLTYP		CH 8-	GAS DIV	15'031			* CAE LABRICANO CAER	,			
NELL TYPE: A Oil Gas X Underground storage Deep X Shallow O B (if "Gas", Production X Watershed: White Oak Creek of Clear Fork of Big Coal R Durite: Clear Fork County: Raledge Quadragle: Pax Well Operators. As No Specific Clear Fork County: Raledge Quadragle: Pax Well Operators. Ashland Exploration, Inc. 700 Disignators. Pay 24818 MELL OPERATOR Ashland Exploration, Inc. 700 Disignators. Pay 24818 MILL OPERATOR Ashland Exploration, Inc. 700 Disignators. Pay 24818 MILL OPERATOR Ashland Exploration, Inc. 700 Disignators. Pay 24818 MILL OPERATOR AShland Exploration, Inc. 700 Disignators. Pay 24818 MILL OPERATOR OF BE NOTIFIED 9 DESIGNATED AGENT FORE SET Surkett. Address P.O. Box 379 Address P.O. Box 379 Address P.O. Box 379 Address P.O. Box 300 Address					$ \frac{AP}{}$	PLICAT	ION FOR A WEI	LL WORK PERM	<u>IIT</u>		
B (ft "Cas", Production X Underground storage Deep X Shallow 2024 'District Clear Fork 2024 'Waterbed: White Dak Creek of Clear Fork of Rig Goal B District Clear Fork County: Raleigh Quadrangie Pax NFELL OPERATOR Ashland Exploration, Inc. 270 'District Clear Fork Say 391 'Ashland XY 41114 BREATOR Ashland Sy 41114 BREATOR Address P.O. Box 379 Ashland Sy 24116 BREATOR Address P.O. Box 379 Ashland Sy 24110 BREATOR Address P.O. Box 30 Addres	WELL TY	E: A (Dil IV	// Ga	ت x X	1					
DORATION: Elevation: 2024 Watershed: White Oak Creek of Clear Fork of Rig Coal Forbide District: Clear Fork District: Clear Fork Coansy: Releting Quadrangle: Pax WELLOFERATOR Ashland Exploration, Inc. Address P.O. Box 30 Ashland, XY 41114 Dit & GASINSPECTOR TO BE NOTIFIED Sociation: Watershed Coansy: Proceedings of Proc	***************************************	B (If "Gas" F	Production	1	X	/ IInderground	ctorage	/ Deen X	/ Shallow A	
Ditrict: Clear Fork County: Rale4gh Quadrungle: Pax WELLOPERATOR Ashland Exploration, Inc. 270 Address Ashland Exploration, Inc. 270 Address P.O. Box 391 Ashland, KY 41114 Brenton, W 24818 DIL & GASINSPECTOR TO BE NOTIFIED Shame Rodiney G. Dillon Name Ray Resources Drilling Company Address 2101 Washington St., East Charleston, W 25311 PROPOSED WELL WORK: Drill K. Drill deeper Redrill Stimulate X Plug off old formation Other physical change in well (specify) DROPOSED WELL WORK: Plug of old formation Perforate new formation Other physical change in well (specify) DROPOSED WELL WORK: Price 1 Stimulate X Plug off old formation Perforate new formation Other physical change in well (specify) Septiment of the physical change in well (specify) DROPOSED WELL WORK: Price 1 Stimulate X Plug off old formation Proposed well (specify) DROPOSED WELL WORK: Price 1 Stimulate X Plug off old formation Other physical change in well (specify) DROPOSED WELL WORK: Price 1 Stimulate X Plug of old formation Other physical change in well (specify) DROPOSED WELL WORK: Price 1 Stimulate X Plug of old formation Other physical change in well (specify) DROPOSED WELL WORK: Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X Price 1 Stimulate X Price 1 Stimulate X Price 1 Stimulate X PROPOSED WELL WORK: Price 1 Stimulate X Pri	LOCATIO	N: El	evation:	20	0241		Watershed:	White Oak	Creek of Clear	Fork of Rig Coa	1 R
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OFFICE USE ONLY DRILLING PERMIT It number 47-081-0680	3						<u> </u>	1 0000	Necded 2		Let 4
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.