

Reviewed

Recorded.

25-Mar-92 API # 47-005-01560

James L. Stephens, Eng. Tech.

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Envi	Well Operator's Rep	ort of Well	Work		
Farm name:	SOUTHERN LAND CO, THE	Operator W	/ell No.: 2	20-S-14013	
LOCATION:	Elevation: 2137.71 District: CROOK Latitude: 6650 Feet South of 37 I Longitude: 300 Feet West of 81 Dec	Quadrangle County: E Deg. 52 Min. g. 42 Min. 3	SOONE		
	ASHLAND EXPLORATION, INC. P. O. BOX 391, A1-6 ASHLAND, KY 41114-0391	Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Agent:	B. E. WIDENER	Size		**	
•	RICHARD CAMPBELL	16"	28'	28'	17.7
Permit Issu Well work C Well work C Verbal Plug	Commenced: 05/18/92 Completed: 08/20/92	8 5/8"	2620'	2620'	594
Permission Rotary X Total Depth	granted on: Cable Rig (feet) 6496	5 1/2"	6476°	6476'	1009
_None	depths (ft)	1.9" 0	6235°KB	w/ R-4pkr	@ 4104'KB
1738' damp Is coal bei Coal Depths 220-224, 33		1.9" @	4041'KB		
OPEN FLOW D Produ Gas:		Oil: Init Fina and final te	one depth (tial open final open flowests	low N	5275 Bb1/d Bb1/d Hours Hours
Secor Gas: Stati	Berea nd producing formation Injun Initial open flow 0 MCF/d Final open flow *2949 MCF/d Time of open flow between initial ic rock Pressure 685# psig (s	Pay z Oil: Init Fina and final te urface press	zone depth tial open f al open flow ests ests after	(ft) <u>363</u> ; low <u></u> w <u></u> 3	0-4052 2-3644 Bb1/d Bb1/d Hours Hours
FRACTURING	BACK OF THIS FORM PUT THE FOLLOW OF STIMULATING, PHYSICAL CHANGE, ECOLOGICAL RECORD OF ALL FORMATIONS,	TC. 2.) THE	WELL LOG	WHICH IS A	A SYSTEMATIC

For ASHLAND EXPLORATION, INC.

8/31/92

By:

Date:

Formation on Rock Type	TOP	BASE
Sand and Shale (Base Lee Fm) Pennington formation U. Maxton 2705-2843 M. Maxton 2916-2978	0 2413	2413 3159
Little Lime Big Lime Borden formation (Big Injun) Sunbury Shale Berea	3159 3239 3552 4006 4026	3239 3552 4006 4026 4053
Devonian Shale Onondaga Ls	4053 6485	6485 TD

DTD 6496 LTD 6499

8%" casing cemented to surface on primary job.

Well Treatment

Perf Rhinestreet 19H/5930-6275. N_2 frac using 450 gal 8% fe acid, 806,000 scf N_2 @ 101,000 scf/min. BD @ 2350#, ATP 3800#, MTP 3830# and ISIP 3000#.

Perf L. Huron 22H/5172-5640. $\rm N_2$ frac using 500 gal 8% fe acid, 806,000 scf $\rm N_2$ @ 106,000 scf/min. BD @ 3640#, ATP 3250#, MTP 3940# and ISIP 2200#.

Perf U. Dev. Shale 17H/4377-4763. N_2 frac using 550 gal 8% fe acid, 989,000 scf N_2 @ 107,000 scf/min. BD @ 2210#, ATP 3500#, MTP 4280# and ISIP 1800#.

Perf Berea 25H/4040-4052. 75 quality foam frac using 500 gal $14\frac{1}{2}\%$ fe acid, 73,500# 20/40 sand, 421,000 scf N₂ @ 12,700 scf/min. BD @ 1252#, ATP 1250# @ 25 BPM foam rate, MTP 1362# and ISIP 1362#.

Perf Injun 12H/3632-3644. N_2 frac using 500 gal 15% fe acid, 809,000 scf N_2 @ 98,835 scf/min. BD @ 2307#, MTP 4080#, ATP 3810#, ISIP 2261#.

Source 120' this

FORM WWAEBRECEIVED Page 1 of 1						
V.L. 1	· ·	STATE NT OF ENE	OF WEST V	IRGINIA SION OF OIL	AND GAS	3127/92
	F ENERGY	WELL WORK	PERMIT A	PPLICATION	Cypues	3127/94
1) Well operator: Ashland Exploration, Inc. 375 (445						
2) Operator's	Well Num	nber: 20	utnern Lai , Serial ;	nd Company, #140131	et al 3) Elevat	tion:2137.7
4) Well type: (a) Oil/ or Gas_X/						
	(b) If	Gas: P	roduction_ Deep_		round Storag	
5) Proposed T	arget For	mation(s) :	Devonian	Shale	11471411411414444444444444444444444444
6) Proposed T	otal Dept	:h:64	478′KB	feet	641', 886'	
7) Approximat	e fresh w	ater stra	ata depths	: <u>Base 10</u>	50'KB (Map V	VV-12)
8) Approximat	e salt wa	ter depth	ns: <u>Top 1</u> 6	550'KB (Map	WV-12) 284/	1, 2166
9) Approximat	e coal se	am depths	s: Solid	- No Seams	Operated	•
10) Does land	く contain c	41-443' oal seams	705 - 708; tributar	866'-871', y to active	24/0'-24/6' mine? Yes	s / No X /
11) Proposed Well Work: Drill and Stimulate New Well 12)						
CASING AND TUBING PROGRAM						
TYPE	SP	ECIFICATI	ONS	FOOTAGE	INTERVALS	CEMENT
TYPE	Size	Grade	Weight per ft.	FOOTAGE For drilling	Left in well	Fill-up (cu.ft.)
Conductor			Weight	For	Left in	Fill-up (cu.ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Conductor	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Conductor Fresh Water	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Conductor Fresh Water Coal Hash Water	Size 16	Grade LS	Weight per ft. 36.91	For drilling 30	Left in well	Fill-up (cu.ft.) CTS BOSPIBILIZ 3BOSPBILIZZ
Conductor Fresh Water Coal Haw Water Intermediate	16 16 2 5 Cool 8 5/8	Grade LS J55	Weight per ft. 36.91 24.0	For drilling 30 2600	Left in well	Fill-up (cu.ft.) CTS BOSPIBILIZ CTS
Conductor Fresh Water Coal And Water Intermediate Production	16 16 8 5/8 5 1/2	Grade LS J55 J55	Weight per ft. 36.91 24.0 15.5	For drilling 30 2600	Left in well 30 7 2600 6478	Fill-up (cu.ft.) CTS BOSPIBILES CTS AS NEEDED
Conductor Fresh Water Coal And Water Intermediate Production Tubing Liners PACKERS: Kind	Size 16 2	Grade LS J55 J55	Weight per ft. 36.91 24.0 15.5	For drilling 30 2600	Left in well 30 7 2600 6478	Fill-up (cu.ft.) CTS BOSPIBILES CTS AS NEEDED
Conductor Fresh Water Coal And Water Intermediate Production Tubing Liners PACKERS: Kind Sizes	Size 16 2	Grade LS J55 J55	Weight per ft. 36.91 24.0 15.5	For drilling 30 2600	Left in well 30 7 2600 6478	Fill-up (cu.ft.) CTS BOSPIBILES CTS AS NEEDED
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Conductor Fresh Water Coal And Water Intermediate Production Tubing Liners PACKERS: Kind Sizes	Size 16 8 5/8 5 1/2 1.9	J55 J55 J55	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 2600	Left in well 30 - 7 2600 6478	Fill-up (cu.ft.) CTS BOSPIBILES CTS AS NEEDED
Conductor Fresh Water Coal And Water Intermediate Production Tubing Liners PACKERS: Kind Sizes Depth	Size 16 8 5/8 5 1/2 1.9 S	J55 J55 J55	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 2600 6478 -	Left in well 30 - 7 2600 6478	Fill-up (cu.ft.) CTS BOSPIBILES CTS AS NEEDED
Conductor Fresh Water Coal And Water Intermediate Production Tubing Liners PACKERS: Kind Sizes Depth	Size 16 8 5/8 5 1/2 1.9 S	J55 J55 J55	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 2600 6478 - Reclar	Left in well 30 2600 6478 6428	Fill-up (cu.ft.) CTS BOSPIGIA CTS AS NEEDED SIPHON BOSPIGIA
Conductor Fresh Water Coal Add Water Intermediate Production Tubing Liners PACKERS: Kind Sizes Depth	Size 16 8 5/8 5 1/2 1.9 Sens set	J55 J55 J55 Jivision	Weight per ft. 36.91 24.0 15.5 2.76 Of Oil and	For drilling 30 2600 6478 - Reclar	Left in well 30 2600 6478 6428	Fill-up (cu.ft.) CTS BOSPIE//3 BOSPIE//3 CTS AS NEEDED SIPHON BOSPIE//

DEFARTMENT OF DEREGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION 1) Well Operator: Ashland Exploration, Inc. Southern Land Company, et al 20, Serial #140131 3) Elegation: 2137 4) Well type: (a) Oil or Gas X/ (b) If Gas: Production X/ Underground Storage Shallow X/ (b) If Gas: Production X/ Underground Storage Shallow X/ 5) Proposed Target Formation(s): Devonian Shale 6) Proposed Total Depth: 6478'KB feet 7) Approximate fresh water strata depths: Base 1050'KB (Map WV-12) 8) Approximate salt water depths: Top 1650'KB (Map WV-12) 9) Approximate coal seam depths: Solid No Seams Operated 10) Does land contain coal seams tributary to active mine? Yes No X 11) Proposed Well Work: Drill and Stimulate New Well 12) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT CONDUCTOR 16 LS 36.91 30 30 CTS Fresh water Coal Conductor 16 LS 36.91 30 30 CTS Fresh water Coal Conductor 5 1/2 J55 15.5 6478 6478 AS NEEDED Production 5 1/2 J55 15.5 6478 6478 AS NEEDED Liners C 3/1.92 Note: Promoved 9 From the first for the first for the first f	2) Operat 4) Well t 5) Propose 6) Propose 7) Approxi 8) Approxi 9) Approxi 10) Does la	perator: or's Well P ype: (a) (b) ed Target F ed Total De mate fresh mate salt p mate coal s and contain	WELL WO Ashlan Sumber: 2 Oil_/ If Gas: ormation(: pth: water str water depth seam depth	MERGY, DIV RK PERMIT d Exploration Southern L 0, Serial or Production Deep s): 6478/KB rata deptin ths: Top 1	ISION OF OI APPLICATION tion, Inc. and Company #140131 Gas_X/ n_X/ Under Devonian feet is:Base_1(.650'KB (Mar	y, et al 3) Ele ground Stor Shar Shale 050'KB (Mar	rage/ llow <u>X</u> /
Well Operator: Ashland Exploration More 150	2) Operat 4) Well t 5) Propose 6) Propose 7) Approxi 8) Approxi 9) Approxi 10) Does la	perator: or's Well P ype: (a) (b) ed Target F ed Total De mate fresh mate salt p mate coal s and contain	Ashlan Sumber: _2 Oil/ If Gas: Cormation(: pth: water str water depth seam depth	d Exploration or (Production Deep s): 6478'KB rata depth ths: Top 1	tion, Inc. and Company #140131 Gas_X/ n_X/ Under p_/ Devonian feet as:Base_1(y, et al 3) Ele ground Stor Shar Shale 050'KB (Mar	MAR 1 5 92 WY LAMEST OF VENTER DOOR 21370
2) Operator's Well Number: 20. Serial #140131 3) Electron: 2137. 4) Well type: (a) Oil / or Gas X/ (b) If Gas: Production X/ Underground Storage / Deep / Shallow X/ 5) Proposed Target Formation(s): Devonian Shale 6) Proposed Total Depth: 6478'KB feet 7) Approximate fresh water strata depths: Base 1050'KB (Map WV-12) 8) Approximate salt water depths: Top 1650'KB (Map WV-12) 9) Approximate coal seam depths: Solid - No Seams Operated 10) Does land contain coal seams tributary to active mine? Yes / No X 11) Proposed Well Work: Drill and Stimulate New Well 12) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT Size Grade Weight For Left in Fill-up well (Cu.ft.) Conductor 16 LS 36.91 30 30 CTS Fresh Water Coal Coal Coal Thermediate 8 5/8 J55 24.0 2600 2600 CTS Production 5 1/2 J55 15.5 6478 6478 AS NEEDED Liners 60 3-11.92 Note: Proposed of Oil and Gas Use Only	2) Operat 4) Well t 5) Propose 6) Propose 7) Approxi 8) Approxi 9) Approxi 10) Does la	or's Well Property (a) (b) ed Target Fred Total December fresh mate salt property mate coal sold contain	Number: _2 Oil/ If Gas: Cormation(: pth: water str water dept	or (Production Deep s):	and Company #140131 Gas_X/ n_X/ Under p/ Devonian feet is:Base_10 .650'KB (Mar	ground Stor Shale	WV Lamon of Various of
Well type: (a) Oil/ or Gas_X/ (b) If Gas: Production X/ Deep/ Shallow_X/ Deep/ Shallow_X/ 5) Proposed Target Formation(s):	5) Propose 6) Propose 7) Approxi 8) Approxi 9) Approxi 10) Does la	(b) ed Target F ed Total De mate fresh mate salt mate coal s	Oil/ If Gas: ormation(: pth: water str water dept seam depth	or o	#140131 Gas_X/ n_X/ Under p/ Devonian feet is:Base_1(ground Stor Shale Shale	rage/ llow <u>X</u> /
(b) If Gas: Production X/ Deep_/ Shallow X/ Deep_/ Shallow X/ Shallow X/ 5) Proposed Target Formation(s):	5) Propose 6) Propose 7) Approxi 8) Approxi 9) Approxi 10) Does la	(b) ed Target F ed Total De mate fresh mate salt mate coal s	If Gas: ormation(: pth: water str water depth seam depth	or or Production Deep s):	Gas_X/ n_X/ Under p/ Devonian feet as:Base_1(ground Stor Shale Shale 050'KB (Mar	rage/ llow <u>X</u> /
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Approximate fresh water strata depths: Base 1050'KB (Map WV-12) Approximate salt water depths: Top 1650'KB (Map WV-12) Approximate salt water depths: Top 1650'KB (Map WV-12) Approximate coal seam depths: Solid - No Seams Operated 10) Does land contain coal seams tributary to active mine? Yes / No_X 11) Proposed Well Work: Drill and Stimulate New Well 12) CASING AND TUBING PROGRAM TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT Size Grade Weight For Left in Fill-up (cu.ft.) Conductor 16 LS 36.91 30 30 CTS Fresh Water Coal Coal Type Coal Intermediate 8 5/8 J55 24.0 2500 2600 CTS Production 5 1/2 J55 15.5 6478 6478 AS NEEDED Tubing 1.9 J55 2.76 - 6428 SIPHON Liners ### For Division of Oil and Gas Use Only	 Approxi Approxi Approxi Approxi Does la 	mate fresh mate salt mate coal s nd contain	water str water dept seam depth	rata depth hs: <u>Top 1</u>	.650'KB (Mar	WV-12)) WV-12)
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Size Grade Weight For Left in Fill-up (cu.ft.)	TYPE						
Conductor 16 LS 36.91 30 30 CTS Fresh Water Coal Freduction 5 1/2 J55 15.5 6478 6478 AS NEEDED Tubing 1.9 J55 2.76 - 6428 SIPHON Liners AC 3-/1-92 Note Recorded 9 for thru fresh water. Cockers: Kind Sizes Depths set For Division of Oil and Gas Use Only				T	FOOTAGE	INTERVALS	CEMENT
Tresh Water	Conduct	3126	Grade				
Coal Coal Figure 35		16	LS	36.91			
Intermediate							CIS
Production 5 1/2 J55 15.5 6478 6478 AS NEEDED Tubing 1.9 J55 2.76 - 6428 SIPHON Liners AC 3-/1-92 Note: Recommend 9 for thrus fresh water. **CKERS**: Kind_Sizes_Depths set							
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Tubing 1.9 J55 2.76 - 6428 SIPHON Liners @C 3-/1-92 Note: Recommend 9 for thru fresh water. ACKERS: Kind Sizes Depths set For Division of Oil and Gas Use Only		5 1/2	J55	15.5			
CKERS : Kind	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	1.9	The state of the s			6420	
ACKERS : KindSizesDepths setFor Division of Oil and Gas Use Only	Liners (A	C 3-11-92	Note: Re	command 9	88 thru fres	h water	SIPHON
Sizes	ACKERS : Ki	nd					
For Division of Oil and Gas Use Only	Si	zes					
	Dep	ths set					
		For I	Division o	of Oil and	Co		
	-						
Fee(s) paid:	_ Fee(s) pa	id: _	Well Work	Permit	Reclama	ation Fund	WDCD
_ Plat _ WW-9 _ WW-2B _ Bond Agent	_ Plat _	WW-9	_ WW-2B	Bond	l v	 	- MECE
Accord			•		(Ty	pe)	Agent

* E	RECEIVED	
	1 of 2 MAR II REC'D WW2-A OEPT. OF ENERGY	1) Date: March 6, 1992 2) Operator's well number Southern Land Co., et al #20, Serial #1401 3) API Well No: 47 - 005 - 1560 State - County - Permit
	DEPARTMENT OF ENER	F WEST VIRGINIA GY, DIVISION OF OIL AND GAS TION FOR A WELL WORK PERMIT
4)	Surface Owner(s) to be served (a) Name The Southern Land Co., e Address P.O. Box 1385 Charleston, WV 25325 (b) Name Address	d: 5) (a) Coal Operator: tal Name Perry & Hylton, Inc. Address P.O. Drawer AR Beckley, WV 25802-2840 (b) Coal Owner(s) with Declaration Name Same as No. 4(a) Address
	(c) NameAddress	NameAddress
6)	Inspector Richard S. Campbell Address Box 163 Hamlin, WV 25523 Telephone (304)-824-5828	Name Peabody/Eastern Associated Coal
Section I have	Included is the lease or least acts by which I hold the right Included is the information on 8(d) of the Code of West of the certify that as required under the served copies of this notice.	required by Chapter 22B, Article 1, Virginia (see page 2) nder Chapter 22B of the West Virginia Code ce and application, a location plat, and rough 2 on the above named parties, by: avit attached) ced postal receipt attached)
famil attac respo is tr	e terms and conditions of any I certify under penalty of laid iar with the information submitted with the information of any name of the information of the information of the information of the information, including the possible with the possibl	napter 22B and 38 CSR 11-18, and I agree y permit issued under this application. aw that I have personally examined and am mitted on this application form and all inquiry of those individuals immediately prmation, I believe that the information gnificant penalties for submitting false ility of fine and imprisonment. That Ashland Exploration, Inc. Mark Parks Operations Manager P.O. Box 391 Ashland, KY 41114
Subsc	Telephone ribed and sworn before me thi	606-329-5989

__Notary Public