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State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> 103 <u>02970</u> County Wetz	el D	istrict Grant	
Quad Pine Grove Pad Name PN	IG129 Fi	ield/Pool Name	
Farm name COASTAL LUMBER COMPANY	v	Vell Number 5143	84
Operator (as registered with the OOG) EQT Production	n Company		
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City F	Pittsburgh	State PA	Zip 15222
iddiess eng			F <u></u>
	rilled plat, profile view, and o		
Top hole Northing 4,378,114		g 530,867	
Landing Point of Curve Northing 4,377,815 Bottom Hole Northing 4,378,367		g 530,278 g 529,978	
Bottom Hole Northing 4,378,367	Eastin	g <u></u>	
Elevation (ft) 1330 GL Type of We	II ■New □ Existing	Type of Report	□Interim
ermit Type 🗆 Deviated 🗅 Horizontal 🗂 Hori	zontal 6A 🛛 Vertical	Depth Type	□ Deep
ype of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrilli	ng □ Rework	□ Stimulate
All The Control of th	Carandan Darama - Cala	wien Minine - Cae	
Vell Type □ Brine Disposal □ CBM ■ Gas □ Oil □	Secondary Recovery Soli	ition wining a Sto	rage Utner
ype of Completion Single Multiple Fluids Pro	oduced □ Brine ■Gas	■ NGL □ Oil	□ Other
rilled with Cable Rotary			
orilling Media Surface hole ■ Air □ Mud □Fresh	Water Intermediate ho	le ■ Air □ Mud	□ Fresh Water □ Brine
roduction hole □ Air ■ Mud □ Fresh Water □ B			
Aud Type(s) and Additive(s)			
Vater base Mud 14.0 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellul	ose, modified starch, sodium hydroxide, phos	phonates and alkyl phophates,	glutaraldehyde solution, calcium hydroxide,
artially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, q	ground walnut shells, alcohol and modified fa	atty acid, ferrochrome lignosuffe	onate, calcium carbonate, fibrous cellulose
rate permit issued 12/03/2013 Date drilling co	ommenced 12/11/2013	Date drilling c	eased 2/17/2014
ate completion activities began 9/16/2014	Date completion activi	ties ceased	9/20/2014
erbal plugging (Y/N) n/a Date permission gra	I	Granted by	n/a
land water Oncome to the first test to the first			
ease note: Operator is required to submit a plugging app	olication within 5 days of ver	bai permission to pi	ug
reshwater denth(s) ft 734'			N
20461 20051	Open mine(s) (Y/N) dep		
2001 2001 40001 40401 4000	_ Void(s) encountered (Y/	N) depths	N N
oal depth(s) ft683',965', 1035', 1042',1077'	_ Cavern(s) encountered (Y/N) depths	N .
coal being mined in area (Y/N)N	Received		
	Office of Oil & Ga	as	Reviewed by:
	•	~~	
	DEC 1 0 2014		01/23/20

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API 47- 103	02970	Farm n	_{ame} _C	OASTAL L	UMBEI	R COMP	PANY Wel	Il number_5	14384	· :
CASING STRINGS	Hole Size	Casing Size	n		ew or Jsed	Grade wt/ft		Basket Depth(s)		ment circulate (Y/N) ide details below*
Conductor	28"	26"		1	New		6#/ft	n/a		Υ
Surface	17-1/2"	13-3/8"			New		.5#/ft	106', 226'		Y
Coal	,,,,,,,									
Intermediate 1	12-3/8"	9-5/8"	34	100'	New	4	0#/ft	574', 954'		Y
Intermediate 2	12 0/0									
Intermediate 3										
Production	8-1/2"	5-1/2"	10	483'	New	2	0#/ft	N/A		N
Tubing	- "	<u> </u>							-	
Packer type and d	lepth set		L			<u> </u>				
CEMENT	Class/Type	Numb		Slurry		/ield	Volume		ment	woc
DATA Conductor	of Cement	of Sac	ks	wt (ppg)		1 ³ /sks)	(ft ^{.3}) 57.82		(MD) 0	(hrs) 8
Surface	Class A Class A	790		15.6 15.6		1.18 1.19	940		0	8
Coal	Class A	790		13.0	<u> </u>	1.13	340			
Intermediate 1	Class A	1191		15.6	<u> </u>	1.18	1405.4		0	8
Intermediate 2	Olass A	113		10.0		1.10	1400.4			
Intermediate 3		- 								-
Production	Class A/Class	H 880/3)5	15.2/15.6	1.0	8/1.86	1517.7	4!	505	8
Tubing				75.2.75.5						
Drillers TD (fi	t) 10,493°			Lo	ggers T	'D (ft) _N/	A			
Deepest forma	ation penetrated ocedure N/A	Marcellus		Plo	ug back	to (ft) <u>N/</u>	Α			
Kick off depth	ı (ft) <u>4505'</u>				_					
Check all wire	eline logs run	□ caliper □ neutron		•	deviat gamm	ed/directi a ray		induction temperature	□son	ic .
Well cored	Yes • No	□ Conventi	onal	□ Sidewall		W	ere cutting	s collected	■ Yes	□ No
		IZER PLACEM	ENT U	SED FOR E	ACH C	ASING S	TRING C	onductor-N/A		
Surface-bow spring centr Intermediate-bowspri		56', 2849', 2344', 1880',	1544', 1038	3', 532'						
Production-composite	e centralizer ran on eve	ry joint from td up to 333	4'							
WAS WELL	COMPLETED	AS SHOT HOL	E 0	Yes 🖪 No	DI	ETAILS				
WAS WELL (COMPLETED	OPEN HOLE?	□ Ye	s 🖪 No	DET	AILS _		Rece	ived	
WERE TRAC	ERS USED	Yes • No	TYI	PE OF TRAC	ER(S) (JSED _		DEC 1 0		78S

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Rev. 8/23/13		
API 47- 103 - 02970	Farm name COASTAL LUMBER COMPANY Well number 514384	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					See Attachment
-					
	-	· · · · · ·			
	-				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
								See Attachme
			<u>-</u> -					
		<u></u>						
<u> </u>								
			.,.					
			-					

Please insert additional pages as applicable. Received
Office of Oil & Gas

API 47- 103 - 0 PRODUCING FOI Marcellus	J. L. J. S.	Farm	name COASTAL	LUMBED	COMPANY					
7.07	MATION'S		-	LUMBER	COMPANY	Well	number		_	
Marcellus	CIVIA HONGS	<u>5)</u>	DEPTHS							
			7,281.80	_TVD	8,247	MD				
		_				_				
Please insert additi	onal nages as	annlicable		_						
			A Our Flam		OH TEST #	Elaw s	- Dumn			
GAS TEST 🗆 I					OIL TEST					
SHUT-IN PRESSU	JRE Surfa	ice 1,600	psi Botto	m Hole N	A psi	DURA'	TION C	OF TES	T 103	hrs
	Gas 124 mcfp	Oil od 0	bpd 0	bpd	Water 336 bpd	GAS N	MEASU mated			□ Pilot
LITHOLOGY/ FORMATION D	TOP EPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTO DEPTH IN	M FT DESCRIBE	ROCK TY	PE AND	RECOR	D QUAN	TITYAND
Tanana tanan	NAME TVD	TVD	MD	MD						GAS, H ₂ S, ETC)
	0		0							
				1					-	
				-					-	
									-	
								Rec	eiver	4
							Offic			R Gas
Please insert additi	onal pages as	applicable.								
Drilling Contractor	Savanna Dri	illing					l	DEC 1	U ZU	4
Address 2204 Timbe	erloch Place Su	ite 230	City	Woodland	s	State	TX	Zip	77380	
Logging Company	Hoss Co. Se	rvices LLC								
Address 614 Trotter	s Lane		City	Charlesto	n	State	WV	Zip	25312	
Cementing Compa	ny Halliburtor	n Eneray Serv	vices							
Address 121 Champ	ion Way		City	Canonsbu	rg	State	PA	Zip	15317	
		ornational Cor		-		_ , ,		- 53		
Stimulating Compa Address 301 East 18	any Frante 8th Street	amanonal Ser	City	Cisco	_	State	TX	7in	76437	
Please insert additi		applicable.	City			_ state	123	_ Zip		
					20.00	440.00=				
Completed by Ja Signature	Hes E. Heimic	JK JI.	Title Vi	ce Presider	Telephone t - Completions Op			2/0/2014		
oignature	1		ritte vi	-5 , resider	. Completions Of	Jordiiolia	Date _	LI 31 Z U 14		-

Formation Name	Final Top MD (ftGL) (ft)	Final Top TVD (ft)	Final Btm MD (ftGL) (ft)	Final Btm TVD (ft)
Fresh Water Zone	1	1	734	734
Sand / Shale	1	1	683	683
Coal	683	683	685	685
Sand / Shale	685	685	965	965
Coal	965	965	966	966
Sand / Shale	966	966	1,035.00	1,035.00
Coal	1,035.00	1,035.00	1,042.00	1,042.00
Sand / Shale	1,042.00	1,042.00	1,049.00	1,049.00
Coal	1,049.00	1,049.00	1,051.00	1,051.00
Sand / Shale	1,051.00	1,051.00	1,077.00	1,077.00
Coal	1,077.00	1,077.00	1,083.00	1,083.00
Sand / Shale	1,083.00	1,083.00	2,183.00	2,183.00
Maxton	2,183.00	2,183.00	2,419.00	2,419.00
Big Lime	2,419.00	2,419.00	2,658.00	2,657.90
Weir	2,658.00	2,657.90	2,856.00	2,855.90
Gantz	2,856.00	2,855.90	2,972.00	2,971.90
Fifty foot	2,972.00	2,971.90	3,045.00	3,044.90
Thirty foot	3,045.00	3,044.90	3,092.00	3,091.90
Gordon	3,092.00	3,091.90	3,212.00	3,211.90
Forth Sand	3,212.00	3,211.90	3,347.00	3,346.90
Bayard	3,347.00	3,346.90	3,763.00	3,762.90
Warren	3,763.00	3,762.90	3,889.00	3,888.90
Speechley	3,889.00	3,888.90	4,776.00	4,765.50
Riley	4,776.00	4,765.50	5,559.00	5,373.10
Benson	5,559.00	5,373.10	6,060.00	5,746.90
Alexander	6,060.00	5,746.90	7,790.00	7,043.40
Middlesex	7,790.00	7,043.40	7,847.00	7,082.20
Genesee	7,847.00	7,082.20	7,970.00	7,161.80
Geneseo	7,970.00	7,161.80	8,015.00	7,187.30
Tully	8,015.00	7,187.30	8,054.00	7,207.50
Hamilton	8,054.00	7,207.50	8,247.00	7,281.80
Marcellus	8,247.00	7,281.80	10,493.00	7,293.40

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514384 - 47-103-02970-0000 - Perforations										
Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation					
Initiation Sleeve	9/16/2014	10,458.00	10,461.00	10	MARCELLUS					
1	9/16/2014	10,277.00	10,414.00	32	MARCELLUS					
1.1 (Re-Perf)	9/16/2014	10,241.00	10,271.00	32	MARCELLUS					
2	9/16/2014	10,017.00	10,197.00	40	MARCELLUS					
3	9/17/2014	9,792.00	9,976.00	40	MARCELLUS					
3.1 (Re-Perf)	9/17/2014	9,792.00	9,976.00	24	MARCELLUS					
4	9/17/2014	9,567.00	9,749.00	40	MARCELLUS					
5	9/18/2014	9,342.00	9,524.00	40	MARCELLUS					
6	9/18/2014	9,117.00	9,299.00	40	MARCELLUS					
7	9/18/2014	8,892.00	9,074.00	40	MARCELLUS					
8	9/19/2014	8,667.00	8,849.00	40	MARCELLUS					
9	9/19/2014	8,442.00	8,622.00	40	MARCELLUS					
10	9/20/2014	8,353.00	8,433.00	40	MARCELLUS					

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Stage Number	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units			
Initiation Sleeve	9/16/2014	31.50	9,200.00	9,660.00	5,259	0	548	0			
1											
1.1 (Re-Perf)	9/16/2014	99.20	7,639.00	8,385.00	4,317	749,631	22,931	0			
2											
3	9/17/2014	99.10	7.989.00	8,842.00	4,612	376,572	11,488	0			
3.1 (Re-Perf)	3/17/2014	99.10	7,989.00	0,842.00	4,612	3/0,3/2	11,400	0			
4	9/17/2014	84.20	8,279.00	9,175.00	4,812	371,523	15,152	0			
5	9/17/2014	99.70	7,921.00	8,229.00	4,372	371,227	9,419	0			
6	9/18/2014	100.00	7,384.00	7,770.00	5,059	373,255	8,733	0			
7	9/18/2014	99.90	7,717.00	8,333.00	4,630	362,535	8,863	0			
Inj Test	9/19/2014	35.00	6,100.00	6,290.00	5,235	0	1,988	0			
8	9/19/2014	100.90	7,494.00	8,155.00	4,954	372,151	9,548	0			
9	9/20/2014	94.30	8,281.00	9,361.00	6,801	373,087	10,206	0			
10	9/20/2014	97.70	8,009.00	9,140.00	4,436	374,547	10,131	0			

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Hydraulic Fracturing Fluid Product Component Information Disclosure

9/16/2014	Job Start Date:
9/20/2014	Job End Date:
West Virginia	State:
Wetzel	County:
47-103-02970-00-00	API Number:
EQT Production	Operator Name:
PNG129 - 514384	Well Name and Number:
-80.64072500	Longitude:
39.55215300	Latitude:
NAD83	Datum:
NO	Federal/Tribal Well:
7,309	True Vertical Depth:
4,548,117	Total Base Water Volume (gal):
187,489	Total Base Non Water Volume:

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Hydraulic Fracturing Fluid Composition:

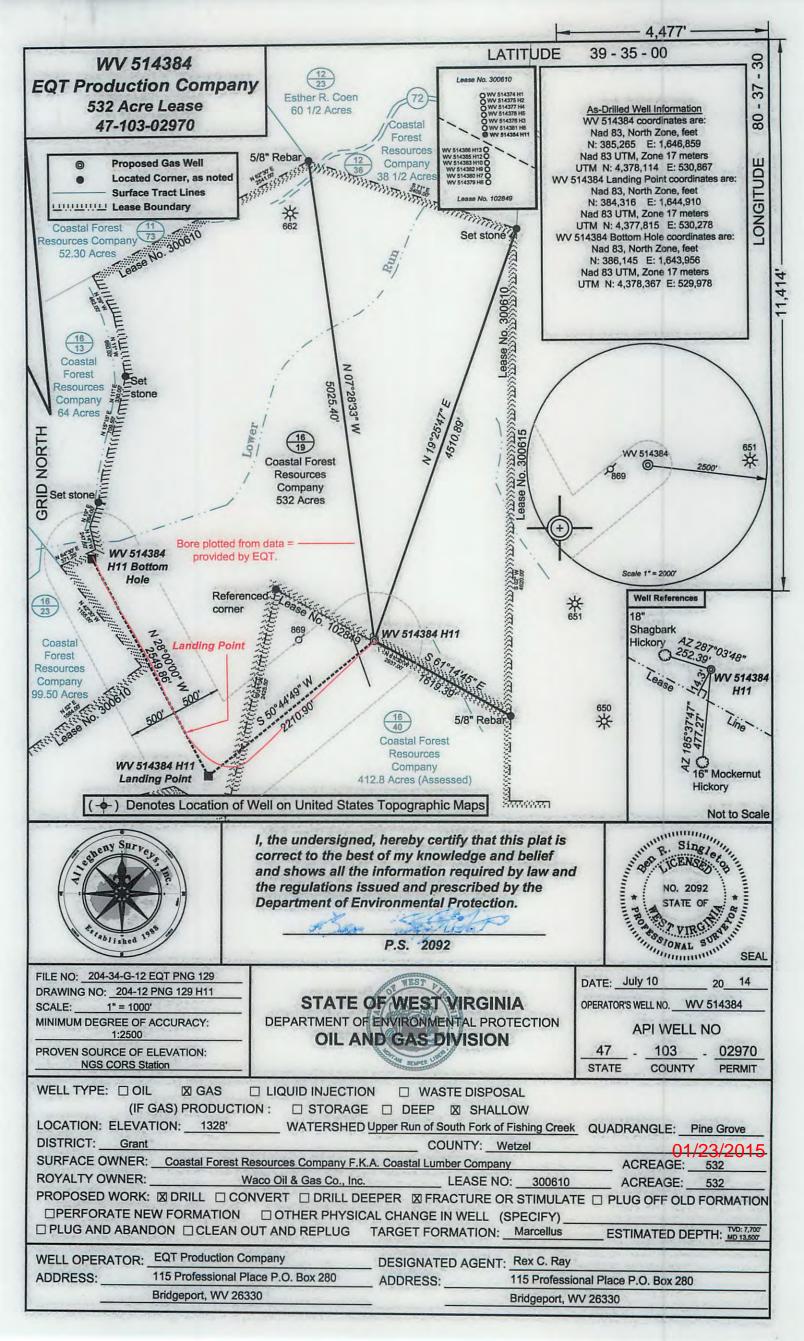
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTSI	Carrier					
	1.7		Water	7732-18-5	100.00000	90.66246	
Sand	FTSI	Proppant					
			Crystalline Silica	14808-60-7	100.00000	8.91296	
Hydrochloric Acid 15%	6 FTSI	Acidizing					
			Hydrochloric Acid	7647-01-0	15.00000	0.04161	
FRW-600	FTSI	Friction Reducer					
			Hydrotreated light distillate	64742-47-8	30.00000	0.02663	
			Ammonium acetate	631-61-8	6.00000	0.00533	
HVG-1	FTSI	Gel					
			Petroleum Distillate	64742-47-8	55.00000	0.00431	
			Guar Gum	9000-30-0	50.00000	0.00392	
			Surfactant	68439-51-0	2.00000	0.00016	
			Clay	14808-60-7	2.00000	0.00016	
B-10	FTSI	Buffer Agent					
			Potassium carbonate	584-08-7	48.00000	0.00531	
			Potassium hydroxide	1310-58-3	20.00000	0.00221	
ICI-3240	FTSI	Biocide					

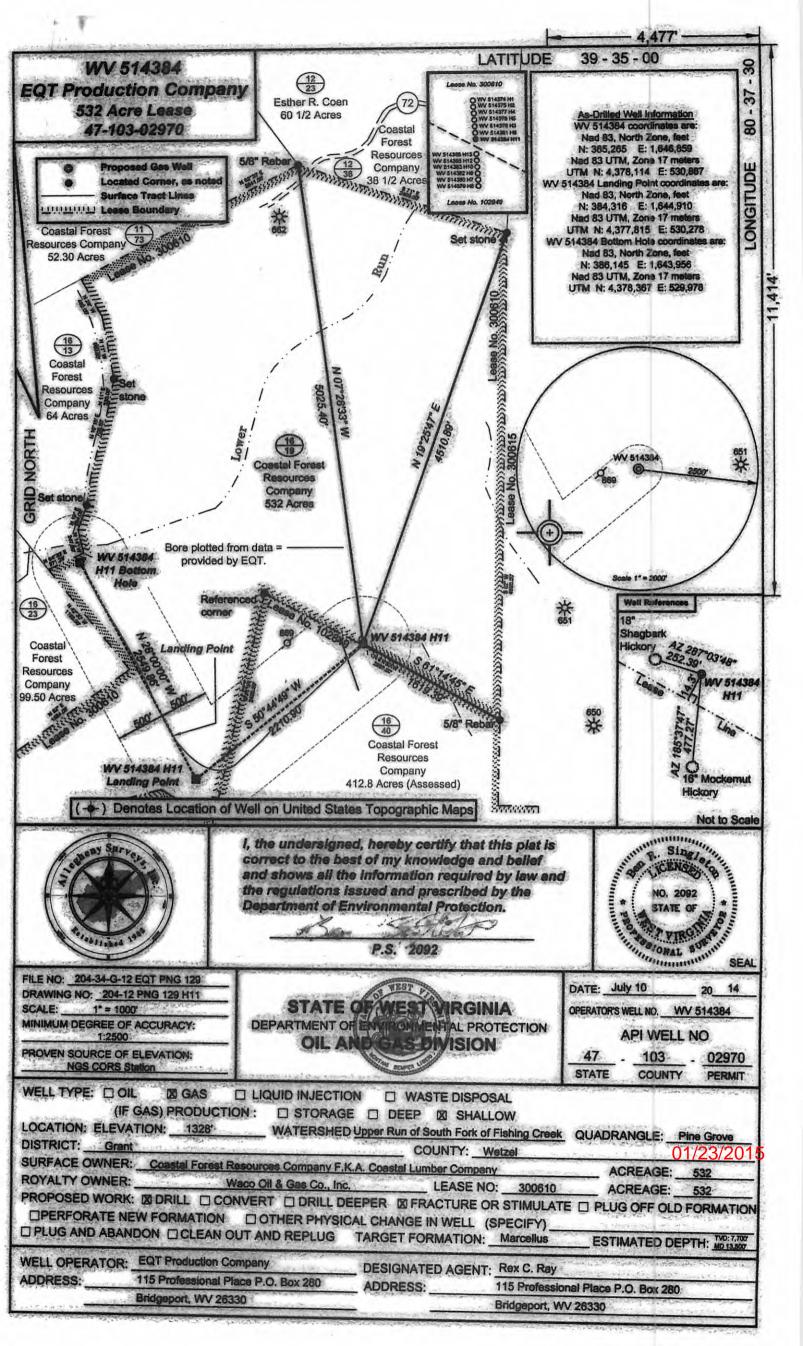
			Dazomet (Tetrahydro-3, 5- dimethyl-2H-1, 3, 5-thiadiazine-; -thione	533-74-4	24.00000	0.00275	
			Sodium Hydroxide	1310-73-2	4.00000	0.00046	
CS-500-SI	FTSI	Scale Inhibitor					
			Ethylene Glycol	107-21-1	10.00000	0.00256	
CIO2	Neptune	Biocide					
			Chlorine Dioxide	10049-04-4	100.00000	0.00071	
CI-150	FTSI	Corrosion Inhibitor					
			Ethylene Glycol	107-21-1	30.00000	0.00014	
			Isopropanol	67-63-0	30,00000	0.00014	
			Organic amine resin salt	Proprietary	30.00000	0.00014	
			Quaternary ammonium compound	Proprietary	10.00000	0.00005	
			Aromatic aldehyde	Proprietary	10.00000	0.00005	
			Dimethylformamide	68-12-2	10.00000	0.00005	
E-100L	FTSI	Iron Control					
			Citric Acid	77-92-9	55.00000	0.00050	
APB-1	FTSI	Gel Breaker					
			Ammonium Persulfate	7727-54-0	95.00000	0.00009	
NE-100	FTSI	Non-Emulsifier					
			2-Propanol	67-63-0	10.00000	0.00003	
			2-Butoxyethanol	111-76-2	10.00000	0.00003	
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00001	

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%





Well Operator's Report of Well Work



Well Number: 514384

API: 47 - 103 - 02970

Notes: Stimulation Notes:

Re-Perforated Stages: 1 (1.1), 3 (3.1)

Combined Stages: [1, 1.1, 2]

Performed additional injection test

prior to stage 8

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