

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

API 47-017-06503 County DODDRIDGE District Southwest
Quad OXFORD 7.5' Pad Name OXFORD 159 Field/Pool Name _____
Farm name JUSTIN L. HENDERSON ET AL Well Number 513153
Operator (as registered with the OOG) EQT Production Company
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,339,877.7 Easting 520,532.8
Landing Point of Curve Northing 4,340,087.7 Easting 520,447.2
Bottom Hole Northing 4,342,115.0 Easting 519,460.4

Elevation (ft) 1,252 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other w/o Flowback
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Water base Mud 12.5 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrocchrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 07/30/2014 Date drilling commenced 11/21/2014 Date drilling ceased 5/13/2015
Date completion activities began 6/28/2015 Date completion activities ceased 7/8/2015
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 264, 325, 411 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1312, 1379 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 256, 323, 484, 626, 742, 745 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
[Signature]

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API 47-017 - 06503 Farm name JUSTIN L. HENDERSON ET AL Well number 513153

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	40'	NEW	A-500 40LB/FT	NONE	Y
Surface	17.5"	13.375"	1,106'	NEW	J-55 54.5LB/FT	None	Y
Coal							
Intermediate 1	12.375"	9.625"	5,280'	NEW	P-110 40LB/FT	None	Y
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	14700	NEW	P-110 20LB/FT	NONE	N
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	38	15.6	1.18	44.84	0	8
Surface	CLASS A	926	15.6	1.20	1,111.2	0	8
Coal							
Intermediate 1	CLASS A / A / A	459 / 364 / 1,127	14.2 / 15.6 / 15.6	1.24 / 1.18 / 1.18	2,328.54	0	8
Intermediate 2							
Intermediate 3							
Production	Class A 50/50 POZ / H	555 / 995	14.2 / 15.2	1.26 / 1.97	2659.45	4300	8
Tubing							

Drillers TD (ft) 14720' Loggers TD (ft) 6778'
 Deepest formation penetrated Onondaga Plug back to (ft) 5,438 ft
 Plug back procedure Pumped isolation plug # 1 with 2 bbls H2O, 39.5 bbls of 14.2 ppg cmt, 1 bbls H2O, Trip out of hole to @ 5,580', Pump isolation plug # 2 with 1 bbls H2O, 39.5 bbls of 14.2 ppg cmt, 1 bbls H2O, Trip out of hole to @ 5,111', pump kickoff plug with 1 bbls H2O, 38.5 bbls Class A cmt (sks 193) at 1.12 yield, 16.0 ppg 20 bbls H2O, Trip out of hole

Kick off depth (ft) 5448'

Check all wireline logs run caliper density deviated/directional induction neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

CONDUCTOR- NONE
 SURFACE- JOINTS: 1,9,20
 INTERMEDIATE- RAN AT LEAST EVERY 500' FEET JOINTS: 1, 12, 24, 37, 50, 62, 74, 86, 98, 109, 121
 PRODUCTION- Ran 225 centralizers on every joint from 14699' to 5183'

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS OCT 08 2015

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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Farm name JUSTIN L. HENDERSON ET AL

Well number 513153

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please see attached

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)
						Please	see	attached
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Please insert additional pages as applicable.

API 47- 017 - 06503

Farm name JUSTIN L. HENDERSON ET AL

Well number 513153

PRODUCING FORMATION(S)

DEPTHS

MARCELLUS 6,735.60 TVD 6,996.00 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ Oil _____ NGL _____ Water _____ GAS MEASURED BY
 mcfpd bpd bpd bpd Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

Please insert additional pages as applicable.

Drilling Contractor ALPHA HUNTER DRILLING (RIG 5)
 Address P.O. BOX 430 City RENO State OH Zip 45773

Logging Company Vaughn Energy Services
 Address P.O. Box 261021 City Corpus Christi State TX Zip 78246-1021

Cementing Company Allied Services
 Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company FTS International
 Address 1432 Route 519 City Eighty Four State PA Zip 15330

Please insert additional pages as applicable.

Completed by Jim Helmick Telephone 412-395-5518
 Signature  Title VP Completions Date 10/7/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

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Drilling Contractor Patterson UTI
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Phoenix Technology Services
Address 1805 Brittmoore Road City Houston State TX Zip 77043

Logging Company Gyro Data Inc.
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company C & J Energy Services (Nabors)
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

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Well #513153 Final Formations				
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	411	411
SAND/SHALE	1	1	256	256
WASHINGTON COAL	256	256	258	258
SAND/SHALE	258	258	323	323
WAYNESBURG A COAL	323	323	325	325
SAND/SHALE	325	325	484	484
UNIONTOWN COAL	484	484	486	486
SAND/SHALE	486	486	626	626
SEWICKLEY	626	626	628	628
SAND/SHALE	628	628	742	742
REDSTONE COAL	742	742	743	743
SAND/SHALE	743	743	745	745
PITTSBURGH COAL	745	745	749	749
SAND/SHALE	749	749	2,030.00	2,029.80
BIG LIME	2,030.00	2,029.80	2,174.00	2,173.70
SAND/SHALE	2,174.00	2,173.70	2,323.00	2,322.70
WEIR	2,323.00	2,322.70	2,437.00	2,436.70
SAND/SHALE	2,437.00	2,436.70	2,531.00	2,530.60
GANTZ	2,531.00	2,530.60	2,608.00	2,607.60
50F	2,608.00	2,607.60	2,684.00	2,683.50
SAND/SHALE	2,684.00	2,683.50	2,730.00	2,729.50
30F	2,730.00	2,729.50	2,765.00	2,764.50
SAND/SHALE	2,765.00	2,764.50	2,779.00	2,778.50
GORDON	2,779.00	2,778.50	2,870.00	2,869.50
4TH SAND	2,870.00	2,869.50	3,051.00	3,050.40
BAYARD	3,051.00	3,050.40	3,151.00	3,150.30
SAND/SHALE	3,151.00	3,150.30	3,388.00	3,387.10
WARREN	3,388.00	3,387.10	3,447.00	3,446.10
SAND/SHALE	3,447.00	3,446.10	3,459.00	3,458.10
SPEECHLEY	3,459.00	3,458.10	3,703.00	3,701.90
SAND/SHALE	3,703.00	3,701.90	4,139.00	4,136.80
BALLTOWN A	4,139.00	4,136.80	4,253.00	4,250.30
SAND/SHALE	4,253.00	4,250.30	4,338.00	4,334.80
RILEY	4,338.00	4,334.80	4,484.00	4,480.00
SAND/SHALE	4,484.00	4,480.00	5,009.00	5,002.10
BENSON	5,009.00	5,002.10	5,049.00	5,041.90
SAND/SHALE	5,049.00	5,041.90	5,180.00	5,172.30
ALEXANDER	5,180.00	5,172.30	6,211.00	6,156.80
RHINESTREET UPPER	6,211.00	6,156.80	6,362.00	6,306.60
RHINESTREET	6,362.00	6,306.60	6,438.00	6,380.10
SONYEA	6,438.00	6,380.10	6,608.00	6,533.20
MIDDLESEX	6,608.00	6,533.20	6,662.00	6,575.80
GENESSEE	6,662.00	6,575.80	6,762.00	6,643.00
GENESEO	6,762.00	6,643.00	6,853.00	6,688.80
TULLY	6,853.00	6,688.80	6,908.00	6,710.50
HAMILTON	6,908.00	6,710.50	6,996.00	6,735.60
MARCELLUS	6,996.00	6,735.60		

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513153 - 47-017-06503-0000 - Stimulated Stages

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	6/28/2015	21.1	6,022.00	7,616.00	3,413.00	0	730	0
1	6/28/2015	90.1	7,625.00	7,995.00	3,373.00	299,172	7953	0
2	6/28/2015	90.1	7,707.00	8,471.00	3,557.00	305,528	7122	0
3	6/29/2015	89.4	7,805.00	8,952.00	4,323.00	303,185	6914	0
4	6/29/2015	91.9	8,161.00	8,722.00	4,915.00	302,774	7319	0
5	6/29/2015	42.9	7,246.00	9,285.00	4,437.00	0	2613	0
5.1	6/29/2015	54.2	8,824.00	9,144.00	6,792.00	0	4241	0
6	6/29/2015	93.3	7,873.00	8,673.00	3,305.00	505,763	10558	0
7	6/30/2015	91.9	8,119.00	9,109.00	4,423.00	259,547	6854	0
8	6/30/2015	92.4	8,082.00	8,570.00	3,906.00	298,911	7119	0
9	6/30/2015	86.5	8,113.00	8,888.00	4,581.00	241,206	8141	0
10	6/30/2015	93.6	8,071.00	8,553.00	4,209.00	305,354	7026	0
11	7/1/2015	93.4	7,885.00	8,832.00	4,734.00	303,701	8062	0
12	7/1/2015	93.2	7,854.00	9,131.00	5,289.00	297,394	7246	0
13	7/1/2015	90.7	8,013.00	8,985.00	4,965.00	299,321	6914	0
14	7/2/2015	88.2	7,914.00	9,664.00	4,023.00	286,695	7335	0
15	7/2/2015	95.1	8,049.00	9,433.00	4,571.00	250,032	8115	0
16	7/3/2015	78.3	7,298.00	8,179.00	5,071.00	248,179	8296	0
17	7/3/2015	90.1	7,780.00	9,111.00	5,031.00	297,883	6489	0
18	7/4/2015	88.7	7,355.00	8,101.00	5,227.00	301,213	7956	0
19	7/4/2015	82.3	7,755.00	8,311.00	4,706.00	265,680	7857	0
20	7/5/2015	95	7,862.00	8,755.00	4,753.00	299,191	7,135	0
21	7/5/2015	78.60	7,914.00	9,470.00	4,863	288,528	9,555	0
21.01	7/5/2015	18.50	5,618.00	5,734.00	0	0	1,205	0
22	7/6/2015	90.60	7,892.00	9,132.00	5,137	281,256	6,684	0
23	7/6/2015	84.30	7,765.00	8,464.00	4,198	301,405	7513	0
24	7/6/2015	82.80	7,612.00	9,336.00	4,641	300,827	8605	0
25	7/6/2015	95.6	8,120.00	8,879.00	4,912.00	289,826	7693	0
26	7/6/2015	91.5	8,007.00	9,464.00	4,957.00	299,615	6987	0
27	7/6/2015	100.00	7,561.00	7,893.00	5,018	300,807	6,488	0
28	7/7/2015	98.50	7,593.00	7,910.00	5,146	301,263	6,558	0
29	7/7/2015	100.10	7,827.00	9,036.00	4,864	307,246	8,180	0
30	7/7/2015	90.20	8,014.00	9,123.00	5,008	303,464	7,403	0
31	7/7/2015	86.20	7,868.00	9,121.00	3,920	302,117	7,228	0
32	7/7/2015	79.70	7,535.00	9,006.00	4,782	247,485	6,296	0
32.01	7/8/2015	7.40	3,924.00	6,490.00	0	0	1,568	0
33	7/8/2015	90.30	7,897.00	8,750.00	4,648	305,033	7,637	0
34	7/8/2015	91.10	7,803.00	7,907.00	5,090	297,995	7,203	0
35	7/8/2015	94.90	7,381.00	7,754.00	4,900	298,352	6,693	0
36	7/9/2015	75.10	7,653.00	9,124.00	5,018	279,294	8,080	0
36.01	7/9/2015	10.10	4,523.00	6,316.00	0	0	1,050	0
37	7/9/2015	97.20	7,429.00	7,665.00	5,421	301,081	6,972	0
38.01	7/9/2015	16.20	6,032.00	7,003.00	5,152	0	2,421	0
38	7/10/2015	96.10	7,675.00	9,822.00	4,649	283,584	9,826	0
38.02	7/10/2015	8.30	5,862.00	6,894.00	0	0	2,642	0
39	7/10/2015	93.80	7,118.00	8,153.00	5,060	292,642	6,720	0
40	7/10/2015	88.10	7,248.00	7,927.00	5,570	252,845	6,138	0
41	7/11/2015	91.00	7,152.00	8,119.00	5,443	262,809	6,364	0
42	7/11/2015	98.60	7,330.00	7,607.00	5,725	302,083	7,056	0

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513153 - 47-017-06503-0000 - Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
Initiation Sleeve	6/28/2015	14,698.50	14,700.00	10	MARCELLUS
1	6/28/2015	14,545.00	14,674.00	7	MARCELLUS
2	6/28/2015	14,365.00	14,487.00	7	MARCELLUS
3	6/29/2015	14,185.00	14,304.00	7	MARCELLUS
4	6/29/2015	14,005.00	14,127.00	7	MARCELLUS
5	6/29/2015	13,827.00	13,947.00	7	MARCELLUS
5.1	6/29/2015	13,800.00	13,820.00	7	MARCELLUS
6	6/29/2015	13,645.00	13,768.00	7	MARCELLUS
7	6/30/2015	13,465.00	13,587.00	7	MARCELLUS
8	6/30/2015	13,285.00	13,407.00	7	MARCELLUS
9	6/30/2015	13,105.00	13,227.00	7	MARCELLUS
10	6/30/2015	12,925.00	13,045.00	7	MARCELLUS
11	7/1/2015	12,745.00	12,864.00	7	MARCELLUS
12	7/1/2015	12,568.00	12,687.00	7	MARCELLUS
13	7/1/2015	12,385.00	12,507.00	7	MARCELLUS
14	7/2/2015	12,205.00	12,327.00	7	MARCELLUS
15	7/2/2015	12,025.00	12,147.00	7	MARCELLUS
16	7/3/2015	11,845.00	11,967.00	7	MARCELLUS
17	7/3/2015	11,665.00	11,785.00	7	MARCELLUS
18	7/3/2015	11,485.00	11,607.00	7	MARCELLUS
19	7/4/2015	11,305.00	11,427.00	7	MARCELLUS
20	7/4/2015	11,125.00	11,247.00	7	MARCELLUS
21	7/5/2015	10,945.00	11,067.00	7	MARCELLUS
22	7/5/2015	10,765.00	10,887.00	7	MARCELLUS
23	7/6/2015	10,585.00	10,707.00	7	MARCELLUS
24	7/6/2015	10,405.00	10,525.00	7	MARCELLUS
25	7/6/2015	10,225.00	10,344.00	7	MARCELLUS
26	7/6/2015	10,045.00	10,167.00	7	MARCELLUS
27	7/6/2015	9,868.00	9,987.00	7	MARCELLUS
28	7/7/2015	9,685.00	9,807.00	7	MARCELLUS
29	7/7/2015	9,505.00	9,627.00	7	MARCELLUS
30	7/7/2015	9,325.00	9,449.00	7	MARCELLUS
31	7/7/2015	9,147.00	9,267.00	7	MARCELLUS
32	7/7/2015	8,963.00	9,085.00	7	MARCELLUS
33	7/8/2015	8,785.00	8,905.00	7	MARCELLUS
34	7/8/2015	8,605.00	8,727.00	7	MARCELLUS
35	7/8/2015	8,425.00	8,547.00	7	MARCELLUS
36	7/9/2015	8,245.00	8,368.00	7	MARCELLUS
37	7/9/2015	8,065.00	8,187.00	7	MARCELLUS
38	7/9/2015	7,885.00	8,007.00	7	MARCELLUS
38.1	7/9/2015	7,865.00	7,877.00	7	MARCELLUS
39	7/10/2015	7,685.00	7,807.00	7	MARCELLUS
40	7/10/2015	7,505.00	7,627.00	7	MARCELLUS
41	7/11/2015	7,325.00	7,447.00	7	MARCELLUS
42	7/11/2015	7,145.00	7,267.00	7	MARCELLUS

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/28/2015
Job End Date:	7/8/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06503-00-00
Operator Name:	EQT Production
Well Name and Number:	513153
Longitude:	-80.76235400
Latitude:	39.20784100
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,736
Total Base Water Volume (gal):	13,555,920
Total Base Non Water Volume:	0

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FIS International	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.84802	None
Sand (Proppant)	FIS International	Proppant	Crystalline Silica	14808-60-7	100.00000	9.58673	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05899	None
Hydrochloric Acid (15%)	FIS International	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.04335	None
FRW-900	FIS International	Friction reducer	Hydroreated light distillate	84742-47-8	30.00000	0.02529	None
			Alkyl Alcohol	Proprietary	10.00000	0.00843	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00421	None
CS-500-SI	FIS International	Scale inhibitor	Ethylene glycol	107-21-1	10.00000	0.00845	None
HVG-1	FIS International	Gelling agent	Petroleum distillate	84742-47-8	55.00000	0.00281	None
			Guar gum	9000-30-0	50.00000	0.00256	None
			Surfactant	88439-51-0	2.00000	0.00010	None

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APB-1	FTS International	Breaker	Clay	14808-60-7	2.00000	0.00010	None
			Ammonium persulfate	7727-54-0	95.00000	0.00152	None
FE-100L	FTS International	Iron control	Citric acid	77-92-9	55.00000	0.00086	None
CI-150	FTS International	Acid Corrosion Inhibitor	Ethylene glycol	107-21-1	30.00000	0.00016	None
			Isopropanol	67-63-0	30.00000	0.00016	None
			Organic amine resin salt	Proprietary	30.00000	0.00016	None
			Dimethylformamide	68-12-2	10.00000	0.00005	None
			Aromatic aldehyde	Proprietary	10.00000	0.00005	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00005	None
NE-100	FTS International	Non-emulsifier	2-Propanol	67-63-0	10.00000	0.00003	None
			2-Butoxyethanol	111-76-2	10.00000	0.00003	None
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00002	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* 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%

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)

Foran
Office of Oil & Gas
OCT 08 2015

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 513153

API: 47 - 071 - 06503

Submission: Initial Amended

Notes: w/o Flowback

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