

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

API 47 - 051 - 01779 County Marshall District Washington
Quad Moundsville Pad Name Curry Field/Pool Name _____
Farm name Curry Well Number 2H
Operator (as registered with the OOG) Chevron Appalachia, LLC
Address 800 Mountain View Drive City Smithfield State PA Zip 15478

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 515847.747 Easting 1641350.660
Landing Point of Curve Northing 514197.920 Easting 1640640.720
Bottom Hole Northing 507541.610 Easting 1645744.950

Elevation (ft) 1317' 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 _____
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)
Synthetic - Barite, Surfactant, Calcium Chloride

Date permit issued 1/14/2015 Date drilling commenced 3/16/2015 Date drilling ceased 11/21/2015
Date completion activities began 4/19/2016 Date completion activities ceased 9/13/2016
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 1/2" stream @ 355' GL per mudlog Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 819' GL per mud log Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) No, it is in the sealed and abandoned Alexander Mine

APPROVED

NAME: Jim Unkles
DATE: 1/27/17

Reviewed by:

[Signature]

Office of Oil and Gas

OCT 14 2016

Office of Oil and Gas

API 47-051 - 01779

Farm name Curry

Well number 2H

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	36"	30"	80'	New	X-42; 118.76		Y
Surface	26"	20"	542'	New	J-55; 94		Y
Coal	17 1/2"	13 3/8"	898'	New	J-55; 54.50	803'	N *Performed remedial grout job; cement to surface*
Intermediate 1							
Intermediate 2	12 1/4"	9 5/8"	2175'	New	J-55; 40		Y
Intermediate 3							
Production	8 1/2"	5 1/2"	15931'	New	P-110; 20		N *Lost circulation; Saw spacer returns at surface*
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	Bulk	81					
Surface	Class A	962	15.6	1.20	1154	Surface	8
Coal	Class A	2288	15.6	1.20	2746	Surface	8
Intermediate 1							
Intermediate 2	Class A	767	15.6	1.19	913	Surface	8
Intermediate 3							
Production	Class G	3510	15.2	1.11	3896	2868' GL	8
Tubing							

Drillers TD (ft) 15955' MD GL (8671' TVD GL)

Loggers TD (ft) 15955' MD GL (8671' TVD GL)

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5,044' MD GL (5041' TVD GL)

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 Bow spring centralizer every joint on the water string, a bow spring centralizer every two joints for the coal and intermediate strings, and the production string has a centralizer every joint in the lateral and curve, then one every two joints from KOP to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS See attached perforation and stimulation reports

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API: 47-051-01779	Well Name: Curry	Well Number: 2H
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	5/9/2016	15694	15856	60	Marcellus
1B	5/10/2016	15694	15674	72	Marcellus
2	5/10/2016	15637	15414	50	Marcellus
3	5/11/2016	15374	15138	50	Marcellus
4	5/11/2016	15098	14854	50	Marcellus
5	5/12/2016	14816	14574	50	Marcellus
6	5/12/2016	14536	14294	50	Marcellus
7	5/13/2016	14254	14010	50	Marcellus
8	5/13/2016	13981	13734	50	Marcellus
9	5/16/2016	13696	13454	50	Marcellus
10	5/17/2016	12416	13174	50	Marcellus
11	5/17/2016	13136	12889	50	Marcellus
12	5/18/2016	12860	12614	50	Marcellus
13	5/18/2016	12576	12334	50	Marcellus
14	5/19/2016	12296	12054	50	Marcellus
15	5/20/2016	12016	11770	50	Marcellus
16	5/20/2016	11741	11494	50	Marcellus
17	5/23/2016	11456	11214	50	Marcellus
18	5/23/2016	11176	10934	50	Marcellus
19	5/24/2016	10896	10651	50	Marcellus
20	5/24/2016	10612	10415	50	Marcellus
21	5/25/2016	10095	10094	50	Marcellus
22	5/25/2016	10056	9814	50	Marcellus
23	5/26/2016	9776	9533	50	Marcellus
24	5/26/2016	9494	9492	50	Marcellus
25	5/27/2016	8975	8974	50	Marcellus
26	5/27/2016	8936	8694	50	Marcellus
27	5/30/2016	8415	8414	50	Marcellus
28	5/30/2016	8376	8138	50	Marcellus
29	5/31/2016	8098	7854	50	Marcellus
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					

Please insert additional copies of this page if additional rows/stages are needed.

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 Department of
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API: 47-051-01779	Well Name: Curry	Well Number: 2H
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STIMULATION INFORMATION / STAGE								
Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).								
Stg No.	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)
1	5/9/2016	50	9026	6120	5094	2000	2187	n/a
1B	5/10/2016	70	9164	6150	3966	488400	12079	n/a
2	5/10/2016	86	9104	5977	4489	427600	9754	n/a
3	5/11/2016	82	9117	6300	4689	490660	10315	n/a
4	5/11/2016	81	9099	6057	4689	490620	10298	n/a
5	5/12/2016	83	9091	6137	4689	492040	10330	n/a
6	5/12/2016	87	9010	5737	4569	491340	10403	n/a
7	5/13/2016	79	9065	6268	4208	491500	10337	n/a
8	5/13/2016	82	9083	5827	4649	488640	10180	n/a
9	5/16/2016	87	9023	5651	4288	490640	10284	n/a
10	5/17/2016	81	9151	6662	4570	490900	10057	n/a
11	5/17/2016	93	8882	6285	4731	491300	11567	n/a
12	5/18/2016	96	8758	5975	4689	490220	10183	n/a
13	5/18/2016	96	8733	6184	5131	491660	10445	n/a
14	5/19/2016	96	8741	6266	4350	489200	10192	n/a
15	5/20/2016	96	8700	6305	4731	489840	10259	n/a
16	5/20/2016	97	8353	6181	3965	439430	9229	n/a
17	5/23/2016	97	8678	6261	4811	491900	10082	n/a
18	5/23/2016	94	8981	6584	4689	490880	12864	n/a
19	5/24/2016	97	8169	5962	4569	489980	9871	n/a
20	5/24/2016	93	8138	6692	4731	490360	9974	n/a
21	5/25/2016	98	8128	6333	4891	489680	9999	n/a
22	5/25/2016	98	8165	6517	4731	491320	9804	n/a
23	5/26/2016	98	8219	6638	4731	490280	9881	n/a
24	5/26/2016	97	8708	6462	4731	490840	9708	n/a
25	5/27/2016	98	8650	6278	4449	490040	9812	n/a
26	5/27/2016	98	7889	5746	4448	490340	9800	n/a
27	5/30/2016	97	8520	6220	4567	490169	9759	n/a
28	5/30/2016	98	8304	6440	4731	489420	9772	n/a
29	5/31/2016	98	8457	5817	4408	489220	9741	n/a
30								
31								
32								
33								
34								
35								
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37								
38								
39								

OCT 14 2016

API 47- 051 - 01779 Farm name Curry Well number _____

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
	TVD	MD
Marcellus /S2B	6557	7382

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

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
SLTS / SS	90	500	90	500	Lithologies are taken from mudlog KB (15' above GL)
LS / SLTS	500	700	500	700	
LS	700	834	700	834	
Coal	834	850	834	850	
LS / SLTST	850	944	850	944	
Speechley Sands	3435	3470	3435	3470	SS, SLTST
SLTST/SH	3470	5650	3470	5650	SLTST, SS, SH
SH	5565	6312	5650	6784	
Middlesex	6312	6403	6784	6945	SH, drk gry mgry
Burkett	6403	6414	6945	6966	
Tully	6414	6450	6966	7038	
S5 - Hamilton	6450	6539	7038	7290	SH
S3	6539	6555	7290	7368	SH, tr LS

Please insert additional pages as applicable.

Drilling Contractor See Attached
Address _____ City _____ State _____ Zip _____

Logging Company Stratagraph NE Inc.
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company Baker Hughes
Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056

Stimulating Company Schlumberger Technology Corp
Address 4600 J Barry Court, Suite 200 City Canonsburg State PA Zip 15307

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 724-564-3721
Signature  Title Regulatory Compliance Team Lead Date 10/11/2016

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

7 of 8

Lithology/Formation	Top TVD	Bottom TVD	TOP MD	Bottom MD	Type of Rock
Stafford / Cherry Valley	6555	6555	7368	7382	LS, SH
Lower Marcellus / S2B	6557	---	7382	---	SH drk gry, tr LS

API: 47-051-01779	Well Name: Curry	Well Number: 2H
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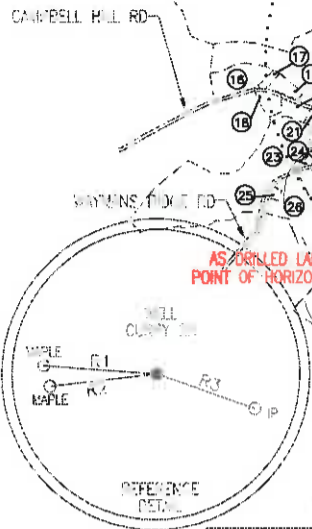
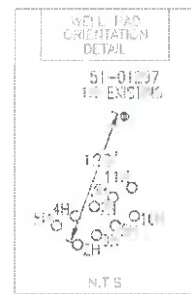
DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling, LLC	Name Nabors Drilling, USA
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Oklahoma City, OK 73127

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 Wyoming Department of
 Energy and Environmental Affairs

Well is located on topo map 2,269 feet south of Latitude: 39° 55' 00"

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

AS DRILLED PLAT



LINE	BEARINGS	DISTANCE
R1	N 35° 25' 11" W	271.64'
R2	S 33° 29' 00" W	223.17'
R3	S 71° 11' 10" E	315.02'
R4	S 30° 00' 32" E	1,511.31'
R5	S 8° 35' 18" E	1712.01'
R6	S 30° 21' 03" E	2,370.32'

NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
- There are no native trout streams within 300' of proposed well.
- Proposed well is greater than 1000' from surface groundwater intake or public water supply.
- It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

PERMITTED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4417807.770
E:528524.829
NAD83, WV NORTH
N:515647.747
E:1641350.660

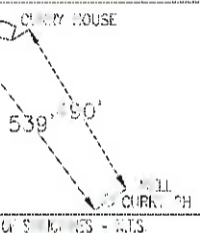
AS DRILLED SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4417807.770
E:528524.829
NAD83, WV NORTH
N:515647.747
E:1641350.660

PERMITTED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4417377.19
E:528305.63
NAD83, WV NORTH
N:514246.833
E:1640607.733

AS DRILLED APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4417362.46
E:528315.93
NAD83, WV NORTH
N:514197.920
E:1640640.720

PERMITTED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415359.90
E:529903.97
NAD83, WV NORTH
N:507541.389
E:1645741.988

AS DRILLED BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4415359.90
E:529904.86
NAD83, WV NORTH
N:507541.610
E:1645744.950



DATE: MARCH 25, 2016
OPERATOR'S WELL #: CURRY 2H - AS-DRILLED
API WELL #: 47 51 01779
STATE COUNTY PERMIT

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1317.13'
COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'
SURFACE OWNER: JAMES E. CURRY ACREAGE: 45.01±
OIL & GAS ROYALTY OWNER: JAMES E. CURRY ACREAGE: 661.500±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

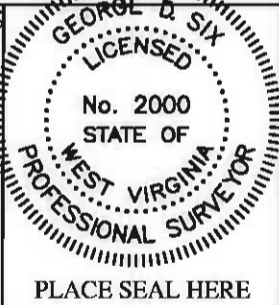
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,705'± TMD: 15,987'±
WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

FILE #: CURRY 2H - AS-DRILLED
DRAWING #: CURRY 2H - AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*

R.P.E.: _____ L.L.S.: P.S. No. 2000



Well is located on topo map 11,452 feet west of Longitude: 80° 37' 30"

CURRY

2H

PAGE 2 OF 2

	LESSOR	DIST-TM/PAR
A	JAMES E. CURRY	14-10/15
B	JOSEPH M. & TAMARA L. CROW	14-10/17
C	PATRICIA S. HOSKINS ET AL	14-11/8.7
D	PATRICIA S. HOSKINS ET AL	14-11/8
E	RAYMOND E. & CAROLYN S. FRANKLIN	14-11/9
F	PATRICIA S. HOSKINS ET AL	14-11/8.10
G	RAY STOLLAR	15-16/1
H	AARON R. SR. & JANNA K. PARRY	15-16/7
J	DWAIN E. GLOVER	15-16/12

PERMITTED
SURFACE HOLE LOCATION (SHL)

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N:4417807.770
E:528524.829

NAD83, WV NORTH
N:515647.747
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N:4417807.770
E:528524.829

NAD83, WV NORTH
N:515647.747
E:1641350.660

	SURFACE OWNER	DIST-TM/PAR
1	DENNIS & MICHELLE S. BLAKE	14-10/11.3
2	JAMES E. BLAKE	14-10/11.1
3	JOHN J. II & JENNA E. HART	14-10/11
4	JOHN J. & RENEE A. HART	14-10/19.1
5	JOHN J. & RENEE A. HART	14-10/19
6	JOHN A. BIERCE II ET UX	15-15/3
7	JOHN J. HART ET UX	14-10/18
8	JOHN J. HART ET UX	14-10/14
9	JAMES E. CURRY	14-10/13
10	DENNIS BLAKE ET UX	14-10/12
11	MICHAEL T. DAVIS	14-10/9
12	FREDA ELIZABETH BLAKE	14-10/9.1
13	DAVID L. BLAKE	14-10/8.2
14	JAMES E. CURRY	14-10/15
15	JOSEPH MICHAEL CROW	14-10/16
16	RICHARD E. HITT	14-10/8.3
17	VALLIE JAMES WEST	14-10/8
18	DENNIS CLYDE FISHER	14-11/18
19	VALLIE JAMES WEST	14-10/8.1
20	DENNIS C. FISHER ET UX	14-11/6.4
21	DAVID E. HILL ET UX	14-11/6.10
22	DAVID E. HILL ET UX	14-11/7
23	ILA F. MOORE ET AL	14-11/6
24	ROBERT H. BOWMAN JR.	14-11/8.1
25	RONALD R. & NITA L. ADKINS	14-11/6.9
26	JASON W. & AMANDA K. JOHNSON	14-11/6.5
27	MARY V. JAKO ET AL	14-11/8.2
28	JOHN J. & BELINDA R. BAKER	14-11/8.8
29	RICHARD W. HYETT ET UX	14-11/17
30	RICHARD W. HYETT ET UX	14-11/8.4
31	JOSEPH MICHAEL CROW ET UX	14-10/17
32	RICHARD W. HYETT ET UX	14-11/8.3
33	PATRICIA SUE HOSKINS	14-11/8.6
34	DEBRA J. & RICHARD L. WAYT JR.	14-11/8.5
35	GREGORY SCOTT MCDONALD ET UX	14-11/8.9
36	DAVID E. FRANKLIN	14-11/8.7
37	DAVID LAWRENCE WILSON ET UX	14-11/8
38	RAYMOND EUGENE FRANKLIN ET UX	14-11/9
39	DAVID L. WILSON ET UX	14-11/8.10
40	VERNON KNOX JR. ET UX	15-15/2
41	VERNON KNOX JR. ET UX	15-15/1
42	RONALD A. STOLLAR	15-16/1
43	DWAIN E. GLOVER	15-16/12
44	ANTHONY T. & ABBY Q. GEHO	15-16/3.1
45	DONNA M. GEHO - LIFE	15-16/3
46	AARON R. SR. & JANNA K. PARRY ET AL	15-16/7
47	DWAYNE A. BONDS JR.	15-16/10
48	DWAIN E. GLOVER	15-16/11

PERMITTED
APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4417377.19
E:528305.63

NAD83, WV NORTH
N:514246.833
E:1640607.733

AS DRILLED
APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4417362.46
E:528315.93

NAD83, WV NORTH
N:514197.920
E:1640640.720

PERMITTED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4415359.90
E:529903.97

NAD83, WV NORTH
N:507539.389
E:1645741.998

AS DRILLED
BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4415359.90
E:529904.86

NAD83, WV NORTH
N:507541.610
E:1645744.950

MARCH 25, 2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	5/11/2016
Job End Date	5/31/2016
State	West Virginia
County	Marshall
API Number	47-051-01779-00-00
Operator Name	Chevron USA Inc.
Well Name and Number	Curry 2H
Latitude	39.90987650
Longitude	-80.66626658
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	6,615
Total Base Water Volume (gal)	12,213,868
Total Base Non Water Volume.	0



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	Schlumberger	N/A					
			Water (Including Mix Water Supplied by Client)*	7732-18-5		87.70245	
M300	Schlumberger	Myacide TS GA 25					
				Listed Below			

Submitted 7/28/16

H315	Schlumberger	Acid									
						Listed Below					
S100	Schlumberger	Fluid Loss Additive									
						Listed Below					
U042	Schlumberger	Chelating Agent									
						Listed Below					
L058	Schlumberger	Iron Control Agent									
						Listed Below					
J580	Schlumberger	Gelling Agent									
						Listed Below					
J134	Schlumberger	Breaker									
						Listed Below					
A264A	Schlumberger	Corrosion Inhibitor									
						Listed Below					
B317	Schlumberger	Scale Inhibitor									
						Listed Below					
S012-4070	Schlumberger	Propping Agent									
						Listed Below					

B466	Schlumberger	Moderate Salinity Friction Reducer		Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.								
		Quartz, Crystalline silica	14808-60-7	98.72698	12.14100			
		Hydrochloric acid	7647-01-0	0.54718	0.06729			
		2-Propenoic acid, ammonium salt, polymer with 2-propenamide, sodium salt	910644-97-2	0.20199	0.02484			
		Distillates, petroleum, hydrotreated light	64742-47-8	0.18703	0.02300			
		Glutaraldehyde	111-30-8	0.11183	0.01375			
		Ammonium sulfate	7783-20-2	0.08229	0.01012			
		Tetrasodium ethylenediaminetetraacetate	64-02-8	0.06780	0.00834			
		Ammonium acetate	631-61-8	0.04489	0.00552			
		Alcohols, C10-16, ethoxylated	68002-97-1	0.02725	0.00335			
		Alcohols, C12-C14, ethoxylated	68439-50-9	0.02693	0.00331			
		Alcohols, C12-C16, ethoxylated	68551-12-2	0.02693	0.00331			
		Sodium thiosulphate	7772-98-7	0.02244	0.00276			
		Sorbitan monooleate	1338-43-8	0.02244	0.00276			
		Guar gum	9000-30-0	0.02230	0.00274			
		Ethanol, 2,2',2''-nitrotris-, 1,1',1''-tris (dihydrogen phosphate), sodium salt	68171-29-9	0.01845	0.00227			
		Ethoxylated oleylamine	26635-93-8	0.01122	0.00138			
		Trisodium ortho phosphate	7601-54-9	0.00811	0.00100			

				68071-95-4	0.00636	0.00078	
			Quaternary ammonium compounds, ethylbis (hydroxyethyl)tallow alkyl, ethoxylated, Et sulfates (salts)				
			Sodium Glycolate (impurity)	2836-32-0	0.00550	0.00068	
			Sodium erythorbate	6381-77-7	0.00421	0.00052	
			Methanol	67-56-1	0.00280	0.00034	
			Ethylene Glycol	107-21-1	0.00231	0.00028	
			Sodium hydroxide	1310-73-2	0.00183	0.00023	
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00183	0.00023	
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00183	0.00023	
			Reaction product of: acetophenone, formaldehyde, cyclohexylamine, methanol and acetic acid	224635-63-6	0.00116	0.00014	
			Trisodium nitrotriacetate (impurity)	5064-31-3	0.00092	0.00011	
			Lactose	63-42-3	0.00082	0.00010	
			Propan-2-ol	67-63-0	0.00075	0.00009	
			Cinnamaldehyde	104-55-2	0.00064	0.00008	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.00048	0.00006	
			Acetic acid(impurity)	64-19-7	0.00012	0.00002	
			Acetophenone	98-86-2	0.00012	0.00001	
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00010	0.00001	
			Formaldehyde (impurity)	50-00-0	0.00008	0.00001	
			2-Propenamid (impurity)	79-06-1	0.00007	0.00001	
			Non-crystalline silica (impurity)	7631-86-9	0.00006	0.00001	
			Maltodextrin	9050-36-6	0.00001	0.00000	

			Dextrin	9004-53-9	0.00000	0.00000
			Hemicellulase enzyme	9012-54-8	0.00000	0.00000

Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** if you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)