

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised July 18, 2013

NM OIL CONSERVATION Minerals and Natural Resources

ARTESIA DISTRICT

Oil Conservation Division

☐ AMENDED REPORT

JUN 4 2015

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210		² OGRID Number 025575
		³ API Number 30-015-34456
⁴ Property Code 35281	⁵ Property Name Lupine BHJ State Com	⁶ Well No. 1

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	16	25S	26E		1980	South	660	West	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

9. Pool Information

Pool Name Wildcat, Wolfcamp	Pool Code
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Additional Well Information

¹¹ Work Type P	¹² Well Type G	¹³ Cable/Rotary NA	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 3,409' GR
¹⁶ Multiple N	¹⁷ Proposed Depth NA	¹⁸ Formation Wolfcamp	¹⁹ Contractor NA	²⁰ Spud Date NA
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	17-1/2"	13-3/8"	48#	343'	300 sx(in place)	0
	12-1/4"	9-5/8"	36#	1,912'	800 sx(in place)	0
	8-3/4"	7"	23#;26#	8,700'	1700 sx(in place)	1000'
	6-1/8"	4-1/2"	11.6#	12,250'	350 sx(in place)	6978' est

Casing/Cement Program: Additional Comments

Refer to page 2

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Manual BOP	3000 psi	3000 psi	Whichever company is available

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable.

Signature: *Laura Watts*

Printed name: Laura Watts

Title: Regulatory Reporting Technician

E-mail Address: laura@yatespetroleum.com

Date: June 2, 2015

Phone: 575-748-4272

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

Title: *Dr. J. H. Spears*

Approved Date: *6/9/2015*

Expiration Date:

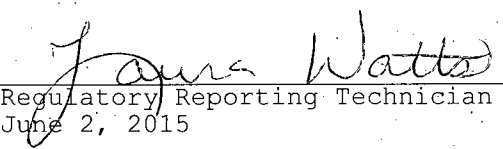
Conditions of Approval Attached

Proposal to plugback and recomple:

Yates Petroleum Corporation plans to plugback and recomple this well as follows:

1. Rig up all safety equipment necessary. NU BOP. Release and POOH with AS-1 4-1/2" packer set at 11,273'. If necessary load hole with KCL water.
2. Set a CIBP at 11,376' and cap it with 25 sx of class "H" cement. Pressure test casing to 2000 psi.
3. ND BOP and test the casing to 8000 psi. After the 4-1/2" casing has tested perforate Wolfcamp 10,428'-10,594' (75 holes).
4. Pump a fracture treatment (treating schedule 1 attached) while holding the surface treating pressure to less than 8000 psi while treating down the 4.5" casing.
5. Set a flow through frac plug at 10,410' perforate Wolfcamp 10,145'-10,375' (72 holes).
6. Pump a fracture treatment (treating schedule 2 attached) while holding the surface treating pressure to less than 8000 psi while treating down the 4.5" casing.
7. Set a flow through frac plug at 9,970' perforate Wolfcamp 9,531'-9,788' (145 holes).
8. Pump a fracture treatment (treating schedule 3 attached) while holding the surface treating pressure to less than 8000 psi while treating down the 4.5" casing.
9. Set a flow through frac plug at 9,515' perforate Wolfcamp 9,295'-9,487' (137 holes).
10. Pump a fracture treatment (treating schedule 4 attached) while holding the surface treating pressure to less than 8000 psi while treating down the 4.5" casing.
11. Set a flow through frac plug at 9,000' perforate Wolfcamp 8,722'-8,792' (48 holes).
12. Pump a fracture treatment (treating schedule 5 attached) while holding the surface treating pressure to less than 8000 psi while treating down the 4.5" casing.
13. Flow the well back until it dies then drill out the frac plugs. Clean the well out down to +/- 10,700'. TIH with production equipment specified by the production department.
14. Turn the well over to production.

Schematics attached


Regulatory Reporting Technician
June 2, 2015

WELL NAME: Lupine BHJ State Com #1

FIELD: Chosa Draw Morrow

LOCATION: 1,980' FSL & 660' FWL of Section 16-25S-26E Eddy County, NM

GL: 3,409' ZERO: 18.8' KB: 3,427.8'

SPUD DATE: 8/9/07 COMPLETION DATE: _____

COMMENTS: API No.: 30-015-34456

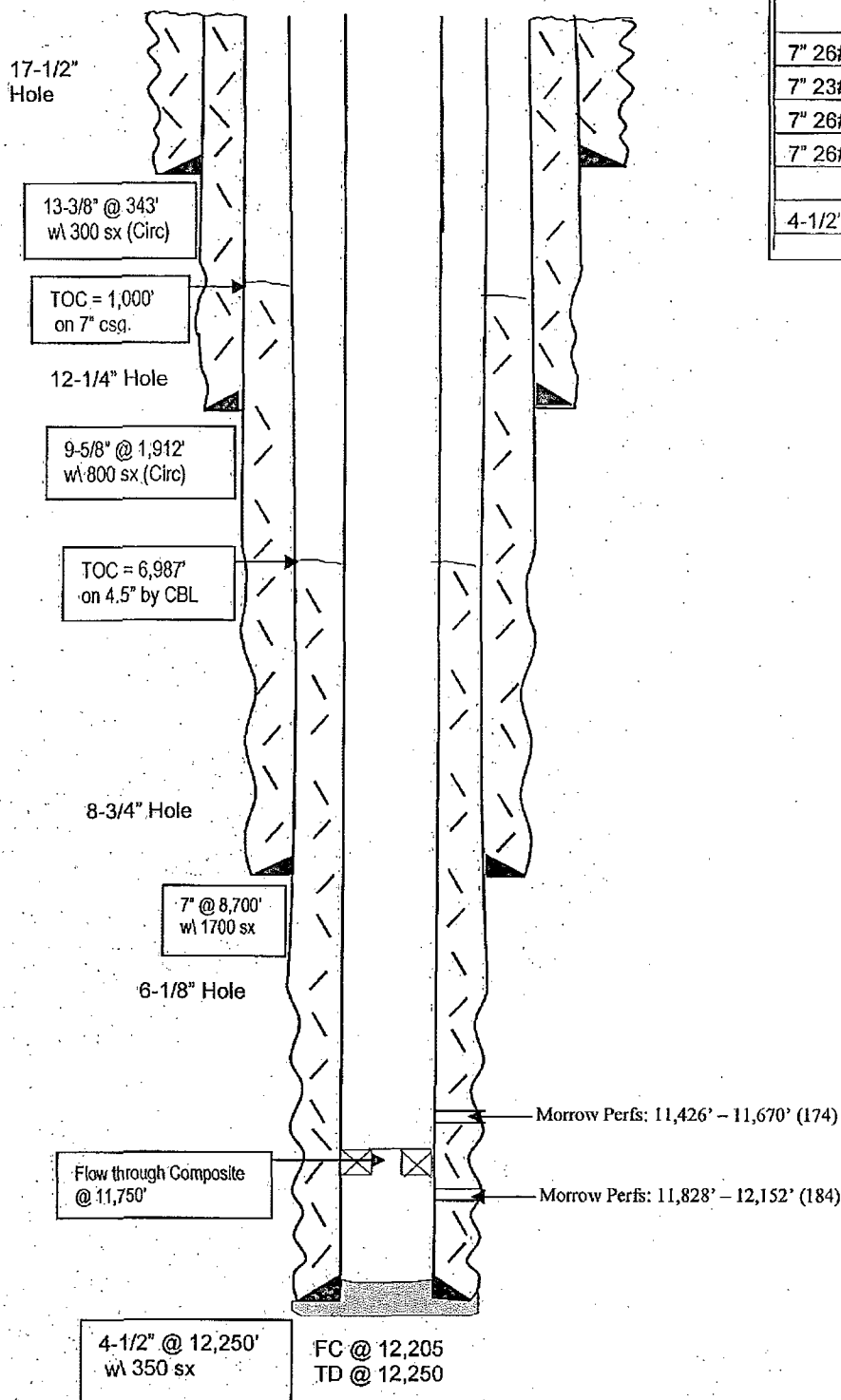
CASING PROGRAM

13-3/8" 48# H-40	343'
9-5/8" 36# J-55	1,912'
7" 26# J-55	544'0
7" 23# J-55	4771'
7" 26# J-55	2021
7" 26# L-80	1081'
	8,700'
4-1/2" 11.6# HCP-110	12,250'

Before

Tops:

Delaware	1,915'
Bone Springs	5,600'
Wolfcamp	8,515'
Strawn	10,650'
Atoka	11,038'
Morrow	11,415'



Not to Scale
2/23/15
JMH

WELL NAME: Lupine BHJ State Com #1

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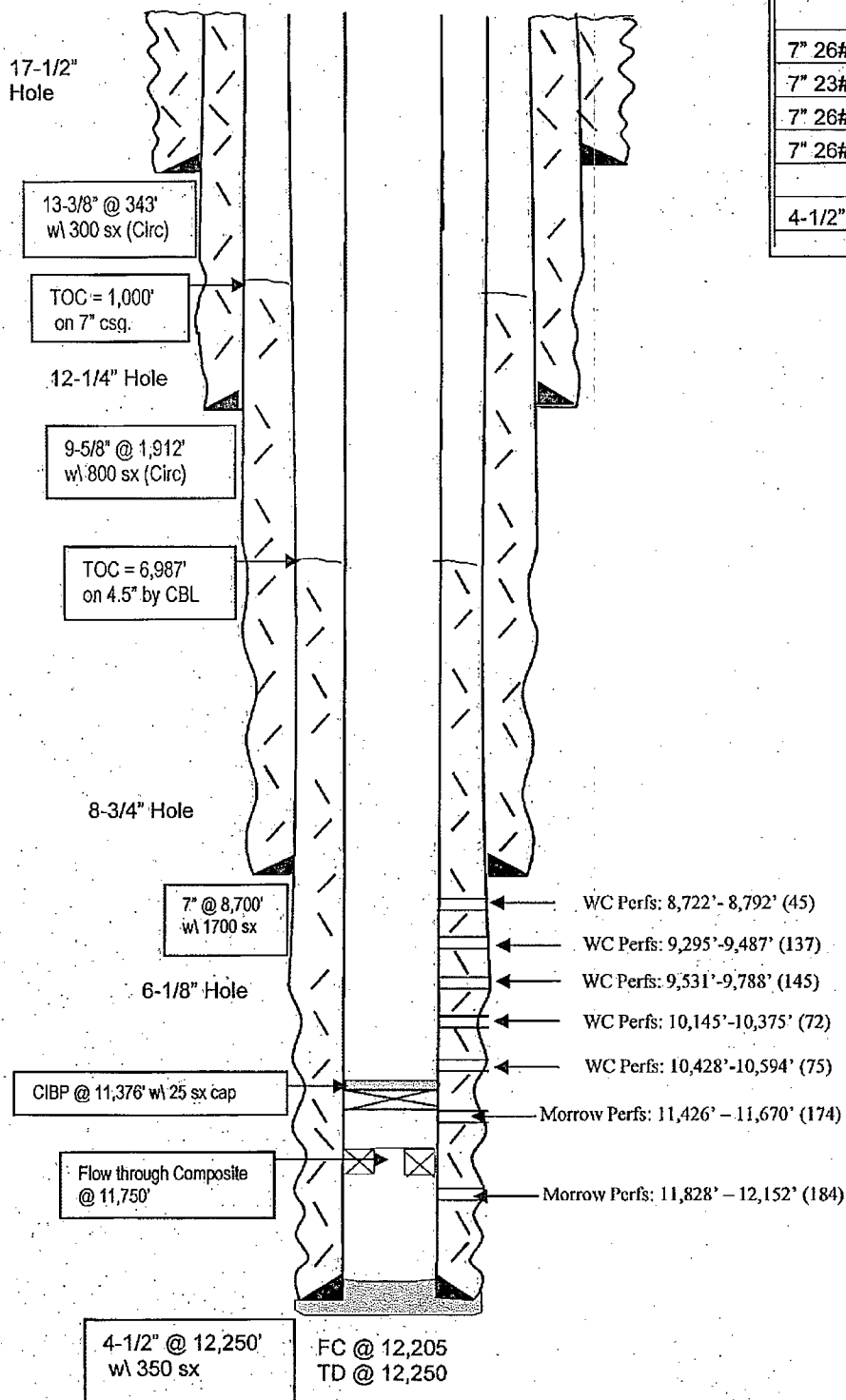
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7" 26# J-55 544'0	
7" 23# J-55 4771'	
7" 26# J-55 2021	
7" 26# L-80 1081'	8,700'
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After

Tops:

Delaware	1,915'
Bone Springs	5,600'
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Strawn	10,650'
Atoka	11,038'
Morrow	11,415'



Not to Scale
2/23/15
JMH

Treating Schedule 1

Stage Number	Stage Description	Fluid System	Rate BPM	Clean Volume gal	Slurry Volume gal	Prop Conc lb/gal	Prop Volume Stage	Prop Volume Cum	Prop Type	Stage Time
1.00	Breakdown	Slickwater	10	8,000	8,000		0	0		19.0
2.00	Acid	15% HCl	10	3,000	3,000		0	0		7.1
3.00	SLF	Slickwater	60	9,500	9,500		0	0		3.8
4.00	SLF	Slickwater	60	3,800	3,843	0.25	950	950	100 Mesh	1.5
5.00	SLF	Slickwater	60	9,900	10,126	0.50	4,950	5,900	100 Mesh	4.0
6.00	SLF	Slickwater	60	11,000	11,376	0.75	8,250	14,150	100 Mesh	4.5
7.00	SLF	Slickwater	60	11,000	11,502	1.00	11,000	25,150	100 Mesh	4.6
8.00	SLF	Slickwater	60	11,000	11,627	1.25	13,750	38,900	100 Mesh	4.6
9.00	SLF	Slickwater	60	10,500	11,218	1.50	15,750	54,650	100 Mesh	4.5
10.00	Sweep	Slickwater	60	6,000	6,000	0.00	0	54,650		2.4
11.00	SLF	Slickwater	60	5,520	5,583	0.25	1,380	56,030	40/70 Ottawa	2.2
12.00	SLF	Slickwater	60	11,000	11,251	0.50	5,500	61,530	40/70 Ottawa	4.5
13.00	SLF	Slickwater	60	11,000	11,376	0.75	8,250	69,780	40/70 Ottawa	4.5
14.00	SLF	15# Linear Gel	60	16,600	17,357	1.00	16,600	86,380	40/70 Ottawa	6.9
15.00	SLF	15# Linear Gel	60	16,600	17,546	1.25	20,750	107,130	40/70 Ottawa	7.0
16.00	SLF	15# Linear Gel	60	22,000	23,505	1.50	33,000	140,130	40/70 Ottawa	9.3
17.00	SLF	15# Linear Gel	60	14,200	15,333	1.75	24,850	164,980	40/70 Ottawa	6.1
18.00	Flush	Slickwater	60	8,000	8,000		0	164,980		3.2

Estimated Surface Treating Pressure = 6,234 psig.

Maximum Surface Treating Pressure = 8,000 psig.

Treating Schedule 2

Stage Number	Stage Description	Fluid System	Rate BPM	Clean Volume gal	Slurry Volume gal	Prop Conc lb/gal	Prop Volume Stage	Prop Volume Cum	Prop Type	Stage Time
1.00	Breakdown	Slickwater	10	12,000	12,000		0	0		28.6
2.00	Acid	15% HCl	10	5,000	5,000		0	0		11.9
3.00	SLF	Slickwater	60	13,750	13,750		0	0		5.5
4.00	SLF	Slickwater	60	5,430	5,492	0.25	1,358	1,358	100 Mesh	2.2
5.00	SLF	Slickwater	60	14,150	14,473	0.50	7,075	8,433	100 Mesh	5.7
6.00	SLF	Slickwater	60	15,750	16,289	0.75	11,813	20,245	100 Mesh	6.5
7.00	SLF	Slickwater	60	15,750	16,468	1.00	15,750	35,995	100 Mesh	6.5
8.00	SLF	Slickwater	60	15,700	16,595	1.25	19,625	55,620	100 Mesh	6.6
9.00	SLF	Slickwater	60	15,000	16,026	1.50	22,500	78,120	100 Mesh	6.4
10.00	Sweep	Slickwater	60	8,571	8,571	0.00	0	78,120		3.4
11.00	SLF	Slickwater	60	7,900	7,990	0.25	1,975	80,095	40/70 Ottawa	3.2
12.00	SLF	Slickwater	60	15,720	16,078	0.50	7,860	87,955	40/70 Ottawa	6.4
13.00	SLF	Slickwater	60	15,720	16,258	0.75	11,790	99,745	40/70 Ottawa	6.5
14.00	SLF	15# Linear Gel	60	23,720	24,802	1.00	23,720	123,465	40/70 Ottawa	9.8
15.00	SLF	15# Linear Gel	60	23,720	25,072	1.25	29,650	153,115	40/70 Ottawa	9.9
16.00	SLF	15# Linear Gel	60	31,430	33,580	1.50	47,145	200,260	40/70 Ottawa	13.3
17.00	SLF	15# Linear Gel	60	20,300	21,920	1.75	35,525	235,785	40/70 Ottawa	8.7
18.00	Flush	Slickwater	60	8,000	8,000		0	235,785		3.2

Estimated Surface Treating Pressure = 5,984 psig.
Maximum Surface Treating Pressure = 8,000 psig.

Treating Schedule 3

Stage Number	Stage Description	Fluid System	Rate BPM	Clean Volume gal	Slurry Volume gal	Prop Conc lb/gal	Prop Volume Stage	Prop Volume Cum	Prop Type	Stage Time
1.00	Breakdown	Slickwater	10	8,000	8,000		0	0		19.0
2.00	Acid	15% HCl	10	7,000	7,000		0	0		16.7
3.00	SLF	Slickwater	60	18,000	18,000		0	0		7.1
4.00	SLF	Slickwater	60	10,000	10,114	0.25	2,500	2,500	100 Mesh	4.0
5.00	SLF	Slickwater	60	18,600	19,024	0.50	9,300	11,800	100 Mesh	7.5
6.00	SLF	Slickwater	60	20,400	21,098	0.75	15,300	27,100	100 Mesh	8.4
7.00	SLF	Slickwater	60	20,400	21,330	1.00	20,400	47,500	100 Mesh	8.5
8.00	SLF	Slickwater	60	20,400	21,563	1.25	25,500	73,000	100 Mesh	8.6
9.00	SLF	Slickwater	60	18,000	19,231	1.50	27,000	100,000	100 Mesh	7.6
10.00	Sweep	Slickwater	60	12,000	12,000	0.00	0	100,000		4.8
11.00	SLF	Slickwater	60	8,000	8,091	0.25	2,000	102,000	40/70 Ottawa	3.2
12.00	SLF	Slickwater	60	21,000	21,479	0.50	10,500	112,500	40/70 Ottawa	8.5
13.00	SLF	Slickwater	60	21,000	21,718	0.75	15,750	128,250	40/70 Ottawa	8.6
14.00	SLF	15# Linear Gel	60	31,000	32,414	1.00	31,000	159,250	40/70 Ottawa	12.9
15.00	SLF	15# Linear Gel	60	31,000	32,767	1.25	38,750	198,000	40/70 Ottawa	13.0
16.00	SLF	15# Linear Gel	60	41,000	43,804	1.50	61,500	259,500	40/70 Ottawa	17.4
17.00	SLF	15# Linear Gel	60	26,000	28,075	1.75	45,500	305,000	40/70 Ottawa	11.1
18.00	Flush	Slickwater	60	8,000	8,000		0	305,000		3.2

Estimated Surface Treating Pressure = 5,790 psig.

Maximum Surface Treating Pressure = 8,000 psig.

Treating Schedule 4

Stage Number	Stage Description	Fluid System	Rate BPM	Clean Volume gal	Slurry Volume gal	Prop Conc lb/gal	Prop Volume Stage	Prop Volume Cum	Prop Type	Stage Time
1.00	Breakdown	Slickwater	10	8,000	8,000		0	0		19.0
2.00	Acid	15% HCl	10	7,000	7,000		0	0		16.7
3.00	SLF	Slickwater	60	18,000	18,000		0	0		7.1
4.00	SLF	Slickwater	60	10,000	10,114	0.25	2,500	2,500	100 Mesh	4.0
5.00	SLF	Slickwater	60	18,600	19,024	0.50	9,300	11,800	100 Mesh	7.5
6.00	SLF	Slickwater	60	20,400	21,098	0.75	15,300	27,100	100 Mesh	8.4
7.00	SLF	Slickwater	60	20,400	21,330	1.00	20,400	47,500	100 Mesh	8.5
8.00	SLF	Slickwater	60	20,400	21,563	1.25	25,500	73,000	100 Mesh	8.6
9.00	SLF	Slickwater	60	18,000	19,231	1.50	27,000	100,000	100 Mesh	7.6
10.00	Sweep	Slickwater	60	12,000	12,000	0.00	0	100,000		4.8
11.00	SLF	Slickwater	60	8,000	8,091	0.25	2,000	102,000	40/70 Ottawa	3.2
12.00	SLF	Slickwater	60	21,000	21,479	0.50	10,500	112,500	40/70 Ottawa	8.5
13.00	SLF	Slickwater	60	21,000	21,718	0.75	15,750	128,250	40/70 Ottawa	8.6
14.00	SLF	15# Linear Gel	60	31,000	32,414	1.00	31,000	159,250	40/70 Ottawa	12.9
15.00	SLF	15# Linear Gel	60	31,000	32,767	1.25	38,750	198,000	40/70 Ottawa	13.0
16.00	SLF	15# Linear Gel	60	41,000	43,804	1.50	61,500	259,500	40/70 Ottawa	17.4
17.00	SLF	15# Linear Gel	60	26,000	28,075	1.75	45,500	305,000	40/70 Ottawa	11.1
18.00	Flush	Slickwater	60	8,000	8,000		0	305,000		3.2

Estimated Surface Treating Pressure = 5,603 psig.

Maximum Surface Treating Pressure = 8,000 psig.

Treating Schedule 5

Stage Number	Stage Description	Fluid System	Rate BPM	Clean Volume gal	Slurry Volume gal	Prop Conc lb/gal	Prop Volume Stage	Prop Volume Cum	Prop Type	Stage Time
1.00	Breakdown	Slickwater	10	8,000	8,000		0	0		19.0
2.00	Acid	15% HCl	10	3,000	3,000		0	0		7.1
3.00	SLF	Slickwater	60	9,500	9,500		0	0		3.8
4.00	SLF	Slickwater	60	3,800	3,843	0.25	950	950	100 Mesh	1.5
5.00	SLF	Slickwater	60	9,900	10,126	0.50	4,950	5,900	100 Mesh	4.0
6.00	SLF	Slickwater	60	11,000	11,376	0.75	8,250	14,150	100 Mesh	4.5
7.00	SLF	Slickwater	60	11,000	11,502	1.00	11,000	25,150	100 Mesh	4.6
8.00	SLF	Slickwater	60	11,000	11,627	1.25	13,750	38,900	100 Mesh	4.6
9.00	SLF	Slickwater	60	10,500	11,218	1.50	15,750	54,650	100 Mesh	4.5
10.00	Sweep	Slickwater	60	6,000	6,000	0.00	0	54,650		2.4
11.00	SLF	Slickwater	60	5,520	5,583	0.25	1,380	56,030	40/70 Ottawa	2.2
12.00	SLF	Slickwater	60	11,000	11,251	0.50	5,500	61,530	40/70 Ottawa	4.5
13.00	SLF	Slickwater	60	11,000	11,376	0.75	8,250	69,780	40/70 Ottawa	4.5
14.00	SLF	15# Linear Gel	60	16,600	17,357	1.00	16,600	86,380	40/70 Ottawa	6.9
15.00	SLF	15# Linear Gel	60	16,600	17,546	1.25	20,750	107,130	40/70 Ottawa	7.0
16.00	SLF	15# Linear Gel	60	22,000	23,505	1.50	33,000	140,130	40/70 Ottawa	9.3
17.00	SLF	15# Linear Gel	60	14,200	15,333	1.75	24,850	164,980	40/70 Ottawa	6.1
18.00	Flush	Slickwater	60	8,000	8,000		0	164,980		3.2

Estimated Surface Treating Pressure = 5,399 psig.

Maximum Surface Treating Pressure = 8,000 psig