Corporation Commission

OKLAHOMA CITY OKLAHOMA 73152-2000

255 Jim Thorpe Building Telephone: (405)521-2302

FAX: (405)521-3099

OIL & GAS CONSERVATION DIVISION



Tim Baker, Director

December 03, 2015

Contact: Matt Skinner 405-521-4180 m.skinner@occemail.com

Media Advisory - Continuing response to earthquakes in the Medford and Cherokee areas

The Oklahoma Corporation Commission's Oil and Gas Conservation Division (OGCD) is continuing its evolving response to earthquake activity in the Medford and Cherokee areas. The latest step is implementation of plans for the Byron/Cherokee area and for the Medford area. As with previous steps, the plans call for changes to oil and gas wastewater disposal wells in the area that dispose into the Arbuckle formation. Additional steps can be expected depending on earthquake activity.

Byron/Cherokee area Plan

The plan for the Byron-Cherokee area calls for the 4 disposal wells within 3 miles of the earthquake activity in question to stop operations ("shut in"), and for cuts of 25 to 50 percent in disposed volumes for 47 other wells farther from the activity.*

The net volume reduction is 47%.

In addition, 28 disposal wells within 10 to 15 miles of the earthquake activity are being placed on notice to prepare for possible changes to their operations.

Medford Plan

The latest Medford plan calls for the 3 disposal wells within 3 miles of the earthquake activity in question to stop operations ("shut in"), and for cuts of 25 to 50 percent in disposed volumes for 19 other wells farther from the activity.*

The total net volume reduction for the area in question is 42 percent.

In addition, 39 disposal wells within 10 to 15 miles of the earthquake activity are being placed on notice to prepare for possible changes to their operations.

*Maps, a sample letter to operators, and a full listing of the wells, operators, and action for each well is attached.

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OIL & GAS CONSERVATION DIVISION



Tim Baker, Director

TO:

FROM: Tim Baker, Director, Oil and Gas Conservation Division

RE: Reduction in Volumes for Wells Located in Area of Interest for Induced Seismicity

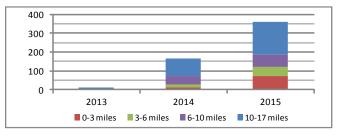
DATE: December 2, 2015

The Commission's Oil and Gas Conservation Division (OGCD) is expanding its efforts to reduce the risk of earthquakes potentially triggered by saltwater disposal wells. The following addresses the reduction of volumes being disposed in the Arbuckle formation within the defined area of interest. Any company that has been identified as operating one or more Arbuckle disposal well(s) located within one of the four zones in the defined area will need to reduce volumes disposed into such well(s) according to the schedule outlined at the end of this letter. The shut-in and reduction zones are shown on the attached map and are defined from the center point of the recent magnitude 4.4 earthquake, as reported by the Oklahoma Geological Survey (OGS), near the town of Byron, as follows:

- Zero to three miles (0-3 miles)
- Three to six miles (3-6 miles)
- Six to ten miles (6-10 miles)
- Ten to fifteen miles (10-15 miles).

The area highlighted on the attached map has been designated based upon the dramatic increase in earthquakes within the immediate area. The OGCD has reviewed the earthquake activity of magnitude 2.5 and greater within two miles of the zones of interest, as reported by the Oklahoma Geological Survey (OGS). The earthquake activity from January 1, 2013 through December 1, 2015 is shown below. The attached map shows earthquake activity of the last 30 days.

	Earthquake Activity Magnitude 2.5 or Greater									
Year	0-3 miles	3-6 miles	6-10 miles	10-17 miles	Total					
2042										
2013	0	0	5	9	14					
2014	12	15	46	95	168					
2015	72	51	65	173	361					
Total	84	66	116	277	543					



As part of a joint effort to decrease the risk of induced seismicity, you will need to complete reduction of disposal volumes in accordance with the following schedule and as indicated for

the wells below. All disposal well volumes shall be calculated on a daily basis. In addition, gauges and flow meters should be placed on such wells on or before Friday, December 11, 2015 so that Commission Field Inspectors can verify pressures and volumes. As has been the practice, pressures and volumes for such wells should continue to be supplied every Monday to the Commission, on a weekly basis, at ogyolumes@occemail.com.

The following schedule applies to all wells within the defined zones in the Area of Interest:

- Zero to three miles (0-3 miles):
 - A shut-in of wells on or before December 9, 2015.
- ➤ Three to six miles (3-6 miles): Fifty percent reduction (50%).
 - On or before December 16, 2015, daily volumes should be reduced by twenty-five percent (25%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
 - On or before December 30, 2015, daily volumes should be reduced by an additional twenty-five percent (25%), for a total volume reduction of fifty percent (50%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
- Six to ten miles (6-10 miles):
 - On or before December 16, 2015, daily volumes should be reduced by thirteen percent (13%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
 - On or before December 30, 2015, daily volumes should be reduced by an additional twelve percent (12%), for a total volume reduction of twenty-five percent (25%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
- > 10 to fifteen miles (10-15 miles):
 - Maintain current levels at this time. This letter shall serve as notification that future seismic activity might result in an expanded area for reductions to include these wells.

If you have any questions contact the OGCD:

Charles Lord or Jim Marlatt (405) 522-2751 (405) 522-2758

c.lord@occemail.com j.marlatt@occemail.com

Thank you in advance for your continued cooperation and attention to this matter. Sincerely,

Tim Baker, Director

Oil and Gas Conservation Division

The wells in this area operated by your company, and the volume reduction schedule are listed below (table continued onto next page):

						Data			
							Average		Requested
						Max of	_		Average Daily
Company	✓ Status	-	Well Name	Buffer 💌	Reduction 💌	Volume	Volume Volume	Max of Rolling 30	Volume
SANDRIDGE EXPL & PROD, LLC	■ Not in Granite		■ ROXY SWD 1-30	■6-10	25%	44966			1964
			■ GRISWOLD SWD 2811 1-25	■ 3-6	50%	40319	23876 6303236	28726	119
			■ DIAMONBACK SWD 2710 2-5	■ 0-3	Shut In	33318			
			■ DIAMONBACK SWD 2710 1-5	■ 0-3	Shut In	32320			
			■ LIDIA SWD 2710 1-7	■ 0-3	Shut In	31369			
			■ CLARK W SWD 2811 1-27	■3-6	50%	31245			115
			■ CRICKET SWD 1-21	■ 6-10	25%	30695	22568 5958054	25394	169
			■ MILA SWD 2610 1-28	■ 6-10	25%	29424	14419 3806517	19837	108
			■ DUSTIN SWD 2709 1-6	■3-6	50%	25160			49
			■ MIGUEL SWD 2611 1-9	■ 6-10*	25%	24840	12345 3259161	18917	92
			■ POPPINS SWD 2810 2-21	■3-6	50%	22742	16042 4235076	18793	80:
			■TATUM ROSE SWD 2710 1-17	■ 0-3	Shut In	21052	10851 2864748	15376	
			■ ROSE SWD 2810 1-26	■3-6	50%	19798			295
			■ LIZZIE SWD 2711 1-33	■6-10*	25%	19426	10493 2770102	12301	
			■ ASHLEY SWD 2-36	■3-6	50%	19244	9755 2575243	13189	487
			■ MIGUEL SWD 2611 2-9	■ 6-10*	25%	17578	8061 2128087	12364	604
			■ LAUREN SWD 2609 1-3	■ 6-10*	50%	15176	8000 2112081	9920	400
			■ MILLIE SWD 2810 1-9	■3-6	50%	12544	8104 2139337	8950	405
			■ SIDNEY SWD 1-3	■ 6-10	25%	10411	4814 1270907	6415	36:
			■ GATILLO SWD 2-34	■ 6-10	25%	8917	3445 434116	4697	25
			■ DORADO SWD 1-32	■ 6-10	25%	7315	4381 552057	5602	328
			■ ROBYN SWD 1-14	■ 6-10	25%	5590	3639 960757	4240	27:
			■ ROSE KELLY SWD 1-3	■ 6-10	25%	4414	2462 649866	3454	184
			■ ROSE KELLY SWD 2-3	■ 6-10	25%	3309	1863 491908	2796	139
			■ LILY SWD 1-27	■ 6-10	25%	2468	1247 157174	1375	9:
	■ Plugged Back		■ DUSTIN SWD 2709 2-6	■3-6	50%	29624	12596 3325366	20028	629
			■ PHIN SWD 2811 1-11	■ 6-10	25%	27900	17110 4516944	20490	128
			■ PHIN SWD 2811 2-11	■ 6-10	25%	24611	15828 4178489	18230	1187
			■ FIONA SWD 2610 1-5	■3-6	50%	23132	12796 3378015	17509	639
			■JUDY SWD 2-12	6-10	25%	21828	10077 2660262	14274	. 755
			■JUDY SWD 1-12	■ 6-10	25%	19365	7647 2018678	12936	573
			■ ASHLEY SWD 1-36	■ 3-6	50%	17409	10877 2871502	14378	543
			■ GATILLO SWD 1-34	■ 6-10	25%	16104	7302 817872	8743	54
			■ ROSE SWD 2810 2-26	■ 3-6	50%	15036	8635 2279537	11941	. 431
			■ BAKER SWD 2810 1-20	■3-6	50%	13088	3661 966438	8523	183
			■ DOTTY SWD 2-27	■ 6-10	25%	9908	4760 599758	6773	35
			■ PRESLEY SWD 1-27	■ 6-10*	25%	7996			
			■ PRESLEY SWD 2-27	= 6-10*	25%	6428	979 258416		
			■ BAILEY SWD 2-1	= 6-10	25%	6419			
			■ BAILEY SWD 1-1	= 6-10	25%	5728			
			■ DONNA FAYE SWD 2708 2-19	= 6-10*	50%	5617	1456 384373	3699	7:
			■ DOTTY SWD 1-27	= 6-10	25%	0			
	■ Not injecting		■ BONNIE JEAN SWD 1-22	= 6-10*	50%	0		_	
			■ DONNA FAYE SWD 1-19	6-10 ■ 6-10	50%	0	0 0	0	

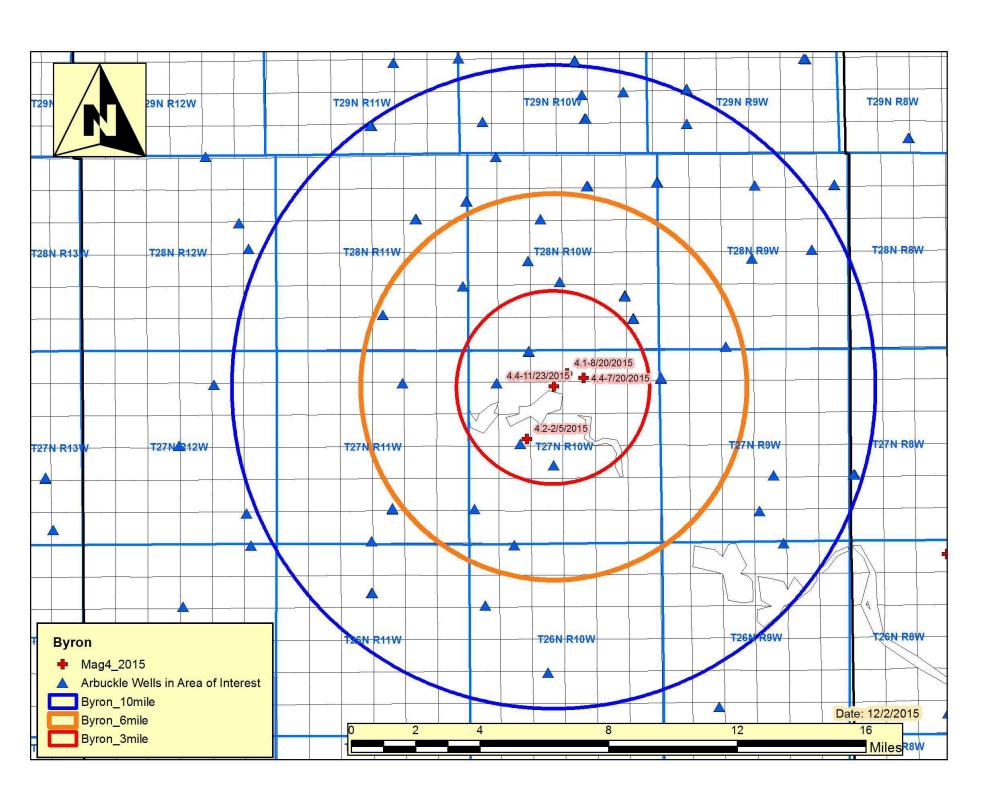
■ CHESAPEAKE OPERATING INC	■ Plugged Back	■ YELLOW 30-27-10 SWD 1	■ 3-6	50%	48257	22411	4706324	39630	11206
		■ PULLER 7-26-10 SWD 1	6-10 ■ 6-10	25%	30475	21936	5834882	27754	16452
		■THAMES 33-28-9 SWD 1	■ 3-6	50%	20407	12724	3384663	16935	6362
	■ Plugged Back - Not Reporting	■Amazon 1-25	= 6-10	25%					0
■ EAGLE EXPLORATION PRODUCTION, LLC	■ Not in Granite	■ REITZ 1 SWD	■ 3-6	50%	14718	9668	2581404	12254	4834
■TRIAD ENERGY INC	■ Not in Granite	■ WILLIAMS SWD 1-6	= 6-10	25%	4463	2813	751045	3408	2110
■D & J OIL COMPANY INC	■ Not in Granite	■ MYERS 1-34 SWD	= 6-10*	50%	930	508	121434	568	254
				Sum of Daily	Averages	481090	R	educed Daily Avgs	256308
								% Reduction	47%

^{*} Well falls in a higher reduction zone of adjacent event; protocol for adjacent event supersedes this event and the higher reduction is noted in the spreadsheet. Note: Reductions from overlapping events do not compound; the higher reduction will take precedence as noted in the list above.

The wells in this area operated by your company in the 10-15 mile zone and do not require action for this event (may require action from overlapping event):

Company				Reduction
■ ARP OKLAHOMA LLC (ATLAS ENERGY)	■ Not in Granite	■JACKDAW SWD 1	■ 10-15*	25%
■ CHAPARRAL ENERGY LLC	■Volume Reporting-no action	■WESSEL SWD 1	■ 10-15*	25%
■ CHESAPEAKE OPERATING INC	■ Not in Granite	■ CLAY 7-25-10 SWD 1	■ 10-15*	25%
		■ EUPHRATES 11-27-12 SWD 1	■ 10-15*	Permit
		■GIDEON 1-32	■ 10-15*	25%
	■ Plugback procedure approved	■ MISSISSIPPI 14-26-12 SWD 1	10-15	50%
		■ NILE 14-28-12 SWD 1	■ 10-15	Permit
		■ RIO GRANDE 16-27-12 SWD 1	10-15*	Permit
	■ Plugged Back	■ COLUMBIA 36-27-12 SWD 1	10-15*	25%
■ EAGLE ENERGY EXPLORATION PRODUCTION LLC	■ Plugged Back	■ GEORGE SWD 1	10-15*	Shut In
■ MIDSTATES PETROLEUM COMPANY LLC	■ Plugged Back	■ Murrow SWD 1-10	10-15*	50%
■ SAND CREEK OPERATING LLC	■ Not in Granite	■KRAFT (KRAFT 1) 1-13	■ 10-15	Permit
■ SANDRIDGE EXPL & PROD, LLC	■ Not in Granite	■ BETTY ELLEN SWD 1-20	■ 10-15	Permit
		■ BETTY ELLEN SWD 2909 2-20	■ 10-15	Permit
		■ CASH SWD 2-32	■ 10-15*	Permit
		■ DONNIE SWD 1-15	■ 10-15*	50%
		■ FIERO SWD 2-23	■ 10-15	Permit
		■ HARLEY SWD 1-11	■ 10-15*	Shut In
		■SHARON SWD 2-22	■ 10-15	Permit
		■TIBURON SWD 1-1	■ 10-15*	Permit
		■TIBURON SWD 2-1	■ 10-15*	Permit
	■ Plugback procedure approved	■ CASH SWD 1-32	■ 10-15*	Permit
	■ Plugged Back	■Aquarius 1-22	■ 10-15	Permit
		■ Bailar SWD 1-35	■ 10-15	Permit
		■Claude SWD 1-13	■ 10-15	Permit
		■ Fiero SWD 1-23	■ 10-15	Permit
		■ HARLEY SWD 2-11	■ 10-15*	Shut In
		■Sharon 1-22	■ 10-15	Permit

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RE: Reduction in Volumes for Wells Located in Area of Interest for Induced Seismicity

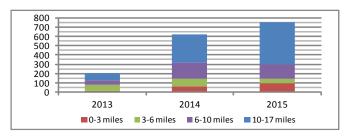
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The Commission's Oil and Gas Conservation Division (OGCD) is expanding its efforts to reduce the risk of earthquakes potentially triggered by saltwater disposal wells. The following addresses the reduction of volumes being disposed in the Arbuckle formation within the defined area of interest. Any company that has been identified as operating one or more Arbuckle disposal well(s) located within one of the four zones in the defined area will need to reduce volumes disposed into such well(s) according to the schedule outlined at the end of this letter. The shut-in and reduction zones are shown on the attached map and are defined from the center point of the recent magnitude 4.5 earthquake, as reported by the Oklahoma Geological Survey (OGS), near the town of Medford, as follows:

- Zero to three miles (0-3 miles)
- Three to six miles (3-6 miles)
- Six to ten miles (6-10 miles)
- Ten to fifteen miles (10-15 miles).

The area highlighted on the attached map has been designated based upon the dramatic increase in earthquakes within the immediate area. The OGCD has reviewed the earthquake activity of magnitude 2.5 and greater within two miles of the zones of interest, as reported by the Oklahoma Geological Survey (OGS). The earthquake activity from January 1, 2013 through December 1, 2015 is shown below. The attached map shows earthquake activity of the last 30 days.

	Earthquake Activity Magnitude 2.5 or Greater									
Year	0-3 miles	3-6 miles	6-10 miles	10-17 miles	Total					
2013	11	66	53	72	202					
2014	63	81	176	302	622					
2015	92	56	150	457	755					
Total	166	203	379	831	1579					



As part of a joint effort to decrease the risk of induced seismicity, you will need to complete reduction of disposal volumes in accordance with the following schedule and as indicated for the wells below. All disposal well volumes shall be calculated on a daily basis. In addition, gauges and flow meters should be placed on such wells on or before Friday, December 11, 2015 so that Commission Field Inspectors can verify pressures and volumes. As has been the practice, pressures and volumes for such wells should continue to be supplied every Monday to the Commission, on a weekly basis, at ogyolumes@occemail.com.

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 - On or before December 16, 2015, daily volumes should be reduced by twenty-five percent (25%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
 - On or before December 30, 2015, daily volumes should be reduced by an additional twenty-five percent (25%), for a total volume reduction of fifty percent (50%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
- Six to ten miles (6-10 miles):
 - On or before December 16, 2015, daily volumes should be reduced by thirteen percent (13%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
 - On or before December 30, 2015, daily volumes should be reduced by an additional twelve percent (12%), for a total volume reduction of twenty-five percent (25%) of the daily average of the total volume reported to the Commission on the weekly volume reports through November 30, 2015.
- ➤ 10 to fifteen miles (10-15 miles):
 - Maintain current levels at this time. This letter shall serve as notification that future seismic activity might result in an expanded area for reductions to include these wells.

If you have any questions contact the OGCD:

Charles Lord or Jim Marlatt (405) 522-2751 (405) 522-2758

c.lord@occemail.com j.marlatt@occemail.com

Thank you in advance for your continued cooperation and attention to this matter.

Sincerely,

Tim Baker, Director

Oil and Gas Conservation Division

The wells in this area operated by your company, and the volume reduction schedule are listed below:

					Data				
						Average			Requested
					Max of	of Si	um of		Average Daily
Company	Status	Well Name	Buffer Zone	Reduction	Volume	Volume V	olume	Max of Rolling 30	Volume
SANDRIDGE EXPL & PROD, LLC	Not in Granite	LAUREN SWD 2609 1-3	3-6	50%	15176	8000 2	112081	9920	40
		DONNIE SWD 1-15	3-6	50%	3880	1466	386910	2893	7
		HARLEY SWD 1-11	0-3	Shut In	3337	1625	429009	1985	5
	Plugged Back	AMANDA LYNN SWD 2-33	3-6	50%	6597	2982	787168	3228	149
		DONNA FAYE SWD 2708 2-19	3-6	50%	5617	1456	384373	3699	72
		TAYLOR SWD 1-21 SWD	6-10	25%	4542	1764	444434	2213	132
		HARLEY SWD 2-11	0-3	Shut In	3588	1082	285637	1458	3
		CAVIN SWD 1-31	6-10	25%	2048	26	6529	342	2
	Not injecting	AMANDA LYNN SWD 1-33	3-6	50%	0	0	0	()
		LOUIE SWD 1	6-10	25%	0	0	0	()
		DONNA FAYE SWD 1-19	3-6	50%	0	0	0	()
		BONNIE JEAN SWD 1-22	3-6	50%	0	0	0	()
CHESAPEAKE OPERATING INC	Not in Granite	GIDEON 1-32	6-10	25%	2520	1231	310288	1980	92
	Plugged Back	THAMES 33-28-9 SWD 1	6-10*	50%	20407	12724 3	384663	16935	636
EAGLE EXPLORATION PRODUCTION, LLC	Plugged Back	GEORGE 1 SWD	0-3	Shut In	3278	1790	478054	2291	L
D & J OIL COMPANY INC	Not in Granite	DENNIS SWD 1-6	3-6	50%	1600	1025	272781	1200	5:
		MYERS 1-34 SWD	3-6	50%	930	508	121434	568	25
CHAPARRAL ENERGY LLC	Shut In	Messenger A-1	6-10	25%	1058	254	67899	589	19
CISCO OPERATING LLC	Not in Granite	BOLSER SWD 33-1 SWD	3-6	50%	785	254	69728	382	1
ARP OKLAHOMA LLC (ATLAS ENERGY)	Not in Granite	JACKDAW SWD 1	6-10	25%	18425	7780 1	960497	11938	58
		Dalmatian SWD #1	6-10	25%	13622	7644 1	177252	11204	57
	Decreased injection by half	K-9 1	6-10	25%	25479	8552 2	154981	18640	64
				Sum of Dai	ly Averages	60164		Reduced Daily Avg	s 346
								% Reduction	42

^{*} Well falls in a higher reduction zone of adjacent event; protocol for adjacent event supersedes this event and the higher reduction is noted in the spreadsheet. Note: Reductions from overlapping events do not compound; the higher reduction will take precedence as noted in the list above.

The wells in this area operated by your company in the 10-15 mile zone and do not require action for this event (may require action from overlapping event):

Company	Current Status	▼ Well Name	uction
ARP OKLAHOMA LLC (ATLAS ENERGY)	■ Not in Granite	■ K-9 2 ■ 10-15 Perm	nit
		■OTTERHOUND SWD 1 ■ 10-15 Perm	nit
CHAPARRAL ENERGY LLC	■ Not in Granite	■ CLIFFORD SWD 1 ■ 10-15 Perm	nit
CHESAPEAKE OPERATING INC	■ Plugged Back	■ PULLER 7-26-10 SWD 1 ■ 10-15* 50%	
		■ YELLOW 30-27-10 SWD 1 ■ 10-15* 50%	
	■ Volume Reporting - preparing docum	entation HDW 1-2 E10-15 Perm	nit
EAGLE EXPLORATION PRODUCTION, LLC	■ Not in Granite	■ DOWNING 1 SWD ■ 10-15* Perm	nit
KIRKPATRICK OIL COMPANY INC	■ Plugged Back	■ LITTLE BEAVER SWD 1-26 ■ 10-15 Perm	nit
MIDSTATES PETROLEUM COMPANY LLC	■ Not in Granite	■ALFALFA 1 ■ 10-15 Perm	nit
SANDRIDGE EXPL & PROD, LLC	■ Not in Granite	■ ASHLEY SWD 2-36 ■ 10-15* 50%	
		■ CASH SWD 2-32 ■ 10-15* Perm	nit
		■ CHARLY SWD 2407 1-9 ■ 10-15 Perm	nit
		□ CHRISSY SWD 1-35 □ 10-15 Perm	nit
		□ CRICKET SWD 1-21 □ 10-15* 25%	
		■ DIAMONBACK SWD 2710 1-5 ■ 10-15* Shut	:In
		■ DIAMONBACK SWD 2710 2-5 ■ 10-15* Shut	:In
		■ DUSTIN SWD 2709 1-6 ■ 10-15* 50%	
		■KIMBERLY SWD 1-32 ■ 10-15 Perm	nit
		■ LIDIA SWD 2710 1-7 ■ 10-15* Shut	:In
		■ MILA SWD 2610 1-28 ■ 10-15* 25%	
		■ POPPINS SWD 2810 2-21 ■ 10-15* 50%	
		■ ROBYN SWD 1-14 ■ 10-15* 25%	
		■ ROSE SWD 2810 1-26 ■ 10-15* 50%	
		■ SIDNEY SWD 1-3 ■ 10-15* 25%	
		■ TATUM ROSE SWD 2710 1-17 ■ 10-15* Shut	:In
		■TIBURON SWD 1-1 ■ 10-15* Perm	nit
		■TIBURON SWD 2-1 ■ 10-15* Perm	nit
		■TROY SWD 2408 1-1 ■ 10-15 Perm	nit
	■ Not injecting	■LYNCH SWD 1-10 ■ 10-15 Perm	nit
	■ Plugged Back	■ ASHLEY SWD 1-36 ■ 10-15* 50%	
		■ BAILEY SWD 1-1 ■ 10-15* 25%	
		■ BAILEY SWD 2-1 ■ 10-15* 25%	
		■ CASH SWD 1-32 ■ 10-15* Perm	nit
		□ CHARLY SWD 2407 2-9 □ 10-15 Perm	nit
		■ DUSTIN SWD 2709 2-6 ■ 10-15* 50%	
		■ FIONA SWD 2610 1-5 ■ 10-15* 50%	
		■ LYNCH SWD 2-10 ■ 10-15 Perm	
		■ ROSE SWD 2810 2-26 ■ 10-15* 50%	
SPECIAL ENERGY CORPORATION	■ Plugged Back	© CONRADY 19-28N-6W 1 SWD	

^{*} Well falls in a higher reduction zone of adjacent event; protocol for adjacent event supersedes this event and the higher reduction is noted in the spreadsheet.

