

Black River Water Management Company, LLC

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240
Voice 972.371.5200 • Fax 972.371.5201

March 1, 2017

RECEIVED
2017 MAR -2 P 3:51

Mr. David Catanach – Division Director
NMOCD
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: BLACK RIVER SWD,
API 30-015-43807
Eddy Co., NM
Administrative Order SWD-1627

Dear Sir:

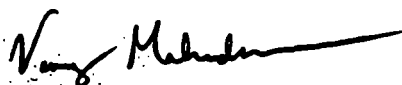
Black River Water Management Company, LLC, OGRID 371287, respectfully requests approval to inject through 5 ½" tubing for the Black River SWD, as it poses no issues of approaching the formation fracture pressure based on the BHP data attached.

The Black River SWD started injecting water at year end 2016 and now has two months of reliable injection data. The well is only able to inject ~21,000 bbls/d which is far below the expected rate. Injection is through 4 ½" internally-coated tubing and at no more than 2740 psi as specified by the above-referenced Administrative Order.

On February 21st, we placed a BHP memory gauge and conducted both a step-rate and injection falloff test confirming the deliverability restriction is due to pressure loss. At the maximum step-rate of 12.05 bbl/min (17,352 bbl/d), there was 1486.4 psi of friction loss, only 253.7 psi above the formation pore pressure to deliver water into the reservoir. The installation of 5 ½" tubing will allow injection to reach a rate of +30,000 bbl/d which is consistent with other commercial SWDs and poses no issue to the reservoir integrity.

Please see the enclosed test data and copy of the specifications for the proposed 5 ½" tubing. If you need further information, please don't hesitate to contact me at 972-371-5448 or via email at vmahadevan@matadorresources.com.

Thank you,



Vinny Mahadevan
Operations Manager, Midstream

Encl.

BOTTOM HOLE PRESSURE TEST (OBSERVED FROM DISCHARGE)			
RATE	PRESSURE	PUMP SPEED	CYCLONIC POSITION
5.5 BBL/MIN	250 PSI	40 HZ	18% OPEN
7.35 BBL/MIN	500 PSI	45 HZ	25% OPEN
9.25 BBL/MIN	950 PSI	50 HZ	32% OPEN
10.9 BBL/MIN	1400 PSI	55 HZ	50% OPEN
12.05 BBL/MIN	1750 PSI	60 HZ	100% OPEN

UPON COMPLETION WE SHUT IN THE DISCHARGE LINE AND IT WENT ON VACUUM IMMEDIATELY

Rate bbl/n	Well Head	Head	BHP data	BHP Simulation	Delta	Friction Loss	P(wf)
5.50	192.5	6232.5	6270	6109.8	160.2	155.0	
7.36	496.7	6232.5	6311.41	6222.5	88.91	417.8	
9.25	925.5	6232.5	6364.81	6408.8	-43.99	793.2	
10.90	1356.75	6232.5	6415.56	6592.8	-177.24	1173.7	
12.05	1713.5	6232.5	6459.59	6757.7	-298.11	1486.3	6457.88
15.00			7152.349				6519.979
20.83			8004.831				6642.774



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 0-15000 psi
Gauge OD: 1.2500 in

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	15:37:05	0.00000		11.68	78.14		Powered up gauge.
02/21/17	15:38:00	0.01528		11.85	78.59		
02/21/17	15:40:00	0.04861		11.29	79.95		
02/21/17	15:42:00	0.08194		11.02	81.31		
02/21/17	15:44:00	0.11528		11.17	82.89		
02/21/17	15:47:00	0.16528		10.89	85.88		
02/21/17	15:49:00	0.19861		10.46	87.56		
02/21/17	15:50:00	0.21528		10.78	88.19		
02/21/17	15:51:00	0.23194		10.71	88.75		
02/21/17	15:52:00	0.24861		10.66	89.24		
02/21/17	15:53:00	0.26528		10.54	89.68		RIH with gauge to 13761 ft.
02/21/17	15:54:00	0.28194		10.67	90.06		
02/21/17	15:56:00	0.31528		10.72	90.50		
02/21/17	15:57:39	0.34278		10.79	90.57		Gauge descended below liquid level.
02/21/17	15:58:00	0.34861		33.89	89.46		
02/21/17	16:00:00	0.38194		163.30	81.52		
02/21/17	16:02:00	0.41528		291.59	80.94		
02/21/17	16:05:00	0.46528		485.86	81.45		
02/21/17	16:07:00	0.49861		614.94	82.04		
02/21/17	16:09:00	0.53194		727.49	82.50		
02/21/17	16:11:00	0.56528		840.76	82.94		
02/21/17	16:13:00	0.59861		952.98	83.83		
02/21/17	16:15:00	0.63194		1065.92	85.21		
02/21/17	16:17:00	0.66528		1178.41	86.14		
02/21/17	16:19:00	0.69861		1291.01	87.12		
02/21/17	16:21:00	0.73194		1409.21	88.21		
02/21/17	16:23:00	0.76528		1531.39	89.27		
02/21/17	16:25:00	0.79861		1654.04	90.43		
02/21/17	16:27:00	0.83194		1777.13	91.54		
02/21/17	16:29:00	0.86528		1899.25	92.81		
02/21/17	16:31:00	0.89861		2022.15	94.12		
02/21/17	16:33:00	0.93194		2144.21	95.43		
02/21/17	16:35:00	0.96528		2267.11	96.67		
02/21/17	16:37:00	0.99861		2389.26	97.91		
02/21/17	16:39:00	1.03194		2511.67	99.17		
02/21/17	16:41:00	1.06528		2634.04	99.69		
02/21/17	16:43:00	1.09861		2756.02	101.04		
02/21/17	16:45:00	1.13194		2877.95	102.50		



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RESERVOIR PRESSURE MONITOR TEST

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Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21-02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.25003 in

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	16:47:00	1.16528		2998.65	104.74		
02/21/17	16:49:00	1.19861		3118.06	106.82		
02/21/17	16:51:00	1.23194		3235.59	108.23		
02/21/17	16:53:00	1.26528		3354.26	108.88		
02/21/17	16:55:00	1.29861		3472.49	111.21		
02/21/17	16:57:00	1.33194		3590.38	111.47		
02/21/17	16:59:00	1.36528		3708.21	112.77		
02/21/17	17:01:00	1.39861		3824.65	114.45		
02/21/17	17:03:00	1.43194		3941.54	115.83		
02/21/17	17:05:00	1.46528		4057.19	119.70		
02/21/17	17:07:00	1.49861		4173.56	121.56		
02/21/17	17:09:00	1.53194		4289.20	121.76		
02/21/17	17:11:00	1.56528		4403.65	122.00		
02/21/17	17:13:00	1.59861		4518.21	125.53		
02/21/17	17:15:00	1.63194		4632.52	126.93		
02/21/17	17:17:00	1.66528		4746.20	129.75		
02/21/17	17:19:00	1.69861		4859.23	131.50		
02/21/17	17:21:00	1.73194		4971.47	133.19		
02/21/17	17:23:00	1.76528		5084.03	136.44		
02/21/17	17:25:00	1.79861		5195.52	137.88		
02/21/17	17:27:00	1.83194		5306.51	142.52		
02/21/17	17:29:00	1.86528		5417.81	143.43		
02/21/17	17:31:00	1.89861		5527.87	146.64		
02/21/17	17:33:00	1.93194		5636.78	150.68		
02/21/17	17:35:00	1.96528		5747.34	153.08		
02/21/17	17:37:00	1.99861		5856.39	151.31		
02/21/17	17:39:00	2.03194		5964.71	150.18		
02/21/17	17:41:00	2.06528		6071.69	156.02		
02/21/17	17:43:00	2.09861		6177.67	159.23		
02/21/17	17:44:00	2.11528		6181.78	157.75		
02/21/17	17:45:00	2.13194		6200.70	157.02		
02/21/17	17:45:18	2.13694		6206.29	157.25		Gauge at TD=13761 ft SLM.
02/21/17	17:46:00	2.14861		6206.24	159.66		Attempting to softset gauges.
02/21/17	17:46:02	2.14917		6206.11	159.75		Pick up gauge.
02/21/17	17:46:12	2.15194		6203.48	160.18		RIH with gauge.
02/21/17	17:46:16	2.15306		6205.99	160.33		Softset gauges at 13761 ft SLM.
02/21/17	17:47:00	2.16528		6206.34	161.60		
02/21/17	17:50:00	2.21528		6206.55	162.46		



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Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	17:55:00	2.29861		6206.44	162.83		
02/21/17	18:00:00	2.38194		6206.86	163.11		
02/21/17	18:15:00	2.63194		6206.42	163.71		
02/21/17	18:31:00	2.89861		6206.70	163.92		
02/21/17	18:46:00	3.14861		6206.24	164.14		
02/21/17	19:01:00	3.39861		6206.37	164.30		
02/21/17	19:16:00	3.64861		6206.36	164.16		
02/21/17	19:31:00	3.89861		6206.35	165.20		
02/21/17	19:46:00	4.14861		6206.04	165.86		
02/21/17	20:01:00	4.39861		6205.96	166.49		
02/21/17	20:04:35	4.45833		6206.36	166.66		Pumped 25 STB water to fill wellbore.
02/21/17	20:05:00	4.46528		6215.72	166.50		
02/21/17	20:06:00	4.48194		6229.57	163.60		
02/21/17	20:07:00	4.49861		6237.15	161.69		
02/21/17	20:08:00	4.51528		6246.44	156.72		
02/21/17	20:08:26	4.52250		6254.18	156.15		Stopped injection pump.
02/21/17	20:09:00	4.53194		6240.19	157.03		
02/21/17	20:10:00	4.54861		6225.22	156.91		
02/21/17	20:11:00	4.56528		6212.99	156.32		
02/21/17	20:12:00	4.58194		6206.98	155.48		
02/21/17	20:13:00	4.59861		6206.79	155.23		
02/21/17	20:14:00	4.61528		6206.60	155.41		
02/21/17	20:15:00	4.63194		6206.34	155.75		
02/21/17	20:16:00	4.64861		6206.17	156.18		
02/21/17	20:17:00	4.66528		6206.09	156.59		
02/21/17	20:18:00	4.68194		6206.28	156.99		
02/21/17	20:19:00	4.69861		6206.53	157.35		
02/21/17	20:20:00	4.71528		6206.26	157.73		
02/21/17	20:21:00	4.73194		6205.97	158.06		
02/21/17	20:22:00	4.74861		6206.02	158.33		
02/21/17	20:23:00	4.76528		6205.71	158.61		
02/21/17	20:24:00	4.78194		6206.12	158.87		
02/21/17	20:25:00	4.79861		6205.83	159.12		
02/21/17	20:26:00	4.81528		6205.92	159.34		
02/21/17	20:27:00	4.83194		6205.63	159.56		
02/21/17	20:28:00	4.84861		6205.75	159.78		
02/21/17	20:29:00	4.86528		6205.77	159.98		
02/21/17	20:30:00	4.88194		6205.64	160.18		



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Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:31:00	4.89861		6205.99	160.34		
02/21/17	20:32:00	4.91528		6209.85	160.31		
02/21/17	20:32:52	4.92972		6216.05	159.17		Started pumping to fill hole with water.
02/21/17	20:33:00	4.93194		6225.44	159.13		
02/21/17	20:33:12	4.93528		6246.04	159.36		Started injection test #1
02/21/17	20:33:13	4.93556		6252.50	159.39		
02/21/17	20:33:14	4.93583		6256.29	159.44		
02/21/17	20:33:15	4.93611		6259.82	159.48		
02/21/17	20:33:16	4.93639		6262.90	159.51		
02/21/17	20:33:17	4.93667		6265.61	159.55		
02/21/17	20:33:18	4.93694		6266.33	159.57		
02/21/17	20:33:19	4.93722		6269.47	159.59		
02/21/17	20:33:20	4.93750		6271.27	159.61		
02/21/17	20:33:21	4.93778		6273.08	159.61		
02/21/17	20:33:22	4.93806		6274.58	159.60		
02/21/17	20:33:23	4.93833		6275.78	159.59		
02/21/17	20:33:24	4.93861		6277.79	159.57		
02/21/17	20:33:25	4.93889		6278.82	159.55		
02/21/17	20:33:26	4.93917		6280.06	159.52		
02/21/17	20:33:27	4.93944		6281.54	159.49		
02/21/17	20:33:28	4.93972		6282.63	159.46		
02/21/17	20:33:29	4.94000		6283.80	159.42		
02/21/17	20:33:30	4.94028		6284.85	159.38		
02/21/17	20:33:31	4.94056		6285.23	159.34		
02/21/17	20:33:32	4.94083		6286.95	159.29		
02/21/17	20:33:33	4.94111		6287.65	159.24		
02/21/17	20:33:34	4.94139		6288.40	159.18		
02/21/17	20:33:35	4.94167		6289.13	159.11		
02/21/17	20:33:37	4.94222		6290.78	158.98		
02/21/17	20:33:38	4.94250		6291.72	158.91		
02/21/17	20:33:40	4.94306		6292.80	158.77		
02/21/17	20:33:41	4.94333		6293.50	158.69		
02/21/17	20:33:43	4.94389		6294.75	158.54		
02/21/17	20:33:45	4.94444		6296.01	158.38		
02/21/17	20:33:47	4.94500		6297.21	158.18		
02/21/17	20:33:49	4.94556		6297.78	157.94		
02/21/17	20:33:51	4.94611		6297.01	157.68		
02/21/17	20:33:53	4.94667		6294.05	157.39		



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Location: Eddy County, NM
Perfs: 13700 - 15000 ft.(MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft.
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 0-15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:33:56	4.94750		6287.25	156.95		
02/21/17	20:33:58	4.94806		6283.54	156.68		
02/21/17	20:34:01	4.94889		6280.39	156.31		
02/21/17	20:34:04	4.94972		6277.88	155.99		
02/21/17	20:34:07	4.95056		6275.98	155.71		
02/21/17	20:34:10	4.95139		6274.86	155.44		
02/21/17	20:34:14	4.95250		6273.47	155.12		
02/21/17	20:34:17	4.95333		6272.73	154.90		
02/21/17	20:34:21	4.95444		6271.79	154.63		
02/21/17	20:34:25	4.95556		6270.80	154.38		
02/21/17	20:34:30	4.95694		6270.24	154.13		
02/21/17	20:34:34	4.95806		6269.75	153.95		
02/21/17	20:34:39	4.95944		6269.43	153.73		
02/21/17	20:34:44	4.96083		6269.27	153.57		
02/21/17	20:34:49	4.96222		6268.99	153.54		
02/21/17	20:34:55	4.96389		6268.85	153.63		
02/21/17	20:35:01	4.96556		6268.27	153.66		
02/21/17	20:35:08	4.96750		6268.40	153.60		
02/21/17	20:35:15	4.96944		6267.93	153.75		
02/21/17	20:35:22	4.97139		6268.03	153.72		
02/21/17	20:35:29	4.97333		6268.29	153.44		
02/21/17	20:35:38	4.97583		6268.43	153.13		
02/21/17	20:35:46	4.97806		6268.57	152.90		
02/21/17	20:35:55	4.98056		6268.54	152.50		
02/21/17	20:36:05	4.98333		6268.70	151.86		
02/21/17	20:36:15	4.98611		6268.90	151.18		
02/21/17	20:36:26	4.98917		6269.07	150.57		
02/21/17	20:36:37	4.99222		6269.24	150.04		
02/21/17	20:36:50	4.99583		6269.19	149.30		
02/21/17	20:37:02	4.99917		6269.57	148.70		
02/21/17	20:37:16	5.00306		6269.63	148.22		
02/21/17	20:37:30	5.00694		6269.64	147.80		
02/21/17	20:37:46	5.01139		6269.96	147.18		
02/21/17	20:38:02	5.01583		6270.04	146.37		
02/21/17	20:38:19	5.02056		6270.00	145.58		
02/21/17	20:38:37	5.02556		6270.43	144.88		
02/21/17	20:38:49	5.02889		6270.13	144.44		Water Injection Rate = 5.5 STB/min.
02/21/17	20:38:50	5.02917		6270.13	144.41		Started injection test. #2



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RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
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Field: Unavailable
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Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:38:51	5.02944		6271.51	144.38		
02/21/17	20:38:52	5.02972		6273.38	144.35		
02/21/17	20:38:53	5.03000		6274.24	144.31		
02/21/17	20:38:54	5.03028		6275.94	144.28		
02/21/17	20:38:55	5.03056		6277.29	144.25		
02/21/17	20:38:56	5.03083		6279.63	144.22		
02/21/17	20:38:57	5.03111		6280.98	144.19		
02/21/17	20:38:58	5.03139		6282.31	144.16		
02/21/17	20:38:59	5.03167		6283.34	144.12		
02/21/17	20:39:00	5.03194		6284.14	144.10		
02/21/17	20:39:01	5.03222		6285.09	144.06		
02/21/17	20:39:02	5.03250		6285.99	144.02		
02/21/17	20:39:03	5.03278		6286.32	143.99		
02/21/17	20:39:04	5.03306		6287.49	143.95		
02/21/17	20:39:05	5.03333		6288.13	143.91		
02/21/17	20:39:06	5.03361		6288.94	143.87		
02/21/17	20:39:07	5.03389		6288.97	143.83		
02/21/17	20:39:08	5.03417		6289.58	143.78		
02/21/17	20:39:09	5.03444		6290.76	143.75		
02/21/17	20:39:10	5.03472		6291.27	143.70		
02/21/17	20:39:11	5.03500		6291.91	143.66		
02/21/17	20:39:12	5.03528		6292.24	143.60		
02/21/17	20:39:13	5.03556		6292.85	143.56		
02/21/17	20:39:15	5.03611		6293.89	143.46		
02/21/17	20:39:16	5.03639		6294.57	143.41		
02/21/17	20:39:18	5.03694		6295.31	143.31		
02/21/17	20:39:19	5.03722		6295.71	143.26		
02/21/17	20:39:21	5.03778		6296.04	143.15		
02/21/17	20:39:23	5.03833		6297.13	143.04		
02/21/17	20:39:25	5.03889		6297.48	142.93		
02/21/17	20:39:27	5.03944		6297.85	142.82		
02/21/17	20:39:29	5.04000		6298.70	142.71		
02/21/17	20:39:31	5.04056		6298.85	142.60		
02/21/17	20:39:34	5.04139		6299.79	142.44		
02/21/17	20:39:36	5.04194		6300.30	142.34		
02/21/17	20:39:39	5.04278		6300.70	142.20		
02/21/17	20:39:42	5.04361		6301.09	142.07		
02/21/17	20:39:45	5.04444		6301.27	141.94		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft. (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft.
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:39:48	5.04528		6302.08	141.82		
02/21/17	20:39:52	5.04639		6302.74	141.67		
02/21/17	20:39:55	5.04722		6303.05	141.56		
02/21/17	20:39:59	5.04833		6303.60	141.41		
02/21/17	20:40:03	5.04944		6304.00	141.27		
02/21/17	20:40:08	5.05083		6304.60	141.08		
02/21/17	20:40:12	5.05194		6304.76	140.93		
02/21/17	20:40:17	5.05333		6305.03	140.73		
02/21/17	20:40:22	5.05472		6305.48	140.51		
02/21/17	20:40:27	5.05611		6305.78	140.28		
02/21/17	20:40:33	5.05778		6306.01	139.97		
02/21/17	20:40:39	5.05944		6306.37	139.67		
02/21/17	20:40:46	5.06139		6306.79	139.32		
02/21/17	20:40:53	5.06333		6307.28	139.01		
02/21/17	20:41:00	5.06528		6307.52	138.72		
02/21/17	20:41:07	5.06722		6307.51	138.43		
02/21/17	20:41:16	5.06972		6308.09	138.05		
02/21/17	20:41:24	5.07194		6308.26	137.71		
02/21/17	20:41:33	5.07444		6308.41	137.29		
02/21/17	20:41:43	5.07722		6308.69	136.84		
02/21/17	20:41:53	5.08000		6308.69	136.44		
02/21/17	20:42:04	5.08306		6309.07	136.09		
02/21/17	20:42:15	5.08611		6309.04	135.78		
02/21/17	20:42:28	5.08972		6309.56	135.47		
02/21/17	20:42:40	5.09306		6309.64	135.21		
02/21/17	20:42:54	5.09694		6309.91	134.86		
02/21/17	20:43:08	5.10083		6310.19	134.41		
02/21/17	20:43:24	5.10528		6310.09	133.78		
02/21/17	20:43:40	5.10972		6310.60	133.17		
02/21/17	20:43:57	5.11444		6310.96	132.62		
02/21/17	20:44:15	5.11944		6311.45	132.08		
02/21/17	20:44:34	5.12472		6312.01	131.52		
02/21/17	20:44:55	5.13056		6311.77	130.91		
02/21/17	20:44:58	5.13139		6311.81	130.82		Water Injection Rate = 7.36 STB/min
02/21/17	20:44:59	5.13167		6312.12	130.80		Started injection test #3
02/21/17	20:45:00	5.13194		6312.64	130.77		
02/21/17	20:45:01	5.13222		6314.52	130.75		
02/21/17	20:45:02	5.13250		6315.43	130.72		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:45:03	5.13278		6316.67	130.69		
02/21/17	20:45:04	5.13306		6318.19	130.66		
02/21/17	20:45:05	5.13333		6320.11	130.64		
02/21/17	20:45:06	5.13361		6321.59	130.61		
02/21/17	20:45:07	5.13389		6323.61	130.59		
02/21/17	20:45:08	5.13417		6325.34	130.56		
02/21/17	20:45:09	5.13444		6326.87	130.53		
02/21/17	20:45:10	5.13472		6327.73	130.51		
02/21/17	20:45:11	5.13500		6329.59	130.49		
02/21/17	20:45:12	5.13528		6330.31	130.46		
02/21/17	20:45:13	5.13556		6331.28	130.43		
02/21/17	20:45:14	5.13583		6332.24	130.41		
02/21/17	20:45:15	5.13611		6333.10	130.38		
02/21/17	20:45:16	5.13639		6334.25	130.35		
02/21/17	20:45:17	5.13667		6334.73	130.32		
02/21/17	20:45:18	5.13694		6335.42	130.29		
02/21/17	20:45:19	5.13722		6336.27	130.26		
02/21/17	20:45:20	5.13750		6336.88	130.23		
02/21/17	20:45:21	5.13778		6337.32	130.20		
02/21/17	20:45:22	5.13806		6337.86	130.16		
02/21/17	20:45:24	5.13861		6338.78	130.10		
02/21/17	20:45:25	5.13889		6339.34	130.07		
02/21/17	20:45:27	5.13944		6340.26	130.00		
02/21/17	20:45:28	5.13972		6340.92	129.96		
02/21/17	20:45:30	5.14028		6341.68	129.89		
02/21/17	20:45:32	5.14083		6342.69	129.81		
02/21/17	20:45:34	5.14139		6343.59	129.74		
02/21/17	20:45:36	5.14194		6343.87	129.66		
02/21/17	20:45:38	5.14250		6344.89	129.59		
02/21/17	20:45:40	5.14306		6345.35	129.51		
02/21/17	20:45:43	5.14389		6346.16	129.39		
02/21/17	20:45:45	5.14444		6346.41	129.31		
02/21/17	20:45:48	5.14528		6347.61	129.20		
02/21/17	20:45:51	5.14611		6348.44	129.09		
02/21/17	20:45:54	5.14694		6349.01	128.97		
02/21/17	20:45:57	5.14778		6349.35	128.86		
02/21/17	20:46:01	5.14889		6350.18	128.72		
02/21/17	20:46:04	5.14972		6350.93	128.62		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:46:08	5.15083		6351.61	128.48		
02/21/17	20:46:12	5.15194		6352.16	128.35		
02/21/17	20:46:17	5.15333		6352.98	128.18		
02/21/17	20:46:21	5.15444		6353.56	128.05		
02/21/17	20:46:26	5.15583		6354.01	127.88		
02/21/17	20:46:31	5.15722		6354.31	127.70		
02/21/17	20:46:36	5.15861		6355.01	127.50		
02/21/17	20:46:42	5.16028		6355.57	127.28		
02/21/17	20:46:48	5.16194		6356.33	127.06		
02/21/17	20:46:55	5.16389		6356.92	126.79		
02/21/17	20:47:02	5.16583		6357.67	126.52		
02/21/17	20:47:09	5.16778		6358.10	126.27		
02/21/17	20:47:16	5.16972		6358.57	126.00		
02/21/17	20:47:25	5.17222		6359.23	125.66		
02/21/17	20:47:33	5.17444		6359.43	125.36		
02/21/17	20:47:42	5.17694		6360.06	125.03		
02/21/17	20:47:52	5.17972		6360.48	124.69		
02/21/17	20:48:02	5.18250		6360.64	124.36		
02/21/17	20:48:13	5.18556		6361.26	124.01		
02/21/17	20:48:24	5.18861		6361.27	123.68		
02/21/17	20:48:37	5.19222		6361.42	123.29		
02/21/17	20:48:49	5.19556		6361.64	122.93		
02/21/17	20:49:03	5.19944		6362.29	122.53		
02/21/17	20:49:17	5.20333		6362.40	122.13		
02/21/17	20:49:33	5.20778		6362.84	121.67		
02/21/17	20:49:49	5.21222		6363.19	121.23		
02/21/17	20:50:06	5.21694		6362.88	120.77		
02/21/17	20:50:24	5.22194		6363.12	120.28		
02/21/17	20:50:43	5.22722		6363.63	119.78		
02/21/17	20:51:04	5.23306		6363.78	119.24		
02/21/17	20:51:25	5.23889		6364.14	118.71		
02/21/17	20:51:48	5.24528		6364.57	118.16		
02/21/17	20:52:10	5.25139		6364.78	117.66		Water Injection Rate = 7.51 STB/min
02/21/17	20:52:11	5.25167		6364.48	117.64		Started injection test #4
02/21/17	20:52:12	5.25194		6365.15	117.61		
02/21/17	20:52:13	5.25222		6365.65	117.59		
02/21/17	20:52:14	5.25250		6366.05	117.57		
02/21/17	20:52:15	5.25278		6367.26	117.55		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:52:16	5.25306		6368.82	117.53		
02/21/17	20:52:17	5.25333		6370.02	117.51		
02/21/17	20:52:18	5.25361		6371.47	117.48		
02/21/17	20:52:19	5.25389		6373.47	117.46		
02/21/17	20:52:20	5.25417		6375.18	117.43		
02/21/17	20:52:21	5.25444		6376.34	117.41		
02/21/17	20:52:22	5.25472		6378.25	117.39		
02/21/17	20:52:23	5.25500		6379.40	117.36		
02/21/17	20:52:24	5.25528		6380.57	117.34		
02/21/17	20:52:25	5.25556		6381.22	117.31		
02/21/17	20:52:26	5.25583		6382.29	117.29		
02/21/17	20:52:27	5.25611		6383.54	117.27		
02/21/17	20:52:28	5.25639		6384.42	117.25		
02/21/17	20:52:29	5.25667		6384.99	117.22		
02/21/17	20:52:30	5.25694		6385.94	117.19		
02/21/17	20:52:31	5.25722		6386.31	117.17		
02/21/17	20:52:32	5.25750		6387.19	117.14		
02/21/17	20:52:33	5.25778		6387.88	117.11		
02/21/17	20:52:34	5.25806		6388.35	117.09		
02/21/17	20:52:36	5.25861		6389.76	117.04		
02/21/17	20:52:37	5.25889		6389.97	117.00		
02/21/17	20:52:39	5.25944		6391.24	116.95		
02/21/17	20:52:40	5.25972		6391.75	116.93		
02/21/17	20:52:42	5.26028		6392.93	116.87		
02/21/17	20:52:44	5.26083		6393.82	116.81		
02/21/17	20:52:46	5.26139		6394.18	116.75		
02/21/17	20:52:48	5.26194		6395.12	116.69		
02/21/17	20:52:50	5.26250		6395.76	116.64		
02/21/17	20:52:52	5.26306		6396.55	116.58		
02/21/17	20:52:55	5.26389		6397.51	116.49		
02/21/17	20:52:57	5.26444		6397.95	116.43		
02/21/17	20:53:00	5.26528		6398.64	116.34		
02/21/17	20:53:03	5.26611		6399.34	116.25		
02/21/17	20:53:06	5.26694		6400.31	116.16		
02/21/17	20:53:09	5.26778		6400.59	116.07		
02/21/17	20:53:13	5.26889		6401.64	115.95		
02/21/17	20:53:16	5.26972		6401.92	115.86		
02/21/17	20:53:20	5.27083		6402.89	115.75		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft. (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft. at 8
Gauge Type: Electronic
Gauge SN: DC-353654
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	20:53:24	5.27194		6403.23	115.64		
02/21/17	20:53:29	5.27333		6403.98	115.50		
02/21/17	20:53:33	5.27444		6404.78	115.41		
02/21/17	20:53:38	5.27583		6405.30	115.28		
02/21/17	20:53:43	5.27722		6406.37	115.16		
02/21/17	20:53:48	5.27861		6406.62	115.02		
02/21/17	20:53:54	5.28028		6407.07	114.87		
02/21/17	20:54:00	5.28194		6407.44	114.71		
02/21/17	20:54:07	5.28389		6408.23	114.53		
02/21/17	20:54:14	5.28583		6408.69	114.35		
02/21/17	20:54:21	5.28778		6409.00	114.17		
02/21/17	20:54:28	5.28972		6409.80	114.00		
02/21/17	20:54:37	5.29222		6410.19	113.77		
02/21/17	20:54:45	5.29444		6410.56	113.58		
02/21/17	20:54:54	5.29694		6411.02	113.38		
02/21/17	20:55:04	5.29972		6411.33	113.16		
02/21/17	20:55:14	5.30250		6411.55	112.95		
02/21/17	20:55:25	5.30556		6412.00	112.73		
02/21/17	20:55:36	5.30861		6412.40	112.50		
02/21/17	20:55:49	5.31222		6412.89	112.24		
02/21/17	20:56:01	5.31556		6413.19	111.98		
02/21/17	20:56:15	5.31944		6413.61	111.71		
02/21/17	20:56:29	5.32333		6413.73	111.46		
02/21/17	20:56:45	5.32778		6414.20	111.23		
02/21/17	20:57:01	5.33222		6414.16	111.04		
02/21/17	20:57:18	5.33694		6414.54	110.87		
02/21/17	20:57:36	5.34194		6414.56	110.72		
02/21/17	20:57:55	5.34722		6414.76	110.59		
02/21/17	20:58:16	5.35306		6415.26	110.45		
02/21/17	20:58:37	5.35889		6415.51	110.28		
02/21/17	20:59:00	5.36528		6415.34	110.09		
02/21/17	20:59:25	5.37222		6415.74	109.90		
02/21/17	20:59:50	5.37917		6416.00	109.73		
02/21/17	21:00:17	5.38667		6416.18	109.58		
02/21/17	21:00:46	5.39472		6416.32	109.44		
02/21/17	21:00:59	5.39833		6417.08	109.38		Water Injection Rate = 11 STB/min. In 10:00 AM
02/21/17	21:01:00	5.39861		6416.85	109.38		Started injection test: #5
02/21/17	21:01:01	5.39889		6417.93	109.38		

		FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332					
		RESERVOIR PRESSURE MONITOR TEST					
Company: Matador Production Company Well: Black River SWD No. 1 Field: Unavailable Location: Eddy County, NM Perfs: 13700 - 15000 ft (MD) Formation: Devonian						Test Date: 02/21 - 02/22/2017 Gauge Depth: 13761 ft Gauge Type: Electronic Gauge SN: DC-3536 Gauge Range: 15000 psi Gauge OD: 1.2500"	
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:01:02	5.39917		6418.98	109.37		
02/21/17	21:01:03	5.39944		6419.94	109.36		
02/21/17	21:01:04	5.39972		6421.06	109.36		
02/21/17	21:01:05	5.40000		6422.87	109.36		
02/21/17	21:01:06	5.40028		6424.11	109.36		
02/21/17	21:01:07	5.40056		6424.87	109.35		
02/21/17	21:01:08	5.40083		6426.05	109.35		
02/21/17	21:01:09	5.40111		6427.26	109.35		
02/21/17	21:01:10	5.40139		6428.05	109.34		
02/21/17	21:01:11	5.40167		6428.87	109.33		
02/21/17	21:01:12	5.40194		6429.85	109.34		
02/21/17	21:01:13	5.40222		6430.41	109.33		
02/21/17	21:01:14	5.40250		6431.31	109.32		
02/21/17	21:01:15	5.40278		6431.68	109.32		
02/21/17	21:01:16	5.40306		6432.47	109.31		
02/21/17	21:01:17	5.40333		6432.79	109.31		
02/21/17	21:01:18	5.40361		6433.61	109.30		
02/21/17	21:01:19	5.40389		6433.99	109.30		
02/21/17	21:01:20	5.40417		6434.49	109.29		
02/21/17	21:01:21	5.40444		6434.99	109.29		
02/21/17	21:01:22	5.40472		6435.14	109.28		
02/21/17	21:01:23	5.40500		6435.68	109.28		
02/21/17	21:01:25	5.40556		6436.59	109.26		
02/21/17	21:01:26	5.40583		6436.97	109.25		
02/21/17	21:01:28	5.40639		6437.66	109.24		
02/21/17	21:01:29	5.40667		6438.35	109.23		
02/21/17	21:01:31	5.40722		6438.59	109.22		
02/21/17	21:01:33	5.40778		6439.60	109.20		
02/21/17	21:01:35	5.40833		6440.24	109.20		
02/21/17	21:01:37	5.40889		6440.43	109.18		
02/21/17	21:01:39	5.40944		6441.32	109.16		
02/21/17	21:01:41	5.41000		6441.31	109.14		
02/21/17	21:01:44	5.41083		6442.38	109.13		
02/21/17	21:01:46	5.41139		6442.38	109.11		
02/21/17	21:01:49	5.41222		6443.34	109.09		
02/21/17	21:01:52	5.41306		6443.81	109.07		
02/21/17	21:01:55	5.41389		6443.95	109.04		
02/21/17	21:01:58	5.41472		6444.97	109.02		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:02:02	5.41583		6445.60	108.99		
02/21/17	21:02:05	5.41667		6446.20	108.97		
02/21/17	21:02:09	5.41778		6446.53	108.94		
02/21/17	21:02:13	5.41889		6446.72	108.91		
02/21/17	21:02:18	5.42028		6447.50	108.86		
02/21/17	21:02:22	5.42139		6448.29	108.84		
02/21/17	21:02:27	5.42278		6448.69	108.80		
02/21/17	21:02:32	5.42417		6448.90	108.76		
02/21/17	21:02:37	5.42556		6449.35	108.72		
02/21/17	21:02:43	5.42722		6450.02	108.68		
02/21/17	21:02:49	5.42889		6450.27	108.63		
02/21/17	21:02:56	5.43083		6450.60	108.58		
02/21/17	21:03:03	5.43278		6451.18	108.52		
02/21/17	21:03:10	5.43472		6451.59	108.48		
02/21/17	21:03:17	5.43667		6452.27	108.42		
02/21/17	21:03:26	5.43917		6452.36	108.36		
02/21/17	21:03:34	5.44139		6452.79	108.30		
02/21/17	21:03:43	5.44389		6453.19	108.24		
02/21/17	21:03:53	5.44667		6453.42	108.17		
02/21/17	21:04:03	5.44944		6453.56	108.10		
02/21/17	21:04:14	5.45250		6454.03	108.03		
02/21/17	21:04:25	5.45556		6454.25	107.95		
02/21/17	21:04:38	5.45917		6454.82	107.87		
02/21/17	21:04:50	5.46250		6455.18	107.80		
02/21/17	21:05:04	5.46639		6455.23	107.72		
02/21/17	21:05:18	5.47028		6455.73	107.63		
02/21/17	21:05:34	5.47472		6455.64	107.55		
02/21/17	21:05:50	5.47917		6455.99	107.45		
02/21/17	21:06:07	5.48389		6456.27	107.35		
02/21/17	21:06:25	5.48889		6456.71	107.25		
02/21/17	21:06:44	5.49417		6456.74	107.14		
02/21/17	21:07:05	5.50000		6457.01	107.03		
02/21/17	21:07:26	5.50583		6457.36	106.92		
02/21/17	21:07:49	5.51222		6457.35	106.81		
02/21/17	21:08:14	5.51917		6457.41	106.70		
02/21/17	21:08:39	5.52611		6457.74	106.58		
02/21/17	21:09:06	5.53361		6458.06	106.47		
02/21/17	21:09:35	5.54167		6457.88	106.36		

		FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332						
		RESERVOIR PRESSURE MONITOR TEST						
Company: Matador Production Company Well: Black River SWD No. 1 Field: Unavailable Location: Eddy County, NM Perfs: 13700 - 15000 ft (MD) Formation: Devonian						Test Date: 02/21 - 02/22/2017 Gauge Depth: 13761 ft Gauge Type: Electronic Gauge SN: DC-3536 Gauge Range: 15000 psi Gauge OD: 1.2500"		
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments	
02/21/17	21:10:06	5.55028		6458.32	106.23			
02/21/17	21:10:38	5.55917		6458.79	106.11			
02/21/17	21:11:12	5.56861		6458.71	105.98			
02/21/17	21:11:48	5.57861		6458.89	105.84			
02/21/17	21:12:27	5.58944		6458.70	105.69			
02/21/17	21:13:07	5.60056		6459.22	105.55			
02/21/17	21:13:51	5.61278		6459.13	105.40			
02/21/17	21:14:36	5.62528		6459.54	105.27			
02/21/17	21:15:25	5.63889		6460.04	105.12			
02/21/17	21:16:16	5.65306		6459.95	104.98			
02/21/17	21:16:24	5.65528		6459.51	104.96		Water Injection Rate = 12 STB/min.	
02/21/17	21:16:25	5.65556		6459.38	104.96		Shut in well for falloff test.	
02/21/17	21:16:26	5.65583		6454.94	104.95			
02/21/17	21:16:27	5.65611		6448.55	104.95			
02/21/17	21:16:28	5.65639		6440.29	104.94			
02/21/17	21:16:29	5.65667		6429.95	104.93			
02/21/17	21:16:30	5.65694		6421.32	104.93			
02/21/17	21:16:31	5.65722		6412.58	104.92			
02/21/17	21:16:32	5.65750		6403.80	104.91			
02/21/17	21:16:33	5.65778		6395.90	104.91			
02/21/17	21:16:34	5.65806		6388.69	104.91			
02/21/17	21:16:35	5.65833		6381.78	104.91			
02/21/17	21:16:36	5.65861		6375.80	104.90			
02/21/17	21:16:37	5.65889		6369.82	104.89			
02/21/17	21:16:38	5.65917		6364.31	104.89			
02/21/17	21:16:39	5.65944		6359.13	104.89			
02/21/17	21:16:40	5.65972		6354.87	104.89			
02/21/17	21:16:41	5.66000		6350.66	104.88			
02/21/17	21:16:42	5.66028		6346.62	104.88			
02/21/17	21:16:43	5.66056		6342.84	104.89			
02/21/17	21:16:44	5.66083		6339.09	104.89			
02/21/17	21:16:45	5.66111		6336.06	104.89			
02/21/17	21:16:46	5.66139		6333.08	104.89			
02/21/17	21:16:47	5.66167		6330.54	104.89			
02/21/17	21:16:48	5.66194		6327.64	104.89			
02/21/17	21:16:49	5.66222		6325.12	104.90			
02/21/17	21:16:50	5.66250		6322.49	104.89			
02/21/17	21:16:51	5.66278		6320.26	104.90			



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700-15000 ft.(MD)
Formation: Devonian

Test Date: 02/21-02/22/2017
Gauge Depth: 13761 ft.
Gauge Type: Electronic
Gauge SN: DC-35363
Gauge Range: 0-15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:16:52	5.66306		6318.46	104.91		
02/21/17	21:16:53	5.66333		6316.00	104.91		
02/21/17	21:16:54	5.66361		6314.00	104.92		
02/21/17	21:16:55	5.66389		6312.26	104.92		
02/21/17	21:16:56	5.66417		6310.41	104.93		
02/21/17	21:16:57	5.66444		6308.59	104.94		
02/21/17	21:16:59	5.66500		6305.17	104.95		
02/21/17	21:17:00	5.66528		6303.73	104.96		
02/21/17	21:17:01	5.66556		6302.21	104.97		
02/21/17	21:17:03	5.66611		6299.08	104.99		
02/21/17	21:17:04	5.66639		6297.72	105.00		
02/21/17	21:17:06	5.66694		6295.05	105.03		
02/21/17	21:17:07	5.66722		6293.91	105.04		
02/21/17	21:17:09	5.66778		6291.52	105.07		
02/21/17	21:17:10	5.66806		6289.76	105.08		
02/21/17	21:17:12	5.66861		6288.00	105.11		
02/21/17	21:17:14	5.66917		6285.54	105.14		
02/21/17	21:17:16	5.66972		6283.58	105.17		
02/21/17	21:17:18	5.67028		6281.39	105.21		
02/21/17	21:17:20	5.67083		6279.41	105.25		
02/21/17	21:17:22	5.67139		6277.79	105.28		
02/21/17	21:17:24	5.67194		6275.49	105.32		
02/21/17	21:17:27	5.67278		6273.10	105.38		
02/21/17	21:17:29	5.67333		6271.43	105.41		
02/21/17	21:17:32	5.67417		6269.28	105.47		
02/21/17	21:17:34	5.67472		6267.86	105.51		
02/21/17	21:17:37	5.67556		6265.64	105.57		
02/21/17	21:17:40	5.67639		6263.66	105.63		
02/21/17	21:17:43	5.67722		6261.37	105.69		
02/21/17	21:17:46	5.67806		6259.59	105.76		
02/21/17	21:17:49	5.67889		6258.10	105.83		
02/21/17	21:17:52	5.67972		6256.20	105.90		
02/21/17	21:17:55	5.68056		6254.44	105.96		
02/21/17	21:17:59	5.68167		6252.35	106.06		
02/21/17	21:18:02	5.68250		6250.54	106.12		
02/21/17	21:18:06	5.68361		6248.43	106.21		
02/21/17	21:18:10	5.68472		6246.99	106.30		
02/21/17	21:18:14	5.68583		6245.03	106.40		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:18:19	5.68722		6242.55	106.50		
02/21/17	21:18:23	5.68833		6240.75	106.59		
02/21/17	21:18:28	5.68972		6239.02	106.70		
02/21/17	21:18:32	5.69083		6237.05	106.79		
02/21/17	21:18:37	5.69222		6235.47	106.90		
02/21/17	21:18:42	5.69361		6233.61	107.01		
02/21/17	21:18:48	5.69528		6231.15	107.13		
02/21/17	21:18:53	5.69667		6230.00	107.23		
02/21/17	21:18:59	5.69833		6228.05	107.36		
02/21/17	21:19:05	5.70000		6226.24	107.49		
02/21/17	21:19:11	5.70167		6224.57	107.61		
02/21/17	21:19:18	5.70361		6222.80	107.76		
02/21/17	21:19:25	5.70556		6221.10	107.89		
02/21/17	21:19:32	5.70750		6219.54	108.03		
02/21/17	21:19:39	5.70944		6217.87	108.16		
02/21/17	21:19:46	5.71139		6216.69	108.30		
02/21/17	21:19:54	5.71361		6215.22	108.45		
02/21/17	21:20:03	5.71611		6214.19	108.62		
02/21/17	21:20:11	5.71833		6213.11	108.75		
02/21/17	21:20:20	5.72083		6212.06	108.90		
02/21/17	21:20:29	5.72333		6211.13	109.02		
02/21/17	21:20:39	5.72611		6210.66	109.15		
02/21/17	21:20:48	5.72861		6210.14	109.25		
02/21/17	21:20:59	5.73167		6209.78	109.37		
02/21/17	21:21:09	5.73444		6209.77	109.46		
02/21/17	21:21:21	5.73778		6209.40	109.57		
02/21/17	21:21:32	5.74083		6209.70	109.66		
02/21/17	21:21:44	5.74417		6209.64	109.76		
02/21/17	21:21:57	5.74778		6209.29	109.88		
02/21/17	21:22:09	5.75111		6208.90	110.00		
02/21/17	21:22:23	5.75500		6208.76	110.14		
02/21/17	21:22:37	5.75889		6208.90	110.25		
02/21/17	21:22:51	5.76278		6208.91	110.37		
02/21/17	21:23:07	5.76722		6208.58	110.52		
02/21/17	21:23:22	5.77139		6208.50	110.67		
02/21/17	21:23:39	5.77611		6208.22	110.85		
02/21/17	21:23:55	5.78056		6208.06	111.03		
02/21/17	21:24:13	5.78556		6208.25	111.25		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700-15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:24:31	5.79056		6207.74	111.50		
02/21/17	21:24:50	5.79583		6207.92	111.76		
02/21/17	21:25:10	5.80139		6208.07	112.01		
02/21/17	21:25:31	5.80722		6207.71	112.26		
02/21/17	21:25:52	5.81306		6207.81	112.53		
02/21/17	21:26:14	5.81917		6207.84	112.83		
02/21/17	21:26:37	5.82556		6207.54	113.15		
02/21/17	21:27:01	5.83222		6207.65	113.48		
02/21/17	21:27:26	5.83917		6207.64	113.84		
02/21/17	21:27:52	5.84639		6207.50	114.23		
02/21/17	21:28:19	5.85389		6207.66	114.60		
02/21/17	21:28:47	5.86167		6207.28	114.94		
02/21/17	21:29:16	5.86972		6207.07	115.29		
02/21/17	21:29:46	5.87806		6207.38	115.65		
02/21/17	21:30:17	5.88667		6207.15	116.01		
02/21/17	21:30:50	5.89583		6207.09	116.38		
02/21/17	21:31:23	5.90500		6207.15	116.78		
02/21/17	21:31:58	5.91472		6207.03	117.21		
02/21/17	21:32:35	5.92500		6206.93	117.65		
02/21/17	21:33:13	5.93556		6207.07	118.11		
02/21/17	21:33:52	5.94639		6206.94	118.56		
02/21/17	21:34:33	5.95778		6206.46	119.00		
02/21/17	21:35:16	5.96972		6206.56	119.42		
02/21/17	21:36:00	5.98194		6206.85	119.89		
02/21/17	21:36:46	5.99472		6206.65	120.40		
02/21/17	21:37:34	6.00806		6206.85	120.90		
02/21/17	21:38:23	6.02167		6206.55	121.39		
02/21/17	21:39:15	6.03611		6206.31	121.90		
02/21/17	21:40:08	6.05083		6206.39	122.42		
02/21/17	21:41:04	6.06639		6206.31	122.95		
02/21/17	21:42:02	6.08250		6206.31	123.44		
02/21/17	21:43:02	6.09917		6206.19	123.94		
02/21/17	21:44:05	6.11667		6206.25	124.47		
02/21/17	21:45:09	6.13444		6206.31	125.00		
02/21/17	21:46:17	6.15333		6206.26	125.55		
02/21/17	21:47:27	6.17278		6206.39	126.13		
02/21/17	21:48:40	6.19306		6206.38	126.66		
02/21/17	21:49:55	6.21389		6206.21	127.14		



FESCO, Ltd.
1000 Fesco Ave. Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	21:51:14	6.23583		6206.24	127.72		
02/21/17	21:52:36	6.25861		6206.11	128.32		
02/21/17	21:54:01	6.28222		6206.41	128.91		
02/21/17	21:55:29	6.30667		6206.13	129.52		
02/21/17	21:57:01	6.33222		6206.07	130.17		
02/21/17	21:58:36	6.35861		6206.10	130.72		
02/21/17	22:00:15	6.38611		6205.87	131.32		
02/21/17	22:01:58	6.41472		6205.92	131.98		
02/21/17	22:03:45	6.44444		6205.81	132.63		
02/21/17	22:05:36	6.47528		6205.42	133.22		
02/21/17	22:07:31	6.50722		6205.69	133.91		
02/21/17	22:09:31	6.54056		6205.89	134.56		
02/21/17	22:11:36	6.57528		6205.38	135.26		
02/21/17	22:13:45	6.61111		6205.71	135.91		
02/21/17	22:16:00	6.64861		6205.56	136.60		
02/21/17	22:18:20	6.68750		6205.46	137.20		
02/21/17	22:20:45	6.72778		6205.39	137.87		
02/21/17	22:23:16	6.76972		6205.38	138.58		
02/21/17	22:25:53	6.81333		6205.12	139.26		
02/21/17	22:28:36	6.85861		6205.34	139.96		
02/21/17	22:31:25	6.90556		6205.52	140.65		
02/21/17	22:34:21	6.95444		6205.20	141.37		
02/21/17	22:37:24	7.00528		6205.20	142.09		
02/21/17	22:40:34	7.05806		6205.43	142.78		
02/21/17	22:43:52	7.11306		6205.25	143.47		
02/21/17	22:47:17	7.17000		6205.15	144.21		
02/21/17	22:50:50	7.22917		6205.15	144.92		
02/21/17	22:54:32	7.29083		6205.16	145.64		
02/21/17	22:58:22	7.35472		6204.88	146.34		
02/21/17	23:02:22	7.42139		6204.95	147.05		
02/21/17	23:06:30	7.49028		6205.15	147.75		
02/21/17	23:10:49	7.56222		6205.10	148.47		
02/21/17	23:15:17	7.63667		6204.87	149.16		
02/21/17	23:19:56	7.71417		6204.79	149.87		
02/21/17	23:24:46	7.79472		6205.12	150.57		
02/21/17	23:29:47	7.87833		6204.84	151.27		
02/21/17	23:35:00	7.96528		6205.08	151.96		
02/21/17	23:40:26	8.05583		6204.89	152.68		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/21/17	23:46:04	8.14972		6204.64	153.34		
02/21/17	23:51:55	8.24722		6204.80	154.03		
02/21/17	23:58:00	8.34861		6204.73	154.70		
02/22/17	00:04:19	8.45389		6204.83	155.38		
02/22/17	00:10:53	8.56333		6204.59	156.05		
02/22/17	00:17:43	8.67722		6204.65	156.70		
02/22/17	00:24:48	8.79528		6204.68	156.51		
02/22/17	00:32:11	8.91833		6204.86	157.08		
02/22/17	00:39:50	9.04583		6204.96	157.69		
02/22/17	00:47:48	9.17861		6204.83	158.20		
02/22/17	00:56:04	9.31639		6204.56	158.74		
02/22/17	01:04:39	9.45944		6204.51	159.27		
02/22/17	01:13:35	9.60833		6204.66	159.80		
02/22/17	01:22:52	9.76306		6204.72	160.34		
02/22/17	01:32:30	9.92361		6204.42	160.81		
02/22/17	01:42:31	10.09056		6204.41	161.36		
02/22/17	01:52:56	10.26417		6204.27	161.96		
02/22/17	02:03:45	10.44444		6204.61	162.66		
02/22/17	02:14:59	10.63167		6204.49	163.18		
02/22/17	02:26:40	10.82639		6204.57	163.77		
02/22/17	02:38:48	11.02861		6204.35	164.40		
02/22/17	02:51:25	11.23889		6204.34	164.97		
02/22/17	03:04:32	11.45750		6204.62	165.54		
02/22/17	03:18:09	11.68444		6204.37	166.01		
02/22/17	03:32:18	11.92028		6204.54	165.40		
02/22/17	03:47:00	12.16528		6204.58	166.60		
02/22/17	04:02:17	12.42000		6204.93	167.50		
02/22/17	04:18:10	12.68472		6204.57	167.92		
02/22/17	04:34:39	12.95944		6204.39	168.14		
02/22/17	04:51:48	13.24528		6204.27	168.44		
02/22/17	05:09:37	13.54222		6204.10	168.74		
02/22/17	05:28:08	13.85083		6204.59	169.14		
02/22/17	05:47:22	14.17139		6204.50	169.76		
02/22/17	06:07:21	14.50444		6204.65	170.32		
02/22/17	06:28:08	14.85083		6204.45	170.36		
02/22/17	06:49:43	15.21056		6204.35	170.60		
02/22/17	07:12:08	15.58417		6204.19	171.76		
02/22/17	07:35:27	15.97278		6204.46	172.27		



FESCO, Ltd.
1000 Fesco Ave. - Alice, Texas 78332



RESERVOIR PRESSURE MONITOR TEST

Company: Matador Production Company
Well: Black River SWD No. 1
Field: Unavailable
Location: Eddy County, NM
Perfs: 13700 - 15000 ft (MD)
Formation: Devonian

Test Date: 02/21 - 02/22/2017
Gauge Depth: 13761 ft
Gauge Type: Electronic
Gauge SN: DC-3536
Gauge Range: 15000 psi
Gauge OD: 1.2500"

Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/22/17	07:59:40	16.37639		6204.56	169.30		
02/22/17	08:00:07	16.38389		6204.40	169.33		Latched previously softset gauges.
02/22/17	08:01:00	16.39861		6203.87	169.42		
02/22/17	08:02:00	16.41528		6203.47	169.56		
02/22/17	08:03:53	16.44667		6204.70	167.85		POOH with latched gauges.
02/22/17	08:04:00	16.44861		6201.20	167.87		
02/22/17	08:06:00	16.48194		6096.95	170.51		
02/22/17	08:08:00	16.51528		5935.64	162.99		
02/22/17	08:10:00	16.54861		5771.60	160.73		
02/22/17	08:12:00	16.58194		5606.45	161.03		
02/22/17	08:14:00	16.61528		5439.91	156.22		
02/22/17	08:16:01	16.64889		5270.46	152.83		
02/22/17	08:18:01	16.68222		5102.10	147.12		
02/22/17	08:20:01	16.71556		4931.91	144.16		
02/22/17	08:22:01	16.74889		4759.97	139.84		
02/22/17	08:24:01	16.78222		4587.24	135.49		
02/22/17	08:26:01	16.81556		4412.58	132.63		
02/22/17	08:28:01	16.84889		4237.19	129.78		
02/22/17	08:30:01	16.88222		4060.46	129.09		
02/22/17	08:32:01	16.91556		3882.89	123.63		
02/22/17	08:34:01	16.94889		3703.26	120.65		
02/22/17	08:36:01	16.98222		3521.92	117.83		
02/22/17	08:38:01	17.01556		3339.81	115.96		
02/22/17	08:40:01	17.04889		3156.22	113.47		
02/22/17	08:42:01	17.08222		2971.00	110.12		
02/22/17	08:44:01	17.11556		2784.59	106.64		
02/22/17	08:46:01	17.14889		2596.67	103.61		
02/22/17	08:48:01	17.18222		2406.55	102.29		
02/22/17	08:50:01	17.21556		2215.43	99.90		
02/22/17	08:52:01	17.24889		2023.18	97.55		
02/22/17	08:54:01	17.28222		1829.32	94.94		
02/22/17	08:56:01	17.31556		1634.36	92.56		
02/22/17	08:58:01	17.34889		1437.62	90.27		
02/22/17	09:00:01	17.38222		1239.26	87.93		
02/22/17	09:02:01	17.41556		1039.81	85.67		
02/22/17	09:04:01	17.44889		839.68	83.03		
02/22/17	09:06:01	17.48222		637.13	81.49		
02/22/17	09:08:01	17.51556		433.35	80.42		

	FESCO, Ltd. 1000 Fesco Ave. - Alice, Texas 78332						
RESERVOIR PRESSURE MONITOR TEST							
Company: Matador Production Company Well: Black River SWD No. 1 Field: Unavailable Location: Eddy County, NM Perfs: 13700 - 15000 ft (MD) Formation: Devonian		Test Date: 02/21 - 02/22/2017 Gauge Depth: 13761 ft Gauge Type: Electronic Gauge SN: DC-3536 Gauge Range: 15000 psi Gauge OD: 1.2500"					
Test Date mm/dd/yy	Real Time hh:mm:ss	Delta Time hours	WHP psia	BHP psia	Temp. °F	Delta BHP psi	Comments
02/22/17	09:10:01	17.54889		228.46	79.39		
02/22/17	09:12:01	17.58222		21.77	79.83		
02/22/17	09:12:09	17.58444		8.34	79.86		Gauge ascended above liquid level.
02/22/17	09:14:01	17.61556		8.67	80.07		
02/22/17	09:16:01	17.64889		8.61	79.77		
02/22/17	09:18:01	17.68222		8.71	79.05		Equalized lubricator.
02/22/17	09:19:31	17.70722		10.05	78.61		Test complete.
02/22/17	09:20:01	17.71556		10.42	78.49		
02/22/17	09:26:01	17.81556		10.31	76.29		
02/22/17	09:32:00	17.91528		11.10	64.29		Powered down gauge.
Remarks: MIRU slickline. RIH with 1.25" weight bar. Cleared ? ft. POOH. RIH with electronic gauges making ? gradient stops to ? ft. Monitored BHP ? hrs. POOH making ? gradient stops to surface. RDMO.							
Job No.: J201702221401.001				Certified: FESCO, Ltd. - Odessa, TX By: <u>Jon Jackson</u> District Manager - (432) 332-3211			

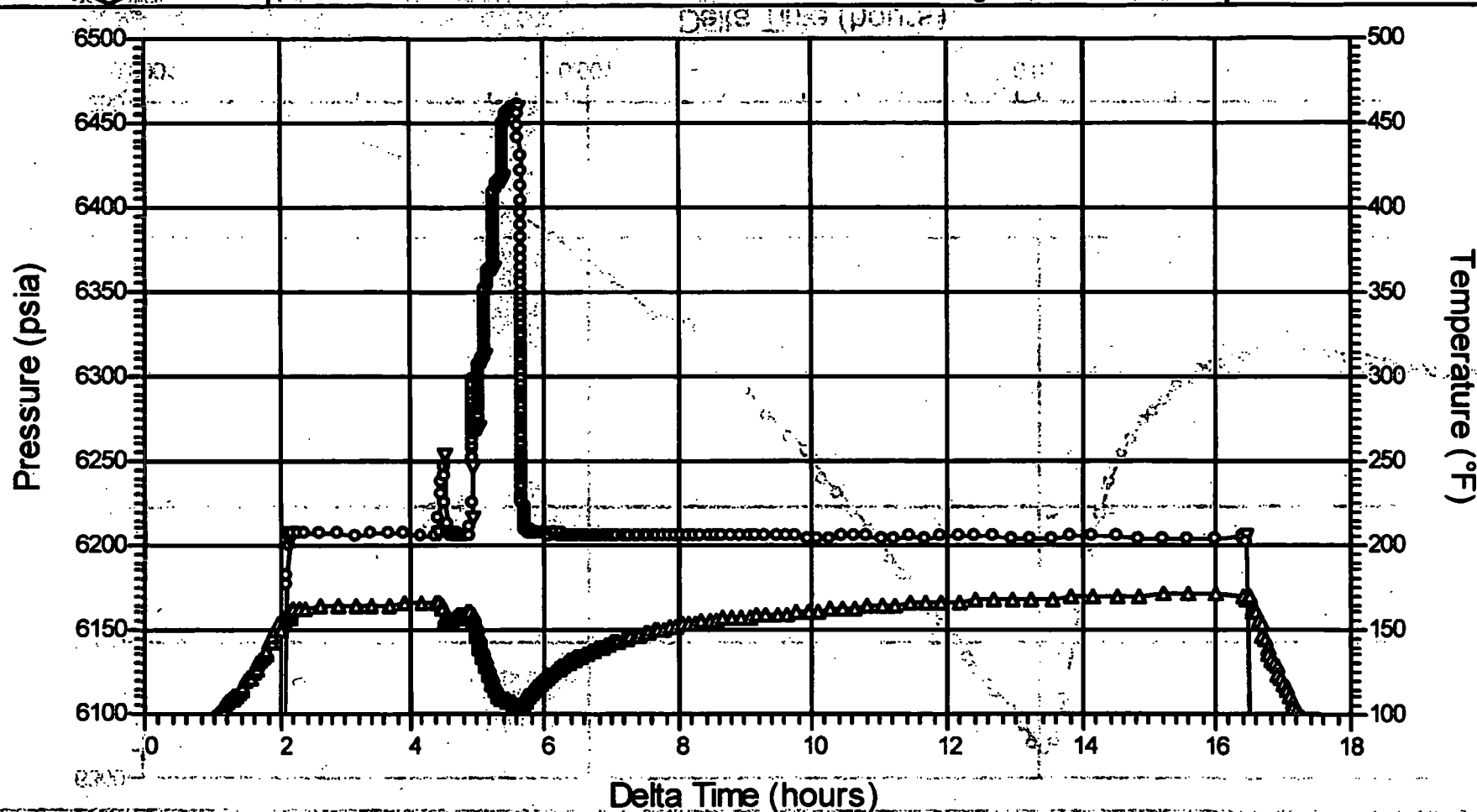


Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21 - 02/22/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Cartesian
Plot



J201702221401:001A

LOG: DRG-03513001
LOG: 03/01/2016
LOG: DISC 1/16 2400 100

Pressure Temperature

DISC 1/16 2400 100

DISC 1/16 2400 100



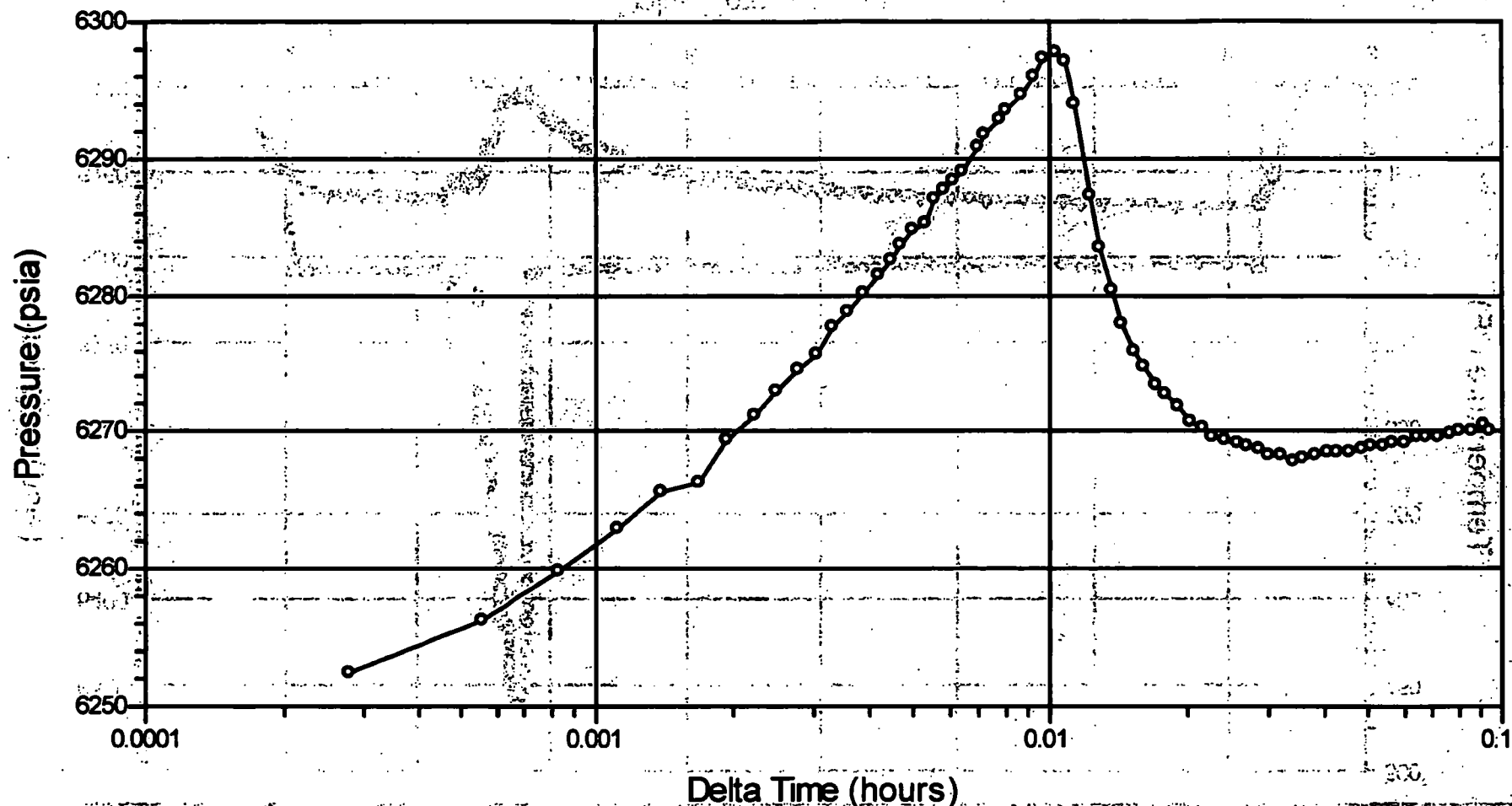
Matador Production Company

Semilog

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Plot
(Injection Test1)



J201702221401.001A



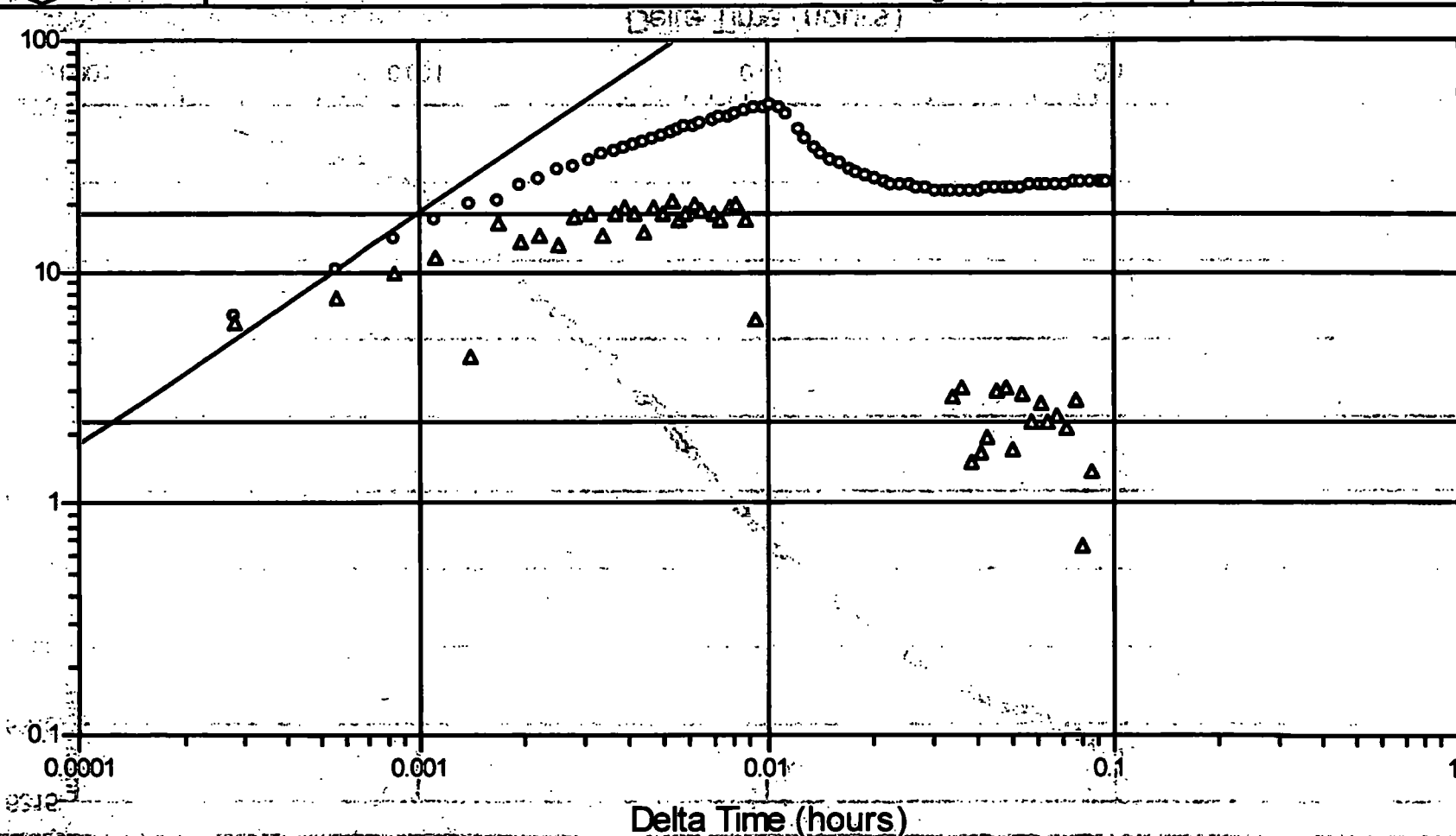
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Injection Test1)

Delta Pressure (psi)



J201702221401-001A

Unit Slope Zero Slope Zero Slope
● Delta Pressure ▲ Radial Pressure Derivative



Matador Production Company

Semilog

Well: Black River SWD No. 1

Gauge Type: Electronic

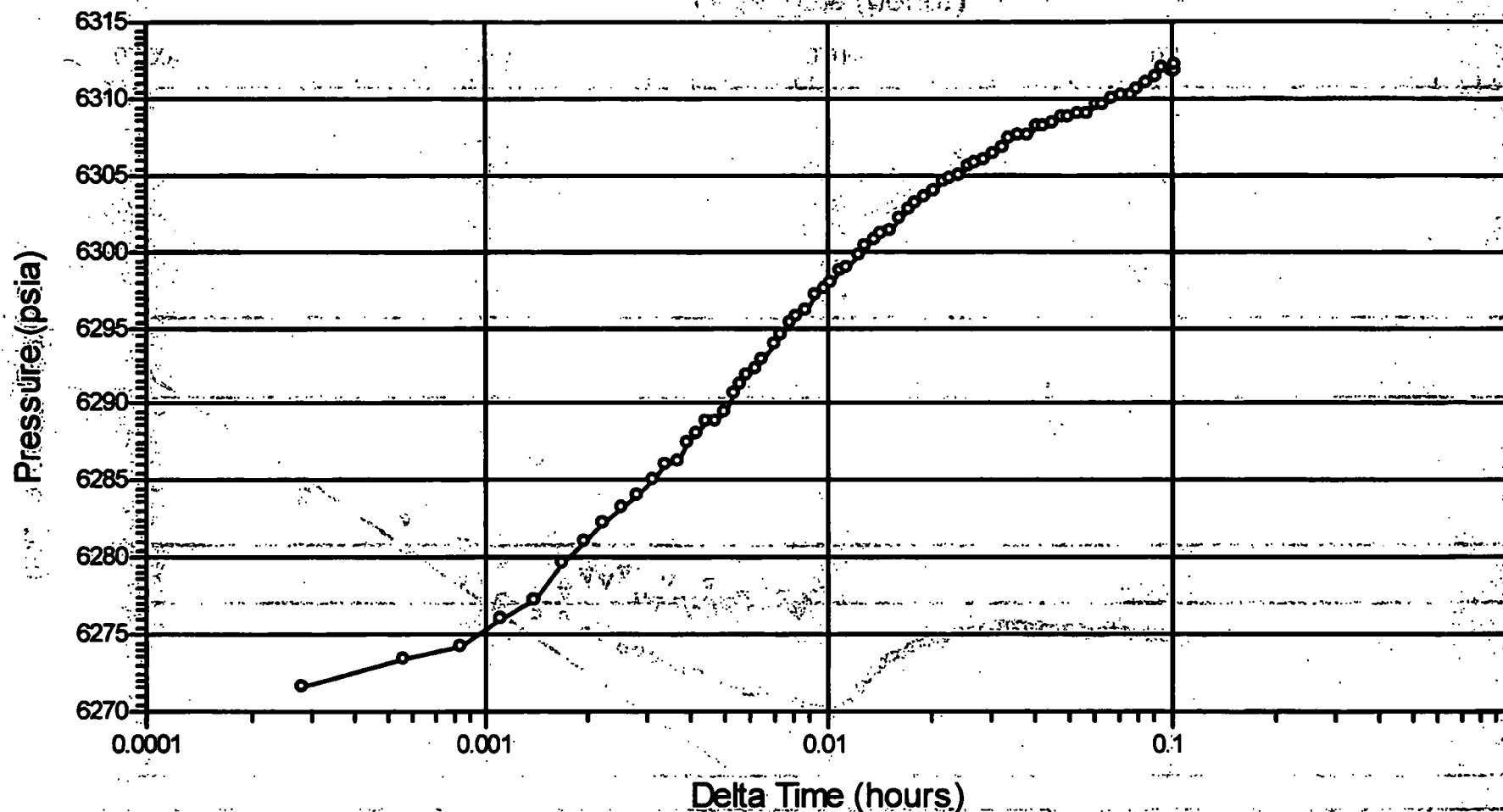
Field: Unavailable

Gauge Range: 15000 psi

Test Date: 02/21/2017

Gauge SN: DC-3536

Plot
(Injection Test2)



J201702221401.001A

(Injection Test2)



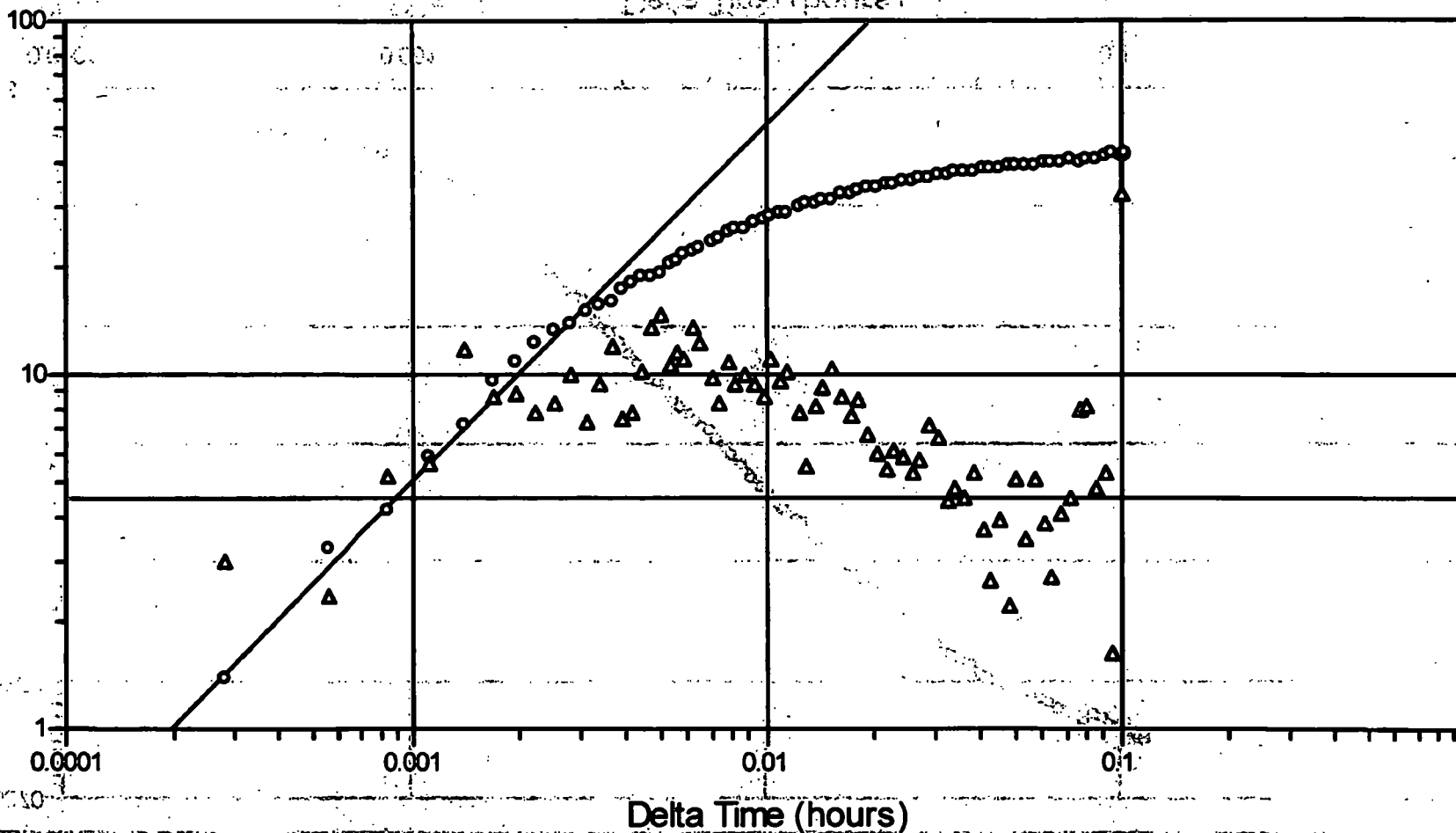
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Injection Test2)

Delta Pressure (psi)



J201702221401.001A

Unit Slope — Zero Slope
Radial Pressure Derivative Delta Pressure



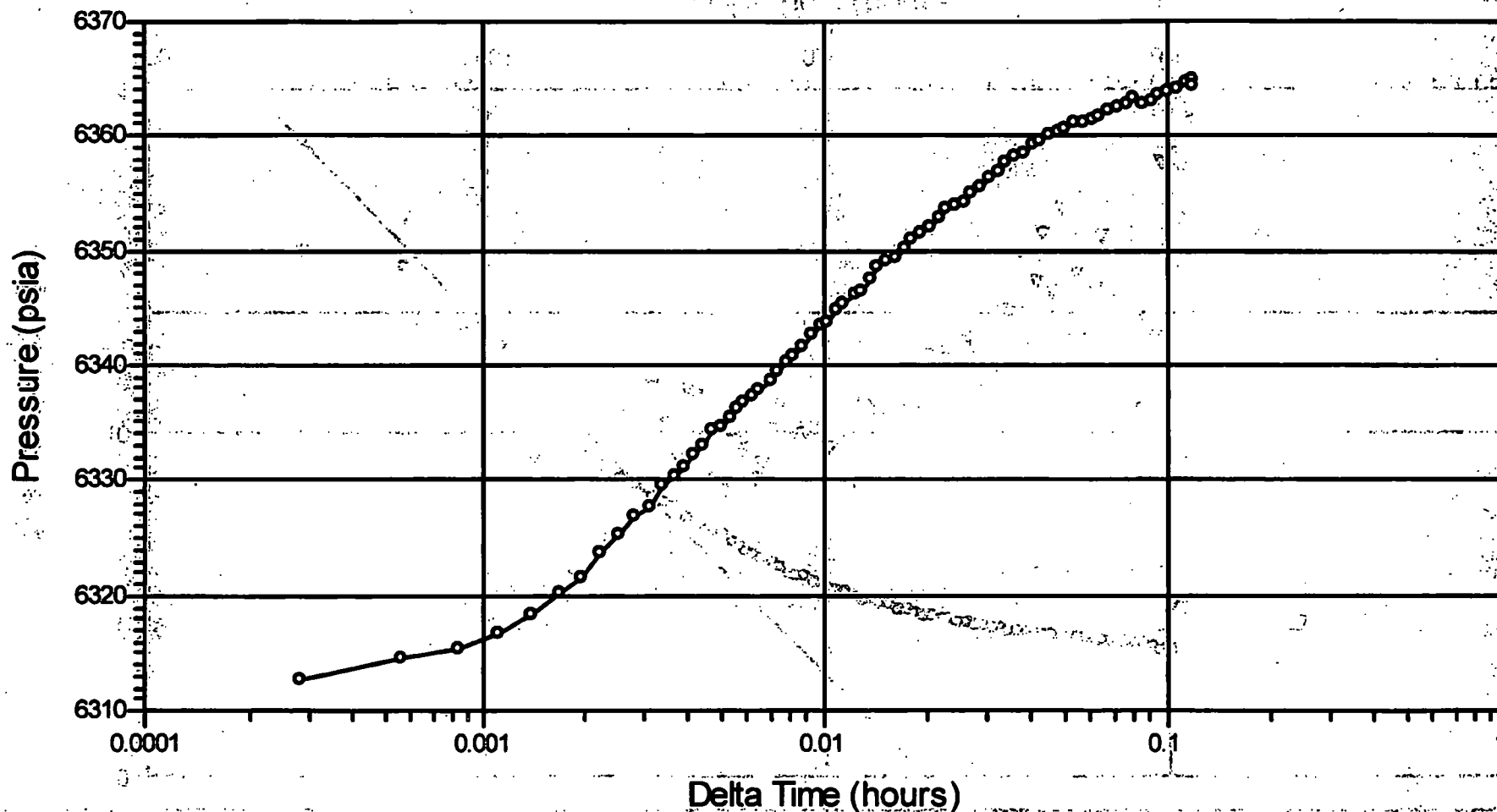
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Semilog

Plot
(Injection Test3)



J201702221401:001A

Operator: [illegible]
Gauge: [illegible]
Gauge SN: [illegible]
Injection Test 3

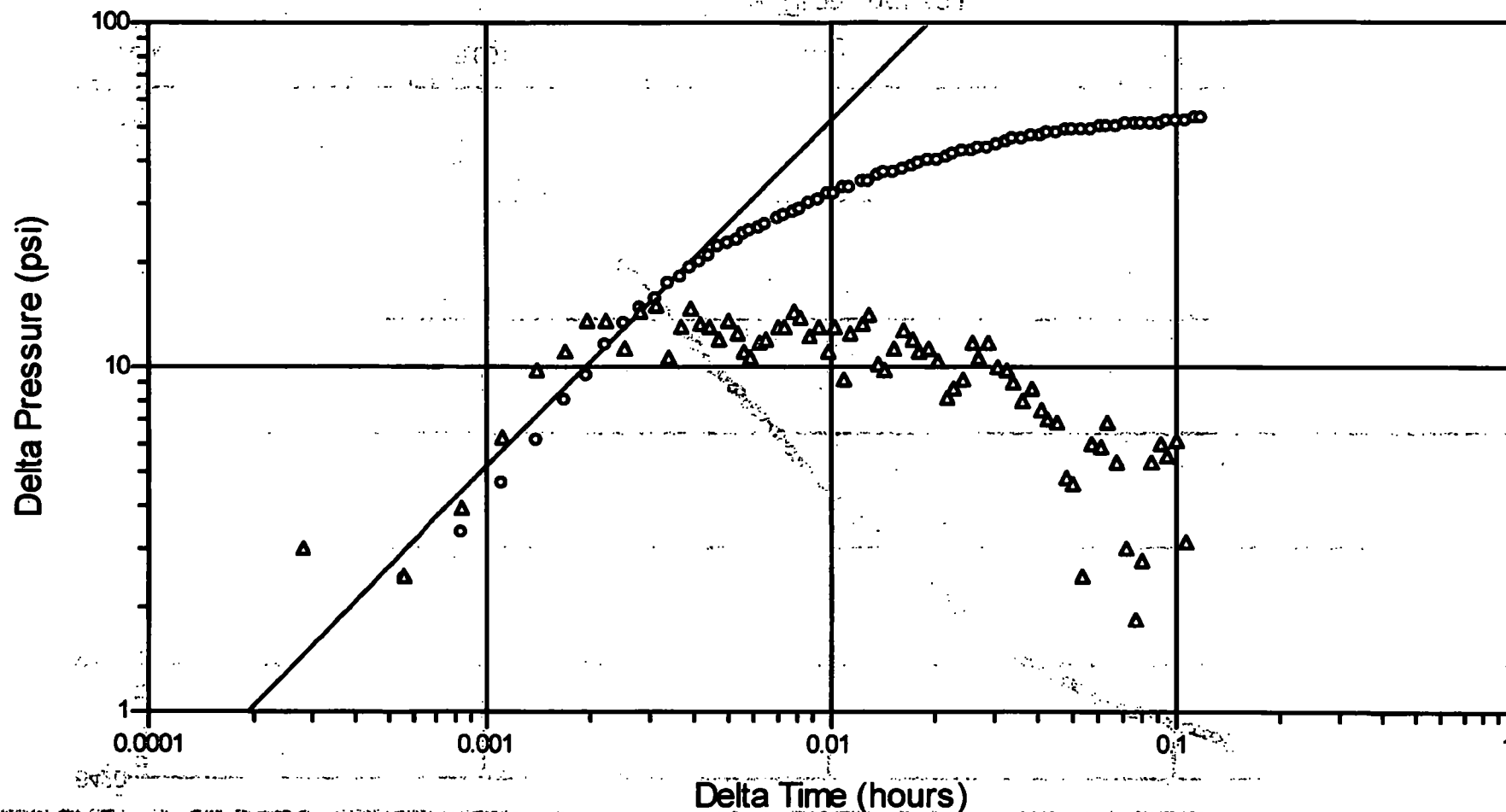


Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Injection Test3)



J201702221401:001A

MSI

Unit Slope

Delta Pressure

Radial Pressure Derivative



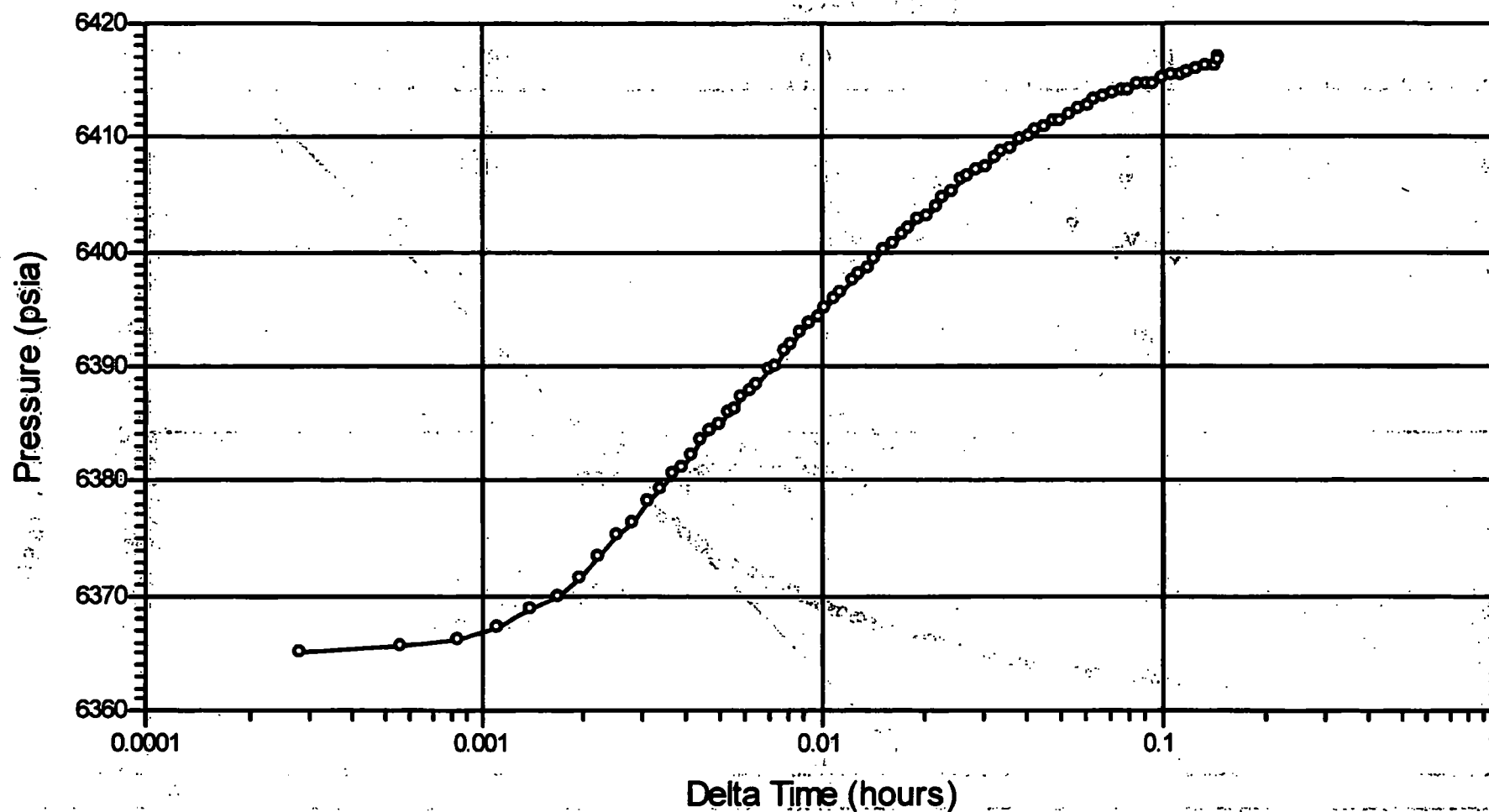
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Semilog

Plot:
(Injection Test4)



J201702221401.001A

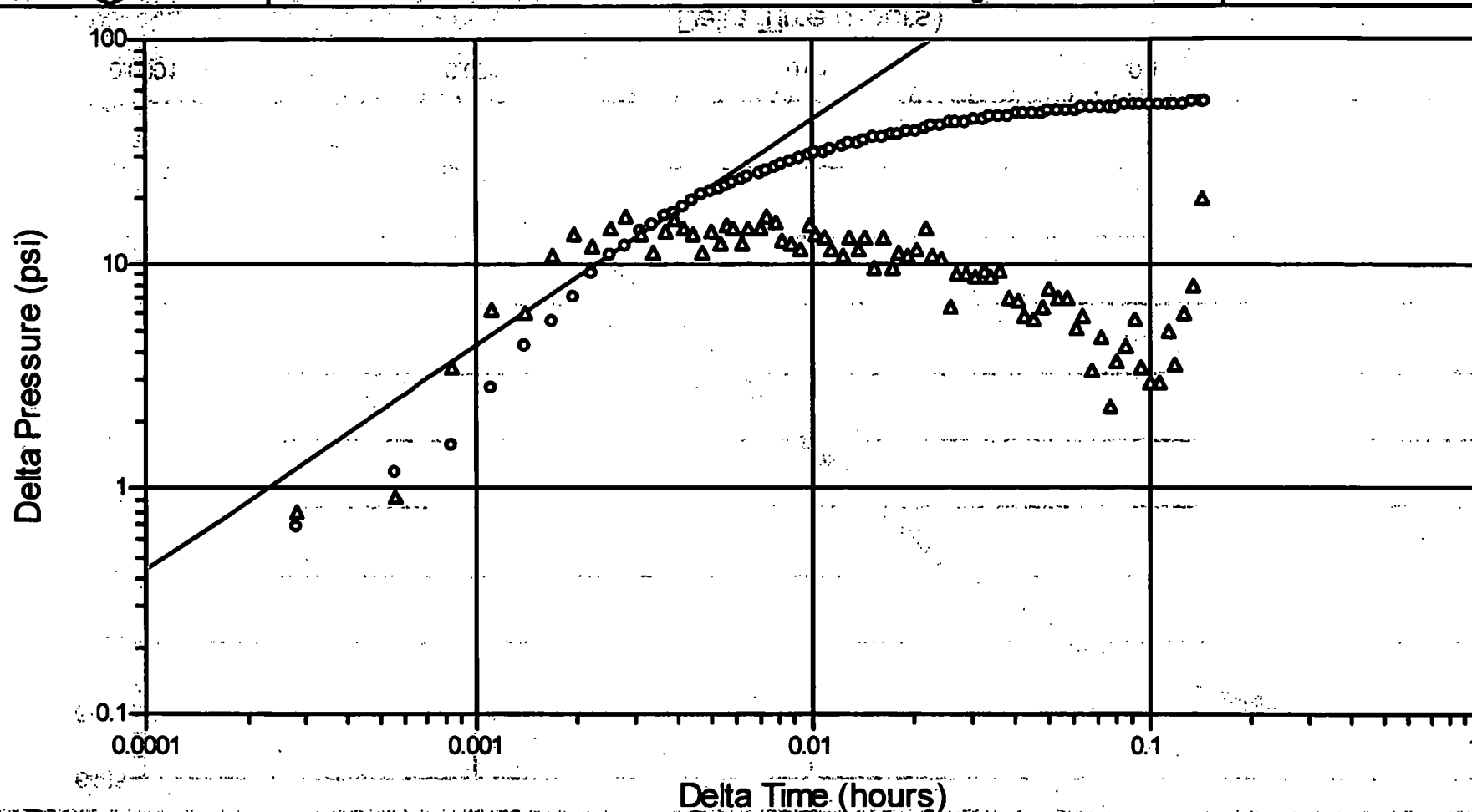


Matador Production Company

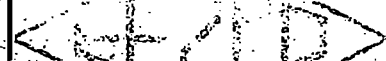
Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Injection Test4)



J201702221401:001A



Unit Slope Delta Pressure Radial Pressure Derivative



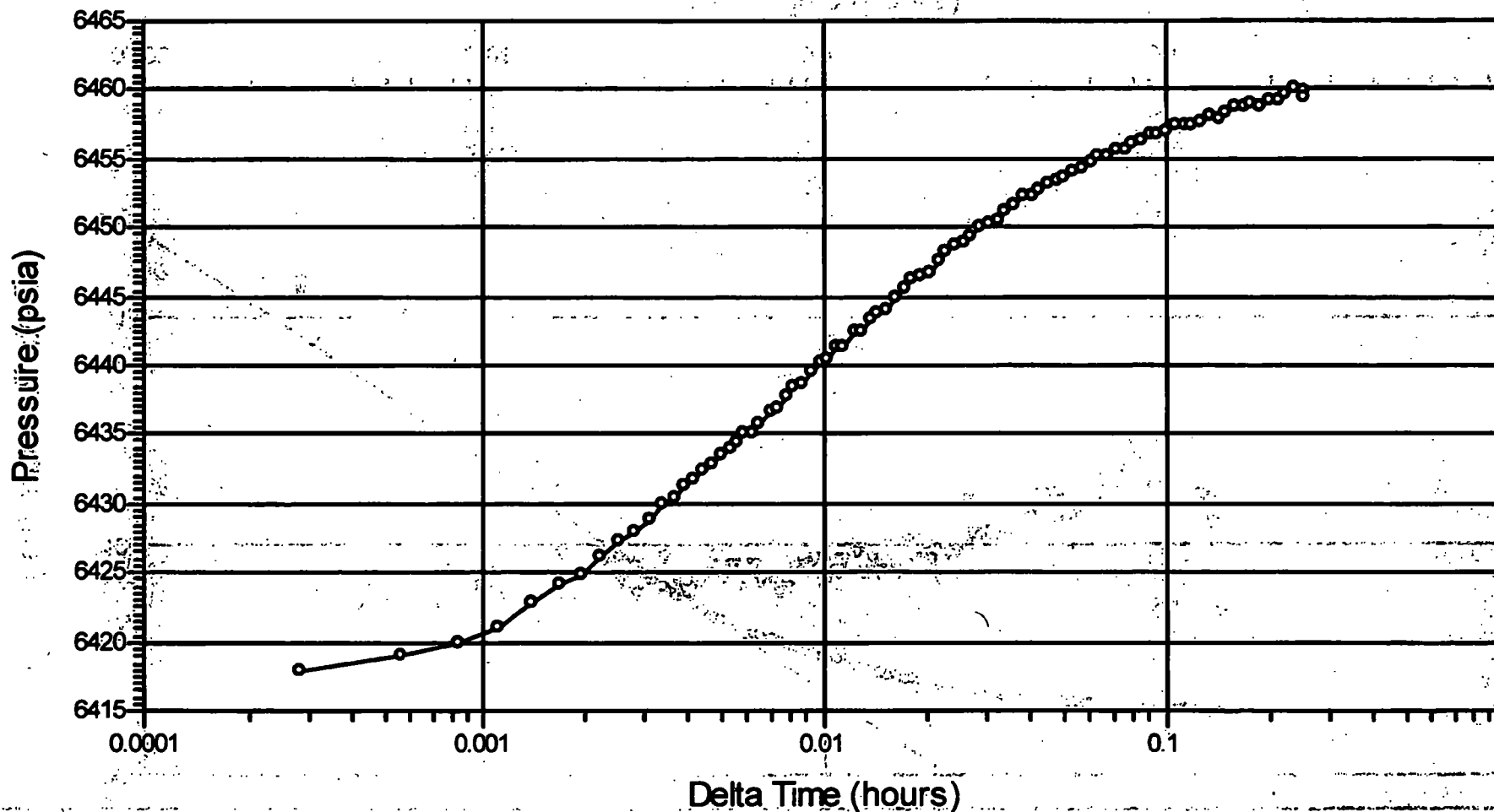
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Semilog

Plot 501
(Injection Test5)



J201702221401.001A

Injection Test5

b7D

rc



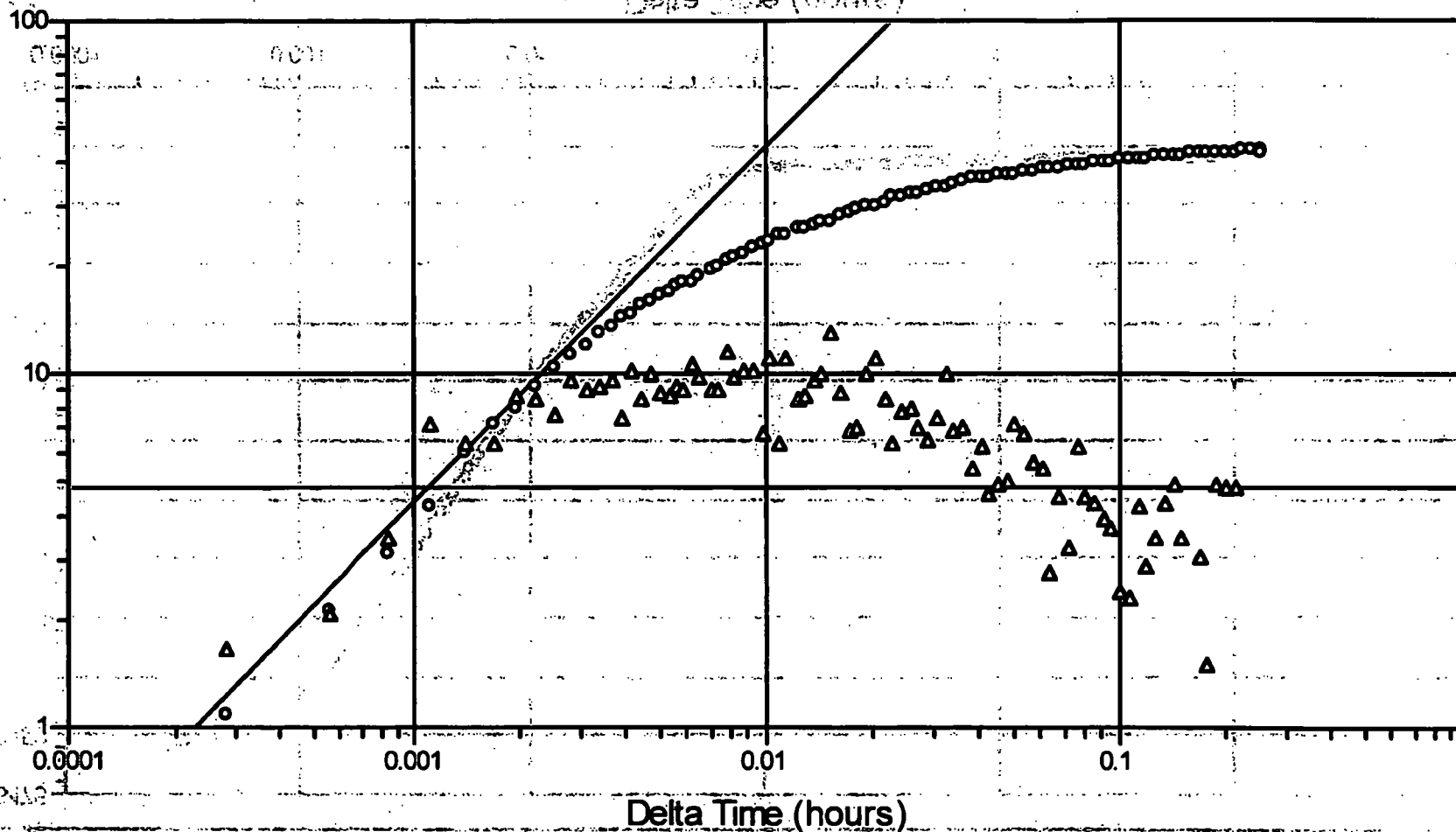
Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Injection Test5)

Delta Pressure (psi)



J201702221401:001A

Unit Slope

Zero Slope

Delta Pressure (psi)

Radial Pressure Derivative



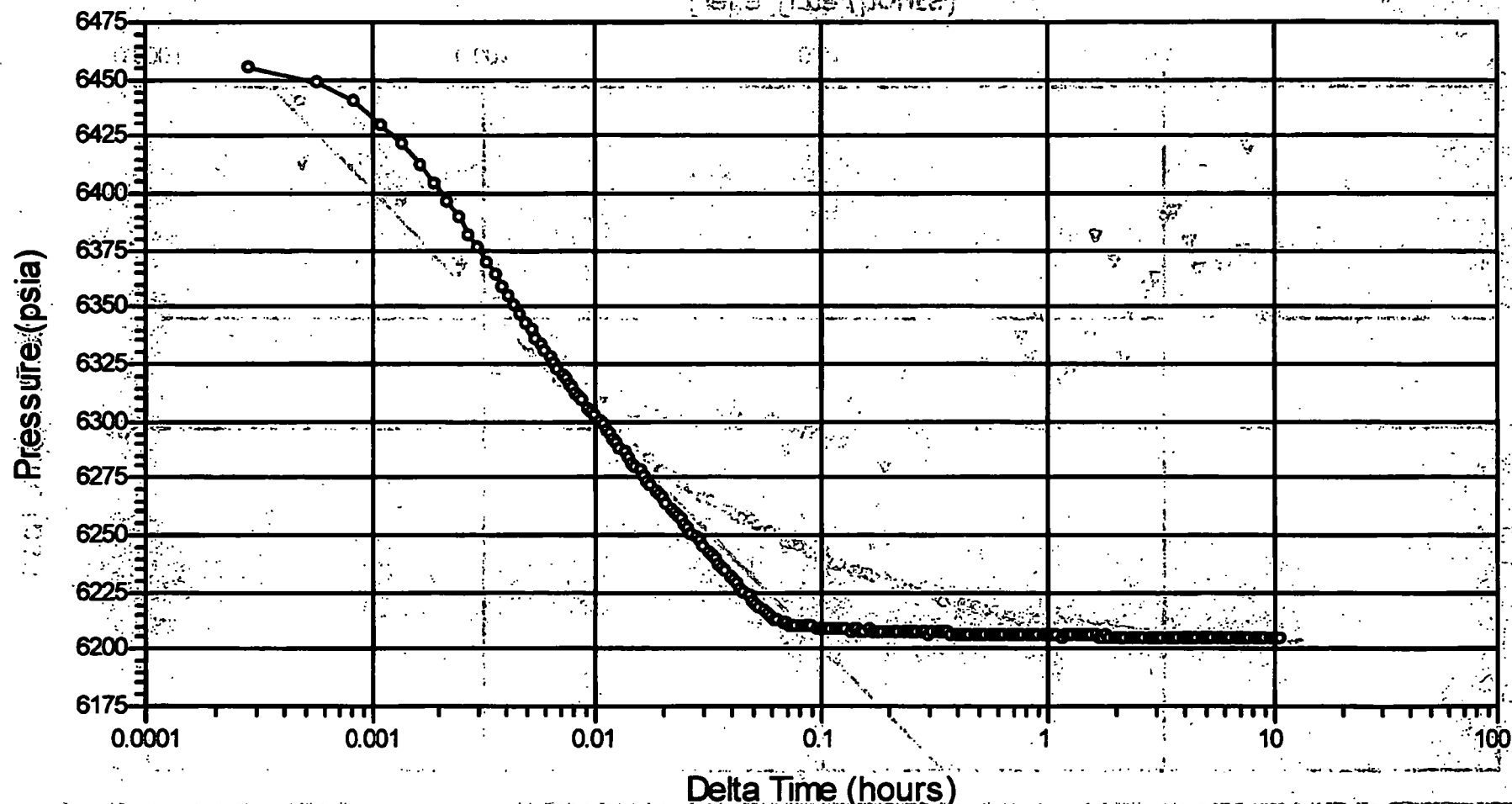
Matador Production Company

Semilog

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21 - 02/22/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Plot:
(Falloff Test)



J201702221401:001A

(W) CCSON 10212

Matador Production Company

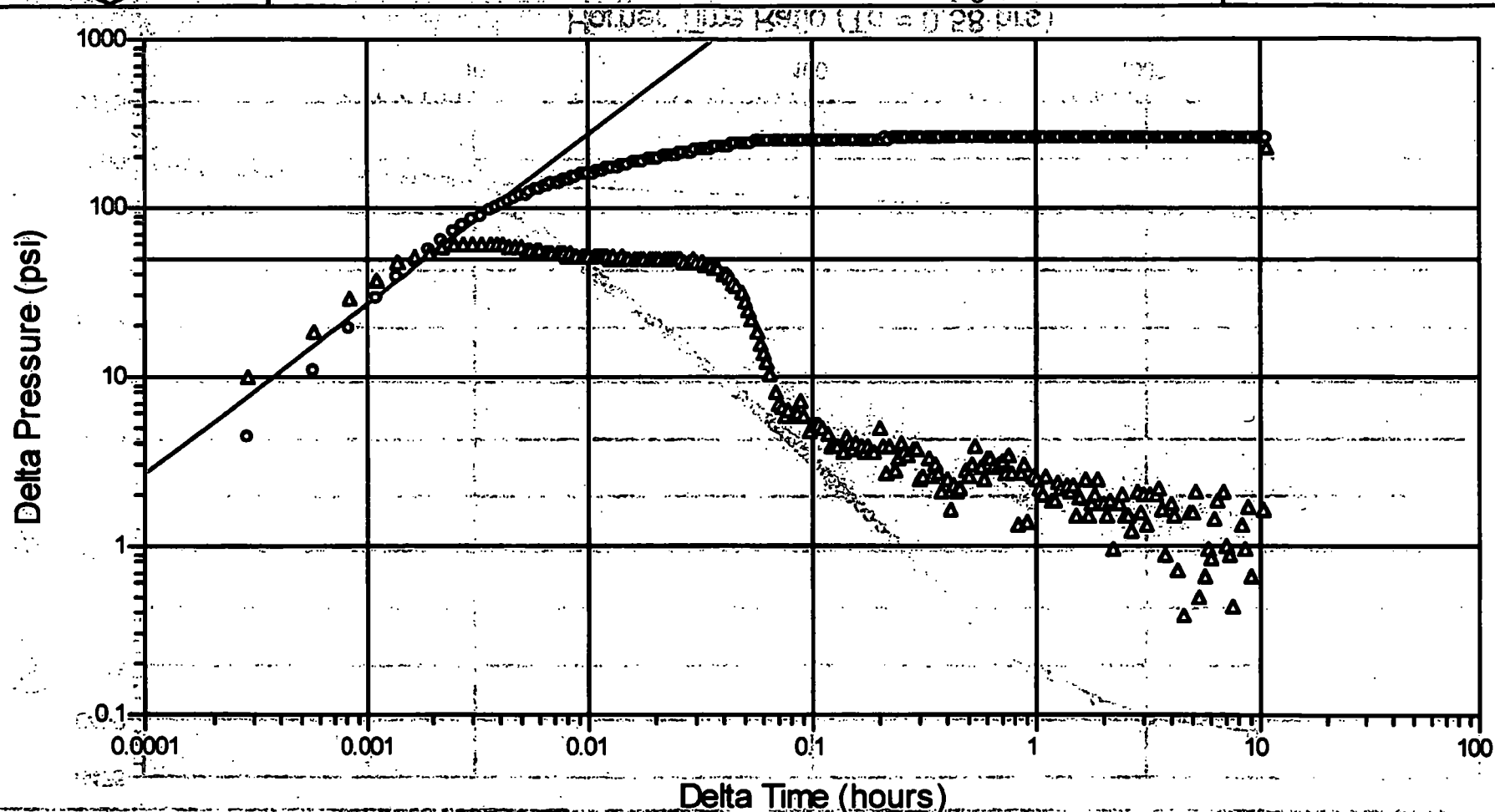


Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21 - 02/22/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log
Plot
(Falloff Test)



J201702221401:001A

Unit Slope
Zero Slope
Radial Pressure Derivative
Delta Pressure



Matador Production Company

Well: Black River SWD No. 1

Field: Unavailable

Test Date: 02/21 - 02/22/2017

Gauge Type: Electronic

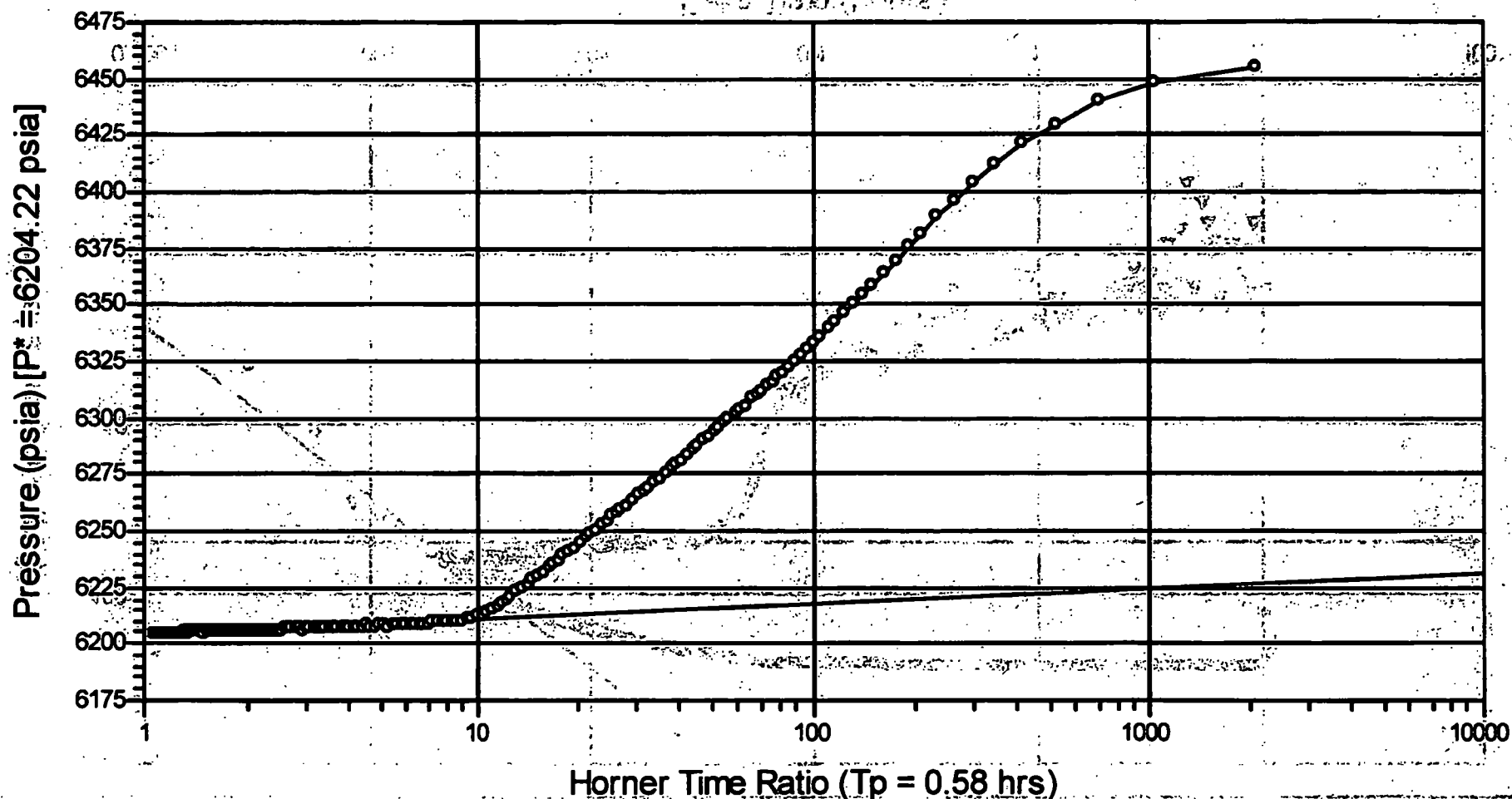
Gauge Range: 15000 psi

Gauge SN: DC-3536

Horner

Plot

(Falloff Test)



J201702221401.001A

Gauge SN: DC-3536
Gauge Type: Electronic

(2/21/2017)

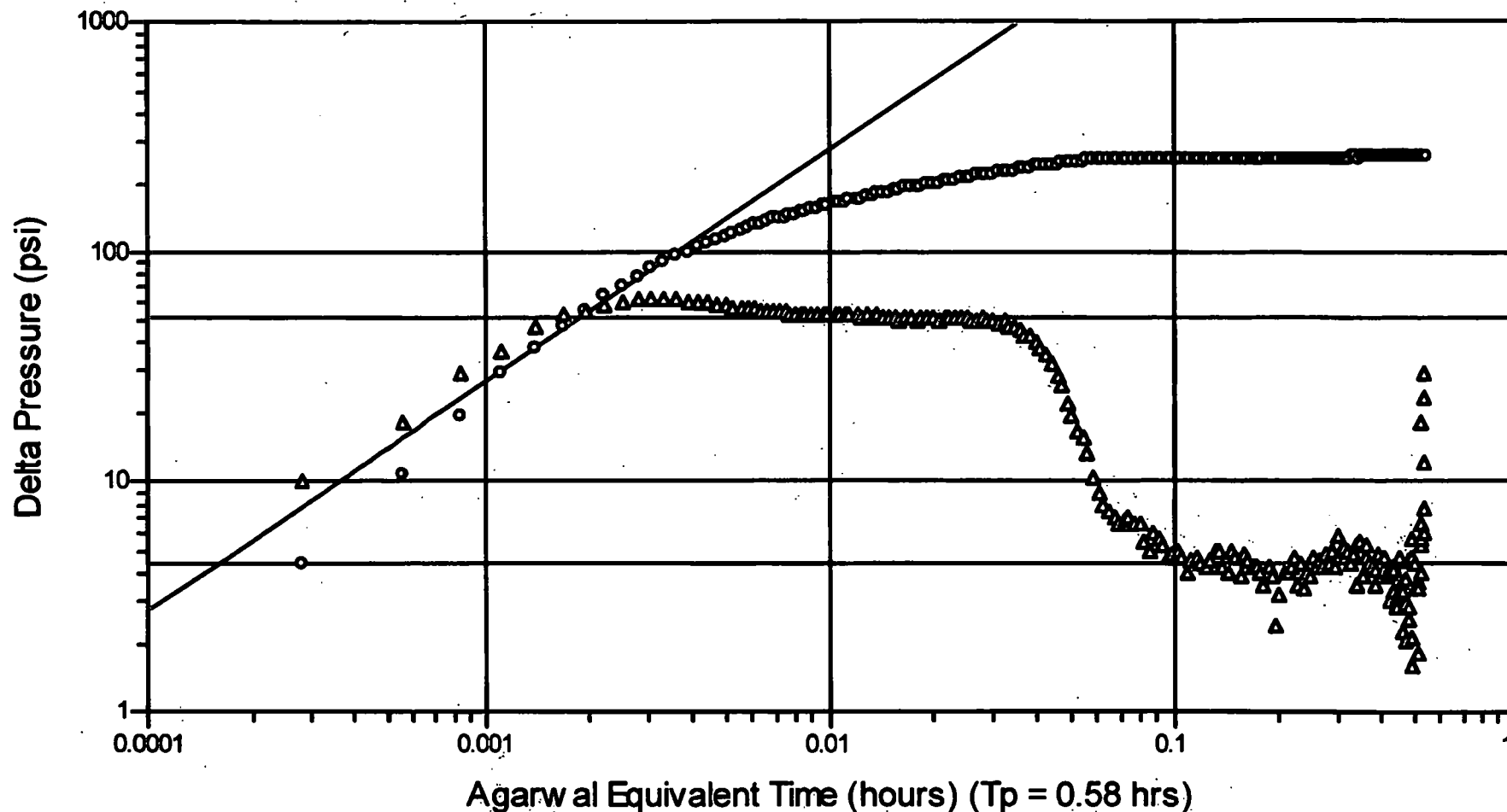


Matador Production Company

Well: Black River SWD No. 1
Field: Unavailable
Test Date: 02/21 - 02/22/2017

Gauge Type: Electronic
Gauge Range: 15000 psi
Gauge SN: DC-3536

Log AET
Plot
(Falloff Test)



J201702221401.001A



Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-43807
1. Type of Well: Oil Well ☐ Gas Well ☒ Other SWD		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Black River Water Management Company, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240		7. Lease Name or Unit Agreement Name Black River SWD
4. Well Location Unit Letter <u>C</u> : <u>250</u> feet from the <u>N</u> line and <u>2461</u> feet from the <u>W</u> line Section <u>31</u> Township <u>23S</u> Range <u>28E</u> NMPM County <u>EDDY</u>		8. Well Number <u>1</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3128' GR		9. OGRID Number 371287
		10. Pool name or Wildcat SWD: Devonian

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Completion Operations ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/21/2016: RIH with gauge ring. Wireline rope socket failed.

10/22/2016 to 10/27/2016: Successfully retrieve fish, perform clean up run.

10/27/2016: RIH w/ Packer on wireline. Set packer at 13,740' wireline measurement.

10/28/2016: RIH with 4 1/2" 13.5# P-110 BTC Fiberglass Lined tubing, circulate 330 bbls packer fluid, latch into packer. Pressure test retrievable seal bore packer to 500 psi for 30 minutes (Test good). Install check valve. Install blank flange and pressure test to 5,000 psi for 15 minutes (Test good). Shut in well and release rig.

Estimated water salinity across injection interval is 68,956 ppm. Anticipate first injection on or before 12/15/2016.

(Order SWD-1627)

Spud Date:

08/21/2016

Rig Release Date:

10/29/2016

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

SIGNATURE Ava Monroe TITLE Sr. Engineering Technician DATE 11/23/2016

Type or print name Ava Monroe E-mail address: amonroe@matadornresources.com PHONE: 972-371-5218

For State Use Only

APPROVED BY: Will Jones TITLE Engineer DATE 12/2/16
Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Artes, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised August 1, 2011								
		1. WELL API NO. 30-015-43807								
		2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		5. Lease Name or Unit Agreement Name BLACK RIVER SWD								
		6. Well Number: 1								
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Black River Water Management Company, LLC		9. OGRID 371287								
10. Address of Operator 5400 LBJ Freeway, Ste. 1500, Dallas, TX 75240		11. Pool name or Wildcat SWD;DEVONIAN								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	31	23S	28E		250	N	2481	W	EDDY
BH:										
13. Date Spudded 8/21/16	14. Date T.D. Reached 10/19/16	15. Date Rig Released 10/28/16		16. Date Completed (Ready to Produce) TBD			17. Elevations (DF and RKB, RT, GR, etc.) 3128' GR			
18. Total Measured Depth of Well 14,734'		19. Plug Back Measured Depth 14,734'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run See list attached.			
22. Producing Interval(s), of this completion - Top, Bottom, Name 13,785 - 14,734' (OH) Devonian										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED					
20.00	94.00	598'	26"	1830	0					
13.375	68.00	2485'	17.5"	855	0					
9.625	53.50	9800'	12.25"	970	0					
7.0	32.00	13785'	8.5"	500	0					
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN						
					25. TUBING RECORD					
SIZE		DEPTH SET		PACKER SET						
4.5"		13,740'		13,740'						
26. Perforation record (interval, size, and number) None					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
					DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED					
28. PRODUCTION										
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in) SI awaiting first injection				
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.)							30. Test Witnessed By			
31. List Attachments Logs list, logs, DS & certifications										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude			Longitude			NAD 1927 1983				
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature Ava Monroe			Printed Name Ava Monroe			Title Sr. Engineering Technician			Date 11/23/16	
E-mail Address amonroe@matadorresources.com										

SWD-1627
 DEVONIAN

WELL

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon 11034' MD	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn 11187' MD	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka 11520' MD	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss 13150' MD	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian 13850' MD	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzie
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinberry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand 2450' MD	T. Morrison	
T. Drinkard	T. Bone Springs 5990' MD	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp 9308' MD	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C) 10820' MD	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet
No. 2, from.....to.....feet
No. 3, from.....to.....feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology