



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1133005
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-
Sec. _____ Twp. _____ S. R. _____ East West

_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-
Feet from North / South Line of Section

_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-_____-
Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1133005

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 14, 2013

Liana Ramirez
Citation Oil & Gas Corp.
14077 Cutten Rd
PO BOX 690688
HOUSTON, TX 77269-0688

Re: ACO1
API 15-163-03276-00-01
BARRY LKC UNIT 6-39
SW/4 Sec.02-09S-19W
Rooks County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Liana Ramirez



improved oil & gas recovery

**CROSS-LINKED POLYMER GEL
WATER REDUCTION TREATMENT
JOB LOG AND SUMMARY PREPARED FOR:**



**BARRY LKC 6-39
BARRY FIELD
ROOKS COUNTY, KANSAS**

April 30, 2013



improved oil & gas recovery

BULK POLYMER GEL TREATMENT

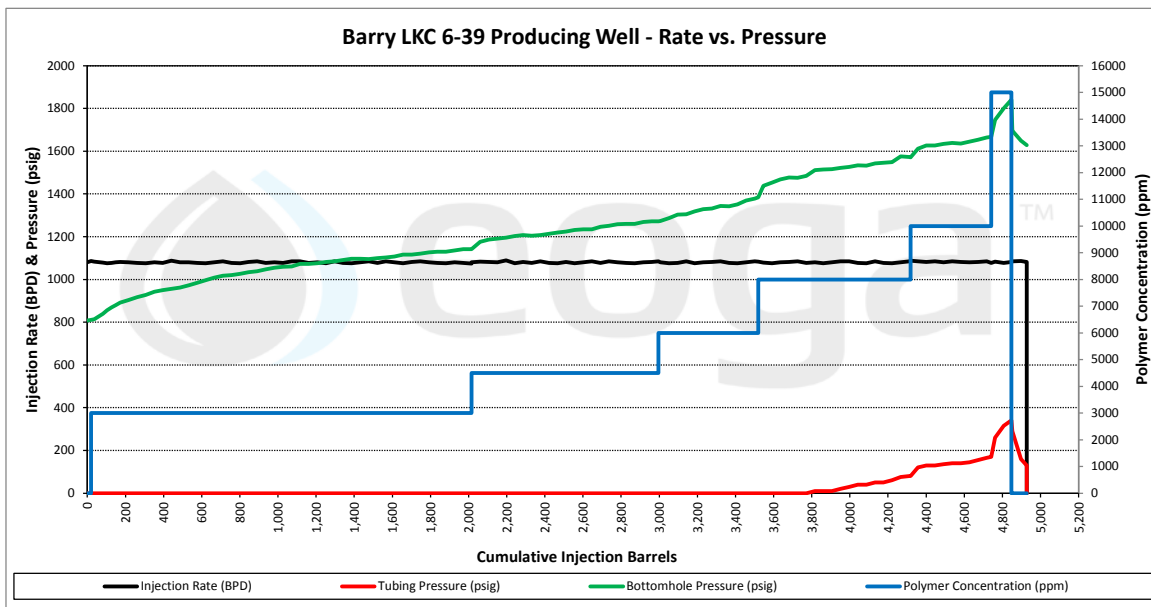
Morning Progress Report

Company Name: Citation Oil & Gas Corp.
Field Name: Barry
Well Name: Barry LKC 6-39

Location: Rooks Co., KS
Date: 4/30/2013
Est. Cum. Cost: \$52,400

The following is the most recent information available for the bulk polymer gel treatment that is in progress at the above captioned well.

Stage No.	Begin Date	Begin Time	End Date	End Time	BG-100 Polymer		XL-100 Cross-linker		Gel Bbls.	WHP (psi)		BHP (psi)		Rate (BPM)		Comments
					Ppm	Lbs.	Ratio	Lbs.		Begin	End	Begin	End	Begin	End	
1	4/26/2013	7:11 AM	4/26/2013	7:38 AM	0	0		0	0	0	0	807	810	0.75	0.75	20 barrels water
2	4/26/2013	7:38 AM	4/28/2013	3:59 AM	3000	2093	40	455	1995	0	0	810	1142	0.75	0.75	
3	4/28/2013	3:59 AM	4/29/2013	1:45 AM	4500	1542	40	335	980	0	0	1142	1272	0.75	0.75	
4	4/29/2013	1:45 AM	4/29/2013	1:25 PM	6000	1101	40	239	525	0	0	1272	1384	0.75	0.75	
5	4/29/2013	1:25 PM	4/30/2013	7:10 AM	8000	2235	40	486	799	0	80	1384	1571	0.75	0.75	
6	4/30/2013	7:10 AM	4/30/2013	4:33 PM	10000	1479	40	322	423	80	170	1571	1667	0.75	0.75	
7	4/30/2013	4:33 PM	4/30/2013	6:53 PM	15000	551	50	96	105	170	340	1667	1840	0.75	0.75	
8	4/30/2013	6:53 PM	4/30/2013	8:39 PM	0	0		0	0	340	130	1840	1628	0.75	0.75	80 barrels water
Totals						9001		1933	4827							





Project Engineer - Jay Portwood
P.O. Box 2230 Keller, TX 76244-2230
817-431-6336 (off) 817-431-6337 (fax)
817-312-1033 (cell)

PROJECT INFORMATION					
Company Name:	Citation Oil & Gas Corp.	Depth to Top Perforation or OH (ft.):	3408	EOT (ft.):	3390
Field Name:	Barry	Depth to Bottom Perforation or OH (ft.):	3418	Packer (ft.):	3390
Well Name:	Barry LKC 6-39	Depth to Mid-Perf (ft.):	3413	Tbg Size:	2.875"
Injector or Producer:	Producer	BHP Tool Depth (ft.):	3400	Tbg. Cap. (bbbls./ft.):	0.00538
County/State:	Rooks/KS	Type Mix Water Used:	Produced	Tbg. Vol. (bbbls.):	18.24
Polymer Unit No.:	1	Mix Water Specific Gravity:	1.02	Csg Size:	5.5", 14#
Polymer Unit Operators:	Scott Seaton (day) 785-885-8187 / Brad Gordon (night) 785-885-8206	Mix Water Pressure Gradient (psi per ft.):	0.442	Csg. Cap. (bbbls./ft.):	0.0244
Generator Used (Yes/No):	Yes	Expect Positive Surface Pressure @ BHP of:	1502	Csg Vol. bbbls. (Pkr. to Btm. Perf.):	0.6832
Customer Contact:	Daniel Hansberger 281-891-1484 (off) 405-605-9177 (cell)	Estimated Static BHP (psig):	807	Total Well Vol. (bbbls.):	18.92

Date	Time	Elapsed Time Between Readings (Mins.)	Injection Rate		Total Cum. Injection (Bbls.)	Stage Cum. Injection Bbls.	Tubing Pressure (psig)	PSIG per Bbl Injected	PSIG per Hour Injected	Bottomhole Conditions				Injectivity Index (BPD per psig)	Pressure Gradient (psig per ft.)	Polymer Concentration (ppm)	Cross-linker Ratio (x:1)	Total Cum. Polymer (lbs.)	Stage Cum. Polymer (lbs.)	Total Cum. X-linker (lbs.)	Stage Cum. X-linker (lbs.)	Casing Pressure (psig)	Comments			
			BPD	BPM						Pressure		H Plot Cum. psi-time	Injectivity Ratio (Psi + Rate)													
										Actual Reading (psig)	Calculated to Mid-Perf (psig)															
26-Apr-13	7:11 AM		1080	0.75	0.0	0.0	0	0.15	6.92	807	807	0	0	0.75	0.24	0	0	0	0	0	0	0	0	0	Begin water pre-flush	
26-Apr-13	7:38 AM	0:26	1087	0.75	20.0	20.0	0	0.15	6.92	810	810	3	21060	0.75	362.26	0.24	0	0	0	0	0	0	0	0	0	
26-Apr-13	7:38 AM	0:00	1087	0.75	20.0	0.0	0	0.15	6.92	810	810	3	21060	0.75	362.26	0.24	3000	40	0	0	0	0	0	0	0	Begin 3,000 ppm polymer gel
26-Apr-13	8:00 AM	0:22	1083	0.75	36.6	16.6	0	0.18	8.18	813	813	6	38946	0.75	180.55	0.24	3000	40	17	17	4	4	0	0		
26-Apr-13	9:00 AM	1:00	1079	0.75	81.5	61.5	0	0.58	26.00	839	839	32	89286	0.78	33.71	0.25	3000	40	65	65	14	14	0	0		
26-Apr-13	9:30 AM	0:30	1075	0.75	103.9	83.9	0	0.71	32.00	855	855	48	114936	0.80	22.40	0.25	3000	40	88	88	19	19	0	0		
26-Apr-13	10:00 AM	0:30	1078	0.75	126.4	106.4	0	0.62	28.00	869	869	62	141006	0.81	17.38	0.25	3000	40	112	112	24	24	0	0		
26-Apr-13	10:30 AM	0:30	1080	0.75	148.9	128.9	0	0.49	22.00	880	880	73	167406	0.81	14.79	0.26	3000	40	135	135	29	29	0	0		
26-Apr-13	11:00 AM	0:30	1082	0.75	171.4	151.4	0	0.49	22.00	891	891	84	194136	0.82	12.89	0.26	3000	40	159	159	35	35	0	0		
26-Apr-13	12:00 PM	1:00	1080	0.75	216.4	196.4	0	0.29	13.00	904	904	97	248376	0.84	11.13	0.26	3000	40	206	206	45	45	0	0		
26-Apr-13	1:00 PM	1:00	1078	0.75	261.3	241.3	0	0.29	13.00	917	917	110	303396	0.85	9.80	0.27	3000	40	253	253	55	55	0	0		
26-Apr-13	2:00 PM	1:00	1075	0.75	306.1	286.1	0	0.22	10.00	927	927	120	359016	0.86	8.96	0.27	3000	40	300	300	65	65	0	0		
26-Apr-13	3:00 PM	1:00	1080	0.75	351.1	331.1	0	0.33	15.00	942	942	135	415536	0.87	8.00	0.28	3000	40	347	347	76	76	0	0		
26-Apr-13	4:00 PM	1:00	1078	0.75	396.0	376.0	0	0.18	8.00	950	950	143	472536	0.88	7.54	0.28	3000	40	394	394	86	86	0	0		
26-Apr-13	5:00 PM	1:00	1087	0.75	441.3	421.3	0	0.13	6.00	956	956	149	529896	0.88	7.30	0.28	3000	40	442	442	96	96	0	0		
26-Apr-13	6:00 PM	1:00	1080	0.75	486.3	466.3	0	0.13	6.00	962	962	155	587616	0.89	6.97	0.28	3000	40	489	489	106	106	0	0		
26-Apr-13	7:00 PM	1:00	1080	0.75	531.3	511.3	0	0.22	10.00	972	972	165	645936	0.90	6.55	0.28	3000	40	536	536	117	117	0	0		
26-Apr-13	8:00 PM	1:00	1078	0.75	576.2	556.2	0	0.29	13.00	985	985	178	705036	0.91	6.05	0.29	3000	40	583	583	127	127	0	0		
26-Apr-13	9:00 PM	1:00	1075	0.75	621.0	601.0	0	0.27	12.00	997	997	190	764856	0.93	5.66	0.29	3000	40	630	630	137	137	0	0		
26-Apr-13	10:00 PM	1:00	1080	0.75	666.0	646.0	0	0.24	11.00	1008	1008	201	825336	0.93	5.37	0.30	3000	40	678	678	147	147	0	0		
26-Apr-13	11:00 PM	1:00	1085	0.75	711.2	691.2	0	0.22	10.00	1018	1018	211	886416	0.94	5.14	0.30	3000	40	725	725	158	158	0	0		
27-Apr-13	12:00 AM	1:00	1078	0.75	756.1	736.1	0	0.07	3.00	1021	1021	214	947676	0.95	5.04	0.30	3000	40	772	772	168	168	0	0		
27-Apr-13	1:00 AM	1:00	1075	0.75	800.9	780.9	0	0.13	6.00	1027	1027	220	1009296	0.96	4.89	0.30	3000	40	819	819	178	178	0	0		
27-Apr-13	2:00 AM	1:00	1082	0.75	846.0	826.0	0	0.16	7.00	1034	1034	227	1071336	0.96	4.77	0.30	3000	40	866	866	188	188	0	0		
27-Apr-13	3:00 AM	1:00	1085	0.75	891.2	871.2	0	0.11	5.00	1039	1039	232	1133676	0.96	4.68	0.30	3000	40	914	914	199	199	0	0		
27-Apr-13	4:00 AM	1:00	1078	0.75	936.1	916.1	0	0.18	8.00	1047	1047	240	1196496	0.97	4.49	0.31	3000	40	961	961	209	209	0	0		
27-Apr-13	5:00 AM	1:00	1080	0.75	981.1	961.1	0	0.16	7.00	1054	1054	247	1259736	0.98	4.37	0.31	3000	40	1008	1008	219	219	0	0		
27-Apr-13	6:00 AM	1:00	1078	0.75	1026.0	1006.0	0	0.11	5.00	1059	1059	252	1323276	0.98	4.28	0.31	3000	40	1055	1055	229	229	0	0		
27-Apr-13	7:00 AM	1:00	1085	0.75	1071.2	1051.2	0	0.04	2.00	1061	1061	254	1386936	0.98	4.27	0.31	3000	40	1103	1103	240	240	0	0		
27-Apr-13	8:00 AM	1:00	1085	0.75	1116.4	1096.4	0	0.27	12.00	1073	1073	266	1451316	0.99	4.08	0.31	3000	40	1150	1150	250	250	0	0		
27-Apr-13	9:00 AM	1:00	1078	0.75	1161.3	1141.3	0	0.00	0.00	1073	1073	266	1515696	1.00	4.05	0.31	3000	40	1197	1197	260	260	0	0		
27-Apr-13	10:00 AM	1:00	1080	0.75	1206.3	1186.3	0	0.04	2.00	1075	1075	268	1580196	1.00	4.03	0.31	3000	40	1244	1244	271	271	0	0		
27-Apr-13	11:00 AM	1:00	1075	0.75	1251.1	1231.1	0	0.16	7.00	1082	1082	275	1645116	1.01	3.91	0.32	3000	40	1291	1291	281	281	0	0		
27-Apr-13	12:00 PM	1:00	1085	0.75	1296.3	1276.3	0	0.07	3.00	1085	1085	278	1710216	1.00	3.90	0.32	3000	40	1339	1339	291	291	0	0		
27-Apr-13	1:00 PM	1:00	1078	0.75	1341.2	1321.2	0	0.13	6.00	1091	1091	284	1775676	1.01	3.79	0.32	3000	40	1386	1386	301	301	0	0		
27-Apr-13	2:00 PM	1:00	1075	0.75	1386.0	1366.0	0	0.13	6.00	1097	1097	290	1841496	1.02	3.71	0.32	3000	40	1433	1433	311	311	0	0		
27-Apr-13	3:00 PM	1:00	1080	0.75	1431.0	1411.0	0	-0.02	-1.00	1096	1096	289	1907256	1.01	3.74	0.32	3000	40	1480	1480	322	322	0	0		
27-Apr-13	4:00 PM	1:00	1085	0.75	1476.2	1456.2	0	-0.02	-1.00	1095	1095	288	1972956	1.01	3.77	0.32	3000	40	1527	1527	332	332	0	0		
27-Apr-13	5:00 PM	1:00	1078	0.75	1521.1	1501.1	0	0.09	4.00	1099	1099	292	2038896	1.02	3.69	0.32	3000	40	1575	1575	342	342	0	0		
27-Apr-13	6:00 PM	1:00	1085	0.75	1566.3	1546.3	0	0.07	3.00	1102	1102	295	2105016	1.02	3.68	0.32	3000	40	1622	1622	353	353	0	0		
27-Apr-13	7:00 PM	1:00	1080	0.75	1611.3	1591.3	0	0.11	5.00	1107	1107	300	2171436	1.03	3.60	0.32	3000	40	1669	1669	363	363	0	0		
27-Apr-13	8:00 PM	1:00	1075	0.75	1656.1	1636.1	0	0.20	9.00	1116	1116	309	2238396	1.04	3.48	0.33	3000	40	1716	1716	373	373	0	0		
27-Apr-13	9:00 PM	1:00	1082	0.75	1701.2	1681.2	0	0.00	0.00	1116	1116	309	2305356	1.03	3.50	0.33	3000	40	1763	1763	383	383	0	0		
27-Apr-13	10:00 PM																									

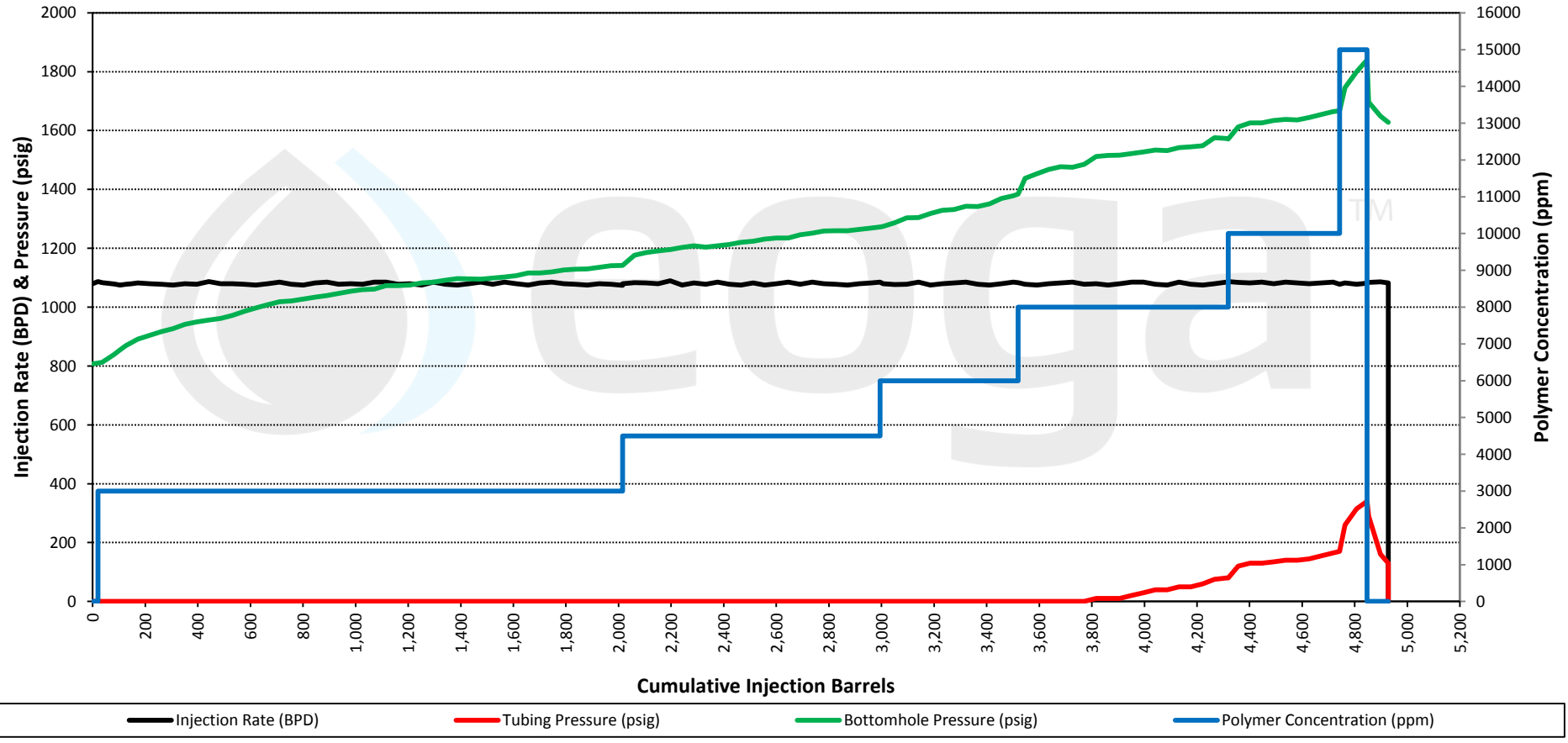


PROJECT INFORMATION

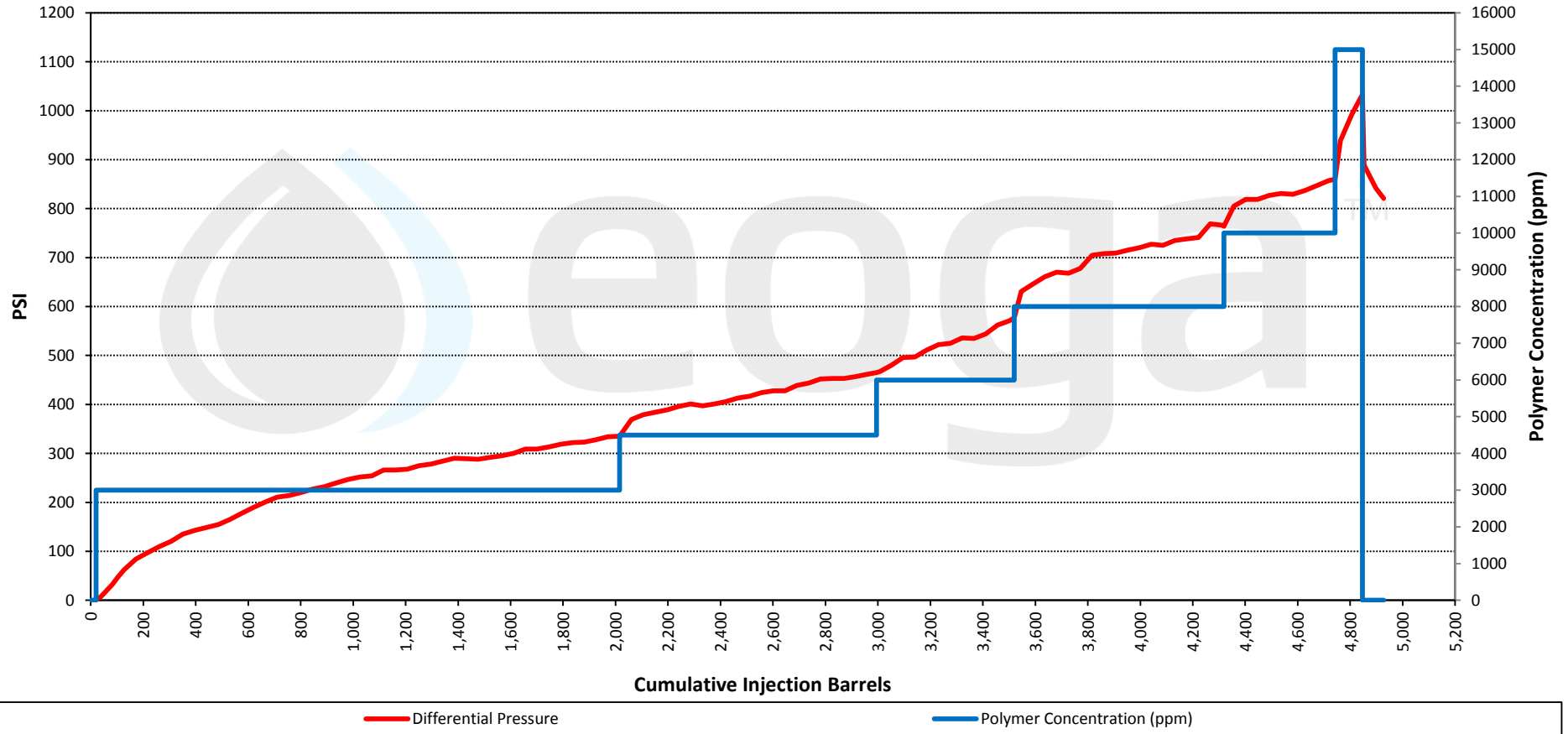
Company Name: Citation Oil & Gas Corp.	Depth to Top Perforation or OH (ft.): 3408	EOT (ft.): 3390
Field Name: Barry	Depth to Bottom Perforation or OH (ft.): 3418	Packer (ft.): 3390
Well Name: Barry LKC 6-39	Depth to Mid-Perf (ft.): 3413	Tbg Size: 2.875"
Injector or Producer: Producer	BHP Tool Depth (ft.): 3400	Tbg. Cap. (bbbls./ft.): 0.00538
County/State: Rooks/KS	Type Mix Water Used: Produced	Tbg. Vol. (bbbls.): 18.24
Polymer Unit No.: 1	Mix Water Specific Gravity: 1.02	Csg Size: 5.5", 14#
Polymer Unit Operators: Scott Seaton (day) 785-885-8187 / Brad Gordon (night) 785-885-8206	Mix Water Pressure Gradient (psi per ft.): 0.442	Csg. Cap. (bbbls./ft.): 0.0244
Generator Used (Yes/No): Yes	Expected Positive Surface Pressure @ BHP of: 1502	Csg Vol. bbbls. (Pkr. to Btm. Perf.): 0.6832
Customer Contact: Daniel Hansberger 281-891-1484 (off) 405-605-9177 (cell)	Estimated Static BHP (psig): 807	Total Well Vol. (bbbls.): 18.92

Date	Time	Elapsed Time Between Readings (Mins.)	Injection Rate		Total Cum. Injection (Bbbls.)	Stage Cum. Injection (Bbbls.)	Tubing Pressure (psig)	PSIG per Bbl Injected	PSIG per Hour Injected	Bottomhole Conditions			Injectivity Index (BPD/Calc. BHP-Static BHP) (BPD per psig)	Pressure Gradient (psig per ft.)	Polymer Concentration (ppm)	Cross-linker Ratio (x:1)	Total Cum. Polymer (lbs.)	Stage Cum. Polymer (lbs.)	Total Cum. X-linker (lbs.)	Stage Cum. X-linker (lbs.)	Casing Pressure (psig)	Comments			
			BPD	BPM						Actual Reading (psig)	Calculated to Mid-Perf (psia)	Hall Plot Cum. Δp psi-time											Injectivity Ratio (Psi + Rate)		
			Pressure																						
28-Apr-13	11:00 PM	1:00	1075	0.75	2871.0	856.0	0	0.00	0.00	1260	1260	453	4173096	1.17	2.37	0.37	4500	40	3440	1347	748	293	0		
29-Apr-13	12:00 AM	1:00	1080	0.75	2916.0	901.0	0	0.20	9.00	1269	1269	457	4249236	1.17	2.34	0.37	4500	40	3510	1417	763	308	0		
29-Apr-13	1:00 AM	1:00	1082	0.75	2961.0	946.1	0	0.07	3.00	1272	1269	462	4325556	1.17	2.33	0.37	4500	40	3581	1488	779	324	0		
29-Apr-13	1:45 AM	0:45	1085	0.75	2995.0	980.0	0	0.00	0.00	1272	1272	465	4382796	1.17	2.33	0.37	4500	40	3635	1542	790	335	0		
29-Apr-13	1:45 AM	0:00	1085	0.75	2995.0	0.0	0	0.00	0.00	1272	1272	465	4382796	1.17	2.33	0.37	6000	40	3635	0	790	0	0	0	Increase polymer concentration to 6,000 ppm
29-Apr-13	2:00 AM	0:15	1080	0.75	3006.3	11.3	0	0.18	8.00	1274	1274	467	4401906	1.18	2.31	0.37	6000	40	3658	23	795	5	0		
29-Apr-13	3:00 AM	1:00	1076	0.75	3051.1	56.1	0	0.29	13.00	1287	1287	480	4479126	1.20	2.24	0.38	6000	40	3752	117	816	26	0		
29-Apr-13	4:00 AM	1:00	1078	0.75	3096.0	101.0	0	0.36	16.00	1303	1303	496	4557306	1.21	2.17	0.38	6000	40	3847	212	836	46	0		
29-Apr-13	5:00 AM	1:00	1085	0.75	3141.2	146.2	0	0.02	1.00	1304	1304	497	4635546	1.20	2.18	0.38	6000	40	3941	306	857	67	0		
29-Apr-13	6:00 AM	1:00	1075	0.75	3186.0	191.0	0	0.31	14.00	1318	1318	511	4714626	1.23	2.10	0.39	6000	40	4035	400	877	87	0		
29-Apr-13	7:00 AM	1:00	1080	0.75	3231.0	236.0	0	0.24	11.00	1329	1329	522	4794366	1.23	2.07	0.39	6000	40	4130	495	898	108	0		
29-Apr-13	8:00 AM	1:00	1082	0.75	3276.1	281.1	0	0.07	3.00	1332	1332	525	4874286	1.23	2.06	0.39	6000	40	4224	589	918	128	0		
29-Apr-13	9:00 AM	1:00	1085	0.75	3321.3	326.3	0	0.24	11.00	1343	1343	536	4954866	1.24	2.02	0.39	6000	40	4319	684	939	149	0		
29-Apr-13	10:00 AM	1:00	1078	0.75	3366.2	371.2	0	-0.02	-1.00	1342	1342	535	5035386	1.25	2.01	0.39	6000	40	4413	778	959	169	0		
29-Apr-13	11:00 AM	1:00	1075	0.75	3411.0	416.0	0	0.20	9.00	1351	1351	544	5116446	1.26	1.98	0.40	6000	40	4507	872	980	190	0		
29-Apr-13	12:00 PM	1:00	1080	0.75	3456.0	461.0	0	0.40	18.00	1369	1369	562	5198586	1.27	1.92	0.40	6000	40	4602	967	1000	210	0		
29-Apr-13	1:00 PM	1:00	1085	0.75	3501.2	506.2	0	0.20	9.00	1378	1378	571	5281266	1.27	1.90	0.40	6000	40	4697	1062	1021	231	0		
29-Apr-13	1:25 PM	0:25	1083	0.75	3520.0	525.0	0	0.32	14.40	1384	1384	577	5315866	1.28	1.88	0.41	6000	40	4736	1101	1030	240	0		
29-Apr-13	1:25 PM	0:00	1083	0.75	3520.0	0.0	0	0.32	14.40	1384	1384	577	5315866	1.28	1.88	0.41	8000	40	4736	0	1030	0	0	0	Increase polymer concentration to 8,000 ppm
29-Apr-13	2:00 PM	0:35	1078	0.75	3546.2	26.2	0	2.06	92.57	1438	1438	631	5366196	1.33	1.71	0.42	8000	40	4809	73	1046	16	0		
29-Apr-13	3:00 PM	1:00	1075	0.75	3591.0	71.0	0	0.33	15.00	1453	1453	646	5453376	1.35	1.66	0.43	8000	40	4935	199	1073	43	0		
29-Apr-13	4:00 PM	1:00	1080	0.75	3636.0	116.0	0	0.33	15.00	1468	1468	661	5541456	1.36	1.63	0.43	8000	40	5060	324	1100	70	0		
29-Apr-13	5:00 PM	1:00	1082	0.75	3681.1	161.1	0	0.20	9.00	1477	1477	670	5630076	1.36	1.62	0.43	8000	40	5187	451	1128	98	0		
29-Apr-13	6:00 PM	1:00	1085	0.75	3726.3	206.3	0	-0.04	-2.00	1475	1475	668	5718576	1.36	1.62	0.43	8000	40	5313	577	1155	125	0		
29-Apr-13	7:00 PM	1:00	1078	0.75	3771.2	251.2	0	0.22	10.00	1485	1485	678	5807676	1.38	1.59	0.44	8000	40	5439	703	1182	152	0		
29-Apr-13	8:00 PM	1:00	1080	0.75	3816.2	296.2	10	0.60	27.00	1512	1512	705	5898396	1.40	1.53	0.44	8000	40	5565	829	1210	180	0		
29-Apr-13	9:00 PM	1:00	1075	0.75	3861.0	341.0	10	0.07	3.00	1515	1515	708	5989296	1.41	1.52	0.44	8000	40	5690	954	1237	207	0		
29-Apr-13	10:00 PM	1:00	1080	0.75	3906.0	386.0	10	0.02	1.00	1516	1516	709	6080256	1.40	1.52	0.44	8000	40	5816	1080	1264	234	0		
29-Apr-13	11:00 PM	1:00	1085	0.75	3951.2	431.2	20	0.13	6.00	1522	1522	715	6171576	1.40	1.52	0.45	8000	40	5942	1206	1292	262	0		
30-Apr-13	12:00 AM	1:00	1085	0.75	3996.4	476.4	30	0.11	5.00	1527	1527	720	6263196	1.41	1.51	0.45	8000	40	6069	1333	1319	289	0		
30-Apr-13	1:00 AM	1:00	1078	0.75	4041.3	521.3	40	0.16	7.00	1534	1534	727	6355236	1.42	1.48	0.45	8000	40	6194	1458	1347	317	0		
30-Apr-13	2:00 AM	1:00	1075	0.75	4086.1	566.1	40	-0.04	-2.00	1532	1532	725	6447156	1.42	1.48	0.45	8000	40	6320	1584	1374	344	0		
30-Apr-13	3:00 AM	1:00	1085	0.75	4131.3	611.3	50	0.22	10.00	1542	1542	735	6539676	1.42	1.48	0.45	8000	40	6446	1710	1401	371	0		
30-Apr-13	4:00 AM	1:00	1078	0.75	4176.2	656.2	50	0.07	3.00	1545	1545	738	6632376	1.43	1.46	0.45	8000	40	6572	1836	1429	399	0		
30-Apr-13	5:00 AM	1:00	1075	0.75	4221.0	701.0	60	0.07	3.00	1548	1548	741	6725256	1.44	1.45	0.45	8000	40	6697	1961	1456	426	0		
30-Apr-13	6:00 AM	1:00	1080	0.75	4266.0	746.0	75	0.62	28.00	1576	1576	769	6819816	1.46	1.40	0.46	8000	40	6823	2087	1483	453	0		
30-Apr-13	7:00 AM	1:00	1085	0.75	4311.2	791.2	80	-0.07	-3.00	1573	1573	766	6914196	1.45	1.42	0.46	8000	40	6949	2213	1511	481	0		
30-Apr-13	7:10 AM	0:10	1087	0.75	4319.0	799.0	80	-0.26	-12.00	1571	1571	764	6929906	1.45	1.42	0.46	8000	40	6971	2235	1515	485	0		
30-Apr-13	7:10 AM	0:00	1087	0.75	4319.0	0.0	80	-0.26	-12.00	1571	1571	764	6929906	1.45	1.42	0.46	10000	40	6971	0	1515	0	0	0	Increase polymer concentration to 10,000 ppm
30-Apr-13	8:00 AM	0:49	1084	0.75	4356.4	37.4	120	1.10	50.20	1612	1612	805	7008894	1.49	1.35	0.47	10000	40	7102	131	1544	29	0		
30-Apr-13	9:00 AM	1:00	1082	0.75	4401.5	82.5	130	0.31	14.00	1626	1626	819	7106454	1.50	1.32	0.48	10000	40	7259	288	1578	63	0		
30-Apr-13	10:00 AM	1:00	1085	0.75	4446.7	127.7	130	0.00	0.00	1626	1626	819	7204014	1.50	1.32	0.48	10000	40	7417	446	1612	97	0		
30-Apr-13	11:00 AM	1:00	1080	0.75	4491.7	172.7	135	0.18	8.00	1634	1634	827	7302054	1.51	1.31	0.48	10000	40	7575	604	1647	132	0		
30-Apr-13	12:00 PM	1:00	1085	0.75	4536.9	217.9	140	0.09	4.00	1638	1638	831	7400334	1.51	1.31	0.48	10000	40	7733	762	1681	166	0		
30-Apr-13	1:00 PM	1:00	1082	0.75	4582.0	263.0	140	-0.04	-2.00	1636	1636	829	7498494	1.51	1.31	0.48	10000	40	7891	920	1715	200	0		
30-Apr-13	2:00 PM	1:00	1080	0.75	4627.0	308.0	145	0.18	8.00	1644	1644	837	7597134	1.52	1.29	0.48	10000	40	8048	1077	1750	235	0		
30-Apr-13	3:00 PM	1:00	1082	0.75	4672.1	353.1	155	0.22	10.00	1654	1654	847	7696374	1.53	1.28	0.48	10000	40	8206	1235	1784	269	0		
30-Apr-13	4:00 PM	1:00	1085	0.75	4717.3	398.3	165	0.22	10.00	1664	1664	857	7796214	1.53	1.27	0.49	10000	40	8364	1393	1818	303	0		
30-Apr-13	4:33 PM	0:33	1078	0.75	4742.0	423.0	170	0.12	5.45	1667	1667	860	7851225	1.55</											

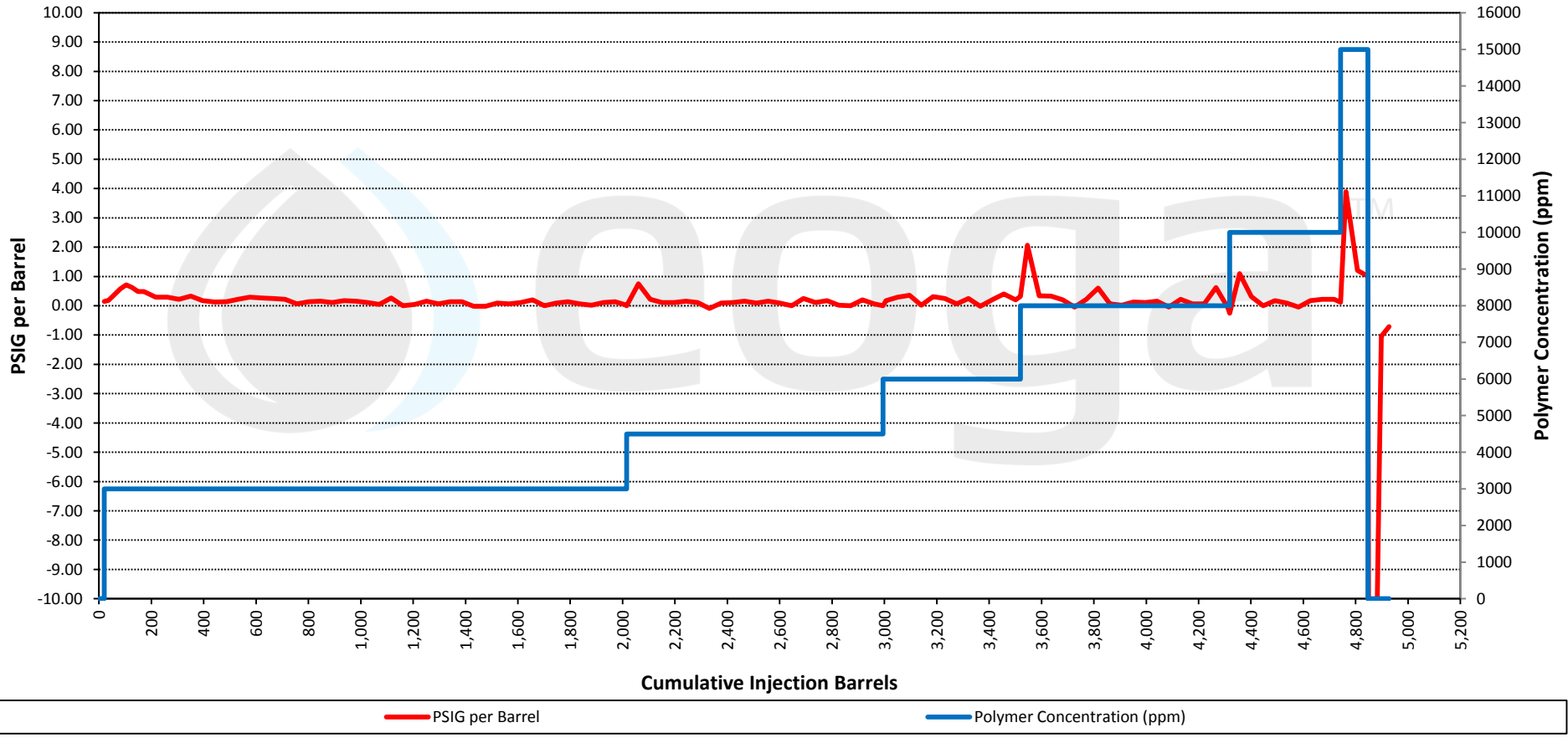
Barry LKC 6-39 Producing Well - Rate vs. Pressure



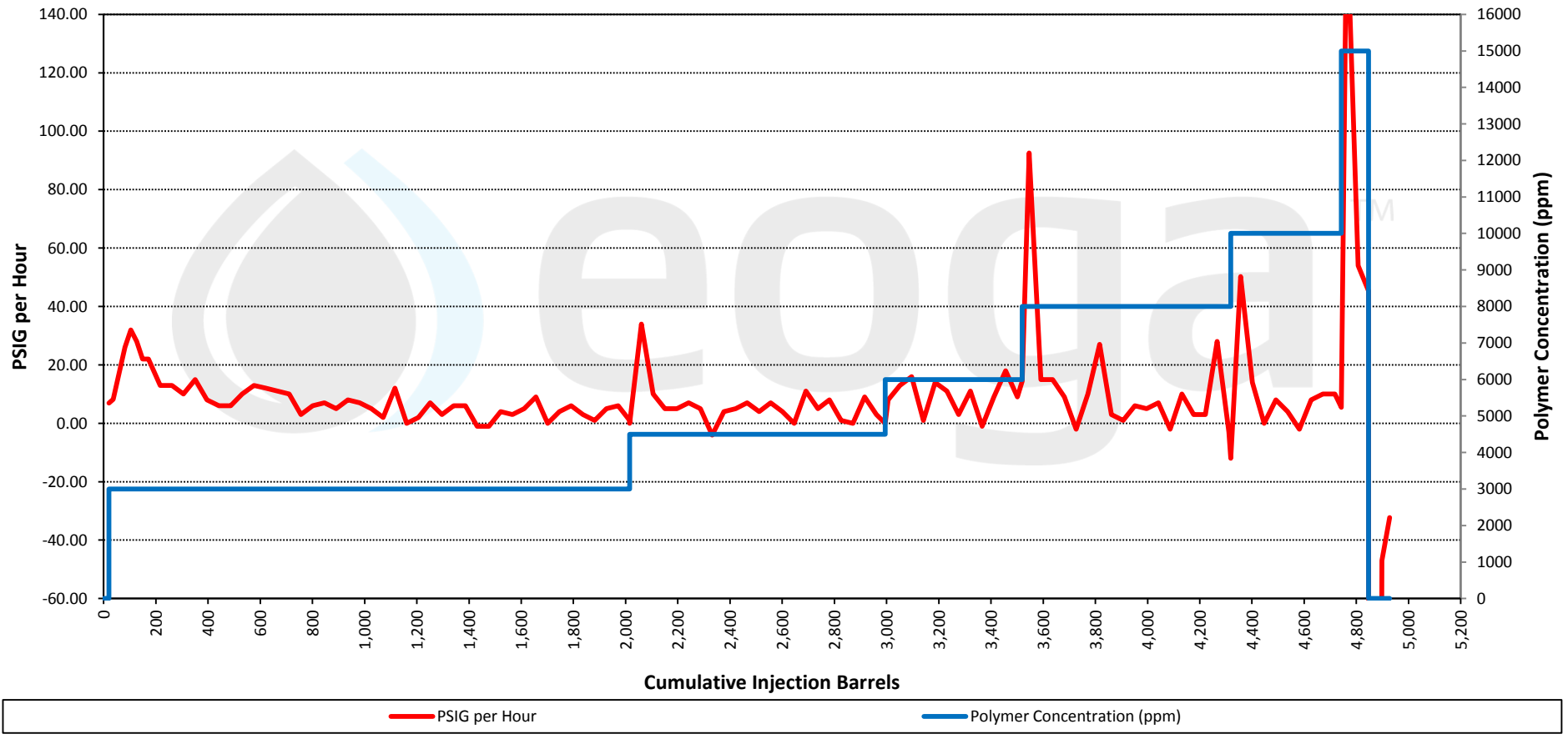
Barry LKC 6-39 Producing Well - Δp (from Beginning BHP)



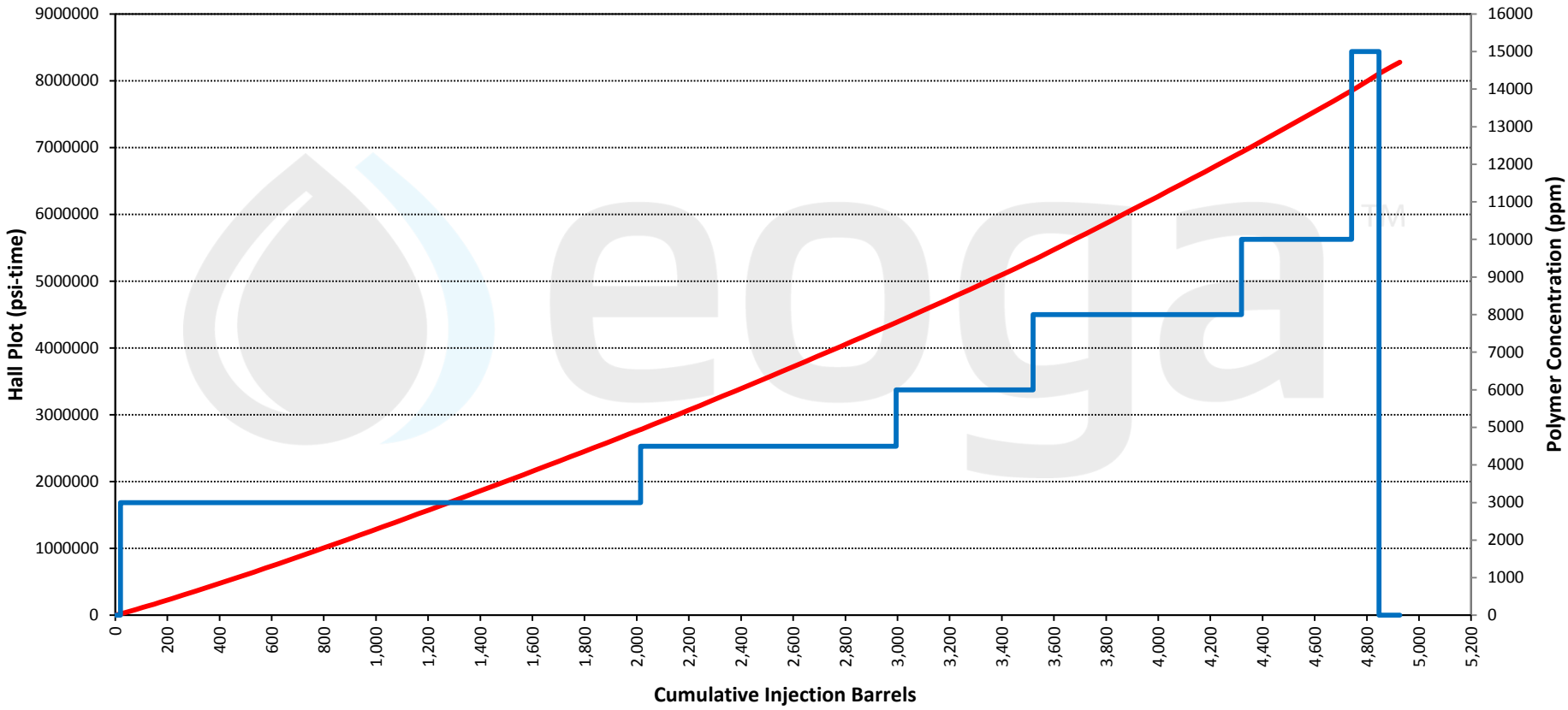
Barry LKC 6-39 Producing Well - PSIG per Barrel



Barry LKC 6-39 Producing Well - PSIG per Hour



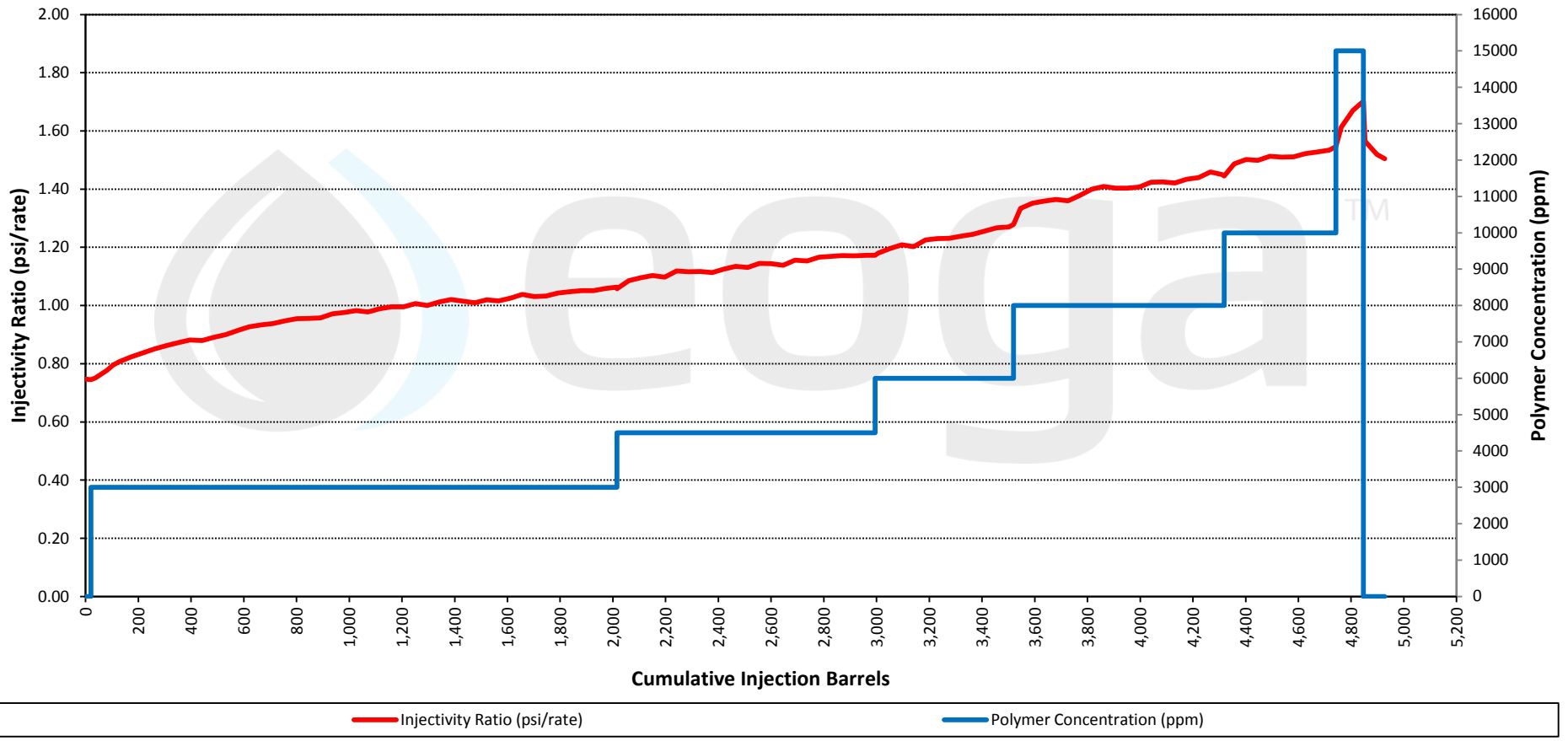
Barry LKC 6-39 Producing Well - Hall Plot



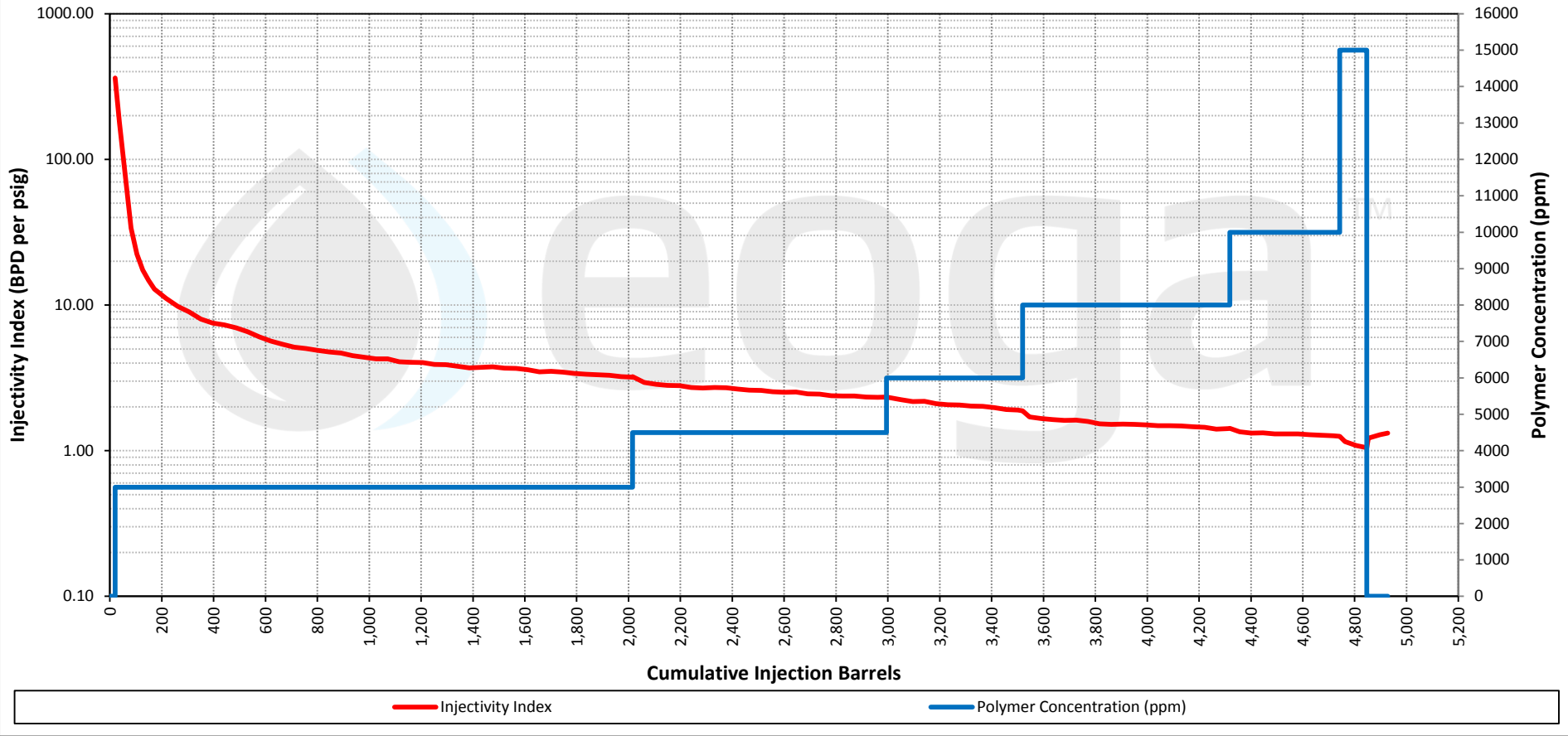
— Hall Plot

— Polymer Concentration (ppm)

Barry LKC 6-39 Producing Well - Injectivity Ratio (PSI/Rate)



Barry LKC 6-39 Producing Well - Injectivity Index



Barry LKC 6-39 Producing Well - Pressure Gradient

