KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1101944

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3553
Name: Citation Oil & Gas Corp.
Address 1: 14077 Cutten Rd
Address 2: PO BOX 690688
City: HOUSTON State: TX Zip: 77269 + 0688
Contact Person: Sandra Ochoa
Phone: (281) 891-1000
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Unknown
Purchaser: NCRA

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: Elysium Energy, LLC.
Well Name: Hendrick 16
Original Comp. Date: 05/19/2003 Original Total Depth: 3451

☐ Deepening ☑ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Conv. to GSW
☐ Plug Back: _____ Plug Back Total Depth
☐ Commingled Permit #: _____
☐ Dual Completion Permit #: _____
☐ SWD Permit #: _____
☐ ENHR Permit #: _____
☐ GSW Permit #: _____

10/29/2012		11/15/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-25220-00-02
Spot Description: C OF N2NE
__ - __ - N2 - NE Sec. 13 Twp. 11 S. R. 18 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
1320 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

County: Ellis
Lease Name: HENDRICK Well #: 16
Field Name: Bemis-Shutts
Producing Formation: Arbuckle, LKC, C, F, G, I
Elevation: Ground: 1884 Kelly Bushing: 1888
Total Depth: 3451 Plug Back Total Depth: 3384
Amount of Surface Pipe Set and Cemented at: 213 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 3439
feet depth to: _____ w/ 500 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

☐ **Letter of Confidentiality Received**
Date: _____
☐ **Confidential Release Date:** _____
☐ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrisor **Date:** 11/26/2012

Side Two

1101944

Operator Name: Citation Oil & Gas Corp. Lease Name: HENDRICK Well #: 16

Sec. 13 Twp. 11 S. R. 18 ☐ East ☑ West County: Ellis

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No
Electric Log Run ☐ Yes ☑ No
Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Arbuckle	3364	
Lansing-Kansas City	3113	
Topeka	2898	
Toronto	3055	
Base Anhydrite	1150	

CASING RECORD ☐ New ☑ 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
Surface	12.2500	8.6250	23	212	c	150	2% gel, 3% cc
Production	7.8750	5.5000	17	3439	c	500	11.2#

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
2	CIBP @ 3381', 3364'-3369'	500 gal. 15% HCL acid w/ 3% solvent	3364-3369

TUBING RECORD: Size: 2.8750 Set At: 3319 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 11/15/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	99.9		35.1		32

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

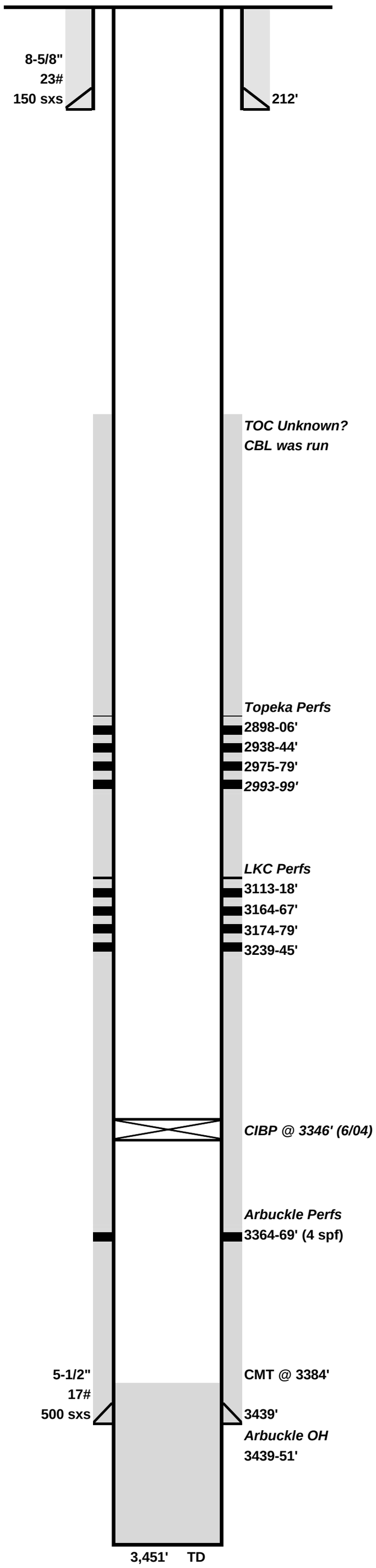
METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
Topeka, Arbuckle, LKC

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

WELLBORE SCHEMATIC

Current



Lease:	**Hendrick**			Well No.	**#16**
API No.	15-051-25220			Status	PR
Location:	NE Sec. 13, T11S-R18W				
County:	Ellis	State:	KS	Field:	Bemis-Shutts
TD	3451'	GL	1880'	Spud Date:	5/12/2003
PBTD	3346'	KB	1888'	Comp Date:	5/19/2003
Current Perfs/OH:	2898-2906', 2938-44', 2975-79', 2993-99', 3113-18', 3164-67', 3174-79', 3239-45'	Current Zone:		TOP, LKC C, F, G, I	

Surface Equipment

Unit Make:		Unit Size:	
Unit S/N:		Unit Rotation:	
SPM:	Stroke Length:		Unit Sheave:
Prime Mover:			Motor Sheave:
Motor S/N:			Motor RPM:

Casing Breakdown

	Size	Grade / Wt	Depth	Hole Size	Cement
Surface	8-5/8"	23#	212'		150 sxs
Production	5-1/2"	17#	3439'		500 sxs
Production					
Production					
Liner					

Tubing Breakdown

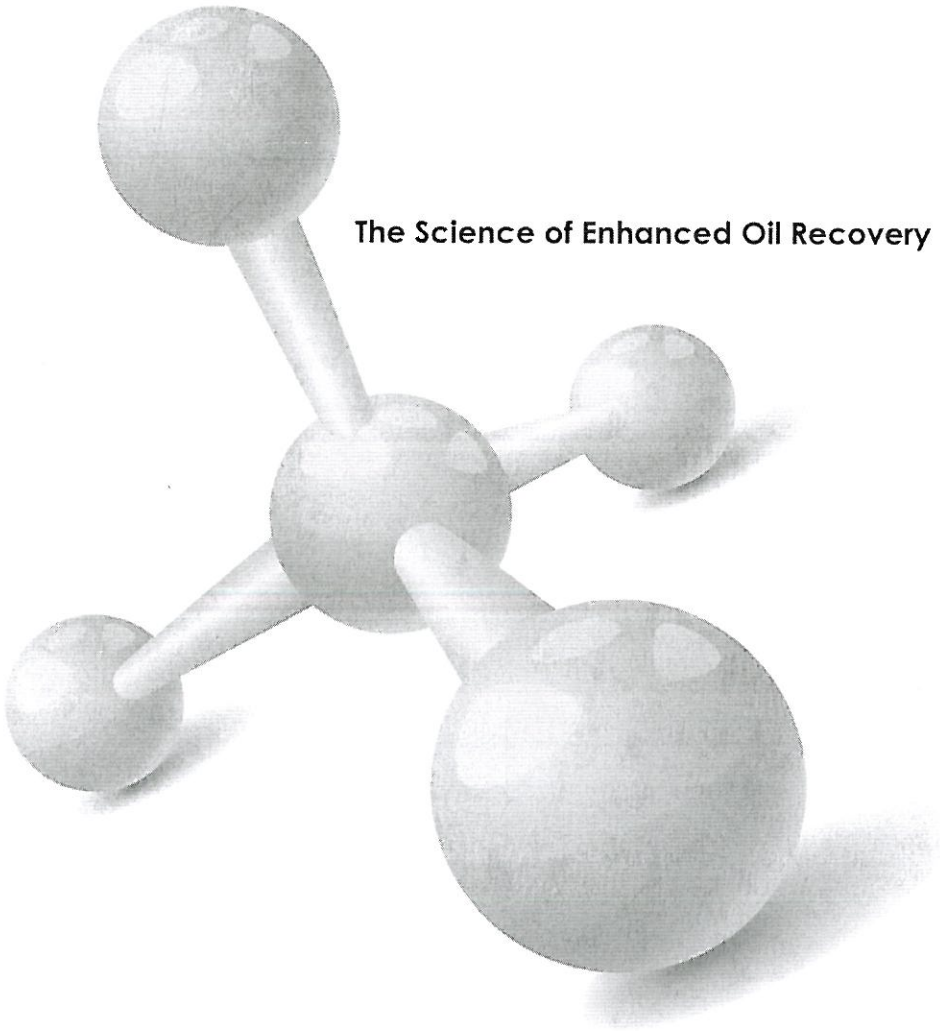
Qty	Description	Footage
	TOTAL	**0.00'**

Rod Breakdown

Qty	Description	Footage
	TOTAL	**0.00'**

Comments

PREPARED BY:	JH	UPDATED:	10/25/2012



The Science of Enhanced Oil Recovery

Treatment Summary For

Citation Oil & Gas Corp.

MARCIT^{sm} Gel Conformance
Bemis-Shutts
Hendrick #16
Ellis County, Kansas

November 13, 2012

TIORCO

A NALCO & STEPAN COMPANY

TREATMENT SUMMARY

PURPOSE

Use MARCIT^{sm} polymer gel technology to 1) decrease water production, 2) lower producing fluid level, 3) improve draw-down on oil-saturated reservoir matrix rock, 4) improve oil recovery and well economics.

TREATMENT

TIORCO equipment and personnel arrived on location on November 5, 2012. A tailgate safety meeting was held to discuss all potential hazards specific to the job. TIORCO's Portable Unit #17 was connected to frac tanks for treatment supply water and to the wellhead for polymer solution injection. The unit was then connected to an electrical source. The treatment consisted of 2,432 BBLS of gel. The treatment started on November 5, 2012 at 14:30 and ended on November 7, 2012 at 19:19. The gel was made-up of 3,740 lbs. of EOR204 (Medium molecular weight polymer) and 801 lbs. of EOR684 (crosslinker). Details for each stage of the treatment, job log, and injection charts are included.

MARCIT^{sm} GEL QA/QC

Representative samples of cross-linked polymer solution were collected during all treatment stages to ensure that the intended gels would ultimately form. Pre-gel samples were stored at a temperature of 120°F in an oven onboard the TIORCO portable polymer injection unit. All samples indicated that gels formed as intended.

TIORCO is very interested in monitoring and evaluating the results of this treatment with time. If you should have questions or comments regarding the job, please do not hesitate to contact Mike Lantz in our Denver office at (303) 923-6440. We greatly appreciate the opportunity to be of service to Citation Oil & Gas Corp. and look forward to working with you again in the future.

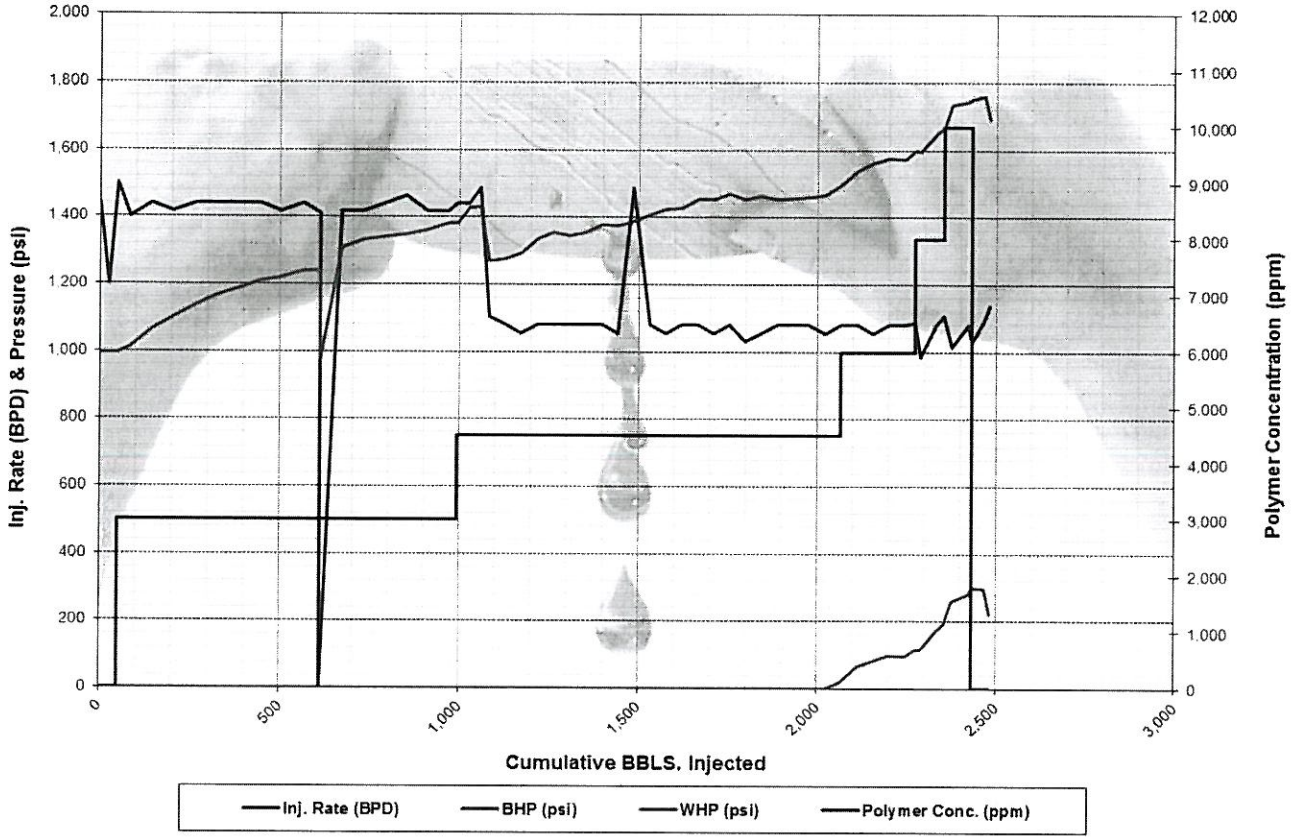
TREATMENT STAGE LOG

Stage	Date Begin	Time Begin	Date End	Time End	Polymer ppm	BBLS / Stage	WHP (psi)		BHP (psi)		Pump Rate (bpd)		Comments
							Begin	End	Begin	End	Begin	End	
1	11/5/12	2:30 PM	11/5/12	3:24 PM	0	50	0	0			1440	1440	Stage #1 Water Flush with CRO195 / X-Cide 102w
2	11/5/12	3:24 PM	11/6/12	10:26 AM	3,000	945	0	0	995	1382	1440	1440	Stage #2 3,000 ppm. with X-Cide 102w
3	11/6/12	10:26 AM	11/7/12	10:00 AM	4,500	1120	0	21	1382	1496	1440	1080	Stage #3 4,500 ppm with X-Cide 102w
4	11/7/12	10:00 AM	11/7/12	2:41 PM	6,000	210	21	115	1496	1598	1080	1080	Stage #4 6,000 ppm with X-Cide 102w
5	11/7/12	2:41 PM	11/7/12	4:26 PM	8,000	78	115	190	1598	1668	1080	1080	Stage #5 8,000 ppm with X-Cide 102w
6	11/7/12	4:26 PM	11/7/12	6:14 PM	10,000	79	190	300	1668	1750	1080	1080	Stage #6 10,000 ppm with X-Cide 102w
7	11/7/12	6:14 PM	11/7/12	7:19 PM	0	50	300	220	1750	1691	1080	1080	Stage #7 Water Flush with CRO195 / X-Cide 102w
Totals						2532							

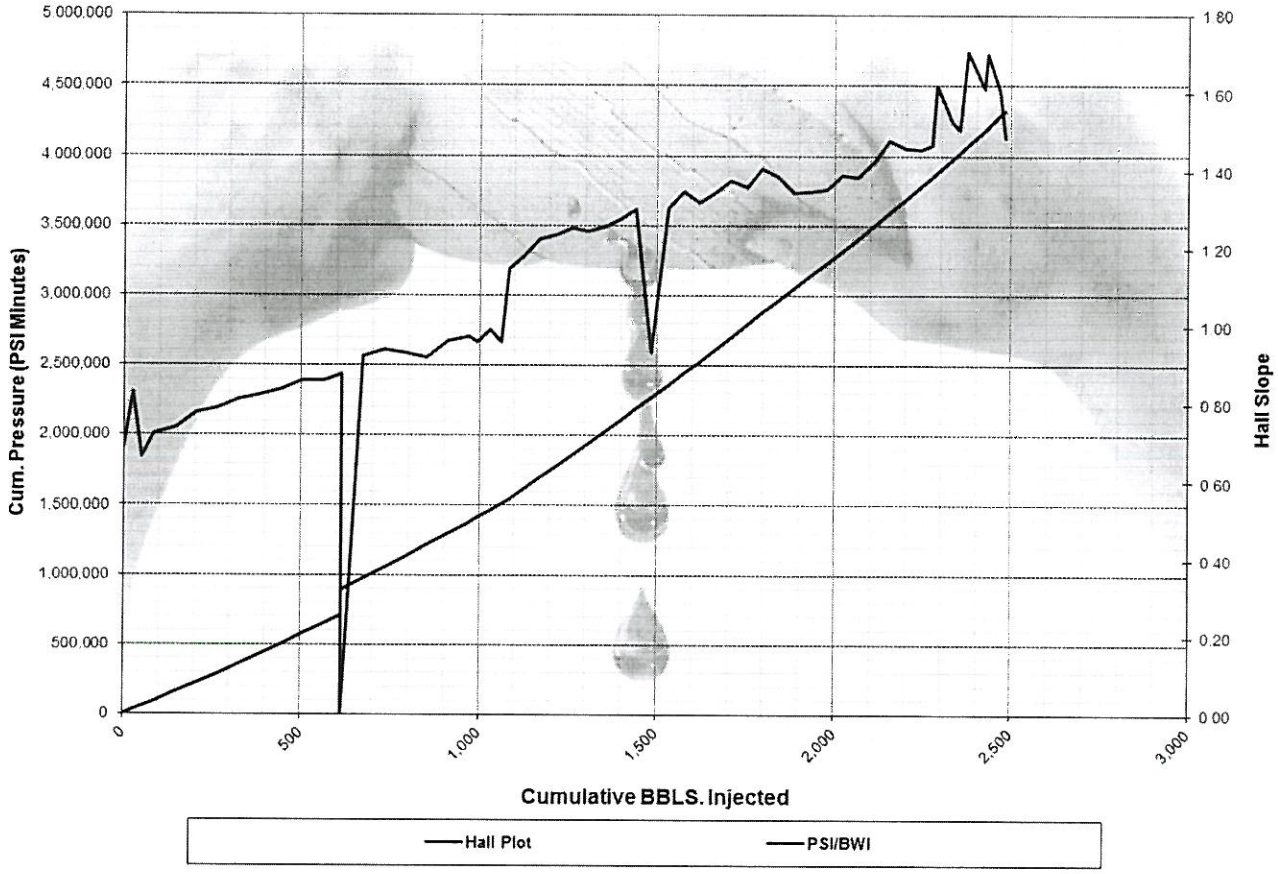
MARCIT℠ GEL QA/QC

Sample No.	Treatment Stage	Sample Date	Sample Time	Cum. Bbls.	Polymer ppm	Polymer:X-Linker Ratio	Comments
1	2	11/05/12	16:15	100	3,000	40:1	Graded 3g
2	2	11/06/12	00:00	563	3,000	40:1	Graded 3g
3	2	11/06/12	10:15	985	3,000	40:1	Graded 3g
4	3	11/06/12	11:15	1,045	4,500	40:1	Graded 4g
5	3	11/07/12	00:00	1,620	4,500	40:1	Graded 3g
6	3	11/07/12	09:00	2,020	4,500	40:1	Graded 4g
7	4	11/07/12	11:09	2,177	6,000	40:1	Graded 6g
8	4	11/07/12	14:00	2,244	6,000	40:1	Graded 6g
9	5	11/07/12	15:49	2,333	8,000	40:1	Graded 8e
10	6	11/07/12	17:00	2,377	10,000	40:1	Graded 9e

RATE, PRESSURE, & CONCENTRATION



HALL SLOPE


5,000,000
4,500,000
4,000,000
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Cum. Pressure (PSI Minutes)
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Hall Slope
0
500
1,000
1,500
2,000
2,500
3,000
Cumulative BBLS. Injected
Hall Plot
PSI/BWI

TREATMENT JOB LOG

DATE	TIME	INJECTION RATE		CUM. INJ BBLS	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS	COMMENTS
		BPD	BPM							
5-Nov-12	14:30	1,440	1.00	0	0	995	0.69	0	0	Begin Well Treatment Stage # 1 50 BBL Water Flush With CRO 195 and XC102W
5-Nov-12	15:00	1,200	0.83	25	0	995	0.83	0	0	
5-Nov-12	15:24	1,500	1.04	50	0	995	0.66	0	0	End Stage # 1
5-Nov-12	15:24	1,500	1.04	50	0	995	0.66	3,000	0	Begin Stage # 2 @ 3000 PPM With EOR 204 and 684 Cont. XC102W
5-Nov-12	16:00	1,400	0.97	85	0	1,012	0.72	3,000	37	16:15 Polymer Sample From Unit @100 BBL: Graded 3g
5-Nov-12	17:00	1,440	1.00	145	0	1,063	0.74	3,000	100	
5-Nov-12	18:00	1,416	0.98	204	0	1,101	0.78	3,000	162	
5-Nov-12	19:00	1,440	1.00	264	0	1,137	0.79	3,000	224	
5-Nov-12	20:00	1,440	1.00	324	0	1,168	0.81	3,000	287	
5-Nov-12	21:00	1,440	1.00	384	0	1,185	0.82	3,000	350	
5-Nov-12	22:00	1,440	1.00	444	0	1,208	0.84	3,000	413	
5-Nov-12	23:00	1,416	0.98	503	0	1,219	0.86	3,000	475	
6-Nov-12	0:00	1,440	1.00	563	0	1,238	0.86	3,000	538	Took sample of 3,000 ppm 563 BBLS: Graded 3g
6-Nov-12	0:50	1,411	0.98	612	0	1,238	0.88	3,000	590	Rental generator stopped running. Unit shutdown.
6-Nov-12	4:00	0	0.00	612	0	972	0.00	3,000	590	Restart unit with backup generator.
6-Nov-12	5:00	1,416	0.98	671	0	1,309	0.92	3,000	651	
6-Nov-12	6:00	1,416	0.98	730	0	1,333	0.94	3,000	713	
6-Nov-12	7:00	1,440	1.00	790	0	1,340	0.93	3,000	776	
6-Nov-12	8:00	1,464	1.02	851	0	1,349	0.92	3,000	840	
6-Nov-12	9:00	1,416	0.98	910	0	1,362	0.96	3,000	902	
6-Nov-12	10:00	1,416	0.98	969	0	1,381	0.98	3,000	964	10:15 Took sample of 3,000 ppm 985 BBLS: Graded 3g
6-Nov-12	10.26	1,440	1.00	995	0	1,382	0.96	3,000	991	End Stage #2.
6-Nov-12	10:26	1,440	1.00	995	0	1,382	0.96	4,500	991	Begin Stage #3. 4,500 PPM with EOR204 and 684 Cont. XC102W
6-Nov-12	11:00	1,440	1.00	1,029	0	1,428	0.99	4,500	1,045	11:15 Took sample of 4500 ppm @ 1,045 BBLS: Graded 4g
6-Nov-12	11:30	1,488	1.03	1,060	0	1,430	0.96	4,500	1,094	Slowed rate to 1,080 BWIPD
6-Nov-12	12:00	1,104	0.77	1,083	0	1,269	1.15	4,500	1,130	
6-Nov-12	13:00	1,080	0.75	1,128	0	1,276	1.18	4,500	1,201	
6-Nov-12	14:00	1,056	0.73	1,172	0	1,293	1.22	4,500	1,270	
6-Nov-12	15:00	1,080	0.75	1,217	0	1,335	1.24	4,500	1,341	
6-Nov-12	16:00	1,080	0.75	1,262	0	1,354	1.25	4,500	1,411	
6-Nov-12	17:00	1,080	0.75	1,307	0	1,345	1.25	4,500	1,482	
6-Nov-12	18:00	1,080	0.75	1,352	0	1,356	1.26	4,500	1,553	
6-Nov-12	19:00	1,080	0.75	1,397	0	1,377	1.28	4,500	1,624	
6-Nov-12	20:00	1,056	0.73	1,441	0	1,376	1.30	4,500	1,693	
6-Nov-12	21:00	1,486	1.03	1,486	0	1,389	0.93	4,500	1,764	
6-Nov-12	22:00	1,080	0.75	1,531	0	1,408	1.30	4,500	1,835	
6-Nov-12	23:00	1,056	0.73	1,575	0	1,424	1.35	4,500	1,904	
7-Nov-12	0:00	1,080	0.75	1,620	0	1,426	1.32	4,500	1,975	Took sample of 4,500 ppm @ 1,620 BBLS: Graded 3g
7-Nov-12	1:00	1,080	0.75	1,665	0	1,453	1.35	4,500	2,045	
7-Nov-12	2:00	1,056	0.73	1,709	0	1,453	1.38	4,500	2,115	
7-Nov-12	3:00	1,080	0.75	1,754	0	1,469	1.36	4,500	2,185	
7-Nov-12	4:00	1,032	0.72	1,797	0	1,453	1.41	4,500	2,253	
7-Nov-12	5:00	1,056	0.73	1,841	0	1,462	1.38	4,500	2,322	
7-Nov-12	6:00	1,080	0.75	1,886	0	1,453	1.35	4,500	2,393	
7-Nov-12	7:00	1,080	0.75	1,931	0	1,456	1.35	4,500	2,464	
7-Nov-12	8:00	1,080	0.75	1,976	0	1,461	1.35	4,500	2,535	
7-Nov-12	9:00	1,056	0.73	2,020	0	1,468	1.39	4,500	2,604	Took sample #6 at 09:00 4500 ppm: Graded 4g
7-Nov-12	10:00	1,080	0.75	2,065	21	1,496	1.39	4,500	2,675	End Stage #3 at 4500 ppm
7-Nov-12	10:00	1,080	0.75	2,065	21	1,496	1.39	6,000	2,675	Begin Stage #4 at 6000 ppm: Graded 6g
7-Nov-12	11:00	1,080	0.75	2,110	65	1,540	1.43	6,000	2,769	
7-Nov-12	12:00	1,056	0.73	2,154	82	1,561	1.48	6,000	2,862	
7-Nov-12	13:00	1,080	0.75	2,199	98	1,575	1.46	6,000	2,956	
7-Nov-12	14:00	1,080	0.75	2,244	96	1,572	1.46	6,000	3,050	14:00 took sample #7 6000 ppm: Graded 6g
7-Nov-12	14:41	1,089	0.76	2,275	115	1,598	1.47	6,000	3,115	End stage #4 at 6000 ppm
7-Nov-12	14:41	1,089	0.76	2,275	115	1,598	1.47	8,000	3,115	Begin stage #5 at 8000 ppm

DATE	TIME	INJECTION RATE		CUM. INJ BBLS	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS	COMMENTS
		BPD	BPM							
7-Nov-12	15:00	985	0.68	2,288	114	1,596	1.62	8,000	3,152	
7-Nov-12	16:00	1,080	0.75	2,333	170	1,648	1.53	8,000	3,278	took sample at 2325 BBLS @ 15:49 8000 ppm #9 sample: Graded 8e
7-Nov-12	16:26	1,108	0.77	2,353	190	1,668	1.51	8,000	3,334	End stage #5 of 8,000 ppm
7-Nov-12	16:26	1,108	0.77	2,353	190	1,668	1.51	10,000	3,334	Begin stage #6 @ 10,000 ppm
7-Nov-12	17:00	1,016	0.71	2,377	260	1,735	1.71	10,000	3,417	Took sample of 10,000 ppm #10 sample: Graded 9e
7-Nov-12	18:00	1,080	0.75	2,422	280	1,743	1.61	10,000	3,575	
7-Nov-12	18:14	1,029	0.71	2,432	300	1,750	1.70	10,000	3,610	End stage #6 of 10,000 ppm
7-Nov-12	18:14	1,029	0.71	2,432	300	1,750	1.70	0	3,610	Begin stage #7 50 bbl. water flush with CRO 195
7-Nov-12	19:00	1,096	0.76	2,467	295	1,760	1.61	0	3,610	
7-Nov-12	19:19	1,137	0.79	2,482	220	1,691	1.49	0	3,610	End Stage #7. Completed Treatment

TIORCO
A NALCO & STEPAN COMPANY
2452 South Trenton Way • Suite M • Denver, CO 80231 • 303.923.6440

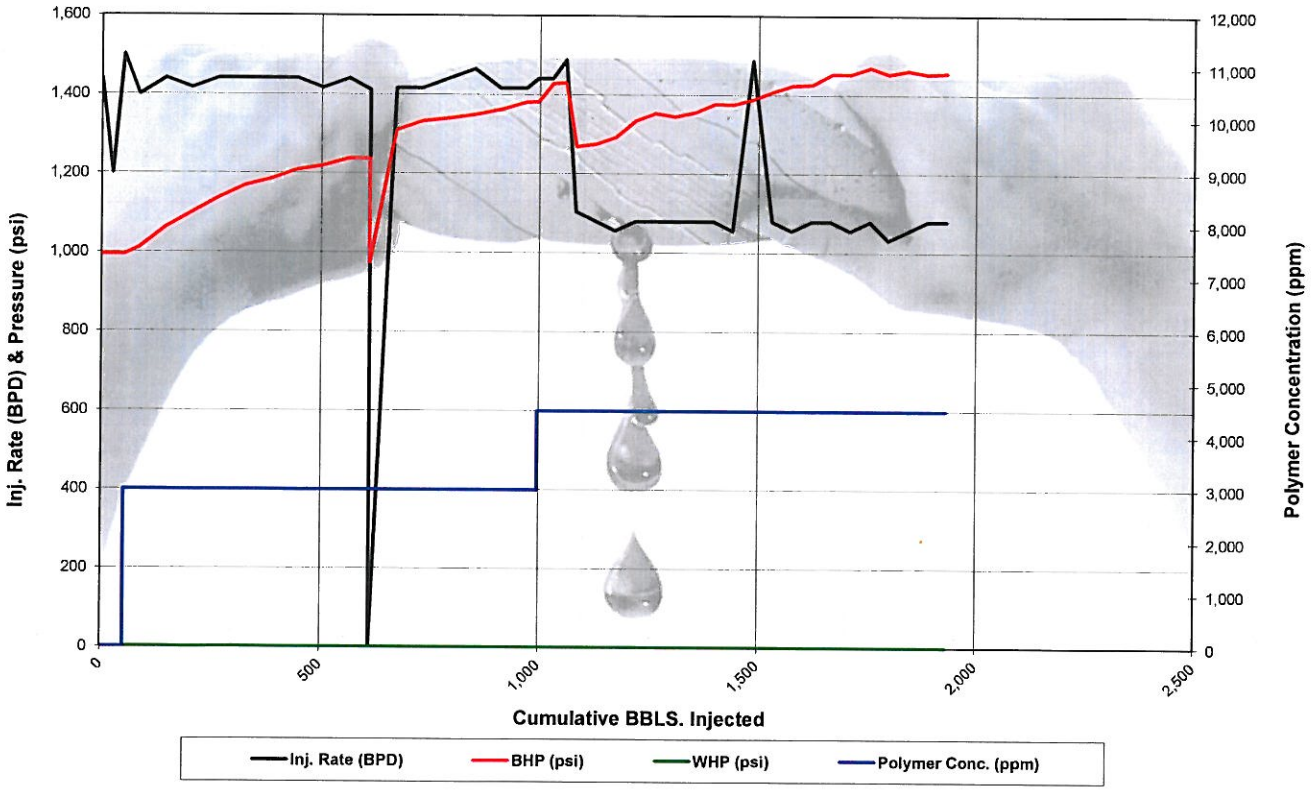
Company Name: Citation Oil & Gas Corp.
Field Name: Bemis - Shutts
Well Name: Hendrick #16
Well Type: Injection
County and State: Ellis County, Kansas
Portable Unit #: 17
Report Date: November 7, 2012

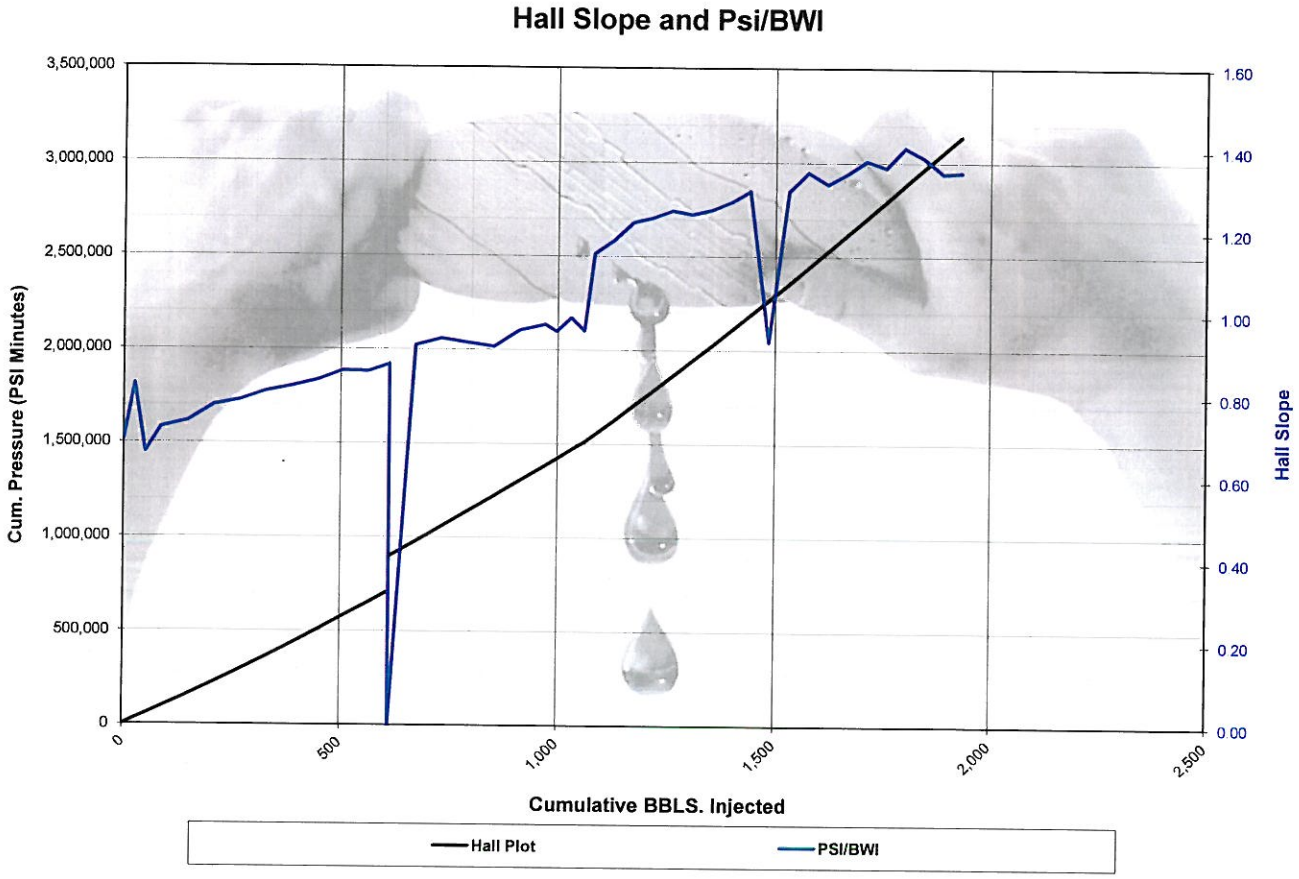
MARCIT Polymer Gel Treatment

Treatment Summary and Charts

Stage	Date Begin	Time Begin	Date End	Time End	Polymer ppm	BBLS / Stage	WHP (psi) Begin	WHP (psi) End	BHP (psi) Begin	BHP (psi) End	Pump Rate (bpd) Begin	Pump Rate (bpd) End	Comments
1	11/5/12	2:30 PM	11/5/12	3:24 PM	0	50	0	0			1440	1440	Stage #1 Water Flush
2	11/5/12	3:24 PM	11/6/12	10:26 AM	3,000	945	0	0	995	1382	1440	1440	Stage #2 3,000 ppm.
2	11/6/12	10:26 AM			4,500		0		1382		1440		Stage #3 4,500 ppm
Totals						995							

Injection Rate, Pressure , & Concentration




Hall Slope and Psi/BWI
Cum. Pressure (PSI Minutes)
3,500,000
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
0
500
1,000
1,500
2,000
2,500
Cumulative BBLS. Injected
Hall Slope
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Hall Plot
PSI/BWI