



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1138883
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
-----------------------------------	-----------------	---

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: _____



1138883

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
--	---

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Citation Oil & Gas Corp.
Well Name	J Morel 8
Doc ID	1138883

All Electric Logs Run

Micro Log
Dual Induction Log
Cmpensated Neutron Log
Geological Report

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

June 12, 2013

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

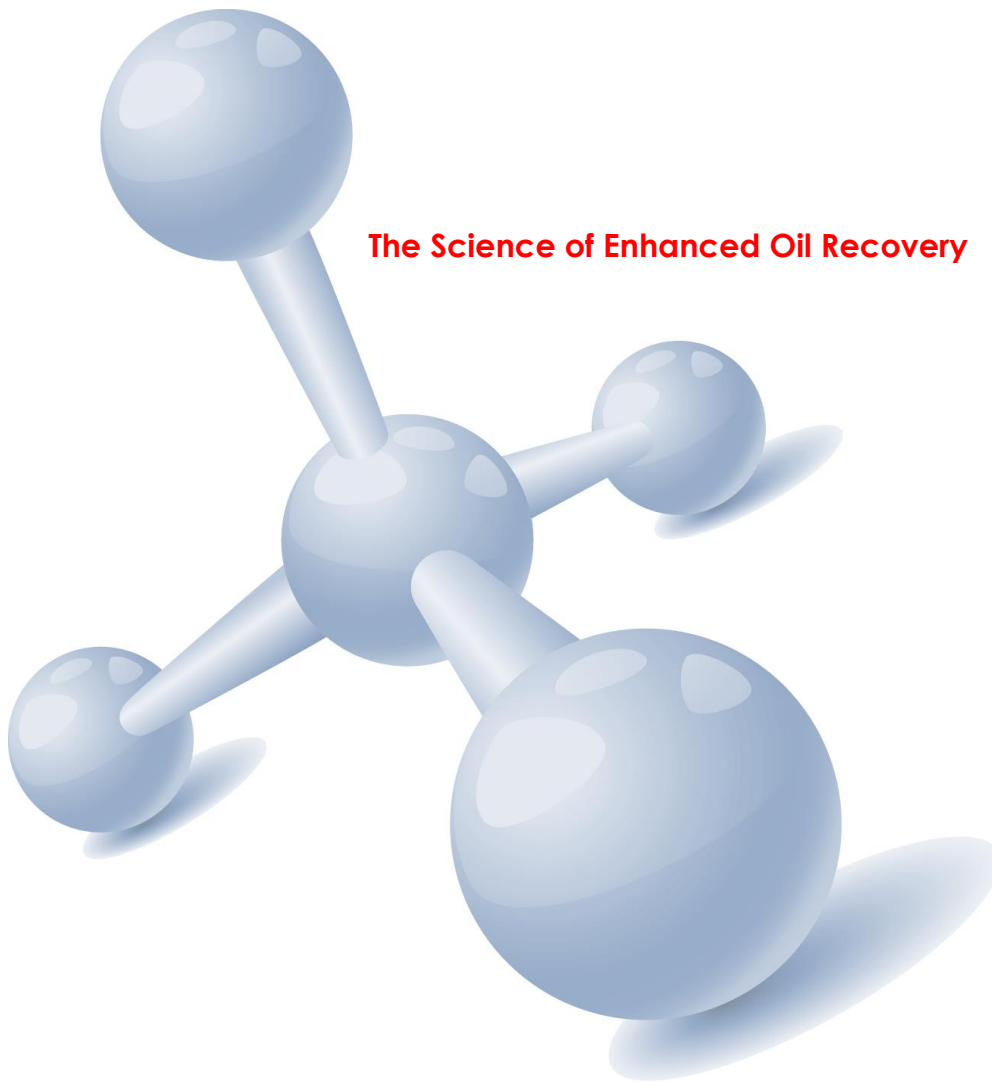
Re: ACO1
API 15-065-23902-00-00
J Morel 8
SE/4 Sec.15-09S-21W
Graham County, Kansas

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



The Science of Enhanced Oil Recovery

Treatment Summary For

Citation Oil & Gas Corp.

MARCITsm Gel Conformance

Morel

Morel J #8

Graham County, Kansas

June 3, 2013

TIORCO
A NALCO & STEPAN COMPANY

TREATMENT SUMMARY

PURPOSE

Use MARCITsm 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 May 28, 2013. 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 5,251 BBLS of gel. The treatment started on May 28, 2013 at 13:00 and ended on June 2, 2013 at 12:14. The gel was made-up of 10,340 lbs. of EOR204 (Medium molecular weight polymer) and 2,248 lbs. of EOR684 (crosslinker). Details for each stage of the treatment, job log, and injection charts are included.

MARCITsm 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

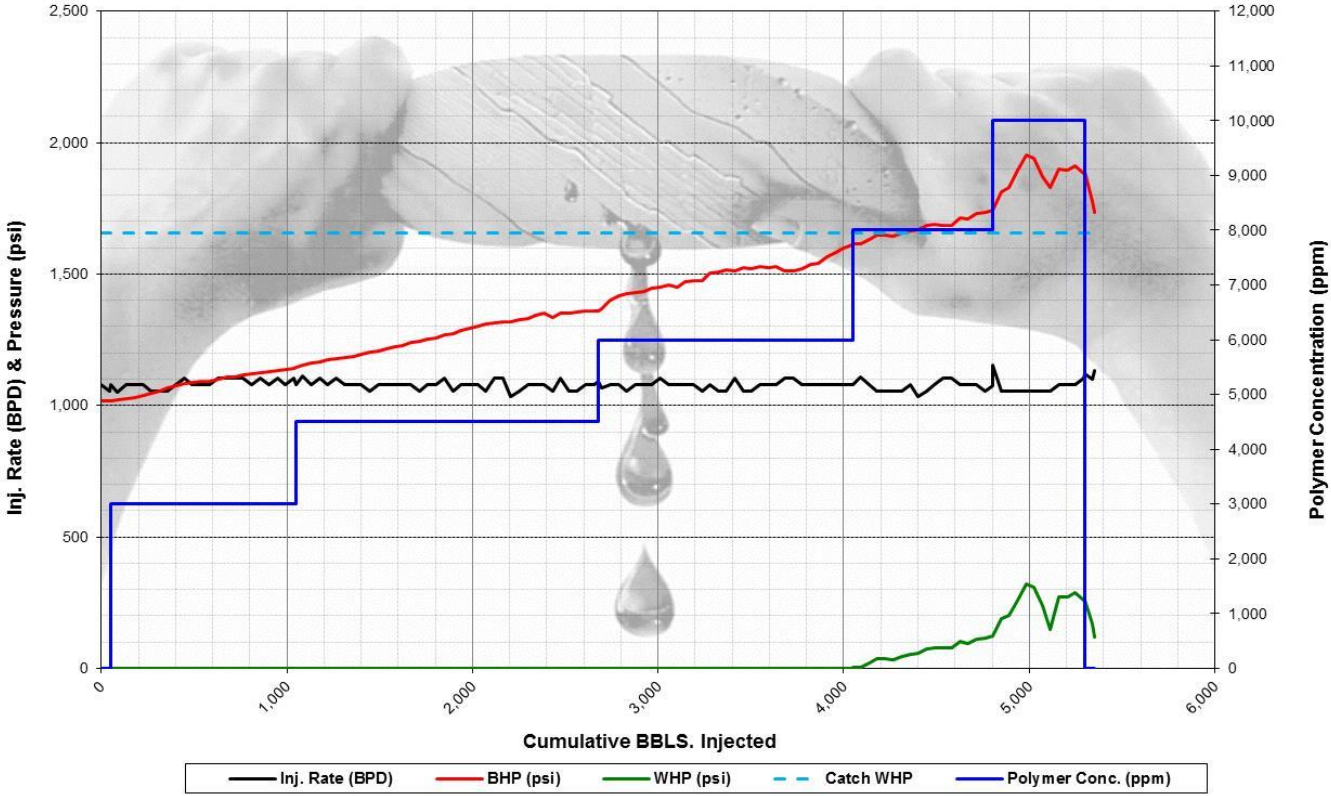
Stage	Date Begin	Time Begin	Date End	Time End	Polymer ppm	BBLs / Stage	WHP (psi)		BHP (psi)		Pump Rate (bpd)		Comments
							Begin	End	Begin	End	Begin	End	
1	5/28/13	1:00 PM	5/28/13	2:08 PM	0	50	0	Vac	1,017	1,017	1,080	1,080	Stage # 1: Water Flush w/ CRO195 & X-Cide 102w
2	5/28/13	2:08 PM	5/29/13	12:16 PM	3,000	1,000	Vac	Vac	1,017	1,145	1,080	1,080	Stage # 2: 3,000 PPM w/ X-Cide 102w
3	5/29/13	12:16 PM	5/31/13	12:29 AM	4,500	1,625	Vac	Vac	1,145	1,358	1,080	1,080	Stage # 3: 4,500 PPM w/ X-Cide 102w
4	5/31/13	12:29 AM	6/1/13	7:08 AM	6,000	1,376	Vac	5	1,358	1,615	1,080	1,080	Stage # 4: 6,000 PPM w/ X-Cide 102w
5	6/1/13	7:08 AM	6/1/13	11:55 PM	8,000	750	5	125	1,615	1,744	1,080	1,080	Stage # 5: 8,000 PPM w/ X-Cide 102w
6	6/1/13	11:55 PM	6/2/13	11:09 AM	10,000	500	125	260	1,744	1,885	1,080	1,080	Stage # 6: 10,000 PPM w/ X-Cide 102w
7	6/2/13	11:09 AM	6/2/13	12:14 PM	0	50	260	120	1,885	1,736	1,080	1,080	Stage # 7: Water Flush w/ CRO195 & X-Cide 102w
Totals						5,351							

MARCITSM GEL QA/QC

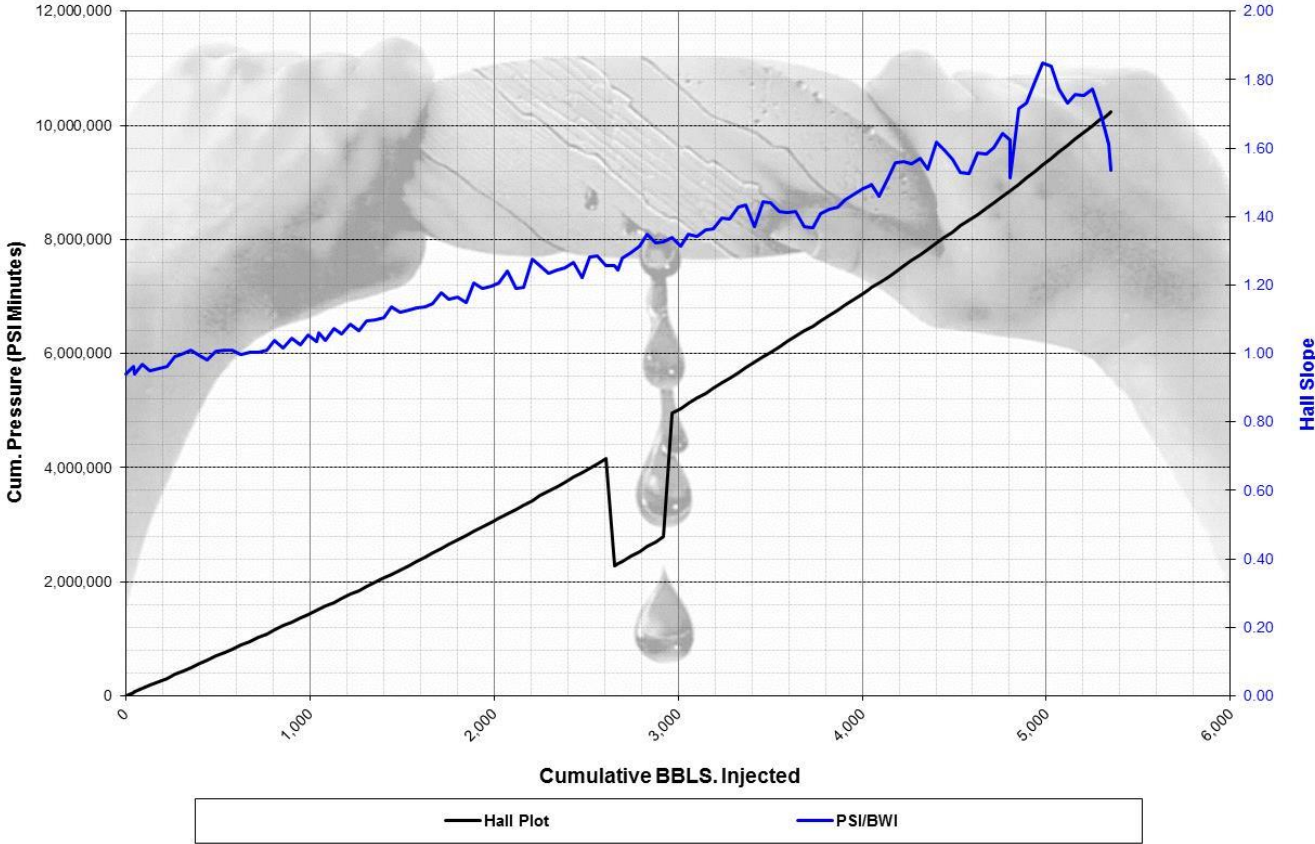
Sample No.	Treatment Stage	Sample Date	Sample Time	Cum. BBLs	Polymer PPM	Polymer X-Linker Ratio	Gel Grade
1	2	May 28, 2013	3:00 PM	88	3,000	40:1	2g
2	2	May 29, 2013	12:00 AM	491	3,000	40:1	3g
3	2	May 29, 2013	12:00 PM	1,038	3,000	40:1	3g
4	3	May 29, 2013	2:00 PM	1,129	4,500	40:1	3g
5	3	May 30, 2013	12:00 AM	1,579	4,500	40:1	4g
6	3	May 30, 2013	12:00 PM	2,118	4,500	40:1	4g
7	3	May 30, 2013	11:00 PM	2,609	4,500	40:1	3g
8	4	May 31, 2013	2:00 AM	2,743	6,000	40:1	6g
9	4	May 31, 2013	12:00 PM	3,192	6,000	40:1	6g
10	4	May 31, 2013	11:00 PM	3,684	6,000	40:1	6g
11	4	June 1, 2013	5:00 AM	3,955	6,000	40:1	6g
12	5	June 1, 2013	9:00 AM	4,136	8,000	40:1	8g
13	5	June 1, 2013	10:00 PM	4,716	8,000	40:1	8g
14	6	June 2, 2013	1:00 AM	4,849	10,000	40:1	9e
15	6	June 2, 2013	10:00 AM	5,248	10,000	40:1	9e



RATE, PRESSURE, & CONCENTRATION



HALL SLOPE



TREATMENT JOB LOG

DATE	TIME	INJECTION RATE		CUM. INJ BBLs	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS: Estimate	COMMENTS
		BPD	BPM							
28-May-13	13:00	1,080	0.75	0	0	1,017	0.94	0	0	Begin Stage #1: Water Flush with Baker CRO195 and X-Cide 102w
28-May-13	14:00	1,056	0.73	44	0	1,017	0.96	0	0	
28-May-13	14:08	1,080	0.75	50	0	1,017	0.94	0	0	End Stage # 1
28-May-13	14:08	1,080	0.75	50	0	1,017	0.94	3,000	0	Begin Stage # 2: 3,000 PPM with X-Cide 102w
28-May-13	15:00	1,052	0.73	88	0	1,020	0.97	3,000	40	Took Sample #1: Graded 2g
28-May-13	16:00	1,080	0.75	133	0	1,027	0.95	3,000	87	
28-May-13	17:00	1,080	0.75	178	0	1,031	0.95	3,000	134	
28-May-13	18:00	1,080	0.75	223	0	1,038	0.96	3,000	181	
28-May-13	19:00	1,056	0.73	267	0	1,046	0.99	3,000	228	
28-May-13	20:00	1,056	0.73	311	0	1,055	1.00	3,000	274	
28-May-13	21:00	1,056	0.73	355	0	1,066	1.01	3,000	320	
28-May-13	22:00	1,080	0.75	400	0	1,075	1.00	3,000	367	
28-May-13	23:00	1,104	0.77	446	0	1,084	0.98	3,000	415	
29-May-13	0:00	1,080	0.75	491	0	1,087	1.01	3,000	463	Took Sample #2: Graded 3g
29-May-13	1:00	1,080	0.75	536	0	1,092	1.01	3,000	510	
29-May-13	2:00	1,080	0.75	581	0	1,091	1.01	3,000	557	
29-May-13	3:00	1,104	0.77	627	0	1,101	1.00	3,000	605	
29-May-13	4:00	1,104	0.77	673	0	1,107	1.00	3,000	653	
29-May-13	5:00	1,104	0.77	719	0	1,109	1.00	3,000	702	
29-May-13	6:00	1,104	0.77	765	0	1,116	1.01	3,000	750	
29-May-13	7:00	1,080	0.75	810	0	1,120	1.04	3,000	797	
29-May-13	8:00	1,104	0.77	856	0	1,123	1.02	3,000	845	
29-May-13	9:00	1,080	0.75	901	0	1,129	1.05	3,000	893	
29-May-13	10:00	1,104	0.77	947	0	1,134	1.03	3,000	941	
29-May-13	11:00	1,080	0.75	992	0	1,139	1.05	3,000	988	
29-May-13	12:00	1,104	0.77	1,038	0	1,141	1.03	3,000	1,036	Took Sample #3: Graded 3g
29-May-13	12:16	1,080	0.75	1,050	0	1,145	1.06	3,000	1,049	End Stage # 2
29-May-13	12:16	1,080	0.75	1,050	0	1,145	1.06	4,500	1,049	Begin Stage # 3: 4,500 PPM with X-Cide 102w
29-May-13	13:00	1,113	0.77	1,084	0	1,154	1.04	4,500	1,102	
29-May-13	14:00	1,080	0.75	1,129	0	1,160	1.07	4,500	1,173	Took Sample #4: Graded 3g
29-May-13	15:00	1,104	0.77	1,175	0	1,167	1.06	4,500	1,246	
29-May-13	16:00	1,080	0.75	1,220	0	1,173	1.09	4,500	1,316	
29-May-13	17:00	1,104	0.77	1,266	0	1,178	1.07	4,500	1,389	
29-May-13	18:00	1,080	0.75	1,311	0	1,182	1.09	4,500	1,460	
29-May-13	19:00	1,080	0.75	1,356	0	1,188	1.10	4,500	1,530	
29-May-13	20:00	1,080	0.75	1,401	0	1,194	1.11	4,500	1,601	
29-May-13	21:00	1,056	0.73	1,445	0	1,201	1.14	4,500	1,670	
29-May-13	22:00	1,080	0.75	1,490	0	1,209	1.12	4,500	1,741	
29-May-13	23:00	1,080	0.75	1,535	0	1,216	1.13	4,500	1,812	
30-May-13	0:00	1,080	0.75	1,579	0	1,224	1.13	4,500	1,881	Took Sample #5: Graded 4g
30-May-13	1:00	1,080	0.75	1,624	0	1,228	1.14	4,500	1,952	
30-May-13	2:00	1,080	0.75	1,669	0	1,239	1.15	4,500	2,023	
30-May-13	3:00	1,056	0.73	1,713	0	1,245	1.18	4,500	2,092	
30-May-13	4:00	1,080	0.75	1,758	0	1,252	1.16	4,500	2,163	
30-May-13	5:00	1,080	0.75	1,803	0	1,258	1.16	4,500	2,234	
30-May-13	6:00	1,104	0.77	1,849	0	1,270	1.15	4,500	2,306	
30-May-13	7:00	1,056	0.73	1,893	0	1,273	1.21	4,500	2,375	
30-May-13	8:00	1,080	0.75	1,938	0	1,284	1.19	4,500	2,446	
30-May-13	9:00	1,080	0.75	1,983	0	1,293	1.20	4,500	2,517	
30-May-13	10:00	1,080	0.75	2,028	0	1,301	1.20	4,500	2,588	
30-May-13	11:00	1,056	0.73	2,072	0	1,311	1.24	4,500	2,657	
30-May-13	12:00	1,104	0.77	2,118	0	1,313	1.19	4,500	2,729	Took Sample #6: Graded 4g
30-May-13	13:00	1,104	0.77	2,164	0	1,319	1.19	4,500	2,802	
30-May-13	14:00	1,032	0.72	2,207	0	1,317	1.28	4,500	2,869	
30-May-13	15:00	1,056	0.73	2,251	0	1,326	1.26	4,500	2,939	
30-May-13	16:00	1,080	0.75	2,296	0	1,332	1.23	4,500	3,009	
30-May-13	17:00	1,080	0.75	2,341	0	1,345	1.25	4,500	3,080	
30-May-13	18:00	1,080	0.75	2,386	0	1,351	1.25	4,500	3,151	
30-May-13	19:00	1,056	0.73	2,430	0	1,336	1.27	4,500	3,220	
30-May-13	20:00	1,104	0.77	2,476	0	1,350	1.22	4,500	3,293	
30-May-13	21:00	1,056	0.73	2,520	0	1,353	1.28	4,500	3,362	
30-May-13	22:00	1,056	0.73	2,564	0	1,356	1.28	4,500	3,431	
30-May-13	23:00	1,080	0.75	2,609	0	1,358	1.26	4,500	3,502	Took Sample #7: Graded 3g



DATE	TIME	INJECTION RATE		CUM. INJ BBLs	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS: Estimate	COMMENTS
		BPD	BPM							
30-May-13	0:00	1,080	0.75	2,653	0	1,358	1.26	4,500	3,571	
30-May-13	0:29	1,092	0.76	2,675	0	1,359	1.24	4,500	3,606	End Stage # 3
30-May-13	0:29	1,092	0.76	2,675	0	1,359	1.24	6,000	3,606	Begin Stage # 4: 6,000 PPM with X-Cide 102w
30-May-13	1:00	1,068	0.74	2,698	0	1,367	1.28	6,000	3,654	
30-May-13	2:00	1,080	0.75	2,743	0	1,400	1.30	6,000	3,748	Took Sample # 8: Graded 6g
30-May-13	3:00	1,080	0.75	2,788	0	1,418	1.31	6,000	3,843	
30-May-13	4:00	1,056	0.73	2,832	0	1,424	1.35	6,000	3,935	
30-May-13	5:00	1,080	0.75	2,877	0	1,429	1.32	6,000	4,030	
30-May-13	6:00	1,080	0.75	2,922	0	1,434	1.33	6,000	4,124	
31-May-13	7:00	1,080	0.75	2,966	0	1,446	1.34	6,000	4,216	
31-May-13	8:00	1,104	0.77	3,012	0	1,451	1.31	6,000	4,313	
31-May-13	9:00	1,080	0.75	3,057	0	1,457	1.35	6,000	4,407	
31-May-13	10:00	1,080	0.75	3,102	0	1,450	1.34	6,000	4,502	
31-May-13	11:00	1,080	0.75	3,147	0	1,469	1.36	6,000	4,596	
31-May-13	12:00	1,080	0.75	3,192	0	1,475	1.37	6,000	4,690	Took Sample #9: Graded 6g
31-May-13	13:00	1,056	0.73	3,236	0	1,473	1.39	6,000	4,783	
31-May-13	14:00	1,080	0.75	3,281	0	1,505	1.39	6,000	4,877	
31-May-13	15:00	1,056	0.73	3,325	0	1,509	1.43	6,000	4,969	
31-May-13	16:00	1,056	0.73	3,369	0	1,515	1.43	6,000	5,062	
31-May-13	17:00	1,104	0.77	3,415	0	1,512	1.37	6,000	5,158	
31-May-13	18:00	1,056	0.73	3,459	0	1,523	1.44	6,000	5,251	
31-May-13	19:00	1,056	0.73	3,503	0	1,521	1.44	6,000	5,343	
31-May-13	20:00	1,080	0.75	3,548	0	1,527	1.41	6,000	5,437	
31-May-13	21:00	1,080	0.75	3,593	0	1,526	1.41	6,000	5,532	
31-May-13	22:00	1,080	0.75	3,638	0	1,527	1.41	6,000	5,626	
31-May-13	23:00	1,104	0.77	3,684	0	1,513	1.37	6,000	5,723	Took Sample #10: Graded 6g
1-Jun-13	0:00	1,104	0.77	3,730	0	1,510	1.37	6,000	5,819	
1-Jun-13	1:00	1,080	0.75	3,775	0	1,521	1.41	6,000	5,913	
1-Jun-13	2:00	1,080	0.75	3,820	0	1,535	1.42	6,000	6,008	
1-Jun-13	3:00	1,080	0.75	3,865	0	1,541	1.43	6,000	6,102	
1-Jun-13	4:00	1,080	0.75	3,910	0	1,565	1.45	6,000	6,197	
1-Jun-13	5:00	1,080	0.75	3,955	0	1,582	1.46	6,000	6,291	Took Sample #11: Graded 6g
1-Jun-13	6:00	1,080	0.75	4,000	0	1,599	1.48	6,000	6,385	
1-Jun-13	7:00	1,080	0.75	4,045	1	1,612	1.49	6,000	6,480	
1-Jun-13	7:08	1,080	0.75	4,051	5	1,615	1.50	6,000	6,492	End Stage #4
1-Jun-13	7:08	1,080	0.75	4,051	5	1,615	1.50	8,000	6,492	Begin Stage #5: 8,000 ppm with X-Cide 102w
1-Jun-13	8:00	1,108	0.77	4,091	5	1,616	1.46	8,000	6,604	
1-Jun-13	9:00	1,080	0.75	4,136	22	1,632	1.51	8,000	6,730	Took Sample #12: Graded 8g
1-Jun-13	10:00	1,056	0.73	4,180	36	1,646	1.56	8,000	6,853	
1-Jun-13	11:00	1,056	0.73	4,224	38	1,648	1.56	8,000	6,976	
1-Jun-13	12:00	1,056	0.73	4,268	34	1,642	1.55	8,000	7,099	
1-Jun-13	13:00	1,056	0.73	4,312	46	1,658	1.57	8,000	7,223	
1-Jun-13	14:00	1,080	0.75	4,357	53	1,663	1.54	8,000	7,348	
1-Jun-13	15:00	1,032	0.72	4,400	56	1,670	1.62	8,000	7,469	
1-Jun-13	16:00	1,056	0.73	4,444	73	1,685	1.60	8,000	7,592	
1-Jun-13	17:00	1,080	0.75	4,489	76	1,691	1.57	8,000	7,718	
1-Jun-13	18:00	1,104	0.77	4,535	78	1,687	1.53	8,000	7,846	
1-Jun-13	19:00	1,104	0.77	4,581	77	1,684	1.53	8,000	7,975	
1-Jun-13	20:00	1,080	0.75	4,626	103	1,714	1.59	8,000	8,101	
1-Jun-13	21:00	1,080	0.75	4,671	93	1,710	1.58	8,000	8,227	
1-Jun-13	22:00	1,080	0.75	4,716	110	1,731	1.60	8,000	8,353	Took Sample #13: Graded 8g
1-Jun-13	23:00	1,056	0.73	4,760	115	1,734	1.64	8,000	8,476	
1-Jun-13	23:55	1,073	0.75	4,801	125	1,744	1.62	8,000	8,590	End Stage #5
1-Jun-13	23:55	1,073	0.75	4,801	125	1,744	1.62	10,000	8,590	Begin Stage #6: 10,000 ppm with X-Cide 102w
2-Jun-13	0:00	1,152	0.80	4,805	122	1,742	1.51	10,000	8,604	
2-Jun-13	1:00	1,056	0.73	4,849	190	1,811	1.71	10,000	8,758	Took sample #14: Graded 9e
2-Jun-13	2:00	1,056	0.73	4,893	200	1,830	1.73	10,000	8,912	
2-Jun-13	3:00	1,056	0.73	4,937	260	1,896	1.80	10,000	9,066	
2-Jun-13	4:00	1,056	0.73	4,981	320	1,953	1.85	10,000	9,220	
2-Jun-13	5:00	1,056	0.73	5,025	310	1,942	1.84	10,000	9,374	
2-Jun-13	6:00	1,056	0.73	5,069	240	1,872	1.77	10,000	9,527	
2-Jun-13	7:00	1,056	0.73	5,113	150	1,829	1.73	10,000	9,681	
2-Jun-12	8:00	1,080	0.75	5,158	270	1,899	1.76	10,000	9,839	
2-Jun-12	9:00	1,080	0.75	5,203	270	1,895	1.75	10,000	9,996	
2-Jun-12	10:00	1,080	0.75	5,248	290	1,913	1.77	10,000	10,153	Took Sample #15: Graded 9e
2-Jun-12	11:00	1,104	0.77	5,294	260	1,884	1.71	10,000	10,314	
2-Jun-12	11:09	1,120	0.78	5,301	260	1,885	1.68	10,000	10,339	End Stage #6
2-Jun-12	11:09	1,120	0.78	5,301	260	1,885	1.68	0	10,339	Begin Stage #7: Water Flush with



DATE	TIME	INJECTION RATE		CUM. INJ BBLs	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS: Estimate	COMMENTS
		BPD	BPM							
										Baker CRO195 and X-Cide 102w
2-Jun-12	12:00	1,101	0.76	5,340	170	1,775	1.61	0	10,339	
2-Jun-12	12:14	1,131	0.79	5,351	120	1,736	1.53	0	10,339	End Stage #7. Treatment Completed



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 6837

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-8-13	15	9	21	Cherokee	KS	5:30 PM	7:45 PM

Location *Lake Bell west of the Van Vinto*

Lease <i>J Morel</i>	Well No. <i>8</i>	Owner
Contractor <i>D. Kern 10</i>	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Type Job <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>1697</i>	Charge To
Csg. <i>8 5/8</i>	Depth <i>1691.26</i>	Street <i>Citation oil gas</i>
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>68.53</i>	Shoe Joint <i>68.53</i>	Cement Amount Ordered <i>690 390 CC</i>
Meas Line	Displace <i>103.24 BBL</i>	<i>7% gel</i>

EQUIPMENT

Pumptrk <i>5</i>	No.	Cementer <i>Matt</i>	Common
		Helper	
Bulktrk <i>12</i>	No.	Driver <i>Brett</i>	Poz. Mix
		Driver	Gel.
Bulktrk <i>1</i>	No.	Driver <i>Clayton</i>	Calcium
		Driver <i>Heath</i>	

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers <i>12309 121518 9124 87</i>	Kol-Seal
Baskets <i>30 31 36</i>	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
<i>Cement did</i>	Sand
<i>Circulate</i>	Handling
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer <i>19</i>
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	<i>Baffle plate</i>
	<i>Rubber plug</i>
	Pumptrk Charge
	Mileage

	Tax
	Discount
	Total Charge

X Signature *E. J. ...*