



KANSAS CORPORATION COMMISSION 1102463
OIL & GAS CONSERVATION DIVISION

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: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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: Western Kansas Exploration, Inc.

Well Name: McClellan 11
Original Comp. Date: 02/05/1990 Original Total Depth: 3835
 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 #: _____

11/08/2012 11/20/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-065-22554-00-01

Spot Description: _____
SW NE SE Sec. 2 Twp. 10 S. R. 21 East West
1650 Feet from North / South Line of Section
990 Feet from East / West Line of Section

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

County: Graham
Lease Name: MCCLELLAN Well #: 11
Field Name: Cooper

Producing Formation: Arbuckle
Elevation: Ground: 2283 Kelly Bushing: 2285
Total Depth: 3835 Plug Back Total Depth: 3820
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 3830
feet depth to: _____ w/ 150 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: 11/27/2012



1102463

Operator Name: Citation Oil & Gas Corp. Lease Name: MCCLELLAN Well #: 11
 Sec. 2 Twp. 10 S. R. 21 East West County: Graham

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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Arbuckle</td> <td>3810</td> <td></td> </tr> </table>	Name	Top	Datum	Arbuckle	3810	
Name	Top	Datum					
Arbuckle	3810						

CASING RECORD <input type="checkbox"/> New <input checked="" 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
Surface	12.2500	8.6250	20	221	c	135	
Production	7.8750	5.5000	14	3830	c	150	
Liner	0	4.500	10.5	3786	c	275	

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
4	CIBP @ 3820', 3810'-3816'	500 gals. 15% HCL w/ 3% solvent. Pmp'd w/ 1500 gals 15% HCL w/ 3% solvent avg of	3810'-3816
		6 BMP @ 2300#'s.flushed w/ 26 brls clean lease water.	

TUBING RECORD: Size: <u>2.3750</u> Set At: <u>3722</u> Packer At: <u>3760</u>		Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>11/20/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>18.0</u> Gas Mcf <u>0</u> Water Bbls. <u>162.0</u> Gas-Oil Ratio <u>0</u> Gravity <u>28</u>	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Arbuckle</u>
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WELLBORE SCHEMATIC

Current

8-5/8"
20#
135 sxs

12-1/4" hole
221'

LNR TOC ???
(Calc to surf)

Sqz Perfs @ 2220'
sqzd w/ 350 sxs

TOC @ ???

BOL @ 3786'

Arbuckle Perfs
3810-16' (4 spt) (10/02)

CIBP @ 3820' (10/02)

Hole
7-7/8"
5-1/2"
14#
150 sxs

3830'
Arbuckle OH
3830-35'

3,835' TD

Lease:	McClellan	Well No.:	#11
API No.:	15-065-22554	Status:	PR
Location:	SWNESE, Sec. 2, T10S-R21W		
County:	Graham	State:	KS
Field:	Cooper	Spud Date:	1/13/1990
TD:	3835'	GL:	2280'
PBTD:	3820'	KB:	2285'
Current Perfs/OH:	3810-16'	Current Zone:	ARB

Surface Equipment

Unit Make:	Lufkin	Unit Size:	228
Unit S/N:		Unit Rotation:	
SPM:	13.8	Stroke Length:	65"
Prime Mover:		Unit Sheave:	
Motor S/N:		Motor RPM:	

Casing Breakdown

	Size	Grade / Wt	Depth	Hole Size	Cement
Surface	8-5/8"	20#	221'	12-1/4"	135 sxs
Production	5-1/2"	14#	3830'	7-7/8"	150 sxs
Production					
Production					
Liner	4-1/2"	10.5#	3786'		275 sxs

Tubing Breakdown

Qty	Description	Footage
117	2-3/8" tbg	3722.00'
1	2-3/8" x 4-1/2" TAC	
1	2-3/8" tbg	
1	2-3/8" x 1-3/4" x 15' x 18' TP	
1	15' x 2-3/8" MA (BOMA @ 3790')	

TOTAL 3722.00'

Rod Breakdown

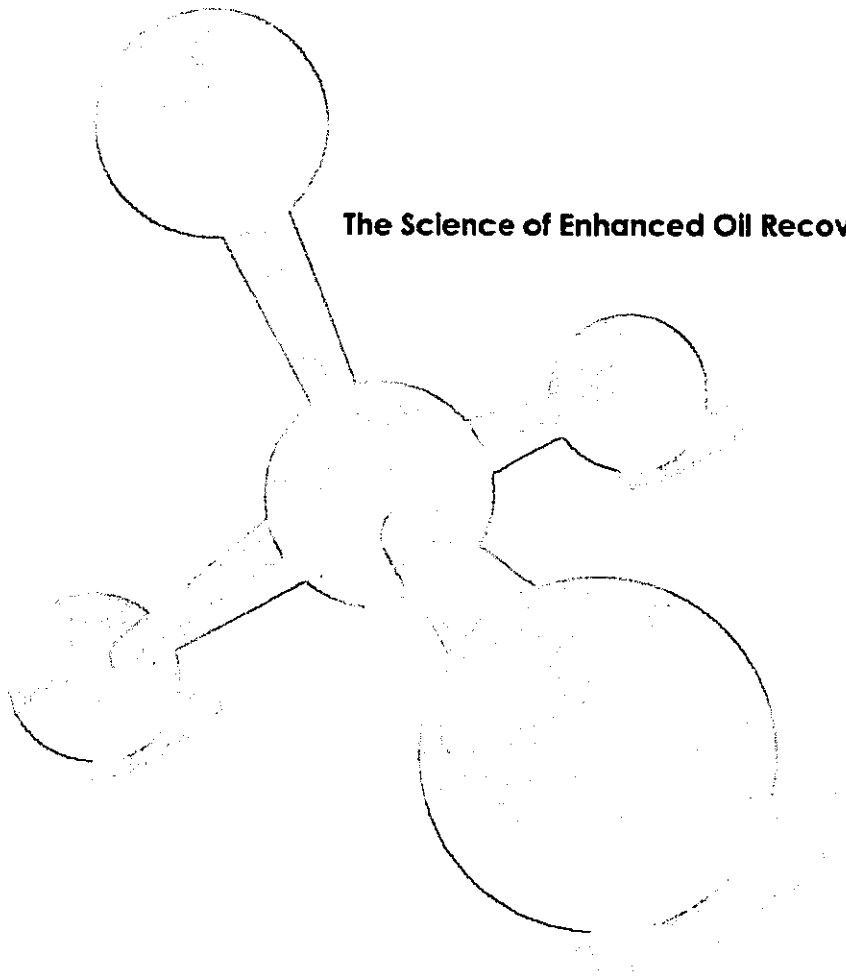
Qty	Description	Footage
1	1-1/4" x 18' Polish rod w/ 1-1/2" x 8' Inr	16.00'
	7/8" pony rods	14.00'
62	7/8" rods	1550.00'
76	3/4" rods	1600.00'
12	7/8" rods	300.00'
1	4' metal plunger	4.00'

TOTAL 3784.00'

Comments

PREPARED BY: JH

UPDATED: 10/30/2012



The Science of Enhanced Oil Recovery

Treatment Summary For

Citation Oil & Gas Corp.

**MARCITsm Gel Conformance
Cooper Field
McClellan #11
Graham County, Kansas**

November 13, 2012

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 November 10, 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 774 BBLS of gel. The treatment started on November 10, 2012 at 10:00 and ended on November 11, 2012 at 05:29. The gel was made-up of 935 lbs. of EOR204 (Medium molecular weight polymer) and 203 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.

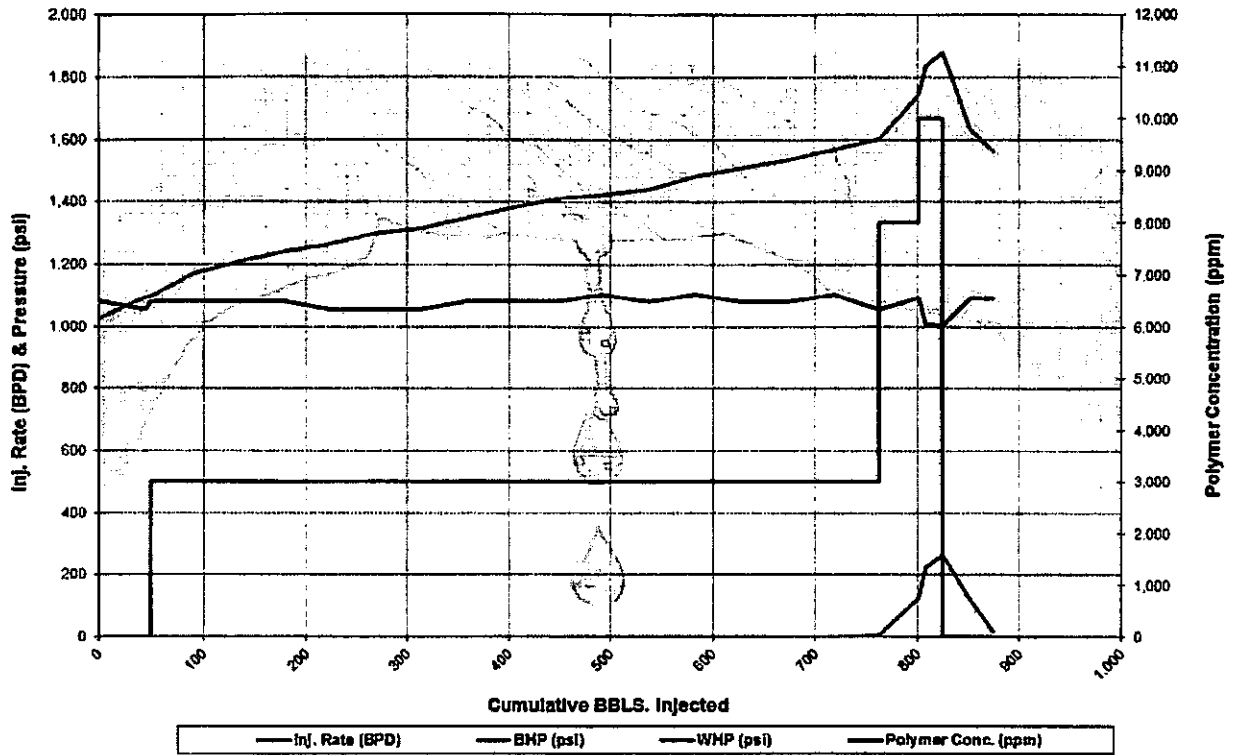
TREATMENT STAGE LOG

Stage	Date		Time		Polymer ppm	BBLs / Stage	WHP (psi)		BHP (psi)		Pump Rate (bpd)		Comments
	Begin	End	Begin	End			Begin	End	Begin	End	Begin	End	
1	11/10/12	11/10/12	10:00 AM	11:08 AM	0	50	0	0	1,025	1,097	1,080	1,080	Stage #1. Flush with CRO195X-Cide 102w
2	11/10/12	11/11/12	11:08 AM	3:00 AM	3,000	713	0	5	1,097	1,601	1,080	1,080	Stage #2 @ 3,000 ppm with X-Cide 102w
3	11/11/12	11/11/12	3:00 AM	3:50 AM	8,000	38	5	125	1,601	1,743	1,080	1,080	Stage #3 @ 8,000 ppm with X-Cide 102w
4	11/11/12	11/11/12	3:50 AM	4:23 AM	10,000	23	125	265	1,743	1,879	1,080	1,080	Stage #4 @ 10,000 ppm with X-Cide 102w
5	11/11/12	11/11/12	4:23 AM	5:29 AM	0	50	265	15	1,879	1,561	1,080	1,080	Stage #5 Flush with CRO195X-Cide 102w
Totals						874							

MARCITSM GEL QA/QC

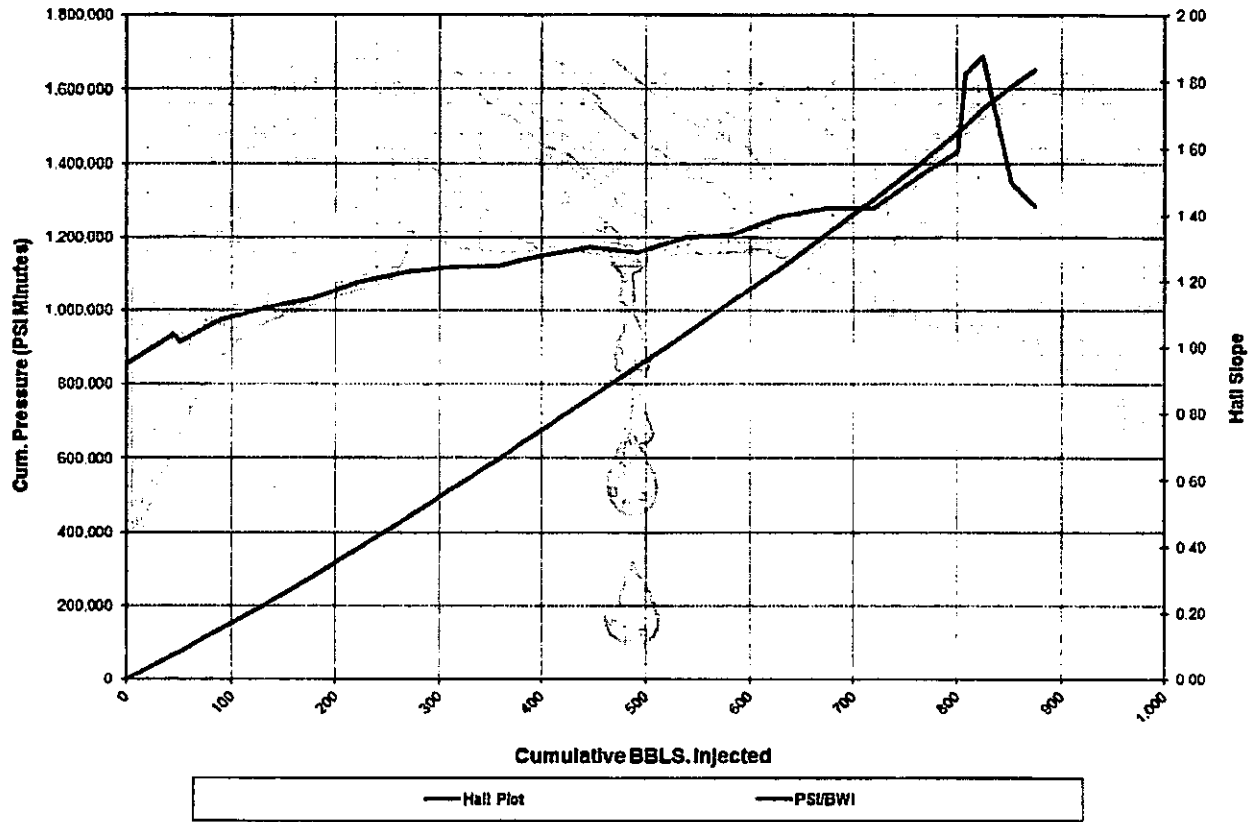
Sample No.	Treatment Stage	Sample Date	Sample Time	Cum. Bbls.	Polymer ppm	Polymer X-Linker Ratio	Comments
1	2	11/10/12	12:17	102	3,000	40:1	Graded 2s
2	2	11/11/12	00:00	628	3,000	40:1	Graded 3g
3	2	11/11/12	02:00	719	3,000	40:1	Graded 3g
4	3	11/11/12	03:40	794	8,000	40:1	Graded 8e
5	4	11/11/12	04:20	822	10,000	40:1	Graded 9e

RATE, PRESSURE, & CONCENTRATION



UNIT 4

HALL SLOPE



3

TREATMENT JOB LOG

DATE	TIME	INJECTION RATE		CUM. INJ BBLs	WHP PSI	BHP PSI	HALL SLOPE	Polymer PPM	POLYMER LBS	COMMENTS
		BPD	BPM							
10-Nov-12	10:00	1,080	0.75	0	0	1,025	0.95	0	0	Begin Stage #1: 50 BBL Flush with CRO 195 & X-Cide 102w
10-Nov-12	11:00	1,056	0.73	44	0	1,095	1.04	0	0	
10-Nov-12	11:08	1,080	0.75	50	0	1,097	1.02	0	0	End Stage #1:
10-Nov-12	11:08	1,080	0.75	50	0	1,097	1.02	3,000	0	Begin Stage #2: 3,000 ppm EOR204 / EOR684 with X-Cide 102w
10-Nov-12	12:00	1,080	0.75	89	0	1,170	1.08	3,000	41	12:17. Took Sample #1 @ 102 BBLs: Graded 2s
10-Nov-12	13:00	1,080	0.75	134	0	1,211	1.12	3,000	88	
10-Nov-12	14:00	1,080	0.75	179	0	1,242	1.15	3,000	135	
10-Nov-12	15:00	1,056	0.73	223	0	1,267	1.20	3,000	181	
10-Nov-12	16:00	1,056	0.73	267	0	1,287	1.23	3,000	228	
10-Nov-12	17:00	1,056	0.73	311	0	1,315	1.25	3,000	274	
10-Nov-12	18:00	1,080	0.75	356	0	1,348	1.25	3,000	321	
10-Nov-12	19:00	1,080	0.75	401	0	1,381	1.28	3,000	368	
10-Nov-12	20:00	1,080	0.75	446	0	1,410	1.31	3,000	415	
10-Nov-12	21:00	1,104	0.77	492	0	1,424	1.29	3,000	464	
10-Nov-12	22:00	1,080	0.75	537	0	1,439	1.33	3,000	511	
10-Nov-12	23:00	1,104	0.77	583	0	1,483	1.34	3,000	559	
11-Nov-12	0:00	1,080	0.75	628	0	1,509	1.40	3,000	606	Took Sample #2 @ 628 BBLs: Graded 3g
11-Nov-12	1:00	1,080	0.75	673	0	1,536	1.42	3,000	653	
11-Nov-12	2:00	1,104	0.77	719	0	1,570	1.42	3,000	702	Took Sample #3 @ 719 BBLs: Graded 3g
11-Nov-12	3:00	1,056	0.73	763	5	1,601	1.52	3,000	748	End Stage #2.
11-Nov-12	3:00	1,056	0.73	763	5	1,601	1.52	8,000	748	Begin Stage #3. 8,000 ppm EOR204/EOR684 with X-Cide 102w
11-Nov-12	3:50	1,094	0.76	801	125	1,743	1.59	8,000	854	Took Sample #4 @ 03:40. 794 BBLs: Graded 6e. End Stage #3.
11-Nov-12	3:50	1,094	0.76	801	125	1,743	1.59	10,000	854	Begin Stage #4. 10,000 ppm EOR204/EOR684 with X-Cide 102w
11-Nov-12	4:00	1,008	0.70	808	225	1,837	1.62	10,000	879	04:20 Took Sample #5 @ 822 BBLs: Graded 6e
11-Nov-12	4:23	1,002	0.70	824	265	1,879	1.66	10,000	935	End Stage #4.
11-Nov-12	4:23	1,002	0.70	824	265	1,879	1.66	0	935	Begin Stage #5. Water flush with CRO-195 & X-Cide 102w
11-Nov-12	5:00	1,080	0.76	852	120	1,630	1.50	0	935	
11-Nov-12	5:29	1,092	0.76	874	15	1,561	1.43	0	935	End Stage #5. Treatment Completed.