

**HALLIBURTON**

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**WILLIAMS PRODUCTION RMT INC - EBUS**

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KP 511-27  
MAMM CREEK  
Garfield County , Colorado

**Cement Surface Casing**

24-Nov-2011

**Job Site Documents**

The Road to Excellence Starts with Safety

Sold To #: 300721		Ship To #: 2890009		Quote #:		Sales Order #: 9054540							
Customer: WILLIAMS PRODUCTION RMT INC - EBUS				Customer Rep: Duniho, Al									
Well Name: KP		Well #: 511-27		API/UWI #: 05-045-20701									
Field: MAMM CREEK		City (SAP): SILT		County/Parish: Garfield		State: Colorado							
Lat: N 39.506 deg. OR N 39 deg. 30 min. 20.149 secs.				Long: W 107.552 deg. OR W -108 deg. 26 min. 54.431 secs.									
Contractor: CYCLONE 30		Rig/Platform Name/Num: CYCLONE 30											
Job Purpose: Cement Surface Casing													
Well Type: Development Well				Job Type: Cement Surface Casing									
Sales Person: MAYO, MARK		Srcv Supervisor: STILLSON, ERIC		MBU ID Emp #: 393789									
<b>Job Personnel</b>													
HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #					
HARDRICK, RAYMOND Frank	8	391324	ROMKEE, DALE Alan	8	488215	STILLSON, ERIC W	8	393789					
WEAVER, CARLTON Russell	8	457698											
<b>Equipment</b>													
HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way						
10248057	60 mile	10564022	60 mile	10592964	60 mile	10616651C	60 mile						
10744549	60 mile	10951245	60 mile	11808827	60 mile								
<b>Job Hours</b>													
Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours					
11-24-11	8	2											
<b>TOTAL</b>		Total is the sum of each column separately											
<b>Job</b>				<b>Job Times</b>									
Formation Name				Date	Time	Time Zone							
Formation Depth (MD)	Top	Bottom		Called Out	24 - Nov - 2011	10:00	MST						
Form Type	BHST			On Location	24 - Nov - 2011	15:00	MST						
Job depth MD	1411. ft	Job Depth TVD	1411. ft	Job Started	24 - Nov - 2011	20:13	MST						
Water Depth		Wk Ht Above Floor	4. ft	Job Completed	24 - Nov - 2011	21:17	MST						
Perforation Depth (MD)	From	To		Departed Loc	24 - Nov - 2011	23:00	MST						
<b>Well Data</b>													
Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft		
Open Hole Section				13.5				.	1411.				
Surface Casing	Unknown		9.625	9.001	32.3			.	1395.				
<b>Sales/Rental/3<sup>rd</sup> Party (HES)</b>													
Description				Qty	Qty uom	Depth	Supplier						
PLUG,CMTG, TOP, 9 5/8, HWE, 8.16 MIN/9.06 MA				1	EA								
<b>Tools and Accessories</b>													
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	
Stage Tool										Centralizers			
<b>Miscellaneous Materials</b>													
Gelling Agt		Conc		Surfactant		Conc		Acid Type		Qty		Conc	%
Treatment Fld		Conc		Inhibitor		Conc		Sand Type		Size		Qty	

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer		20.00	bbl	8.34	.0	.0	4	
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	220.0	sacks	12.3	2.38	13.75	8	13.75
		13.75 Gal FRESH WATER							
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.8	2.11	11.75	7	11.75
		11.75 Gal FRESH WATER							
4	Displacement Fluid		106.00	bbl	8.34	.0	.0	10.0	
Calculated Values		Pressures			Volumes				
Displacement	106.7	Shut In: Instant		Lost Returns	0	Cement Slurry	153	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	106	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating	RIG	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	39.5 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					

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Field: MAMM CREEK	City (SAP): SILT	County/Parish: Garfield	State: Colorado
<b>Legal Description:</b>			
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Job Purpose: Cement Surface Casing			Ticket Amount:
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: MAYO, MARK		Srvc Supervisor: STILLSON, ERIC	MBU ID Emp #: 393789

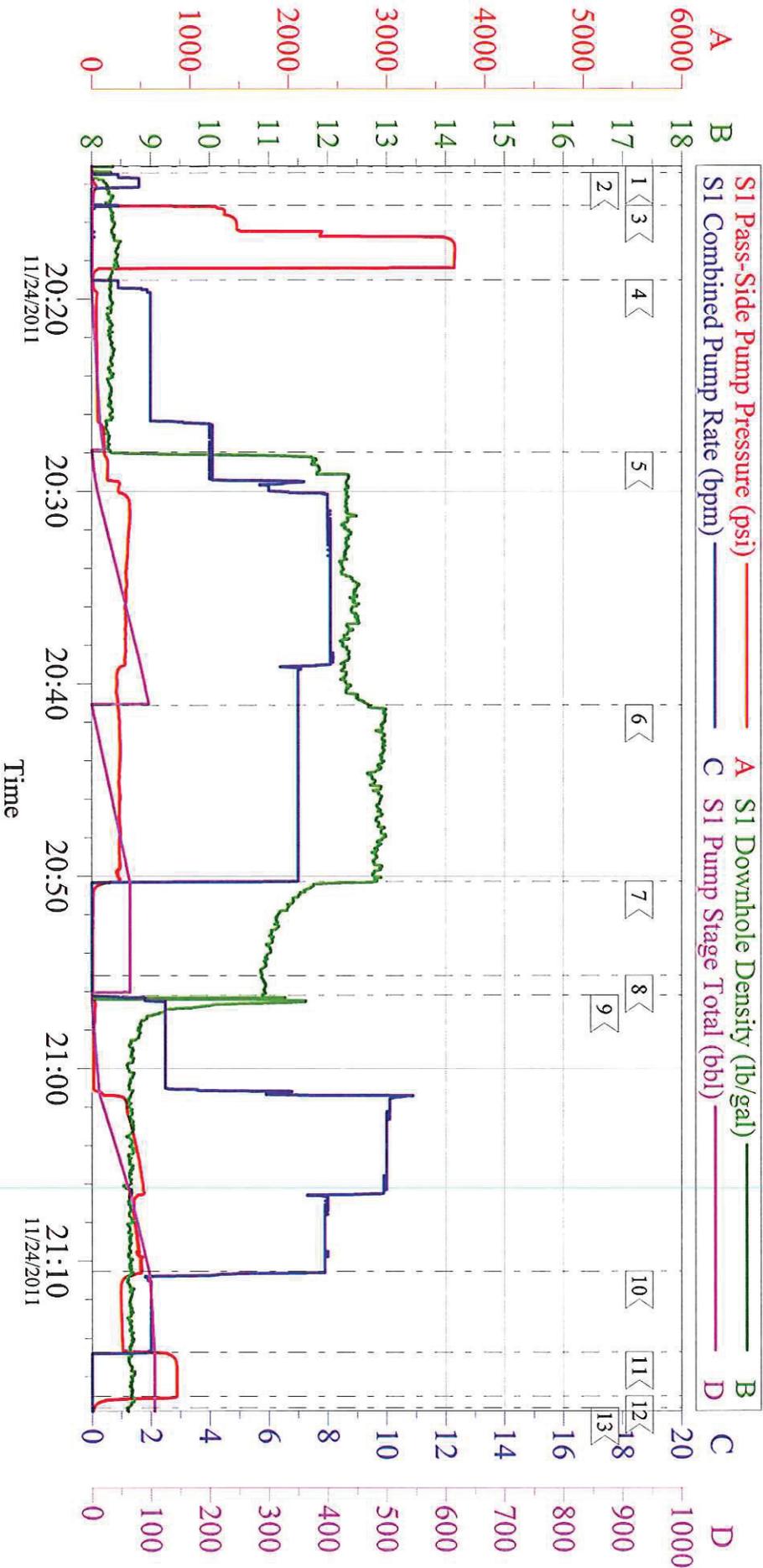
Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	11/24/2011 10:00							9 5/8 SURFACE, WILLIAMS, CYCLONE 30, KP 511-27
Pre-Convoy Safety Meeting	11/24/2011 12:30							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Arrive At Loc	11/24/2011 15:00							ARRIVED EARLY. RIG JUST STARTING CASING.
Assessment Of Location Safety Meeting	11/24/2011 17:30							REVIEWED EMERGENCY PLAN, ASSESSED WORK AREA AND SPOTTED EQUIPMENT.
Pre-Rig Up Safety Meeting	11/24/2011 17:55							ENTIRE CREW, WALKED THROUGH RIG UP LOOKING FOR HAZARDS.
Rig-Up Equipment	11/24/2011 18:00							1 PICK UP, 1 HT400 PUMP TRUCK, 1 660 BULK CEMENT TRUCK, 1 BODY LOAD CEMENT TRUCK, 1 BOOSTER PUMP WITH HOSES FOR WATER, 1 QUICK LATCH HEAD WITH PLUG,
Pre-Job Safety Meeting	11/24/2011 19:50							ENTIRE CREW, CO REP AND RIG CREW.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Start Job	11/24/2011 20:13							TD 1411 TP 1395 SJ 39.45 FC 1355.55 MW 10.0 PPG, 9 5/8 32.3# CASING IN 13 1/2 HOLE. RIG CIRC APPROX 1 HR, YP 35 ,PV 39,TEMP 93 , NO GAS AT SHUTDOWN.
Pump Water	11/24/2011 20:13		1	1			49.0	FILL LINES BEFORE TESTING
Pressure Test	11/24/2011 20:15		0.5	0.1			3694. 0	HELD PRESSURE FOR 2 MIN, PRESSURE HELD, NO LEAKS.
Pump Spacer 1	11/24/2011 20:19		4	20			130.0	FRESH WATER, PUMPED AT 2 BPM UNTIL CEMENT TUB UP TO WEIGHT AND WEIGHED WITH SCALES, SPED RATE TO 4 BPM AT 14 BBLS GONE.
Pump Lead Cement	11/24/2011 20:27		8	93.3			360.0	220 SKS VERSACEM, 12.3 PPG, 2.38 CUFT/SK, 13.75 GAL/SK. SLOWED RATE TO 7 BPM AROUND 80 BBLS GONE TO MAINTAIN DENSITY
Pump Tail Cement	11/24/2011 20:41		7	60.1			288.0	160 SKS VERSACEM, 12.8 PPG, 2.11 CUFT/SK, 11.75 GAL/SK.
Shutdown	11/24/2011 20:50							WASH UP ON PLUG PER CO REP
Drop Top Plug	11/24/2011 20:55							VARIFIED PLUG LEFT CONTAINER.
Pump Displacement	11/24/2011 20:56		10	106.7			520.0	FRESH WATER, SLOWED RATE TO 8 BPM AT 65 BBLS GONE DUR TO CELLAR PUMP, CEMENT TO SURFACE AT 76 BBLS GONE, 30 BBLS OF CEMENT TO SURFACE. USED 100 LBS SUGAR.

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Slow Rate	11/24/2011 21:10		2	97			310.0	SLOWED RATE TO 2 BPM TO BUMP PLUG.
Bump Plug	11/24/2011 21:14		2	106			862.0	PLUG LANDED AT 310 PSI, BUMPED UP TO 862 PSI AND HELD FOR 3 MIN PER CO REP.
Check Floats	11/24/2011 21:17							FLOATS HELD, WHEN RELEASED PRESSURE GOT 3/4 BBL OF WATER BACK TO TRUCK.
End Job	11/24/2011 21:18							GOOD RETURNS THROUGHOUT, DID NOT RECIPROCATATE PIPE.
Post-Job Safety Meeting (Pre Rig-Down)	11/24/2011 21:20							ENTIRE CREW
Rig-Down Equipment	11/24/2011 21:30							
Pre-Convoy Safety Meeting	11/24/2011 22:50							ENTIRE CREW, OBSERVE ALL SAFE DRIVING PROCEDURES
Crew Leave Location	11/24/2011 23:00							THANK YOU FOR USING HALLIBURTON, ERIC STILLSON AND CREW.

# WILLIAMS - KP 511-27

## 9 5/8 SURFACE



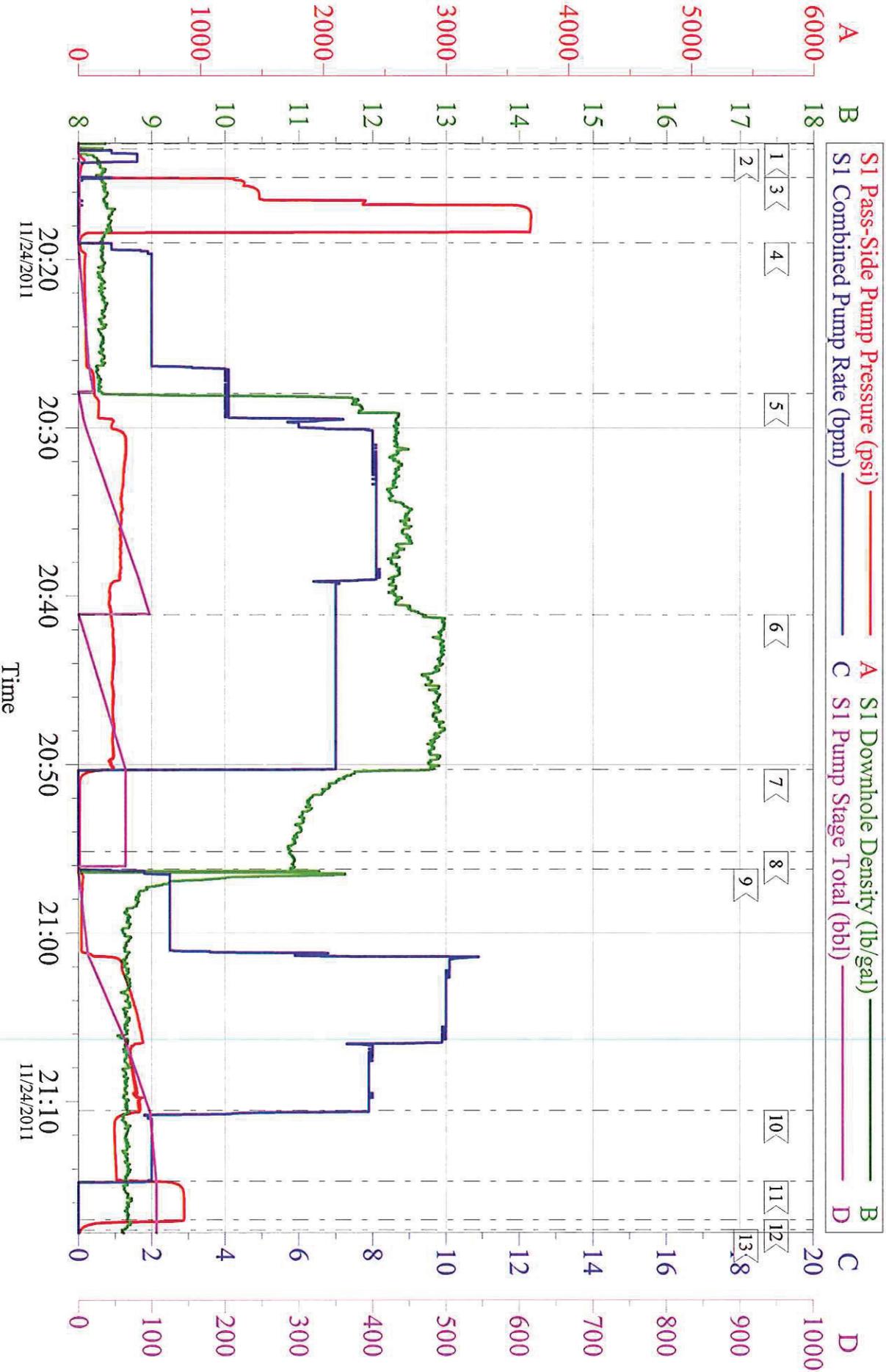
Local Event Log

1 <	START JOB	20:13:07	2 <	FILL LINES	20:13:24	3 <	TEST LINES	20:15:06
4 <	PUMP WATER SPACER	20:19:01	5 <	PUMP LEAD CEMENT	20:27:58	6 <	PUMP TAIL CEMENT	20:41:07
7 <	SHUTDOWN	20:50:17	8 <	DROP PLUG	20:55:10	9 <	PUMP DISPLACEMENT	20:56:12
10 <	SLOW RATE	21:10:32	11 <	BUMP PLUG	21:14:44	12 <	CHECK FLOATS	21:17:02
13 <	END JOB	21:17:38						

Customer: WILLIAMS Well Description: KP 511-27 Company Rep: AL DUNIHOO	Job Date: 24-Nov-2011 Job Type: SURFACE Cement Supervisor: ERIC STILLSON
Sales Order #: 9054540 ADC Used: YES Elite #: RUSTY WEAVER	

# WILLIAMS - KP 511-27

## 9 5/8 SURFACE



<p><b>Customer:</b> WILLIAMS</p> <p><b>Well Description:</b> KP 511-27</p> <p><b>Company Rep:</b> AL DUNIHOO</p>	<p><b>Job Date:</b> 24-Nov-2011</p> <p><b>Job Type:</b> SURFACE</p> <p><b>Cement Supervisor:</b> ERIC STILLSON</p>
<p><b>Sales Order #:</b> 9054540</p> <p><b>ADC Used:</b> YES</p> <p><b>Elite #4:</b> RUSTY WEAVER</p>	