

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10743
LOCATION WKR 53+58
FOREMAN Mike Rosalez
C.R. Marks

TREATMENT REPORT

DATE <u>12-30-11</u>	WELL NAME <u>Patriot B16 - 69 HW</u>	SECTION <u>9</u>	TWP <u>5N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H+P 322</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>8:00 AM</u>		TIME LEFT LOCATION				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>770</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 720.05</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>765</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lbs</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Sattymech, PSI Test 600 PSI, Circ 50 BBLs H₂O / KCL mix 2nd 10 Dye
mix + Pump 415 sks Cement (30% excess) yield 1.27 qt 15-2 lbs or until Company men stop us.
Release Plug Displace 55.6 BBLs H₂O, Bump Plug 200 PSI over 1 ft, wait 5 min Release PSI, Washup
Rig Down H₂O Test Good

Arrived with 750 sks Cement 8 qts KCL 16 oz Dye Slurry 93.8%
JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymech 11:15 AM Circ 11:55 AM Cement 12:05 AM
Drop Plug 12:52 Displace 12:52 PM

<u>10 BBLs at 5-5 BBLs/m 12:55</u>	<u>390 PSI</u>	<u>Used 58% excess</u>
<u>20 BBLs at 5-5 BBLs/m 12:57</u>	<u>430 PSI</u>	<u>used 507 sks Cement</u>
<u>30 BBLs at 5-5 BBLs/m 12:59</u>	<u>480 PSI</u>	<u>Slurry 114.67</u>
<u>40 BBLs at 5-5 BBLs/m 1:02</u>	<u>260 PSI</u>	
<u>50 BBLs at 3-0 BBLs/m 1:05</u>	<u>360 PSI</u>	
<u>55.6 BBLs at 1-5 BBLs/m 1:08</u>	<u>320 PSI</u>	<u>Flow Collar held</u>
<u>Bump Plug 1-5 BBLs/m 1:08</u>	<u>570 PSI</u>	<u>BBLs Back to P.T</u>

Left with 243 sks Cement 3 qts KCL & Dye

[Signature]
AUTHORIZATION TO PROCEED

Co-Man
TITLE

12-30-11
DATE