

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11236

LOCATION 47-48

FOREMAN Kirk Kalhoff
Pablo, Tacho, Mario

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-25-12	Lower Latham PC 601-32D	2	4N	6SW	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 3:00am	TIME LEFT LOCATION 5:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 750	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBID 696	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

TYPE OF TREATMENT			TREATMENT RATE	
CASING DEPTH 741	TREATMENT VIA		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING WEIGHT 2415	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
CASING CONDITION good			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi	<input type="checkbox"/> MISC PUMP	
MINIMUM psi		<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, PSI test, Per roman Cig 40 BBLs KEL H2O 2nd 10w/Dye, mix Pump 3/8 sts cement at 30% excess at 1.27 yield at 15.2 lbs or until roman steps up, Release Plug Disp 44.3 BBLs H2O Pump Plug At 150 Psi over lift Psi, wait 5 min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 750 SKs cement 4 gal Kel 16oz Dye BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS. safety meeting 3:30am Cig 3:55am cement 4:02am step cement 4:27am
Drop Plug 4:30am Displace 4:30am

10 BBLs At 6 BBLs/m 4:32am 300psi used 30% excess
20 BBLs At 6 BBLs/m 4:33am 400psi used 3/8 sts cement
30 BBLs At 6 BBLs/m 4:35am 500psi 71.9 BBLs slurry
40 BBLs At 3.5 BBLs/m 4:36am 350psi
44.3 BBLs At 1.3 BBLs/m 4:39am 300psi
Bump Plug 4:39am 510psi

Lower 432 SKs cement 3 gal Kel 6oz Dye BBLs Back 13

AUTHORIZATION TO PROCEED TITLE DATE 8-25-12

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity