

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11239

LOCATION 34-53

FOREMAN Kirk Kallio FP
Mark Scott

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-8-12	Guthrie USA D21-20D	21	3N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Saxon 143</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:00am</u>	TIME LEFT LOCATION <u>5:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
12 1/4			SURFACE PIPE ANNULUS LONG		
TOTAL DEPTH 796	TUBING DEPTH	SHOTS/FT	STRING		
RTD 744.52	TUBING WEIGHT	OPEN HOLE	TUBING		
CASING SIZE 8 5/8	TUBING CONDITION		TYPE OF TREATMENT		TREATMENT RATE
CASING DEPTH 789.98		TREATMENT VIA	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING WEIGHT 2415	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
CASING CONDITION <u>good</u>			<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

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi		
FINAL DISPLACEMENT psi	ISIP psi		
ANNULUS psi	5 MIN SIP psi		
MAXIMUM psi	15 MIN SIP psi		
MINIMUM psi			

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psitest, Peraman circ 50 BBLs Rel H2O 2nd 10 1/2 Dye mix
Pump 337 SKS cement at 30% Excess at 1.27 yield at 15.2 lbs cement per step up, Release Plug
Disp 47.4 BBLs H2O, Bump Plug At 150 psi or Lift Psi, wait 5min Release Psi, wait 5 min
Rig Down
Arrived w/ 600 SKS cement 4 gal Rel 16oz Dye
H2O test OK
76.2 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Settle, meeting 2:37pm circ 3:01pm cement 3:15pm displacement 3:40pm
Drop Plug 3:43pm Displace 3:43pm

10 BBLs At 3.5 BBLs/min 3:48pm 100psi
20 BBLs At 3.5 BBLs/min 3:53pm 300psi
30 BBLs At 3.5 BBLs/min 3:58pm 350psi
40 BBLs At 3.5 BBLs/min 4:03pm 400psi
47.4 BBLs At 3.5 BBLs/min 4:08pm 350psi
Bump Plug 4:08pm 760psi
used 32% Excess
used 343 SKS cement
77.5 BBLs slurry

LFdw/ 257 SKS cement 2 gal 3 gals Rel
BRTs Back 3

Kim Shoup WSS 7-8-12
AUTHORIZATION TO PROCEED TITLE DATE

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.