

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11235

LOCATION 57-40

FOREMAN Rick Hallhoff
Pete, Gaster, Mario

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-22-12	Booth State C36-694N	36	4N	64W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 121
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 2:00pm	TIME LEFT LOCATION 8:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 660	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 610	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		

CASING SIZE	17.5	LOGGING COMPANY		TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH	650		TREATMENT VIA				
CASING WEIGHT	36.15	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION	good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
PRESSURE SUMMARY				<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
				<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> MISC PUMP			
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> OTHER		HYD HP = RATE X PRESSURE X 40.8	
MINIMUM	psi						

INSTRUCTIONS PRIOR TO JOB: Pump, 50 Bbls H₂O, 2nd 100 yd Dye, mix & Pump 357 sks cement at 30% Excess at 1.27 yield at 152 lbs or until stopped by cement. Release Plug Disp 47.1 Bbls H₂O, Pump Plug At 150psi or 1.1 ft PSI, wait 5 min Release PSI, washup Rig down. H₂O at OK

Arrived w/ 650 sks cement 4 gal Kel 162 Dye 8007 Bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: 6:11am c/c 6:40am cement 6:49am stop cement 7:11am Pump Plug 7:13am Displace 7:13am

10 Bbls AT 6 Bbls/min 7:15am 350psi
20 Bbls AT 6 Bbls/min 7:17am 400psi
30 Bbls AT 6 Bbls/min 7:18am 450psi
40 Bbls AT 3.5 Bbls/min 7:21am 400psi
47.1 Bbls AT 1 Bbl/min 7:24am 300psi
Bump Plug 7:24am 550psi

Used 45% Excess
Used 400 sks cement
90.4 Bbls slurry

Left w/ 250 sks cement 2 gal 30% Kel 162 Dye Pils Pick 17

WSS 8-22-12

AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledge and specifically agree 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.