

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10592

LOCATION 44-57

FOREMAN Kirk Kallhoff
Jessy mikes

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-22-11	Burrough C 14-13D	14	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Saxon 1413</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>9:00am</u>	TIME LEFT LOCATION <u>1:30pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>670</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD <u>622.86</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 7/8</u>	TUBING CONDITION			TUBING	

CASING DEPTH <u>662.99</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>246</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>good</u>		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM

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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Psi test, Per cement circ 410 bbls KCL H2O, 2nd 10, 4/1 Dye
mK and Pump 284 sks cement at 30% Excess at 127 yd at 15.2 lbs or until cement stops
move then 50% Excess, Release Plug, Disp 39.6 Bbls H2O, Pump Plug at 150 psi over
Lift Psi, wait 5 min Release Psi, wait up Rig Down H2O test OK
Arrived w/ 750 sks cement 45 gal KCL 1600 Dye 64.2 Bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 11:27am circ 11:50am cement 11:58am
Disp Plug 12:32am Displace 12:32am

10 Bbls at 5.5 Bbls/min 12:35pm 180 psi used 35% Excess
20 Bbls at 5.0 Bbls/min 12:37pm 250 psi used 293 sks cement
30 Bbls at 5.0 Bbls/min 12:39pm 320 psi 66.2 Bbls slurry
39.6 Bbls at 12:45pm 200 psi
Pump Plug NO Float held

Lift w/ 457 sks cement 35 gal KCL 600 Dye Bbls Back 7

[Signature] AUTHORIZATION TO PROCEED TITLE 11-22-11 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