

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9856

LOCATION 68-69

FOREMAN Kirk Kallhoff
Mike R. Richardson

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-8-11	Degant Hart state A&E 16-63 HW	16	6N	62W	Weld	
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>H&P 315</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>2:00am</u>			TIME LEFT LOCATION <u>8:00am</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>680</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>629.45</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>674.2</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb</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, safety meeting, Psi test, circ 10 bbls w/ 75 lbs sapp, 10 bbls w/ 1/2 gal soap, 30 bbls RLL H2O
2nd 10 gal Dye, mix Pump 36 bbls cement at 30% excess at 127 yield or until cement stops us, no more than 50% excess per
comm, Release Plug, Disp 48.6 Bbls H2O, Bump Plug at 200psi over Lift Psi, wait 5 min Release psi, wash up,
Rig Down H2O test OK

Arrived w/ 575 sks cement 100 lbs sapp 4 gal soap 4 gal Red 16oz Dye 82.7 Bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 5:38am circ 6:11am remant 6:25am
Drop Plug 6:54am Disp 6:54am
10 Bbls at 5.5 Bbls/min 6:57am 330psi used 30% excess
20 Bbls at 5.5 Bbls/min 6:59am 410psi used 36 bbls cement
30 Bbls at 5.5 Bbls/min 7:01am 480psi 82.7 Bbls slurry
40 Bbls at 3.5 Bbls/min 7:07am 400psi
48.6 Bbls at 1.0 Bbls/min 7:11am 400psi
Bump Plug 7:11am 590psi

6 gal 209 sks cement 25 lbs sapp 3 1/2 gal soap 3 gal Red 6oz Dye Bbls Back 17

Mark

AUTHORIZATION TO PROCEED

TITLE

6-8-11

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