

BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202
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REF. INVOICE # 9530

LOCATION 174-35

FOREMAN Kirk Kallhoff
Mike R. Tucker, Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-17-10	Noff Singer 35-15	35	7N	66W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:15am	TIME LEFT LOCATION 2:45pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 722	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBD 66.54	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 711.84		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			<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

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, Ps. test, safety meeting, circ 40 BBLs H2O and 104 Dye, mix & Pump 306 SKS cement at 30% excess at 1:20 pm at 1512 lbs until cement stops, 45, Release Plug Displace 42.4 BBLs H2O, Bump Plug at 150 psi over L.Ft. Ps. wait 5 min Release Ps. wash up Rig Down H2O test OK

Arrived w/ 575 SKS cement 4 gallons Red 16oz Dye 68.9 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 1:20 pm circ 1:39 pm cement 1:48 pm
Deep Plug 2:08 pm Displace 2:08 pm

10 BBLs at 5.5 BBLs/m 2:10 pm 360 psi used 30% excess
20 BBLs at 5.5 BBLs/m 2:12 pm 440 psi used 306 SKS cement
30 BBLs at 5.5 BBLs/m 2:15 pm 520 psi 68.9 BBLs slurry
40 BBLs at 1.0 BBLs/m 2:19 pm 300 psi
42.4 BBLs at 1.0 BBLs/m 2:20 pm 260 psi
Bump Plug 2:20 pm 430 psi

L.Ft w/ 269 SKS cement 3 gallons Red 6oz Dye BBLs Back 14

AUTHORIZATION TO PROCEED

TITLE

DATE

12-17-10

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