

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8938

LOCATION W-80-55

FOREMAN Kirk Kallhauf
Mike R. James mikes

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-7-10	McKay AB-02-13	2	7N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cede 21</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:00 am</u>	TIME LEFT LOCATION <u>1:00 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>794.1</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBD 749.58</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>793.02</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>3616</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 Rigup, Safety meeting, circ 50 BBLs H2O 2nd 10 1/2 Dye mix Pump
256 sks cement at 30% excess at 1.27 yd/ft at 15.2 lbs or until 10 man stops us
Release Plug Displace 57.9 BBLs H2O Bump Plug at 150 psi over Lift Psi wait 5 min
Release psi wash up Rig Down H2O 75% oil
Arrived w/ 650 sks cement 5 gallons KCL 16oz Dye 57.5 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 11:20 am circ 11:42 am cement 11:54 am
Drop Plug 12:14 pm Displace 12:14 pm

10 BBLs at 5.5 BBLs/m 12:17 pm 360 psi
20 BBLs at 5.5 BBLs/m 12:19 pm 470 psi
30 BBLs at 5.5 BBLs/m 12:21 pm 580 psi
40 BBLs at 5.5 BBLs/m 12:24 pm 620 psi
50 BBLs at 3.5 BBLs/m 12:27 pm 420 psi
57.9 BBLs at 1.0 BBLs/m 12:30 pm 430 psi
Bump Plug at 12:30 pm 610 psi

used 50% excess
used 294 sks cement
66.4 BBLs slurry

BBLs Back 24

12 AUTHORIZATION TO PROCEED TITLE 3-7-10 DATE