

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 9303

LOCATION C-57-40

FOREMAN Kirk Kallio FS
mike R Tucker

TREATMENT REPORT

DATE 9-24-10	WELL NAME Haykins (34-31)	SECTION 34	TWP 4N	RGE 64W	COUNTY Weld	FORMATION
SHALE TO Noble	OWNER					
MOBIL ADDRESS	OPERATOR Noble					
CITY	CONTRACTOR Ensign 126					
STATE OR LTR	DISTANCE TO LOCATION					
TIME ARRIVED ON LOCATION 8:00pm	TIME LEFT LOCATION 10:30pm					

WELL DATA			PRESSURE LIMITATIONS		
PIPE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 660.2	TUBING DEPTH	SHOTS/FT			
PBID 609.50	TUBING WEIGHT	OPEN HOLE	SURFACE PIPE ANNULUS LONG		
CASING SIZE 8 7/8	TUBING CONDITION	TREATMENT VIA	STRING		
CASING DEPTH 654.65			TUBING		
CASING WEIGHT 24 lb	PACKER DEPTH		TYPE OF TREATMENT		TREATMENT RATE
CASING CONDITION Good			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HEAD = RATE X PRESSURE X 4.014

PRESSURE SUMMARY			
BREAKDOWN CIRCULATING	PSI	AVERAGE	PSI
FINAL DISPLACEMENT	PPH	ISIP	PSI
ANNULUS	PSI	5 MIN SIP	PSI
MAXIMUM	PSI	15 MIN SIP	PSI
MINIMUM	PSI		

ENTER TREATMENT PRIOR TO JOB
Rig up, safety meeting, PB test, circ 40 BBLs H2O 2nd day Dye, misc Pump 2795Ks cement
at 3090 E cross at 1.27 yield at 15.2 lbs/cr until cement stops us, Release Plug, Displace 38.8 BBLs
H2O, Bump Plug at 150psi circ 600 psi, wait 5 min Release psi, wash up Rig Down

Arrived w/ 575Ks cement 4 gallons KCL 16oz Dye

M20 test OK
63 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS
Safety meeting 8:42pm
Drop Plug 9:35pm
Displace 9:35pm
Riser 8:57pm cement 9:06pm

10 BBLs AT 5.5 BBLs/min 9:37pm 380psi
20 BBLs AT 5.5 BBLs/min 9:39pm 450psi
30 BBLs AT 3.5 BBLs/min 9:41pm 390psi
38.8 BBLs AT 1.0 BBLs/min 9:47pm 300psi
Bump Plug 9:47pm 470psi

used 690 E cross
used 2295Ks cement
51.4 BBLs slurry

1st w/ 346 KLS 3 gallons KCL 6oz Dye

BBLs Back 6

COMAN

9-24-10

AUTHORIZATION TO PROCEED

TITLE

DATE

I 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.