

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10250

LOCATION 34-51

FOREMAN

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-15-11	Phino D-27-19-D	27	3N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 121
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:45 P.M.	TIME LEFT LOCATION 5:30 P.M.

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 849	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 795	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 839		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 LBS	PACKER DEPTH		<input 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, Safety meeting, PSZ test, Circ 50 BBLs H₂O, KCL H₂O, mix + Pump 359 SKS Cement at 30% excess, at 1.27 yield, at 15.2 lbs or until Compdman stops us, no more than 50% excess per Compman, Release Plug, Displace 50.0 BBLs H₂O, Bump Plug at 150 PSI at 1 ft LPSL, wait 5 min, Release PSZ, Washup Rig Down.
H₂O TEST Good
81.2 Slurry

Arrived with 650 SKS, 4 gal KCL, 16 oz Dye

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:30 PM Circ. 3:56 PM Cement 4:09 P.M.

Drop Plug 4:31 PM	Displace 4:31 PM	
10 BBLs at 5.0 BBLs/m	4:35 PM 250 PSI	Used 20% excess
20 BBLs at 5.0 BBLs/m	4:37 PM 370 PSI	Used 332 SKS Cement
30 BBLs at 5.0 BBLs/m	4:40 PM 490 PSI	75 BBLs Slurry
40 BBLs at 5.0 BBLs/m	4:42 PM 550 PSI	
50.0 BBLs at 1.0 BBLs/m	4:47 PM 380 PSI	
Bump		
50.0 BBLs at 1.0 BBLs/m	4:47 PM 380 PSI	
Bump Plug at	4:47 PM 520 PSI	

Left with 318 SKS Cement 3 gal KCL 6 oz Dye BBLs Back 20 BBLs
30 BBLs

AUTHORIZATION TO PROCEED

TITLE

DATE