

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11271
LOCATION Wellb Ranc
FOREMAN mika Rosale

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-29-12	Wellb Ranc An 12-47 11h	12	62N	63	Weld	

CHANGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	H+P 315
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	2:15	TIME LEFT LOCATION	6:12

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
13 3/4					
TOTAL DEPTH 682	TUBING DEPTH	SHOTS-FT		SURFACE PIPE ANNUBUS LONG	
2011 626				STRING	
CASING SIZE 9 5/8	TUBING WEIGHT	OPEN HOLE		TUBING	
CASING DEPTH 672	TUBING CONDITION				
CASING WEIGHT 36185	PACKER DEPTH	TREATMENT VIA			
CASING CONDITION Good					

PRESSURE SUMMARY				<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
BREAKDOWN OF CIRCULATING	PSI	AVERAGE	PSI	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	PSI	ISIP	PSI	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	PSI	5 MIN SIP	PSI	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	PSI	15 MIN SIP	PSI	<input type="checkbox"/> MISC PUMP	
MINIMUM	PSI			<input type="checkbox"/> OTHER	HYD FRAC = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Sattymed, PST TEST 1000, Spacer 50 BBL H₂O & 10 Dye mix
+ Pump 368 SKs Cement (30% Excess) 1.27 yds at 15-21 BS or until Compaction stops as Release
Plug Displace 98.3 BBL H₂O Bump Plug 150 + 20 PSI over 111 Wait 5 min Release PST PST TEST
Casing 1000 PST for 15 min Release PST Wash up Rig Down.
ARRIVE 600 SKs Cement 1294 RLL 1602 Dye Sign

JOB SUMMARY		DESCRIPTION OF JOB EVENTS		Cement START 4:24 AM	
Cement STOP 4:40 AM	Drop Plug 4:45 AM	Displace 4:45 AM			
10 BBL at 5-0 BBL 4:48 AM	320 PSI	USE 26 1/2 Excess			
20 BBL at 5-0 BBL 4:50 AM	360 PSI	USE 357 SKs Cement			
30 BBL at 5-0 BBL 4:52 AM	440 PSI	Slurry 80.7			
40 BBL at 5-0 BBL 4:54 AM	490 PSI	PST TEST			
48.3 BBL at 1.3 BBL 4:58 AM	280 PSI	5:01 - 5:16			
Bump Plug at 1.3 BBL 4:58 AM	480 PSI	1030 1060			

Flow Collar held
BBB RPT 1A
Left with 243 SKs Cem // 911 RLL to Dye Sign

(Paul U. Dem) WSS 9-29-12
AUTHORIZATION TO PROCEED TITLE DATE

Customers 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