

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11043

LOCATION 37-40

FOREMAN K. K. Kallhauff
Pete, Leon

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6/16/12	Key K25-64-TN-1	2.5	4N	66W	Weld	
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR HEP 323				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 12:15pm		TIME LEFT LOCATION 4:30pm				


WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 632	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBID 582.60	TUBING WEIGHT	OPEN HOLE	STUNG		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 627.19		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3615	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Set Play meeting, Psi test, Per cement, Cir 40 Bbls Kcl H2O 2nd 1000 Dye mix & Pump 341 SKs cement at 30% Excess at 127 yd at 15.2 psi & cement stopped by cement Release Plug Diss 45 Bbls H2O, Pump Plug at 150 psi & Lift Psi, wait 5 min Release Psi, wash up Rig Down H2O test ok Arrived w/ 650 SKs cement 4 gal Kcl 1600 Dye 77.1 Bbls slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS Set Play meeting 2:37pm Cir 3:16pm cement 3:20pm stop cement 3:40pm Deep Plug 3:46pm Displace 3:46pm

10 Bbls at 6 Bbls/min 3:48pm 300psi
20 Bbls at 6 Bbls/min 3:50pm 400psi
30 Bbls at 6 Bbls/min 3:51pm 450psi
40 Bbls at 3.5 Bbls/min 3:53pm 400psi
45 Bbls at 1 Bbls/min 3:56pm 250psi
Bump Plug 3:56pm 500psi
used 30% Excess
used 341 SKs cement
77.1 Bbls slurry

Lift w/ 309 SKs cement 3 gal Kcl 600 Dye Bbls Back 14

 CO MAN
AUTHORIZATION TO PROCEED TITLE DATE 6-16-12