

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10392

LOCATION GUTTERSEN RANCH

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE <u>10-14-11</u>	WELL NAME <u>Abbey D 01-32D</u>	SECTION <u>1</u>	TWP <u>3N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENSIGN Rig 128</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:55 AM.</u>		TIME LEFT LOCATION <u>10:15 AM.</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>762</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 711.43</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>754.88</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Circ 40 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 Kps. 1.27 yield, Don't go over 20% excess without Talking To Company Man, Drop plug, Displace 45.3 bbls H₂O, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, We have 650 SKs, 32 oz. Dye, 8 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 8:38 am, Circ 8:53 am, Cement 9:00 am to 9:24 am

Drop plug 9:25 am, Displace 9:26 am

10 bbls 290 Psi 9:28 am 7.0 bbls/min

20 bbls 400 Psi 9:29 am 7.0 bbls/min

30 bbls 490 Psi 9:31 am 7.0 bbls/min

40 bbls 500 Psi 9:33 am 6.0 bbls/min

45.3 bbls 320 Psi 9:35 am 1.0 bbls/min

Bump Plug 500 Psi at 9:35 am Float Collar Held

USED 35% Excess = 335 SKs, 75.77 bbls Slurry

Avg Cement 3.15 bbls/min

Left with 315 SKs, 16 oz Dye, 4 Qts KCL

8 bbls Slurry To The Pit

(Paul W. Dem)

Consultant

10-14-11

AUTHORIZATION TO PROCEED

TITLE

DATE