

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11099
LOCATION 65 +92
FOREMAN Mike Rosale

TREATMENT REPORT

DATE <u>7-21-12</u>	WELL NAME <u>Kern Gw 17-78 HN</u>	SECTION <u>20</u>	TWP <u>8</u>	RGE <u>63</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H+P 322</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>3:45 AM</u>		TIME LEFT LOCATION <u>4:5</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>947</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>Perm 895.68</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>937.3</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36100</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PST TEST 500 PSI Circ 60 BBLs had H2O / KCL mix
2nd ID Dye, mix + Pump 510 SKs Cement (30% Excess) 1.27 gird at 15-2188 on unit
Company men STOPPED use Release Plug Displace 69.2 BBLs had Pump Plug 150 over left
Release PST WASH UP Rig Down

ARRIVED 250 SKs CEMENT 1794 KCL 1600 Dye

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 4:50 AM Circled 5:17 AM Cement START 5:35
Cement STOP 5:57 AM DROP Plug 6:01 AM Displace 6:01 AM

10 BBLs at 5-7 BBLs	6:05 AM	310 PSI	USED 19 % EXCESS
20 BBLs at 5-7 BBLs	6:07 AM	380 PSI	USED 471 SKs Cement
30 BBLs at 5-6 BBLs	6:09 AM	460 PSI	51000 BBLs
40 BBLs at 5-6 BBLs	6:11 AM	500 PSI	
50 BBLs at 5-4 BBLs	6:13 AM	560 PSI	
60 BBLs at 3-5 BBLs	6:15 AM	600 PSI	
69.2 BBLs at 1-5 BBLs	6:18 AM	370 PSI	BBLs BACK to AT
Bump Plug 15 BBLs	6:18	530 PSI	
Left with 279 SKs Cement	12	946 KCL	24

Foggy Foster

WSS

7-21-12

AUTHORIZATION TO PROCEED

TITLE

DATE