

WR-37  
(REV. 5/01)

Date: March 1, 2010  
 Operator's GeoMet operating company.Inc  
 Well No.Gilbert & Plumley A-55  
 API No. ~~147-109-02032~~

**STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENT-OFFICE OF OIL AND GAS  
 PRE-OPERATION CERTIFICATE  
 FOR LIQUID INJECTION OR WASTE DISPOSAL WELL**

**WELL OPERATOR** GeoMet operating company Inc  
 Address 5336 Stadium Trace parkway Ste.206

**DESIGNATED AGENT** \_\_\_\_\_  
 Address \_\_\_\_\_

**GEOLOGICAL TARGET FORMATION** Berea Depth 4018 feet(top) to 4080 feet(bottom)  
 Virgin reservoir pressure in target formation 900 psig  
 Source of information on virgin reservoir pressure: Surrounding wells  
 Perforation intervals 4056-4079 Open-hole intervals \_\_\_\_\_

**MAXIMUM PERMITTED INJECTION OPERATIONS**  
 Well head injection pressure: 1100 psig Bottom hole pressure: 3245 psig  
 Volume per hour: \_\_\_\_\_

**DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED**  
 Liquids to be injected for oil recovery: \_\_\_\_\_  
 Wastes to be disposed of: Saltwater  
 Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.) \_\_\_\_\_  
 Biocide (Didecyl Dimethyl ammonium chloride , Techni-hib 7896 proprietary blend of organophosphorus compounds  
 In the water ( scale inhibitor)

**SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL** none \_\_\_\_\_

**ADDITIONAL DRILLING AS PART OF THE CONVERSION** (Complete form WR-35)

**DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION** ( To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

CASING OR TUBING TYPE	SIZE	GRADE	WEIGHT PER FT.	NEW	USED	FOOTAGE USED IN DRILLING	FOOTAGE LEFT IN WELL	CEMENT USED	PACKERS (KIND, SIZE, DEPTH SET)
CONDUCTOR	_____	_____	_____	_____	_____	_____	_____	_____	_____
FRESH WATER	_____	_____	_____	_____	_____	_____	_____	_____	_____
COAL	_____	_____	_____	_____	_____	_____	_____	_____	_____
INTERMEDIATE	_____	_____	_____	_____	_____	_____	_____	_____	_____
PRODUCTION TUBING	4 1/2	J-55	9.5	x			4183	265 Sks	
LINERS	2- 3/8	J-55	4.7	x			4028		4028 Lok set

109-2012

**MECHANICAL INTEGRITY TEST**

Test Method: Rigged up with Superior well services pump truck with electronic pressure recording equipment, Pressured up annulus to 1900 p.s.i and shut-in , the test failed lost 140 p.s.i in 12 minutes due to a leaking valve on the pump truck, shut down and went to superiors shop and picked up a 2 inch pressure transducer , drove back to location a hooked up the transducer and retested pressured annulus up to 1679 p.si. shut-in valve going to the pump truck the test passed lost 71 p.s.i in 20 minutes

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The undersigned certifies that the test was performed on \_\_\_\_\_ March 1, 2010 and demonstrated mechanical integrity of the well. The test was witnessed by \_\_\_\_\_ representing the Office of Oil and Gas.

\_\_ Geomet operating company inc.  
Well Operator

03/1/10  
Date

**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed James Paterson UIC PROGRAM DIRECTOR  
Date 3/19/10

[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].

Geo Met  
Well Operator  
By: Dalla Martel  
Its Project Manager

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**Customer Information**

Customer Name	GEO-MET
District-Division	
Street	
City	
State	WV

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**Lease Information**

Lease Name	A-55
Physical Location	
County	
State	WV

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**Well Information**

Casing Size	WV
Casing Weight	
Casing Connection	
Casing I.D.	
Hole Size	
Calculated Annular Excess %	
BHST	
T.D.	
Casing Length	
Shoe Joint	
Float Collar	
Calculated T.O.C.	
Previous Casing Depth	
Previous Casing Size	
Previous Casing Weight	
Drill Pipe Size	

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**Call-Out Information**

Job Type	PRESSURE TEST
Service Center(s)	KIMBALL
Bulk Location(s)	
Supervisor(s)	JAMES KEATON
Pumping Equipment	110
Auxillary Equipment	
Time Called Out	
Time On Location	
Planned Time of Job	
Weather Conditions	

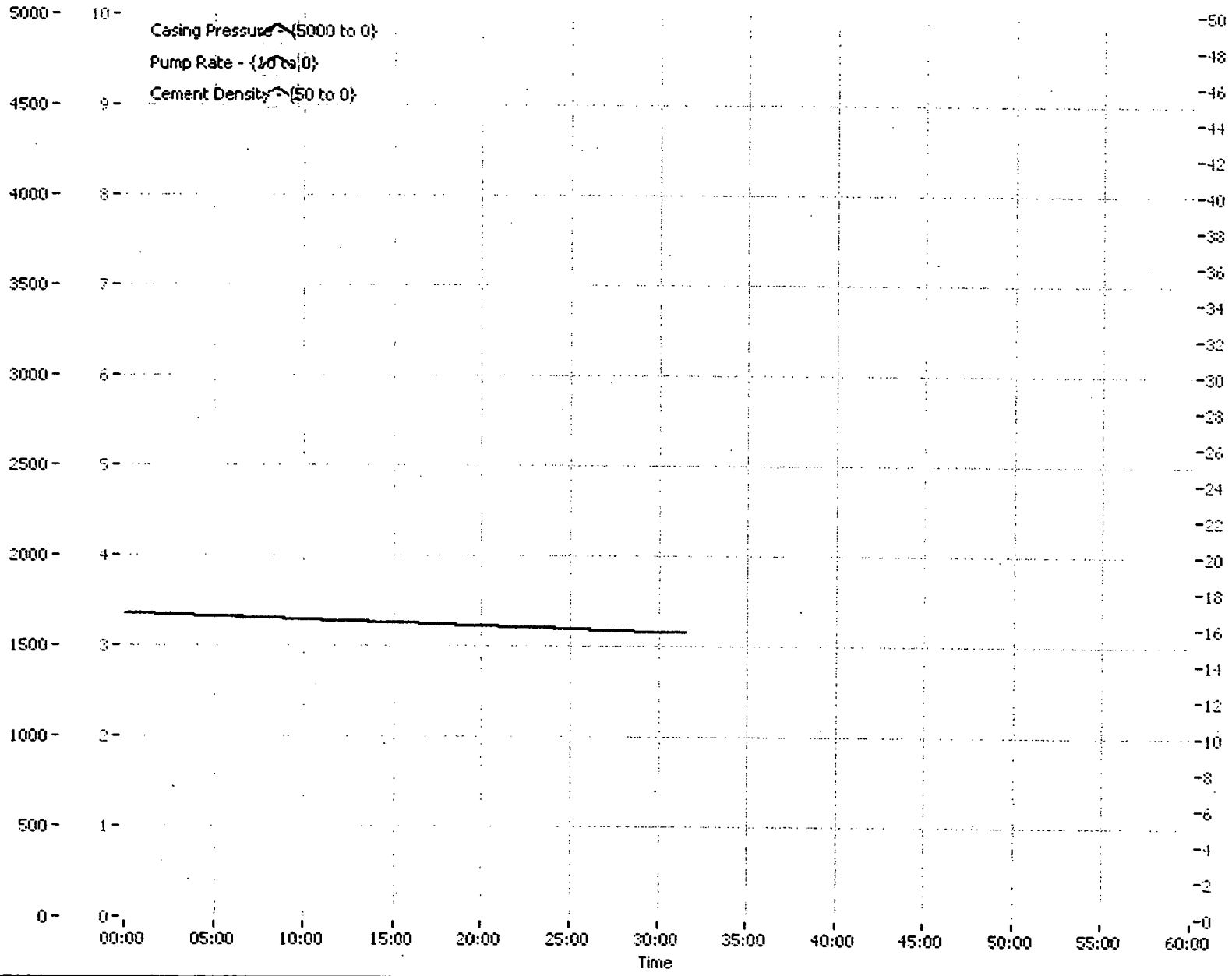
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{1}PRESSURE TEST - Job Log

27-011080-03

A-55

GEO-MET



{1}PRESSURE TEST - Relative Time Chart [27-011080-03-1-RT-1]

	Comment	CASEp	PUMPF	DENcmt	SLRY VOL STG-bbls	SLRY VOL TOT-bbls
15:54:29	Start Recording	1679	-4.8	-6.25	0.0	0.0
15:54:31	Rate Check	1678	-4.8	-6.24	0.0	0.0
15:56:31	Rate Check	1670	-4.8	-6.24	0.0	0.0
15:58:31	Rate Check	1662	-4.8	-6.24	0.0	0.0
16:00:31	Rate Check	1655	-4.8	-6.25	0.0	0.0
16:02:31	Rate Check	1649	-4.8	-6.24	0.0	0.0
16:04:31	Rate Check	1641	-4.8	-6.25	0.0	0.0
16:06:33	Rate Check	1635	-4.8	-6.25	0.0	0.0
16:08:33	Rate Check	1628	-4.8	-6.25	0.0	0.0
16:10:33	Rate Check	1621	-4.8	-6.25	0.0	0.0
16:12:33	Rate Check	1616	-4.8	-6.25	0.0	0.0
16:14:33	Rate Check	1608	-4.8	-6.25	0.0	0.0
16:16:33	Rate Check	1601	-4.8	-6.25	0.0	0.0
16:18:33	Rate Check	1596	-4.8	-6.24	0.0	0.0
16:20:33	Rate Check	1588	-4.8	-6.24	0.0	0.0
16:22:33	Rate Check	1582	-4.8	-6.25	0.0	0.0
16:24:33	Rate Check	1577	-4.8	-6.25	0.0	0.0

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{1}PRESSURE TEST - Units

Casing Pressure	CASEp	psi
Pump Rate	PUMPF	bpm
Cement Density	DENcmt	ppg
Slurry Fluid Volume Stage	SLRY VOL STG-bbls	bbl
Slurry Fluid Volume Job	SLRY VOL TOT-bbls	bbl