



**ANNUAL REPORT OF PRESSURE MONITORING,  
 FLUID INJECTION AND ENHANCED RECOVERY**

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPERATOR: License # \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address 1: \_\_\_\_\_  
 Address 2: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
 Contact Person: \_\_\_\_\_  
 Phone: ( \_\_\_\_\_ ) \_\_\_\_\_  
 Lease Name: \_\_\_\_\_  
 Well Number: \_\_\_\_\_

API No.: \_\_\_\_\_  
 Permit No.: \_\_\_\_\_  
 Reporting Year: \_\_\_\_\_  
 (January 1 to December 31)  
 \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  E  W  
 (a/a/a/a)  
 \_\_\_\_\_ feet from  N /  S Line of Section  
 \_\_\_\_\_ feet from  E /  W Line of Section  
 County: \_\_\_\_\_

**I. Injection Fluid:**

Type (Pick one):  Fresh Water  Treated Brine  Untreated Brine  Water/Brine  
 Source:  Produced Water  Other (Attach list)  
 Quality: Total Dissolved Solids: \_\_\_\_\_ mg/l Specific Gravity: \_\_\_\_\_ Additives: \_\_\_\_\_  
 (Attach water analysis, if available)

**II. Well Data:**

Maximum Authorized Injection Pressure: \_\_\_\_\_ psi Injection Zone: \_\_\_\_\_  
 Maximum Authorized Injection Rate: \_\_\_\_\_ barrels per day  
 Total Number of Enhanced Recovery Injection Wells Covered by this Permit: \_\_\_\_\_ (Include TA's)

III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
	January	_____	_____	_____	_____	_____
	February	_____	_____	_____	_____	_____
	March	_____	_____	_____	_____	_____
	April	_____	_____	_____	_____	_____
	May	_____	_____	_____	_____	_____
	June	_____	_____	_____	_____	_____
	July	_____	_____	_____	_____	_____
	August	_____	_____	_____	_____	_____
	September	_____	_____	_____	_____	_____
	October	_____	_____	_____	_____	_____
	November	_____	_____	_____	_____	_____
	December	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____

# VISCO WATER ANALYSIS WORK SHEET

COMPANY Black Star LOCATION Ks, Nebraska border  
 TIME \_\_\_\_\_ LEASE Snyder WATER SOURCE Simpson

**TOTAL DISSOLVED SOLIDS:**

CATIONS	Column 1 mg/l as compound	Column 2 mg/l as ions	Column 3 mge/l
A. Sodium		as Na+= 23.0X	A.
B. Total hardness, as CaCO <sub>3</sub> =	<u>650</u>		
C. Calcium, as CaCO <sub>3</sub> =	<u>420</u> X 0.400 =	<u>168</u>	C.
D. Magnesium, as CaCO <sub>3</sub> =	X 0.243 =	as Mg++X 0.0823=	D.
E. Barium, as BaSO <sub>4</sub> =	X 0.589 =	as Ba++X 0.0146=	E.
		Subtotal	F.
F. Total Cations =			

**ANIONS**

G. Chloride, as NaCl =	<u>35,000</u> X 0.607 =	<u>21,245</u>	as Cl <sup>-</sup> X 0.0282 =	G.
H. Sulfate, as Na <sub>2</sub> SO <sub>4</sub> =	X 0.676 =	<u>60</u>	as SO <sub>4</sub> X 0.0208 =	H.
I. Carbonate, as CaCO <sub>3</sub> =	X 0.600 =		as CO <sub>3</sub> X 0.0333 =	I.
J. Bicarbonate, as CaCO <sub>3</sub> =	X 1.220 =		as HCO <sub>3</sub> X 0.0164 =	J.
K. Total Anions =				K.
L. Total Dissolved Solids				L.
M. Total Iron, as Fe				
N. Acidity to Phen., as CaCO <sub>3</sub>	X 0.440 =		as CO <sub>2</sub>	

**OTHER PROPERTIES:**

P. Sulfide, as H <sub>2</sub> S	_____	S. Turbidity	_____
Q. Oxygen, as O <sub>2</sub>	_____	T. Temperature, °F	_____
R. pH	<u>7.2</u>	V. Spec. Grav.	<u>1.075</u>

**COMMENTS:** Black water from Iron sulfide. IF you have trouble with Iron in the future and you acidize the well, make sure whoever does the job uses a solvent or soap to get oil off of Iron before acid job is done. They should know this. Every week circulate 2 1/2 gallons of corrosion inhibitor for 15 min (EC1091). Use 1 1/2 qt of Emulsion

DISTRICT/AREA: Breaker per day (EC2311) ANALYST: \_\_\_\_\_

**DIRECTIONS:**

- Step 1: Complete tests in Column 1, and "Other Properties".
- Step 2: Complete the multiplication steps for Columns 2 and 3, except Line A.
- Step 3: In Column 3, add C, D, E to get subtotal. In Column 3, add G, H, I and J and enter total in 3K.
- Step 4: Subtract subtotal from 3K and enter difference in 3A. In Column 3, add 3A to subtotal and enter in 3F.
- Step 5: Multiply 3A by 23.0 and enter in 2A.
- Step 6: Add column 2 Cations to get Total in 2F. Add Anions to get Total in 2K. Add 2F and 2K to get 2L.

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