



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	_____	_____	_____	_____	_____
	TOTAL	_____	_____	_____	_____	_____

Attention: **Richard.Myers@CHAMP-TECH.com**

Customer: **Sullivan Oil Company (1506456)**

Location Code: **30976**

Region: **Not Available**

Sample ID: **AF53588**

Location: **Russell, KS**

Login Batch: **160127110516**

System: **Production System**

Collection Date: **01/25/2016**

Equipment: **Well Sabesta 1**

Receive Date: **01/27/2016**

Lab ID: **ABU-0055**

Report Date: **01/29/2016**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	282	mg/L
Dissolved H2S	70	mg/L
pH	7.5	
Pressure	25	psi
Temperature	62	° F

Analyses	Result	Unit
Bicarbonate	752	mg/L
Conductivity	29720	µS - cm3
Ionic Strength	0.35	
Resistivity	0.336	ohms - m
Specific Gravity	1.008	
Total Dissolved Solids	19044.64	mg/L

Cations	Result	Unit
Iron	23.7	mg/L
Manganese	0.063	mg/L
Barium	1.381	mg/L
Strontium	80.6	mg/L
Calcium	646.4	mg/L
Magnesium	261.2	mg/L
Sodium	6162.30	mg/L

Anions	Result	Unit
Chloride	10965	mg/L
Sulfate	152	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-2.14
Barite BaSO4 PTB	0.6
Barite BaSO4 SI	0.58
Calcite CaCO3 PTB	156.8
Calcite CaCO3 SI	0.53
Celestite SrSO4 SI	-0.62
Gypsum CaSO4 SI	-1.70
Hemihydrate CaSO4 SI	-1.55
Saturation Index Calculation (Tomson-Oddo Model)	

Comments:

Attention: **Richard.Myers@CHAMP-TECH.com**

Customer: **Sullivan Oil Company (1506456)**

Location Code: **288680**

Region: **Not Available**

Sample ID: **AF53589**

Location: **Russell, KS**

Login Batch: **160127110516**

System: **Production System**

Collection Date: **01/25/2016**

Equipment: **Well Sabesta 2**

Receive Date: **01/27/2016**

Lab ID: **ABU-0055**

Report Date: **01/29/2016**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	264	mg/L
Dissolved H2S	20	mg/L
pH	7.0	
Pressure	40	psi
Temperature	57	° F

Analyses	Result	Unit
Bicarbonate	356	mg/L
Conductivity	139087	µS - cm3
Ionic Strength	1.79	
Resistivity	0.072	ohms - m
Specific Gravity	1.063	
Total Dissolved Solids	89041.05	mg/L

Cations	Result	Unit
Iron	25.04	mg/L
Manganese	0.157	mg/L
Barium	6.494	mg/L
Strontium	572	mg/L
Calcium	5267	mg/L
Magnesium	2129	mg/L
Sodium	25441.36	mg/L

Anions	Result	Unit
Chloride	54706	mg/L
Sulfate	538	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.93
Barite BaSO4 PTB	3.5
Barite BaSO4 SI	1.08
Calcite CaCO3 SI	-0.07
Celestite SrSO4 PTB	91.7
Celestite SrSO4 SI	0.26
Gypsum CaSO4 SI	-0.63
Hemihydrate CaSO4 SI	-0.63
Saturation Index Calculation (Tomson-Oddo Model)	

Comments:

Attention: **Richard.Myers@CHAMP-TECH.com**

Customer: **Sullivan Oil Company (1506456)**

Location Code: **288681**

Region: **Not Available**

Sample ID: **AF53590**

Location: **Russell, KS**

Login Batch: **160127110516**

System: **Production System**

Collection Date: **01/25/2016**

Equipment: **Well Sabesta salt water tank**

Receive Date: **01/27/2016**

Lab ID: **ABU-0055**

Report Date: **01/29/2016**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	282	mg/L
Dissolved H2S	45	mg/L
pH	8.5	
Pressure	25	psi
Temperature	44	° F

Analyses	Result	Unit
Bicarbonate	171	mg/L
Conductivity	65277	µS - cm3
Ionic Strength	0.82	
Resistivity	0.153	ohms - m
Specific Gravity	1.025	
Total Dissolved Solids	41800.46	mg/L

Cations	Result	Unit
Iron	23.22	mg/L
Manganese	0.061	mg/L
Barium	3.092	mg/L
Strontium	242.5	mg/L
Calcium	2227	mg/L
Magnesium	843.3	mg/L
Sodium	12472.29	mg/L

Anions	Result	Unit
Chloride	25694	mg/L
Sulfate	124	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-1.98
Barite BaSO4 PTB	1.2
Barite BaSO4 SI	0.50
Calcite CaCO3 PTB	61.4
Calcite CaCO3 SI	0.87
Celestite SrSO4 SI	-0.55
Gypsum CaSO4 SI	-1.47
Hemihydrate CaSO4 SI	-1.37
Saturation Index Calculation (Tomson-Oddo Model)	

Comments: