

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 071-20,570-0000

County Greeley
3150' FEL & 2130' FNL
SE-SR-NW Sec. 11 Twp. 18S Rge. 43 X E
X W

2130' Feet from S (circle one) Line of Section
3150' Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Brewer Well # 1

Field Name Moore-Johnson

Producing Formation Morrow sand

Elevation: Ground 3893' KB 3898'

Total Depth 5225' PBD

Amount of Surface Pipe Set and Cemented at 360 Feet

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 2649' Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 12-4-92
(Data must be collected from the Reserve Pit)

Chloride content 16,000 ppm Fluid volume bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 30605

Name: HGB Oil Co. & Edwin C. Schuett

Address 1707 So. Jasmine

City/State/Zip Denver, CO 80224

Purchaser: Scurlock Permian

Operator Contact Person: H. Gordon Beamguard

Phone (303) -782-9443

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Don McKenna

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

 Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBD

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

8/9/92 8/20/92 9/19/92

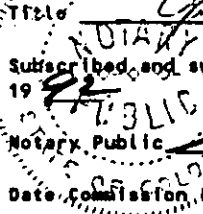
Spud Date Date Reached TD Completion Date

ORIGINAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Edwin C. Schuett
Title: Operator Date 11-3-92
Subscribed and sworn to before me this 31 day of November
19 92
Notary Public: Randy Walker
Date Commission Expires My Commission Expires



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

G Wireline Log Received

H Geologist Report Received

Distribution

 SWD/Rep NGPA

 Plug Other (Specify)

5 1992
11-5-92

518 Seventeenth St #660
Denver, Colorado 80202

Operator Name HGB Oil Co. & Edwin C. Schuett Lease Name Brewer Well # 1
 East County Greeley
 Sec. 11 Twp. 18S Rge. 43 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Niobrara	653	+3269
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Dakota	1170	+2752
List All E.Logs Run: Dual Induction/GR 360'-5223' Dual Compensated Porosity Log 3200-5223 Borehole Compensated Sonic 3200-5223 Micro-Log 3200-5224		Morrison	1586	+2336
		Blaine	2014	+1908
		Cedar Hills	2375	+1547
		Stone Corral	2617	+1305
		Neva	3383	+539
		Foraker	3456	+466
		Shawnee	3889	+33
		(see attached list)		

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used (121 joints new & 6 jts used)							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20	362	60/40 poz	200	2% gel 3% CC
Production	7 7/8"	5 1/2"	15.5	5221	Class A	150	3% KCL.5% CD31 .5% FL28

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
2nd Stage Perforate				
Protect Casing	2649	Light	700	1/ pps flocele
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plug Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	5143-5146		

TUBING RECORD	2 1/2" Size	Set At 5153	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	9-17-92	Producing Method	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil 40 Bbls.	Gas 20 Mcf	Water 0 Bbls.	Gas-Oil Ratio 41 Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

HGB OIL CO. & EDWIN C. SCHUETT BREWER #1
3150' FEL & 2130' FNL, SEC. 11, T18S, R43W
GREELEY COUNTY, KANSAS

FORMATION TOPS CONTINUED

Heebner	4073	-151
Lansing	4137	-215
Marmaton	4587	-665
Ft. Scott	4672	-750
Cherokee	4690	-768
Atoka	4948	-1026
Morrow	5040	-1118
Stockholm sand	5134	-1212
Lower Morrow	5152	-1230

DST #1 5141-5225 30", 60", 60" 90". GTS @ 847 MCF/d dec to 137
MCF/d. Rec 2240' GCO, 60'GOWCM, 60' GMCW, 60' MCW.
HMP 2523-2483, FP 270-270, 353-384; SIP 549-559.

ORIGINAL

RECEIVED
NOV 15 1992

CONSERVATION
Division
Topeka, Kansas

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

3021

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	Sec.	Fwp.	Range	Called Out	On Location	Job Start	Finish
8-9-92	11	18	43	6:00 PM	11:30 PM	2:00 AM	2:45 AM
Lease Brewer	Well No. #	Location Tribune, 15w, 4n, E into			County Greeley	State KS	

Contractor **Emphasis Rig # 10**

Type Job **Surface**

Hole Size	T.D.
12 1/4"	312'
Csg.	Depth
8 5/8" (20" New)	360'
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint
15'	
Press Max.	Minimum
Meas Line	Displace
	22 1/2 bbb
Perf.	

Owner **HGB Oil Co.**

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To **Emphasis**

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. **69**

X **W. H. H. H. H. H.**

CEMENT

EQUIPMENT

#	No.	Cementor	
Pumptrk	158	Helper	Jim Cary
Pumptrk		Cementor	
		Helper	
#		Driver	Pancy
Bulktrk	116		
Bulktrk		Driver	

Amount Ordered **200 SKS 69/40 390cc, 290681**

Consisting of

Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	

Floating Equipment

DEPTH of Job

Reference:	
	Pumptrk Charge
	Pumptrk Mileage
1	8 5/8 Wooden Plug
	Sub Total
	Tax
	Total

Remarks: **Cement did Circulate,**

ORIGINAL

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NAV 5 1992

Allied Cementing Co.
By **Tom Dickson**
Russell, Kansas

Ring circulating
upon arrival

1 Perfor

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

EMPHASIS OIL OPERATIONS

P. O. BOX 506
RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: HGB Oil Co. & Edwin C. Schuett
1707 So. Jasmine
Denver, Colorado 80224

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Brewer

WELL #1

LOCATION: 3150' FEL & 213' FNL
Section 11-18S-43W
Greeley County, Kansas

ROTARY TOTAL DEPTH: 5225'

ELEVATION: 3898' K.B.

COMMENCED: 8/9/92

COMPLETED: 8/20/92

CASING: 8-5/8" @ 360' w/200 sks cement
5-1/2" @ 5214' w/100 sks cement

STATUS: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

No Tops Released

COPY 1

STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

K. Scott Branum, of Emphasis Oil Operations, states that above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.

K. Scott Branum
K. Scott Branum

RECEIVED
STATE OF KANSAS
NOV 5 1992
WICHITA, KANSAS

Subscribed and sworn to before me on August 21, 1992.

My commission expires: February 6, 1996.

GLEND A R. TIFFIN
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 2-6-96

Glenda R. Tiffin
Glenda R. Tiffin, Notary Public

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name BREWER #1 Test No. 1 Date 8/19/92
Company HGB OIL COMPANY Zone MORROW SAND
Address 1707 S. JASMINE DENVER, CO 80224 Elevation 3922
Co. Rep./Geo. DON MCKENNA Cont. _____ Est. Ft. of Pay 5
Location: Sec. 11 Twp. 18S Rge. 43W Co. GREELEY State KS

Interval Tested	<u>5141-5225</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>84</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5136</u>	Drill Collar - 2.25 Ft. Run	<u>60</u>
Bottom Packer Depth	<u>5141</u>	Mud Wt.	<u>9.2</u> lb/Gal.
Total Depth	<u>5225</u>	Viscosity	<u>51</u> Filtrate <u>10.8</u>

Tool Open @ 4:42AM Initial Blow STRONG BLOW OFF BOTTOM IMMEDIATELY
GAS TO SURFACE IN 5 MINUTES ON 3/4" ORIFICE ISI: BLED OFF BLOW - NO RETURN
Final Blow STRONG RETURN GAUGED 137 MCF/DAY @ FINAL OF FLOW PERIOD
FSI: BLED OFF BLOW - BLOW ON SURFACE BUILT TO BOTTOM IN 5 MINUTES

Recovery - Total Feet 2420 Flush Tool? NO

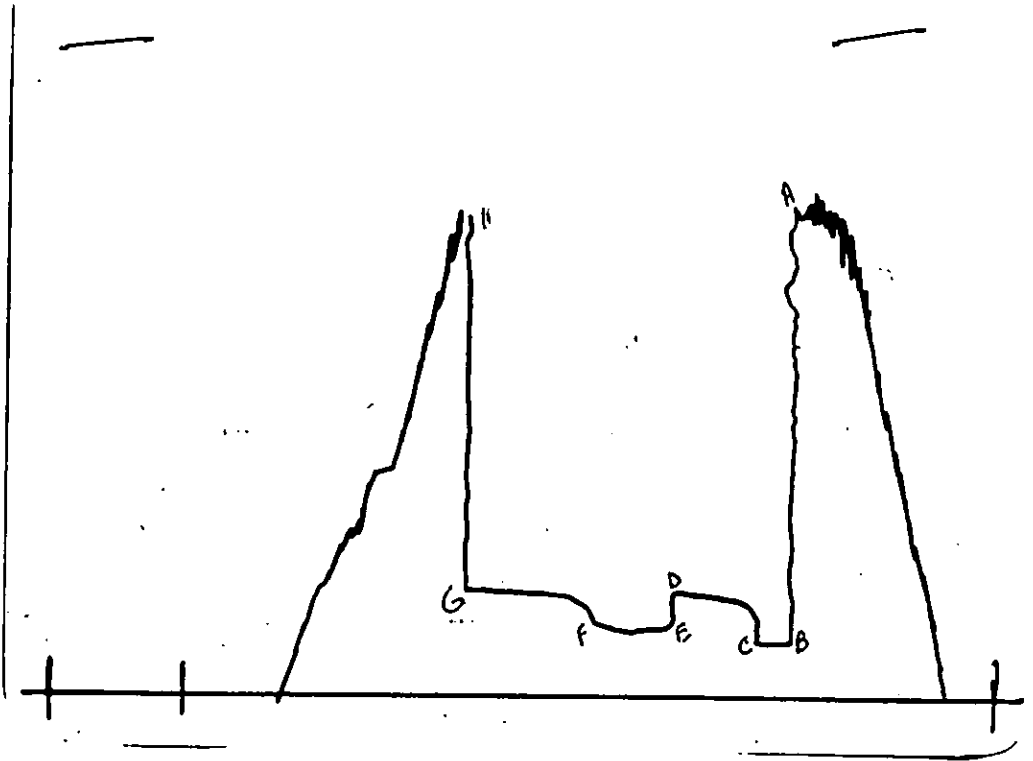
Rec. <u>2240</u>	Feet of	<u>CLEAN GASSY OIL EST. 50%GAS/50%OIL</u>
Rec. <u>60</u>	Feet of	<u>GASSY OIL WATER CUT MUD 10%GAS/10%OIL/10%WATER/70%MUD</u>
Rec. <u>60</u>	Feet of	<u>GASSY MUD CUT WATER 10%GAS/TRC-OIL/50%WATER/40%MUD</u>
Rec. <u>60</u>	Feet of	<u>MUD CUT WATER 70%WATER/30%MUD</u>
Rec. _____	Feet of	_____

BHT 142 °F Gravity 41 °API @ 70 °F Corrected Gravity 40 °API
RW 0.4 @ 65 °F Chlorides 18000 ppm Recovery Chlorides 16000 ppm System

(A) Initial Hydrostatic Mud	<u>2589.1</u> PSI	AK1 Recorder No.	<u>13309</u>	Range	<u>4700</u>
(B) First Initial Flow Pressure	<u>286.9</u> PSI	@ (depth)	<u>5147</u>	w / Clock No.	<u>25814</u>
(C) First Final Flow Pressure	<u>286.9</u> PSI	AK1 Recorder No.	<u>13339</u>	Range	<u>4025</u>
(D) Initial Shut-in Pressure	<u>570.1</u> PSI	@ (depth)	<u>5152</u>	w / Clock No.	<u>27566</u>
(E) Second Initial Flow Pressure	<u>362.7</u> PSI	AK1 Recorder No.	_____	Range	_____
(F) Second Final Flow Pressure	<u>405.4</u> PSI	@ (depth)	_____	w / Clock No.	_____
(G) Final Shut-in Pressure	<u>574.1</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2505.9</u> PSI	Initial Shut-in	<u>60</u>	Final Shut-in	<u>90</u>

Our Representative ROD STEINBRINK

CHART PAGE



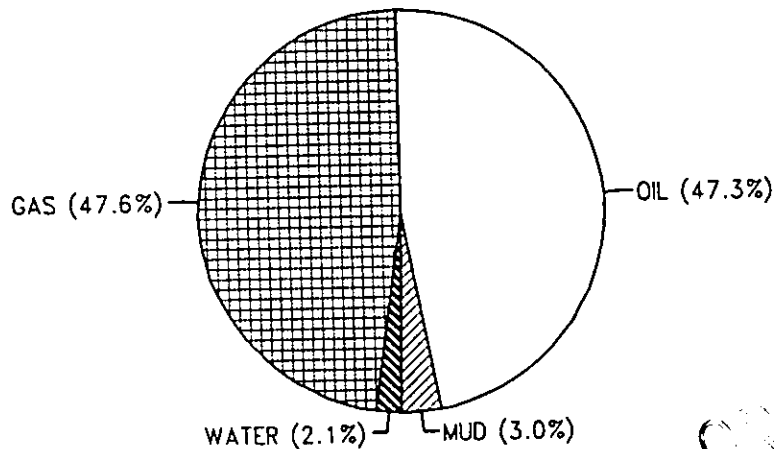
This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2523	2589.1
(B) FIRST INITIAL FLOW PRESSURE	270	286.9
(C) FIRST FINAL FLOW PRESSURE	270	286.9
(D) INITIAL CLOSED-IN PRESSURE	549	570.1
(E) SECOND INITIAL FLOW PRESSURE	363	362.7
(F) SECOND FINAL FLOW PRESSURE	384	405.4
(G) FINAL CLOSED-IN PRESSURE	559	574.1
(H) FINAL HYDROSTATIC MUD	2483	2505.9

CALCULATED RECOVERY ANALYSIS

DST #	1		TICKET #		5191					
SAMPLE #	TOTAL FEET	GAS %	GAS FEET	OIL %	OIL FEET	WATER %	WATER FEET	MUD %	MUD FEET	
DRILL 1	2240	50	1120	50	1120		0		0	
PIPE 2	60	10	6	10	6	10	6	70	42	
3	60	10	6		0	50	30	40	24	
4			0		0		0		0	
5			0		0		0		0	
6			0		0		0		0	
WEIGHT 1			0		0		0		0	
PIPE 2			0		0		0		0	
3			0		0		0		0	
4			0		0		0		0	
DRILL 1	60	0	0	0	0	70	42	30	18	
COLLAR 2			0		0		0		0	
3			0		0		0		0	
4			0		0		0		0	
5			0		0		0		0	
TOTAL	2420		1132		1126		78		84	

BBL OIL=	16.01172	*	HRS OPEN	1.5	BBL/DAY	256.18752
BBL WATER=	0.7173	*				11.4768
BBL MUD=	1.02654					
BBL GAS =	16.09704					



ORIGINAL

INITIAL FLOW

RECORDER #	13339	DST # 1
TIME(MIN)	PRESSURE	<>PRESSURE
3	297.3	297.3
6	289	-8.3
9	286.9	-2.1
12	286.9	0
15	286.9	0
18	286.9	0
21	286.9	0
24	286.9	0
27	286.9	0
30	286.9	0

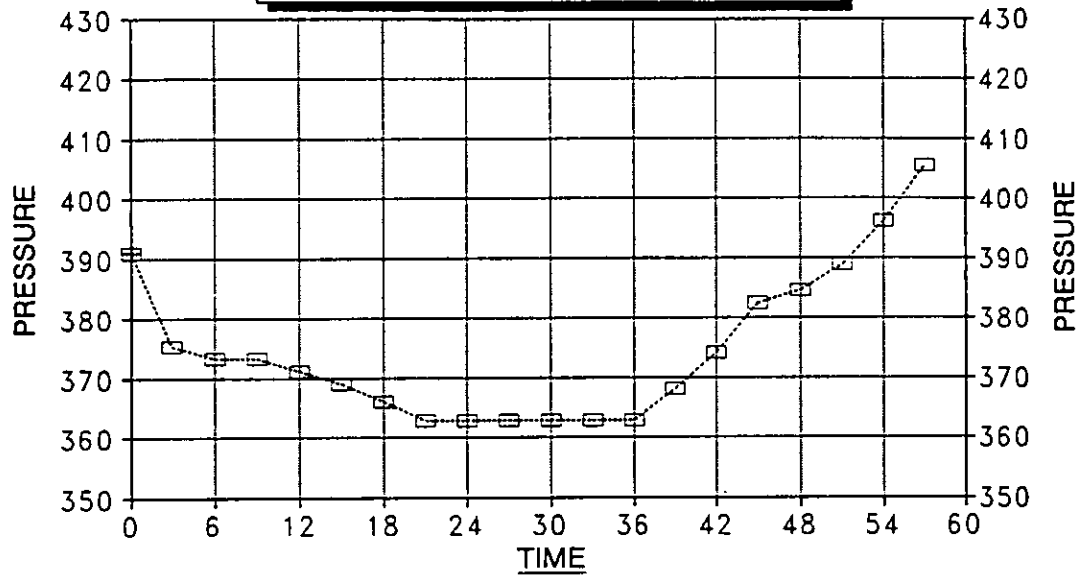
FINAL FLOW

RECORDER #	13339	DST # 1
TIME(MIN)	PRESSURE	<> PRESSURE
0	390.9	390.9
3	375.2	-15.7
6	373.1	-2.1
9	373.1	0
12	371.1	-2
15	369	-2.1
18	365.9	-3.1
21	362.7	-3.2
24	362.7	0
27	362.7	0
30	362.7	0
33	362.7	0
36	362.7	0
39	368	5.3
42	374.2	6.2
45	382.5	8.3
48	384.6	2.1
51	388.8	4.2
54	396	7.2
57	405.4	9.4

ORIGINAL

DELTA T DELTA P

FINAL FLOW - DST #1



---□--- BREWER #1

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

134.425

BREWER #1
INITIAL

DST #1
SHUTIN

15-071-20570-0000

30 TOTAL FLOW TIME

Slope 137.95 psi/cycle
P * 594 psi

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	478.2	1.041	478.2	11
6	500.0	0.778	21.8	6
9	516.0	0.637	16.0	4
12	528.0	0.544	12.0	4
15	536.0	0.477	8.0	3
18	542.0	0.426	6.0	3
21	547.1	0.385	5.1	2
24	550.1	0.352	3.0	2
27	553.1	0.325	3.0	2
30	555.1	0.301	2.0	2
33	558.1	0.281	3.0	2
36	560.1	0.263	2.0	2
39	561.1	0.248	1.0	2
X 42	562.1	0.234	1.0	2
45	564.1	0.222	2.0	2
48	566.1	0.211	2.0	2
51	567.1	0.201	1.0	2
54	568.1	0.192	1.0	2
57	569.1	0.184	1.0	2
X 60	570.1	0.176	1.0	2

BREWER #1
FINAL

DST #1
SHUTIN

90

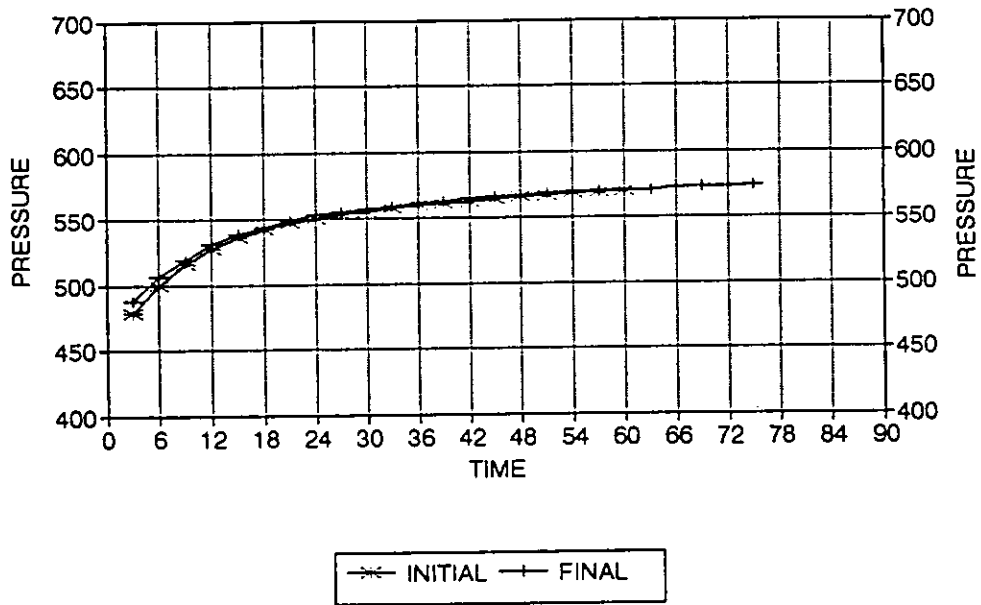
TIME

Slope 54.04 psi/cycle
P * 593 psi

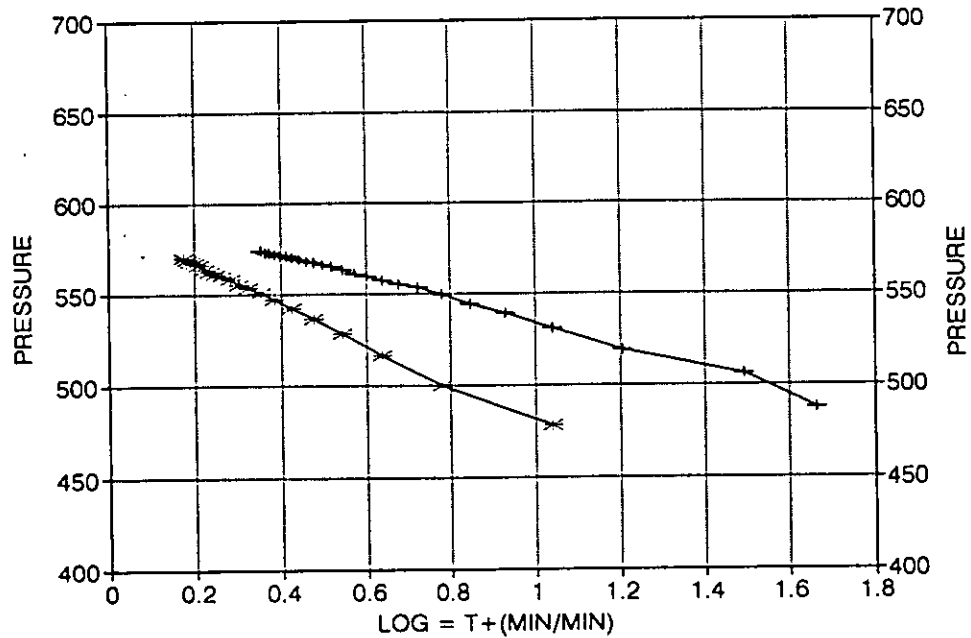
TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	487.5	1.491	487.5	31
6	506.0	1.204	18.5	16
9	519.0	1.041	13.0	11
12	531.0	0.929	12.0	9
15	539.0	0.845	8.0	7
18	544.0	0.778	5.0	6
21	549.1	0.723	5.1	5
24	553.1	0.677	4.0	5
27	555.1	0.637	2.0	4
30	557.1	0.602	2.0	4
33	559.1	0.571	2.0	4
36	561.1	0.544	2.0	4
39	563.1	0.520	2.0	3
42	565.1	0.497	2.0	3
45	566.1	0.477	1.0	3
48	567.1	0.459	1.0	3
51	568.1	0.442	1.0	3
54	569.1	0.426	1.0	3
57	570.1	0.411	1.0	3
X 60	571.1	0.398	1.0	3
63	571.1	0.385	0.0	2
66	572.1	0.374	1.0	2
69	573.1	0.363	1.0	2
72	573.1	0.352	0.0	2
X 75	574.1	0.342	1.0	2

ORIGINAL

BREWER #1 DST #1 DELTA T DELTA P



HORNER PLOT



GAS VOLUME REPORT

HGB OIL COMPANY

BREWER #1

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	GTS	3/4"		10	22	1"	773
10	11	1 1/4"	847	20	15	1"	603
20	8	1 1/4"	700	30	9	1"	442
30	6	1 1/4"	599	40	3	1"	242
				50	2	1"	195
				60	1	1"	137

ORIGINAL

Remarks:

FLUID SAMPLER DATA

Ticket No.: 4628 Date: 4/30/92
 Company: HGB OIL COMPANY
 Lease: BREWER #1 Test No.: 1
 County: GREELEY Sec.: 11 Twp.: 18S Rng.: 43W

SAMPLER RECOVERY

Gas 4500
 Oil
 Mud
 Water
 Other 7.1 CU.FT.
 Pressure 515
 TOTAL 4500

SAMPLER ANALYSIS

Resistivity ohms@ F
 Chlorides ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 16000
 Resistivity ohms@ F
 Viscosity 51
 Mud Wt. 9.2
 Filtrate 10.8
 Other L.C.M. TRC

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.4 ohms@ 65 F
 Chlorides 18000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 5191

Well Name & No. <u>Brewer #1</u>	Test No. <u>1</u>	Date <u>8.19.92</u>
Company <u>H.G.B. Oil Company</u>	Zone Tested <u>Morrow Sand</u>	
Address <u>1707 S. Jasmine Denver, CO. 80224</u>	Elevation <u>3922 (KB)</u>	
Co. Rep./Geo. <u>Don McKenna</u>	cont. <u>Emphasis #10</u>	Est. Ft. of Pay <u>5'</u>
Location: Sec. <u>11</u>	Twp. <u>18 S</u>	Rge. <u>43 W</u> co. <u>Greeley</u> state <u>KS.</u>
No. of Copies _____	Distribution Sheet <input checked="" type="checkbox"/> Yes _____	No Turnkey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No _____ Evaluation _____

Interval Tested <u>5141 - 5225</u>	Drill Pipe Size <u>4 1/2" XH</u>
Anchor Length <u>84'</u>	Top Choke - 1" _____ Bottom Choke - 1/4" _____
Top Packer Depth <u>5136</u>	Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
Bottom Packer Depth <u>5141</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Total Depth <u>5225</u>	Drill Collar - 2.25 Ft. Run <u>60'</u>
Mud Wt. <u>9.2</u> lb/gal.	Viscosity <u>51</u> Filtrate <u>10.8</u>

Tool Open @ 4:42 am (CDT) Initial Blow Strong blow off bottom immediately
 GTS in 5 mins on 3/4" orifice. ISI: Bled off blow - no return.
 Final Blow Strong return gauged 137 mcf/day @ final of flow period.
 FSI: Bled off blow - blow on surface built to bottom in 5 mins.

Recovery - Total Feet <u>2420'</u>	Feet of Gas In Pipe _____	Flush Tool? <u>No</u>
Rec. <u>2240'</u> Feet Of <u>CGO</u>	est. <u>50% gas 50% oil</u>	_____ %water _____ %mud
Rec. <u>60'</u> Feet Of <u>GDWCM</u>	<u>10% gas 10% oil</u>	<u>10% water 70% mud</u>
Rec. <u>60'</u> Feet Of <u>GMCW</u>	<u>10% gas trc. %oil</u>	<u>50% water 40% mud</u>
Rec. <u>60'</u> Feet Of <u>MCW</u>	_____ %gas _____ %oil	<u>70% water 30% mud</u>
Rec. _____ Feet Of _____	_____ %gas _____ %oil	_____ %water _____ %mud

BHT 142° °F Gravity 41 °API @ 70° °F Corrected Gravity 40 °API

RW .40 @ 65° °F chlorides 18,000 ppm Recovery chlorides 16,200 ppm System

(A) Initial Hydrostatic Mud <u>2523</u>	PSI	AK1 Recorder No. <u>13309</u>	Range <u>4700</u>
(B) First Initial Flow Pressure <u>270</u>	PSI	@ (depth) <u>5147</u>	w/Clock No. <u>25814</u>
(C) First Final Flow Pressure <u>270</u>	PSI	AK1 Recorder No. <u>13339</u>	Range <u>4025</u>
(D) Initial Shut-In Pressure <u>549</u>	PSI	@ (depth) <u>5152</u>	w/Clock No. <u>27566</u>
(E) Second Initial Flow Pressure <u>353</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>384</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>559</u>	PSI	Initial Opening <u>30</u>	Test <u>60000</u>
(H) Final Hydrostatic Mud <u>2433</u>	PSI	Initial Shut-In <u>60</u>	Jars <u>X 200</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative Rod Steinbrink

Final Flow 60 Safety Joint Y 30
 Final Shut-In 90 Straddle _____
 Circ. Sub 11/2
 Sampler 1. 200

Extra Packer _____
 Other 33 1/2" x 110" = 140"
 TOTAL PRICE \$ 11.5" x 140" = 1240



CUSTOMER

INVOICE DATE

09/02/92

DIRECT BILLING INQUIRIES TO 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO BJ SERVICES CO. USA P.O. BOX 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 059069
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AUTHORIZED BY 059069

PURCH. ORDER REF. NO.

HGB OIL CO

C/O SHARP ENGINEERING
BOX 122
HANOVER KS 67002

WELL NUMBER : 1

CUSTOMER NUMBER : 15097 - 1

LEASE NAME AND NUMBER BREWER	STATE 14	COUNTY/PARISH 14AB	CITY	DISTRICT NAME Oakley	DISTR. NO. 585
JOB LOCATION/FIELD NA	M/A DISTRICT		DATE OF JOB 09/02/92	TYPE OF SERVICE LAND-LONG STRING/PRODUCT	

PRODUC. NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100314	1.00	CEMENT CASING 2,500 TO 3,000 FEET	1100.00		1,100.00
10109005	80.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.47		197.60
10410504	455.00	CLASS "A" CEMENT	7.11	CF	3,235.05
10415018	245.00	FLY ASH	3.81	CFT	933.45
10420145	3700.00	BJ GEL, BENTONITE, PER POUND	0.15	LB	555.00
10422008	175.00	CELLO FLAKE	1.35	LB	236.25
10880001	761.70	MIXING SERVICE CHARGE DRY MATERIAL	1.16		883.57
10940101	2592.00	DRAYAGE, PER TON MILE	0.79		2,047.68
			SUBTOTAL		9,188.60
			DISCOUNT		2,572.81

ACCOUNT	1.0000% LOGAN 4.9000% KS-NEW WELL	3,571.02 3,571.02	35.71 174.97
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ORIGINAL

RECEIVED
NOV 15 1992
WICHITA, KANSAS

OK65

TAX EXEMPTION STATUS:	PAY THIS AMOUNT	6,826.47
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CUSTOMER

INVOICE DATE

08/19/92

DIRECT BILLING INQUIRIES TO:	TERMS:	REMIT TO:
713-895-5821	NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	BJ SERVICES CO. USA P.O. BOX 287476 HOUSTON, TX 77297

PAGE	INVOICE NO.
2	059062

AUTHORIZED BY
059062

PURCH. ORDER REF. NO.

HGB OIL CO

C/O SHARP ENGINEERING
BOX 122
HANOVER KS 67002

WELL NUMBER : 1

CUSTOMER NUMBER : 15097 - 1

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
BREWER	14	14A8		Oakley	585
JOB LOCATION/FIELD		MTA-DISTRICT	DATE OF JOB	TYPE OF SERVICE	
NA			08/19/92	LAND-LONG STRING/PRODUCT	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
10430520	1.00	5-1/2" TOP RUBBER PLUG	58.00 EA	58.00
10880001	156.00	MIXING SERVICE CHARGE DRY MATERIAL	1.16	180.96
10902505	1.00	ROTATING HEAD, WHEN USED WITH SJ-T	200.00	200.00
10902520	1.00	STANDARD CMT HEAD, PER JOB	58.00	58.00
10940101	592.00	DRAYAGE, PER TON MILE	0.79	467.68
			SUBTOTAL	8,490.52
			DISCOUNT	2,490.58

ACCOUNT	1.0000% LOGAN	4.417-00	44.17
	4.9000% KS-NEW WELL	4.417-00	216.43
<p>ORIGINAL</p> <p>NOV 5 1992</p> <p>Wichita, Kansas</p>			

TAX EXEMPTION STATUS:	PAY THIS AMOUNT	5,460.50
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KCC OIL/GAS REGULATORY OFFICE

DATE 9/2/92

OPERATOR HGB OIL CO. # 30605

NAME 1707 S JASMINE
& ADDRESS DENVER CO 80224

PHONE NO. OPER. OTHER

- New Situation
- Response to Request
- Follow-up

LOCATION SE SE NW, SEC 11, T 18 S, R 43 W

LEASE Brewer Well # 1

COUNTY Greeley API # 15-071-20,570

REASON FOR INVESTIGATION: Alternate II cementing completion

PROBLEM:

PERSON(S) CONTACTED:

FINDINGS: I arrived on location at 11 a.m. Ran tubing to 2657', opened port collar. B.J.

Services pumped in 700 sx cement with 1/4# floseal per sack. Rate 6 bbl. per minute at 150 psi. Cement did not circulate to pit. System locked up after all 700 sx put in. 750 psi. Shut down.

To run bond log and advise.

photos taken:

ACTION/RECOMMENDATIONS: Alternate II did not circulate cement. To run bond log.

RECEIVED
STATE CORPORATION COMMISSION

DEC 9 1992

Retain 1 copy Joint District Office
Send 1 copy Conservation Division

By Wichita, Kansas Steve Middleton

9/3/92

LEASE INSPECTION

COMPLAINT

FIELD REPORT

LEASE INSPECTION

- YES NONE COMMENTS
- I.D. Sign
 - Tank Battery ; Condition: good questionable overflowing
 - Pits, tank battery ; Fluid depth ___ft.; approx. size ___ft x ___ft
 - Pit, injection site ; Fluid depth ___ft.; approx. size ___ft x ___ft
 - Gas venting
 - Oil spill evidence
 - Saltwater evidence ; Surface flow _____; seepage _____
 - Saltwater pipelines ; Seepage visible Yes/No; tested for leaks Yes/No
 - Flowing holes
 - Abandoned wells
 - TA wells ; Potential poll. prob. _____; currently producing _____
 - SWD/ER Injection well ; Permit # _____ Pressure-actual _____psi, Authorized _____psi
 - SWD/ER Injection well ; Permit # _____ Pressure-actual _____psi, Authorized _____psi
 - SWD/ER Injection well ; Permit # _____ Pressure-actual _____psi, Authorized _____psi
 - SWD/ER Injection well ; Permit # _____ Pressure-actual _____psi, Authorized _____psi
 - Monitoring records
 - Gauge connections : tubing _____; T/C annulus _____; C/SP annulus _____
 - Gauge connections : tubing _____; T/C annulus _____; C/SP annulus _____
 - Gauge connections : tubing _____; T/C annulus _____; C/SP annulus _____
 - Gauge connections : tubing _____; T/C annulus _____; C/SP annulus _____

Lease cleanliness: very good _____ satisfactory _____ poor _____ very bad _____

Water samples taken _____

Reports prepared _____

+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+