

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 6759
Name William N. Bucklin
Address 150 California St., Suite 300
City/State/Zip San Francisco, CA 94111

Purchaser INLAND PWR & TRANSPORT

Operator Contact Person William Bucklin
Phone 415-433-7100

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist JOHN DAWSON
Phone 602-768-7519

Designate Type of Completion

- New Well
- Re-Entry
- Workover
- Oil
- Gas
- Dry
- SWD
- Inj
- Other (Core, Water Supply etc.)
- Temp Abd
- Delayed Comp.

If ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

- Mud Rotary
- Air Rotary
- Cable

10/24/87 11/1/87 11/18/87
 Spud Date Date Reached TD Completion Date
 4,375' 4350
 Total Depth PBD

Amount of Surface Pipe Set and Cemented at 251 feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set feet
 If alternate 2 completion, cement circulated from SURFACE feet depth to 1700 w/ 250 SX cmt

API NO. 15-135-23,180-00-00
 County Ness
 SE/4 SE/4 SE/4 19 17S 21W East
 Sec Twp Rge West

330 Ft North from Southeast Corner of Section
 330 Ft West from Southeast Corner of Section
 (Note: Locate well in section plat below)

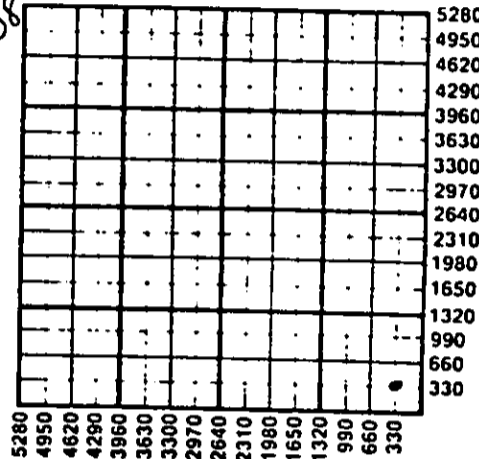
Lease Name Carl Stieben Well # 1

Field Name SCHOOLHOUSE NORTH WC

Producing Formation MISSISSIPPI

Elevation: Ground 2215 KB 2220
Section Plat

Rec'd
01-25-1988



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
 Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner
 (Well) Ft West from Southeast Corner of
 Sec Twp Rge East West

Surface Water 2000 Ft North from Southeast Corner
 (Stream, pond etc.) 1100 Ft West from Southeast Corner
 Sec 9 Twp 17S Rge 21 East West

Rob McGaughey, McCracken, KS 67556
 Other (explain)
 (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 *W. N. Bucklin*
 Title OPERATOR Date 1-18-88

Subscribed and sworn to before me this 18 day of Jan 1988
 Notary Public Mark P. Krinsky

Date Commission Expires
 OFFICIAL SEAL
 MARK P. KRINSKY
 NOTARY PUBLIC - CALIFORNIA
 CITY AND COUNTY OF SAN FRANCISCO
 My Commission expires Jan. 12, 1990

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
 C Wireline Log Received
 C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other
 (Specify)

Sec 9, Twp 17, Rge 21 W

Operator Name William N. Bucklin Lease Name Carl Stieben Well # 1

Sec. 19 Twp. 17S Rge. 21W East West County Ness

WELL LOG

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 Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST ENCLOSED

Name	Top	Bottom
HEEB	3678	
TOP	3699	
LANSING	3725	
BASE-KC.	3991	
MARM.	4032	
PAWNEE	4100	
FT SCOTT	4186	
CHEROKEE	4200	
MISS	4275	

DATE: NOV 25 1988
 DIVISION OF OIL AND GAS
 MINNAPOLIS, MINN.

CASING RECORD New & 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#	255'	60/40 Poz	160	2% Gel 3% CC
Production	7 7/8"	5 1/2"	15.5#	4372'	60/40 Poz	150	10% Salt, 3/4% CFRI, 7 1/2# per sack Gilsonite, 10 Bbl. WFR

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
7	4301-4304	250 GAL 15% MCA	4301-04

TUBING RECORD Size 2 3/8 Set At 4341 Packer at None Liner Run Yes No

Date of First Production 11/18/87 Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	50 Bbls	0 MCF	20 Bbls	CFPB	37

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify).....
 Used on Lease Dually Completed Commingled

STIEBEN
LEASE NAME

WELL NO

TEST NO

4276.0 - 4325.0
TESTED INTERVAL

HILLIEM N. BUCKLIN III
LEASE OWNER / COMPANY NAME

LEGAL LOCATION
SEC. - TWP. - RNG. 19 - 17 SOUTH - 21 WEST

FIELD AREA

COUNTY

NESS

STATE KANSAS

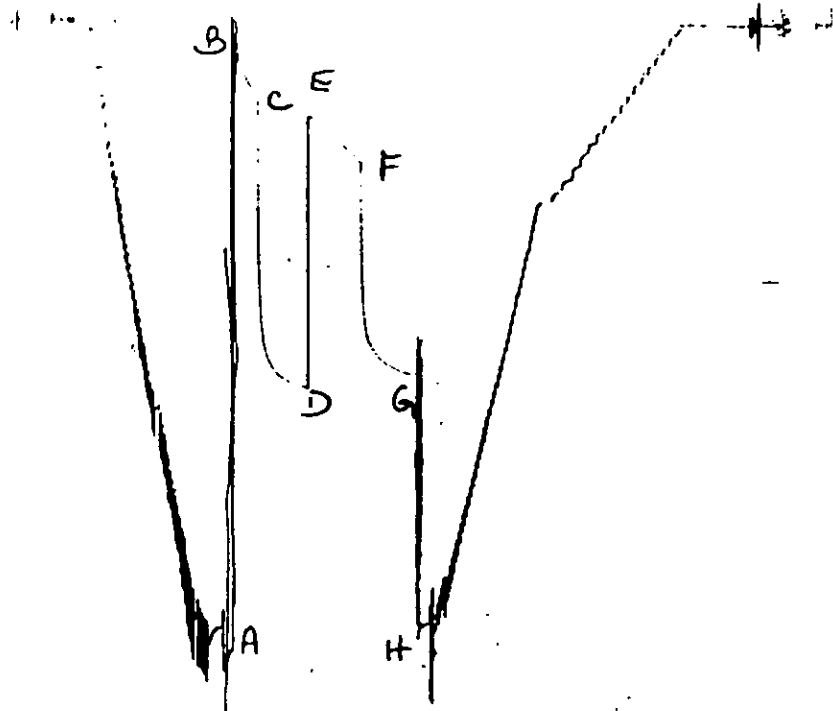
PF



HALLIBURTON SERVICES

TICKET NO. 62045400
09-NOV-87
NESS CITY

FORMATION TESTING SERVICE REPORT



620454-1890

GAUGE NO: 1890 DEPTH: 4255.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2034	2048.9			
B	INITIAL FIRST FLOW	81	77.0			
C	FINAL FIRST FLOW	271	284.5	15.0	14.5	F
C	INITIAL FIRST CLOSED-IN	271	284.5			
D	FINAL FIRST CLOSED-IN	1222	1223.2	30.0	28.3	C
E	INITIAL SECOND FLOW	307	312.4			
F	FINAL SECOND FLOW	452	457.8	30.0	28.4	F
F	INITIAL SECOND CLOSED-IN	452	457.8			
G	FINAL SECOND CLOSED-IN	1177	1180.4	30.0	31.5	C
H	FINAL HYDROSTATIC	2025	2030.8			



GAUGE NO. 1891 DEPTH: 4322.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC		2059.4			
B	INITIAL FIRST FLOW		103.2	15 0	14 5	F
C	FINAL FIRST FLOW		288.7			
D	INITIAL FIRST CLOSED-IN		288.7	30 0	29 3	C
E	FINAL FIRST CLOSED-IN		1245.2			
F	INITIAL SECOND FLOW		318.5	30 0	29 4	F
G	FINAL SECOND FLOW		487.5			
H	INITIAL SECOND CLOSED-IN		487.5	30 0	31 5	C
I	FINAL SECOND CLOSED-IN		1203.4			
J	INITIAL THIRD FLOW		2045.4			
K	FINAL THIRD FLOW					
L	FINAL HYDROSTATIC		2045.4			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPIAN

NET PAY (ft): 18.0

GROSS TESTED FOOTAGE: 49.0

ALL DEPTHS MEASURED FROM: KB

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): _____

TOTAL DEPTH (ft) 4325.0

PACKER DEPTH(S) (ft): 4270, 4276

FINAL SURFACE CHOKE (in) _____

BOTTOM HOLE CHOKE (in) 0.750

MUD WEIGHT (lb/gal): 9.40

MUD VISCOSITY (sec): 52

ESTIMATED HOLE TEMP. (°F): 120

ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 62045400

DATE: 11-1-87 TEST NO: 1

TYPE DST: OPEN HOLE

HALLIBURTON CAMP: _____
NESS CITY

TESTER: B. CROSEWHITE

WITNESS: WILLIAM BUCK, JR.

DRILLING CONTRACTOR: _____
RED TIGER #2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: _____

cu. ft. OF GAS: _____

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: _____

TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API) 35.6 @ 60 °F

GAS/OIL RATIO (cu. ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED :

340 FEET OF GAS IN PIPE

92 FEET OF OIL CUT MUD 44% OIL - 56% MUD

62 FEET OF MUD CUT OIL 82% OIL - 18% MUD

992 FEET OF CLEAN GAS & OIL

(RECOVERY CONTINUED).....

MEASURED FROM TESTER VALVE

REMARKS :

- RECOVERY CONTINUED -

62 FEET OF HEAVY OIL CUT WATERY MUD (60% OIL - 8% WATER - 32% MUD)

1208 FEET OF TOTAL FLUID RECOVERY

TICKET NO: 62045400

CLOCK NO: 3121 HOUR: 12



GAUGE NO: 1890

DEPTH: 4255.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0 0	77.0		
	2	3 0	110.1	33 2	
	3	6 0	163 3	53 2	
	4	9 0	190 2	34 5	
	5	12 0	235 0	36 7	
C	5	14 0	254 5	29 5	
FIRST CLOSED-IN					
C	1	0 0	254 5		
	2	2 0	971 3	705 8	1 8 0 917
	3	4 0	1073 3	805 7	3 1 0 572
	4	6 0	1121 5	857 0	4 2 0 538
	5	8 0	1147 4	882 5	5 2 0 453
	5	10 0	1155 4	900 5	5 3 0 391
	7	12 0	1178 9	914 2	6 5 0 345
	8	14 0	1188 8	924 2	7 2 0 311
	9	16 0	1195 1	931 5	7 5 0 282
	10	18 0	1202 8	938 2	8 1 0 258
	11	20 0	1207 7	943 2	8 4 0 239
	12	22 0	1212 3	947 5	8 5 0 221
	13	24 0	1216 0	951 5	9 1 0 207
	14	25 0	1219 0	954 4	9 4 0 194
	15	28 0	1222 0	957 4	9 5 0 182
D	15	29 3	1223 2	958 7	9 8 0 175
SECOND FLOW					
E	1	0 0	309.4		
	2	5 0	331.1	21 7	
	3	10 0	356.4	25 3	
	4	15 0	379.9	23 5	
	5	20 0	406.7	25 5	
	5	25 0	433.5	25 7	
F	7	29 4	457.8	24 4	
SECOND CLOSED-IN					
F	1	0.0	457.8		
	2	2.0	983.6	525.8	1.9 1.357
	3	4.0	1050.7	592.9	3.7 1.075
	4	6.0	1082.4	624.6	5.3 0.920
	5	8.0	1103.5	645.7	6.8 0.812
	6	10.0	1119.2	661.4	8.2 0.732
	7	12.0	1130.5	672.7	9.4 0.670
	8	14.0	1139.4	681.6	10.6 0.618
	9	16.0	1147.2	689.4	11.7 0.574
	10	18.0	1153.1	695.3	12.8 0.530
	11	20.0	1159.2	701.4	13.0 0.505

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	12	22 0	1164.4	706.6	14 7 0.477
	13	24 0	1168.1	710.3	15 5 0.453
	14	26 0	1171.6	713.8	16 4 0.430
	15	28 0	1175.6	717.8	17 1 0.410
	16	30 0	1178.6	720.7	17 9 0.393
G	17	31 5	1180.4	722.6	18 4 0.379

REMARKS:

TICKET NO: 52045400

CLOCK NO: 27315 HOUR: 12



GAUGE NO: 1891

DEPTH: 4322.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
FIRST FLOW					
B	1	0 0	103.2		
	2	3 0	153.1	49.9	
	3	6 0	209.6	56.5	
	4	9 0	235.3	25.7	
	5	12 1	272.1	36.8	
C	5	14 5	299.7	27.6	

FIRST CLOSED-IN

C	1	0 0	299.7		
	2	2 0	1021.4	721.7	1.8 0.920
	3	4 0	1114.5	814.8	3.1 0.669
	4	6 0	1157.2	857.5	4.3 0.535
	5	8 0	1180.2	880.5	5.2 0.452
	6	10 0	1196.1	896.4	5.9 0.392
	7	12 0	1207.9	908.2	5.5 0.345
	8	14 0	1218.4	916.7	7.2 0.311
	9	16 0	1222.9	923.2	7.5 0.282
	10	18 0	1227.7	928.0	8.1 0.259
	11	20 0	1232.6	932.9	8.4 0.236
	12	22 0	1235.5	935.9	8.9 0.221
	13	24 0	1239.2	939.5	9.1 0.206
	14	25 0	1241.9	942.2	9.4 0.194
	15	28 0	1243.8	944.1	9.5 0.183
D	15	29 5	1245.2	945.5	9.9 0.175

SECOND FLOW














E	1	0 0	318.5		
	2	5 0	360.8	42.3	
	3	10 0	386.0	25.2	
	4	15 0	410.7	24.6	
	5	20 0	437.4	26.7	
	6	25 0	454.7	27.2	
F	6	25 4	487.5	22.8	

SECOND CLOSED-IN

F	1	0 0	487.5		
	2	2 0	1012.3	524.8	1.9 1.352
	3	4 0	1080.0	592.6	3.7 1.091
	4	6 0	1114.4	627.0	5.3 0.920
	5	8 0	1134.0	646.6	6.8 0.813
	6	10 0	1147.7	660.2	8.2 0.733
	7	12 0	1158.5	671.1	9.5 0.668
	8	14 0	1167.4	679.9	10.6 0.617
	9	16 0	1173.9	686.5	11.7 0.574
	10	18 0	1179.6	692.1	12.8 0.538
	11	20 0	1184.9	697.5	13.9 0.505

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t + \Delta P}$	$\log \frac{t + \Delta P}{\Delta P}$
SECOND CLOSED-IN - CONTINUED					
	12	22.0	1188.7	701.2	14.7 0.478
	13	24.0	1191.9	704.5	15.5 0.453
	14	26.0	1195.7	708.2	15.4 0.430
	15	28.0	1198.3	710.9	17.1 0.410
	16	30.0	1201.5	714.0	17.9 0.392
G	17	31.5	1203.4	715.9	18.4 0.379

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH
1	 DRILL PIPE.....	4.500	3.825	4117.0	
50	 IMPACT REVERSING SUB.....	5.000	2.750	1.0	4117.0
1	 DRILL PIPE.....	4.500	3.825	124.0	
5	 CROSSOVER.....	5.000	2.750	1.0	
12	 DUAL DIP VALVE	5.000	6.870	5.0	
60	 HYDROSPRING TESTER	5.000	6.750	5.0	4253.0
80	 AP RUNNING CASE	5.000	2.250	4.0	4253.0
15	 JAR	5.000	1.750	5.0	
15	 VR SAFETY JOINT	5.000	1.600	3.0	
70	 OPEN HOLE PACKER.	6.750	1.530	5.0	4270.0
70	 OPEN HOLE PACKER.	6.750	1.530	5.0	4275.0
20	 FLUSH JOINT ANCHOR	5.000	2.370	43.0	
81	 BLACKED-OFF RUNNING CASE	5.000		4.0	4322.0

TOTAL DEPTH-

4325.0

EQUIPMENT DATA