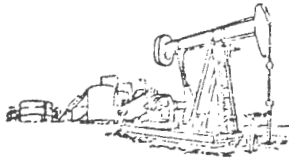


AUG 7 1979



# Oil Property Management, Inc.

Insurance Building

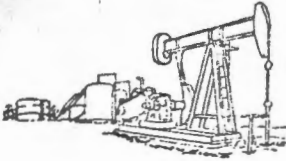
Wichita, Kansas 67202

## WORKOVER REPORT

SWDW

Zero Point	: 5' ab G. L.	Re: Stiawalt #3
Total Depth	: 4900'	C SW NW Sec. 20-17S-24W
5½" Casing @	: 4753' with 400 Sax	Ness County, Kansas
Stage Collar @	: 1738' with 275 Sax - Circulated	
Baker Packer @	: 4706' - Plastic coated	

- 6-30-79 - Thunderbird Cable Tools moved in and pulled the tubing and rods. Laid the rods down in singles. S.D.
- 7- 2-79 - Run Halliburton's RTTS packer in on two inch EUE tubing. Set packer at 4225'. Loaded annulus with 74 barrels - pressured up to 1000 psi. Held. Take an injection rate down the tubing - 3½ BPM at an applied pressure of 800 psi. Re-pressure the annulus to 700 psi - held. Commence squeeze with 100 sax of 60-40 type A with 10% salt. Maximum applied pressure 2500 psi. Squeezed 25 sax into the formation. Re-pressured squeeze to 2000 psi applied pressure - held. Release packer and reverse out the cement. Wash down with two more joints of tubing and circulate clean. Re-set packer and test squeeze with 500 psi of applied pressure - held. Pull the tubing and packer. S.D. Attached herewith as part of this report is Halliburton's job log.
- 7- 3-79 - Commenced drilling out and the drilling line parted at the drum, losing 4700' of 3/4" line at 12:30 P.M. Thunderbird to recover the line and tools at their expense.
- 7- 6-79 - Commenced drilling again at 1:00 P.M. Drilled up the remainder of the D.V. tool and 20' of cement. S.D.
- 7- 7-79 - Drilled 60' of cement and the rubber pump-down plug - to a depth approximately 20' into the shoe joint.
- 7- 9-79 - Drilled out 15' of cement and the shoe joint. Made four more feet and ran bailer in to check the total depth....which was 4757'.
- 7-10-79 - Drilled ahead 13 more feet. Ran bailer six times trying to clean up, recovering iron and rubber. Not drilling ahead well. Total depth now 4770'.
- 7-11-79 - Commence drilling with Acme Tool's power swivel and mud pump. Ran a 4-7/8" bit on 2" tubing. Drilling out very hard cement to approximately 4800'. Ran bit on down to 4900' and circulated for two hours cleaning up. Recovered about a 100 gallons of cement and formation. Pulled the bit back into the formation and shut down.
- 7-12-79 - Halliburton loaded the well and took an injection rate thru the tubing. 3 BPM at 600 psi. Acidized thru the tubing with 3,000 gallons of 15% HCL. Maximum applied pressure on the tubing was 1200 psi. Annulus was on a vacuum. Upon completing treatment well on an instant vacuum. Overall injection rate 4.7 BPM. Pulled the tubing. Attached herewith as part of this report is Halliburton's job log.



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7-13-79 - Tried to run cable tool 4-7/8" bit to bottom - hung up. Didn't want to drill to bottom. Possibility of getting hung up in open hole. Ran a 3-7/8" bit to bottom. Traveled freely all the way. Rigged up to run 2 1/2", new, EUE, API tubing. Plastic lined by Rice Engineering. Baker Lok-Set Packer on bottom. Packer set at 4706'. Loaded annulus with Gordon Lab's Sodium Bichromate and fresh water. Note, Lok-Set packers are set and released with right-hand rotation. Attached herewith as part of this report as Baker's instruction for operating this packer. Swabbed casing for 2 1/2 hours cleaning up. Fluid level stayed at 1300' from the surface. Injection test - 80 barrels of salt water in 30 minutes on a 20 point vacuum. The annular capacity above the packer is 74 barrels.

Prepared from the field notes of Arnold Horner.

*W. H. Peachee*  
W. H. Peachee



WDC Stiawalt #3  
 C SW NW Sec. 20-17S-24W  
 Ness County, Kansas

8-9-78 (cont'd)

Mississippian structure comparisons:

Stiawalt #1 -1986'  
 Schaben #4 -1944'  
 Ummel #2 (Palomina) -1951'  
 Schaben #1 " " -1990'

8-10-78

9:30 a.m. drilling at 4735'

Time	Depth (ft)	Remarks
9:30	4735	Start of drilling
9:35	4740	...
9:40	4745	...
9:45	4750	...
9:50	4755	...
9:55	4760	...
10:00	4765	...
10:05	4770	...
10:10	4775	...
10:15	4780	...
10:20	4785	...
10:25	4790	...
10:30	4795	...
10:35	4800	...
10:40	4805	...
10:45	4810	...
10:50	4815	...
10:55	4820	...
11:00	4825	...
11:05	4830	...
11:10	4835	...
11:15	4840	...
11:20	4845	...
11:25	4850	...
11:30	4855	...
11:35	4860	...
11:40	4865	...
11:45	4870	...
11:50	4875	...
11:55	4880	...
12:00	4885	...
12:05	4890	...
12:10	4895	...
12:15	4900	...
12:20	4905	...
12:25	4910	...
12:30	4915	...
12:35	4920	...
12:40	4925	...
12:45	4930	...
12:50	4935	...
12:55	4940	...
1:00	4945	...
1:05	4950	...
1:10	4955	...
1:15	4960	...
1:20	4965	...
1:25	4970	...
1:30	4975	...
1:35	4980	...
1:40	4985	...
1:45	4990	...
1:50	4995	...
1:55	5000	...
2:00	5005	...
2:05	5010	...
2:10	5015	...
2:15	5020	...
2:20	5025	...
2:25	5030	...
2:30	5035	...
2:35	5040	...
2:40	5045	...
2:45	5050	...
2:50	5055	...
2:55	5060	...
3:00	5065	...
3:05	5070	...
3:10	5075	...
3:15	5080	...
3:20	5085	...
3:25	5090	...
3:30	5095	...
3:35	5100	...
3:40	5105	...
3:45	5110	...
3:50	5115	...
3:55	5120	...
4:00	5125	...
4:05	5130	...
4:10	5135	...
4:15	5140	...
4:20	5145	...
4:25	5150	...
4:30	5155	...
4:35	5160	...
4:40	5165	...
4:45	5170	...
4:50	5175	...
4:55	5180	...
5:00	5185	...
5:05	5190	...
5:10	5195	...
5:15	5200	...
5:20	5205	...
5:25	5210	...
5:30	5215	...
5:35	5220	...
5:40	5225	...
5:45	5230	...
5:50	5235	...
5:55	5240	...
6:00	5245	...
6:05	5250	...
6:10	5255	...
6:15	5260	...
6:20	5265	...
6:25	5270	...
6:30	5275	...
6:35	5280	...
6:40	5285	...
6:45	5290	...
6:50	5295	...
6:55	5300	...
7:00	5305	...
7:05	5310	...
7:10	5315	...
7:15	5320	...
7:20	5325	...
7:25	5330	...
7:30	5335	...
7:35	5340	...
7:40	5345	...
7:45	5350	...
7:50	5355	...
7:55	5360	...
8:00	5365	...
8:05	5370	...
8:10	5375	...
8:15	5380	...
8:20	5385	...
8:25	5390	...
8:30	5395	...
8:35	5400	...
8:40	5405	...
8:45	5410	...
8:50	5415	...
8:55	5420	...
9:00	5425	...
9:05	5430	...
9:10	5435	...
9:15	5440	...
9:20	5445	...
9:25	5450	...
9:30	5455	...
9:35	5460	...
9:40	5465	...
9:45	5470	...
9:50	5475	...
9:55	5480	...
10:00	5485	...
10:05	5490	...
10:10	5495	...
10:15	5500	...
10:20	5505	...
10:25	5510	...
10:30	5515	...
10:35	5520	...
10:40	5525	...
10:45	5530	...
10:50	5535	...
10:55	5540	...
11:00	5545	...
11:05	5550	...
11:10	5555	...
11:15	5560	...
11:20	5565	...
11:25	5570	...
11:30	5575	...
11:35	5580	...
11:40	5585	...
11:45	5590	...
11:50	5595	...
11:55	5600	...
12:00	5605	...
12:05	5610	...
12:10	5615	...
12:15	5620	...
12:20	5625	...
12:25	5630	...
12:30	5635	...
12:35	5640	...
12:40	5645	...
12:45	5650	...
12:50	5655	...
12:55	5660	...
1:00	5665	...
1:05	5670	...
1:10	5675	...
1:15	5680	...
1:20	5685	...
1:25	5690	...
1:30	5695	...
1:35	5700	...
1:40	5705	...
1:45	5710	...
1:50	5715	...
1:55	5720	...
2:00	5725	...
2:05	5730	...
2:10	5735	...
2:15	5740	...
2:20	5745	...
2:25	5750	...
2:30	5755	...
2:35	5760	...
2:40	5765	...
2:45	5770	...
2:50	5775	...
2:55	5780	...
3:00	5785	...
3:05	5790	...
3:10	5795	...
3:15	5800	...
3:20	5805	...
3:25	5810	...
3:30	5815	...
3:35	5820	...
3:40	5825	...
3:45	5830	...
3:50	5835	...
3:55	5840	...
4:00	5845	...
4:05	5850	...
4:10	5855	...
4:15	5860	...
4:20	5865	...
4:25	5870	...
4:30	5875	...
4:35	5880	...
4:40	5885	...
4:45	5890	...
4:50	5895	...
4:55	5900	...
5:00	5905	...
5:05	5910	...
5:10	5915	...
5:15	5920	...
5:20	5925	...
5:25	5930	...
5:30	5935	...
5:35	5940	...
5:40	5945	...
5:45	5950	...
5:50	5955	...
5:55	5960	...
6:00	5965	...
6:05	5970	...
6:10	5975	...
6:15	5980	...
6:20	5985	...
6:25	5990	...
6:30	5995	...
6:35	6000	...
6:40	6005	...
6:45	6010	...
6:50	6015	...
6:55	6020	...
7:00	6025	...
7:05	6030	...
7:10	6035	...
7:15	6040	...
7:20	6045	...
7:25	6050	...
7:30	6055	...
7:35	6060	...
7:40	6065	...
7:45	6070	...
7:50	6075	...
7:55	6080	...
8:00	6085	...
8:05	6090	...
8:10	6095	...
8:15	6100	...
8:20	6105	...
8:25	6110	...
8:30	6115	...
8:35	6120	...
8:40	6125	...
8:45	6130	...
8:50	6135	...
8:55	6140	...
9:00	6145	...
9:05	6150	...
9:10	6155	...
9:15	6160	...
9:20	6165	...
9:25	6170	...
9:30	6175	...
9:35	6180	...
9:40	6185	...
9:45	6190	...
9:50	6195	...
9:55	6200	...
10:00	6205	...
10:05	6210	...
10:10	6215	...
10:15	6220	...
10:20	6225	...
10:25	6230	...
10:30	6235	...
10:35	6240	...
10:40	6245	...
10:45	6250	...
10:50	6255	...
10:55	6260	...
11:00	6265	...
11:05	6270	...
11:10	6275	...
11:15	6280	...
11:20	6285	...
11:25	6290	...
11:30	6295	...
11:35	6300	...
11:40	6305	...
11:45	6310	...
11:50	6315	...
11:55	6320	...
12:00	6325	...
12:05	6330	...
12:10	6335	...
12:15	6340	...
12:20	6345	...
12:25	6350	...
12:30	6355	...
12:35	6360	...
12:40	6365	...
12:45	6370	...
12:50	6375	...
12:55	6380	...
1:00	6385	...
1:05	6390	...
1:10	6395	...
1:15	6400	...
1:20	6405	...
1:25	6410	...
1:30	6415	...
1:35	6420	...
1:40	6425	...
1:45	6430	...
1:50	6435	...
1:55	6440	...
2:00	6445	...
2:05	6450	...
2:10	6455	...
2:15	6460	...
2:20	6465	...
2:25	6470	...
2:30	6475	...
2:35	6480	...
2:40	6485	...
2:45	6490	...
2:50	6495	...
2:55	6500	...
3:00	6505	...
3:05	6510	...
3:10	6515	...
3:15	6520	...
3:20	6525	...

WDC Stiawalt #3  
C SW NW Sec. 20-17S-24W  
Ness County, Kansas

8-9-78 (cont'd)

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8-10-78 9:30 a.m. drilling at 4735'. Drilled to RTD 4900' Logged Well.  
8-II-78 Finished logging and ran 5½" 15.5# Casing @ 4753' - 147' off bottom.  
138 jts. set w/150 sacks cement. (used casing)

8

2 1

Stiawalt #3  
NW Sec. 20-17S-24W  
ess County, Kansas

SEP 8 1978

8-9-78 (cont'd)

Mississippian structure comparisons:

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- 8-11-78 Finished logging and ran 5½" 15.5# Casing @ 4753' - 147' off bottom.  
138 jts. set w/150 sacks cement. (used casing)
- 9-1-78 Thunderbird MICT. Swabbed hole down - drilled out DV tool (Cedar Hills sand) - drilled slow. Halliburton lost lead plumb bob in hole checking last plug. Had to drill it up. Found lower cement near 4600'. Had kickback in casing 119 feet. Cement hard - did not drill it.
- 9-2-78 Perf. 4254-4258, 3 jet shots per foot. 3:00 p.m. had one 30 minute test - show of gas, 20 gal muddy water w/specks of oil. Did not have time to acidize. Shut down for Sunday and Monday.
- 9-5-78 Fillup = 600' = 15 bbls/40 hours. Swabbed down = 13 BO, 1 bbl muddy oil, trace water. Preparing to treat w/500 gals MCA. 2:15 p.m. well treated. Acid all in - 500 gals, on vacuum. Overflush 1 bbl - 50 psi on overflush. Commence swabbing load back 1:45 p.m. Results of swabbing to be reported later today.
- 9-6-78 Fillup = 1700' in 15 hours = all oil. Ran bailer once to bottom recovering 10 gals water. Swabbed down to 3300' from surface. All tests are from this same depth:
- |                   |          |           |
|-------------------|----------|-----------|
| 10:05-11:05 a.m.  | 12.85 BO | no water  |
| 11:05-12:05 p.m.  | 8.52 BO  | no water  |
| 12:05 - 1:05 p.m. | 8.52 BO  | no water. |
- Ran bailer three times to clean up any acid water on bottom since using tubing catcher. Ran tubing and rods.
- 9-7-78 Stremel moving in 160 pumping unit. Mohr building well grade and laying lead line.

Elevations 2395 GR  
KB  
DF

WELL NAME: STIAWALT (#1354-Misc.)

LOCATION: SW/4 NW/4 Section 20-17S-24W, Ness County, Kansas

COMMENCED: COMPLETED: TOTAL DEPTH: FORM:

SURFACE CASING: LOG:

CONTRACTOR: Slawson Drilling Company, Inc. *High phone: 264-7753* DST:

PRODUCTION CASING: *Burke & Brainfield*

STATE TEST:

FIRST OIL SALES: Geologist: Gerald Becker *9/13/798-2546*

*References: Burlington Hotel - Ness City <sup>Em!</sup> 9/13/798-3254*

*Run. 36*

WNB - 265-2667; Gutru - 265-3402; Bethryn - 267-7592; Peachee - 262-0841

Arnold Homer - 357-8570 (Bill Rowe: Res. 793-8255; Yard 793-3561; Mobile 792-1019)

FORMATION	TOP	DATUM	COMPARISON	1978 DAILY DRILLING REPORTS
Anhydrite	1673	+722	-1' #1 Strimatt	8-1 MIRT
B/Anhydrite	1705	+690	#1	8-2 Spudded 10:30 a.m. Cut 605' 12 1/2" hole.
Heebner	3717	-1322		
Lansing	3760	-1365		
B/KC	4050	-1655	-4' #1 Strimatt -13' #4 Schaken -11' Palo. Hummel #2	Raw 18 jts. mud 24# (715.51') 8-5 1/8" set @ 721' w/450 sup. 60-40 pazmix (2% gel - 3% CaCl) Under surface 9 pm. 8-3 Drlg. @ 1470'. Mud costs: \$ 314.00.
Fort Scott	4256	-1861		
Cherokee	4282	-1897		
Mississippian	<del>4352</del> 4317	<del>-1957</del> -1926		
Kinderhook	4525	-2130		8-4 Drlg. @ 2639'. Vis. 31, Wt. 9.3. Mud Costs: 659.00
Viola porosity	4660			
O sage	4451'	-2056		8-5 SAT=3150'
Top of Cedar	4614			8-6 Drlg. @ 3895'
Simpson	4755'	-2360		8-7 Drlg. @ 4115'. Vis. 48, 9.1 wt, 11.2. Wt. loss, 18,500 chlorides. Geologist @ location.
Arbuckle	4763'	-2368		
RTD	4900'			
LOG TOPS			LOG TOPS	
HEEBNER	3714'	-1319	Viola 4661' -2266	8-8 9:20 am coming out of hole w/OST #1
LANSING	3755'	-1360	Simpson 4758' -2363	4235-90 (FS) 30"/45"/60"/60".
Bar K.C.	4047'	-1652	Simpson 4760-64 -2365	GTS in 5" second opening
Pawnee	4174	-1779	Arbuckle 4766 -2371	Stabilized @ 7.88 mcf
Fort Scott	4253	-1858	LTD 4899	St. Scott structure: -1858 Strimatt #1
Viola shale	4278	-1883		-1847 Schaken #4
Misc.	4349	-1954		Gal -1852 Palomina Hummel #2
O sage	4450	-2055		1870 " " " " "
Arbuckle	4522	-2127		
Viola	4648	-2203		

8-8 (cont'd) pipe strap 4286.42 - board showed 4290.68  
(will not apply correction @ this point).

Call from Becker - have 1302' fluid (oil) (41 Grav. Corrected.)

Out of DST #1 12:50 noon; rec. 682' free oil = 9.47 bbls.,

620' mud cut oil = 3.38 bbls (71% oil, 27 1/2% mud, 1 1/2% water)

IFP 115-161#, FFP's 368-483#, Lips 986-724#, 118° BHT, 41° Grav.

8-9 No Cherokee sand section found DST #2 4363-4375 (Miss)

30"/30"/30"/30", very weak blow - did in 18 minutes.

Flushed tool on second opening - no help. Rec. 30' sh oil.

Cut mud, IFP's 46-46#, FFP's 46-46#, Lips 685-729#

BH Temp. 121°. Going back in hole - head for Arkansas

Mississippi Structure Comparisons:

Stewart #1	- 1981'
Schalen #4	- 1944'
Palomino Ummel #2	- 1951'
Palomino Schalen #1	- 1990'

8-10 9:30 am Delg. @ 4735'. Driller wants to trip but  
@ 4750. James to discuss w/ Rowe and see if he  
can change his mind. Trip TD @ 5:50 PM

8/10-11 9:55 PM - 12:30 AM LOGGING

8-11 2:00 AM ON BOTTOM. LAY DOWN DRILL PIPE 3:45 AM - 6:45 AM

Run used 5 1/2" pipe Uir 55 93 wt. 134 water loss 10.000 Cherokee

4 09087 Mud Cost RTD 4900 LTD 4899

Set 5 1/2" 15.5# Csg @ 4753' (138 yds) w/ 150 lbs. to 16 7/8" cut

270 gals. Shuff. @ 3200 cut @ 4717

DATE  
1978

DESCRIPTION OF WORK

REF. VO. NO.

Aug.

Drilled as produced & ~~land into~~ <sup>concrete</sup> SWD. RTD 4900' LTD 4899  
See drg. report opposite. 5 1/2" 15.5# mud cgl. set @ <sup>4753</sup> ~~4779~~' (138 yds)  
on 8/11/78.

Sept.

Completed 1st test pump. Run 1/2 rods, see diagram  
that will be pumping 9/18/78. Hooked up to its own gas state test  
63.57 bbls (24 hrs)

Nov. 1978

Put 114 Topkin #1 on this #3. Moved #2 C96 engine over  
put on well #3 after we electrified #2 in Oct

DATE	DESCRIPTION OF WORK	REF. VO. NO.
6/15/79	Leacher purchased 22' x 8' 2" bottom SW (wooden tank) from Mid States. Tank guaranteed from Mid States by letter on opposite side	
✓	Purchased 152 lbs of 2 7/8" 6.5# 5-55 Japanese T-17 from Fred Black (view # 4865-20) hauled to Rice Engineering to be declined. Ticket <sup>to tally</sup> opposite side	
7/17/79	Wheel put in operation @ 11:30 a.m. on 7/17/79. Thunderline cable tools.	

October 1980

Waters Drilling Co Inc.

			Hantz B1	Chance Pump
1/8	Tubing			1-15-1980
138	Gts @	4307.20	Pump 1 1/2 X 12	
-30-80	64 Struck		6 1/2 Struck min	
	Total Fluor	6.29 = oil	4.91	Water 1.38
13/8	Tubing		Schobert C-1	December 15-1985
141	Gts @	141 = 4344 =	Pump 1 1/2 X	
	54 Struck		8 Struck min	
1/23-80	Total Fluor	82.3 = oil	16.46 =	Water 65.84
3/8	Tubing		Schobert D-1	July 26-1980
139	Gts @	4336.70 =	Pump 1 1/2 X 12	2 @ 1266
-30-80	54 Struck		8 Struck min	
	Total Fluor	8.72 = oil	8.72 =	no Water
148	Gts	2 1/2	X Stewart #3-SWD	
	Pack 28		Dualin tubing	
			Packers total	4225

September 7-19

Shawalt # 3  
S W/4 NW/4 Section  
20-17S-24-W

167  $\frac{3}{4}$  rods new anchor  
S-87

4

6 rods sub new  
16 ft. Palish rod

135 new tubing  $2\frac{3}{8}$

135 — 4186.04

Sub — 1000

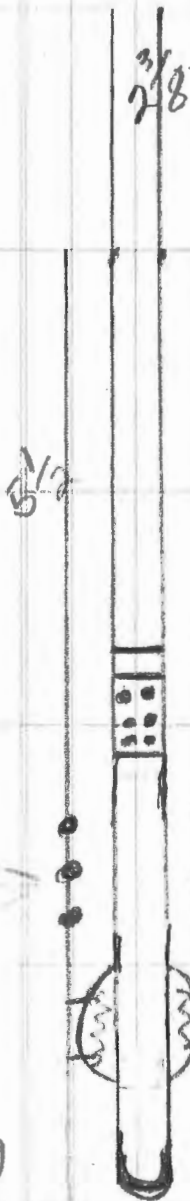
Sub — 600

4202.04

2<sup>nd</sup> rod sub Top Pump  
Pump Top Hold  
2" X 1 $\frac{1}{2}$ " X 12"

Prebb = 4254 + 4258  
5 $\frac{1}{2}$  casing

Rotate tubing to left  
heel to right to setting  
tubing anchor



→ 1.26 Seating Top  
3-13 Prebb 11 11

→ 1 Jts tubing 30.27

→ 1.5 1/2 to 2 3/8 = 4.27  
Luberson tubing anchor catches

→ mud anchor = 7.85  
Plugged on end

Tubing string 4248.82  
to ground at 7

Plug at 4594

5 $\frac{1}{2}$  casing set at 4753

T-D P.H. Driller 4900

1978  
Whole