WELL HISTORY
WESTERN DRILLING COMPANY OF LONGVIEW
GULF FEDERAL NO. 1

Date:

February 2, 1960 Moved in and rigged up rotary rig. Spudded 12¼" surface hole at 5:00 P. M. Texas Time. Drilled 182' - Red Clay, Sand & Surface Rock. Drilled W/clear water.

3 Drilled to 367' TD surface hole - Sand & Shale; ¼ degree @ 245'; ran 11 jts. of 8-5/8" J-55 24# R-2 8 Rd. Thd. Casing & 1' Texas Pattern Shoe set at 352'. Cemented W/235 sax regular neat cement by HOWCO - Plug down at 2:00 P. M. - Cement circulated.

4 W.O.C. - Backed out landing joint & nippled up; drilled out cement - tested cement 500# pressure - O. K.; drilled to 825' in Shale & Red Bed - ½ degree at 700'.

5 2223' - drilled ahead in Red Bed, Shells, Shale & Sand - ¼ degree at 2143' - Mud Wt. 8.6 - Viscosity 36.

6 2973' - drilling ahead in Anhydrite, Red Bed, Shells & Gyp; 1 degree at 2845' - Mud Wt. 10 - Viscosity 34.

7 3582' - drilling ahead in Anhydrite, Gyp & Salt Streaks; 1 degree at 3329'- Mud Wt. 10.4 - Viscosity 33.

8 4046' - drilling ahead in Anhydrite, Lime & Gyp; ½ degree at 3805' - Mud Wt. 10.2 - Viscosity 31.

9 4208' - Anhydrite, Gyp & Shale; 0 degrees at 4100'; Mud Wt. 10.5 - Viscosity 34; started making trip for bit - stuck pipe at 1851'.

10 Working stuck pipe - spotted 50 bbls. lease oil at 1851' - pipe loose @ 9:00 A. M.; finished pulling out of hole - drilled to 4270' in Anhydrite, Gyp & Shale; ¼ degree at 4200' - Mud Wt. 10.1 - Viscosity 38.

11 4417' - drilling ahead in Lime, Anhydrite & Shale; ½ degree at 4396' - Mud Wt. 9.4 - Viscosity 40.

12 4608' - drilling ahead in Lime and Dolomite - Mud Wt. 9.4 - Viscosity 36.

13 4781' - drilling ahead in Lime; reamed and washed 45' to bottom - Mud Wt. 9.5 - Viscosity 37.

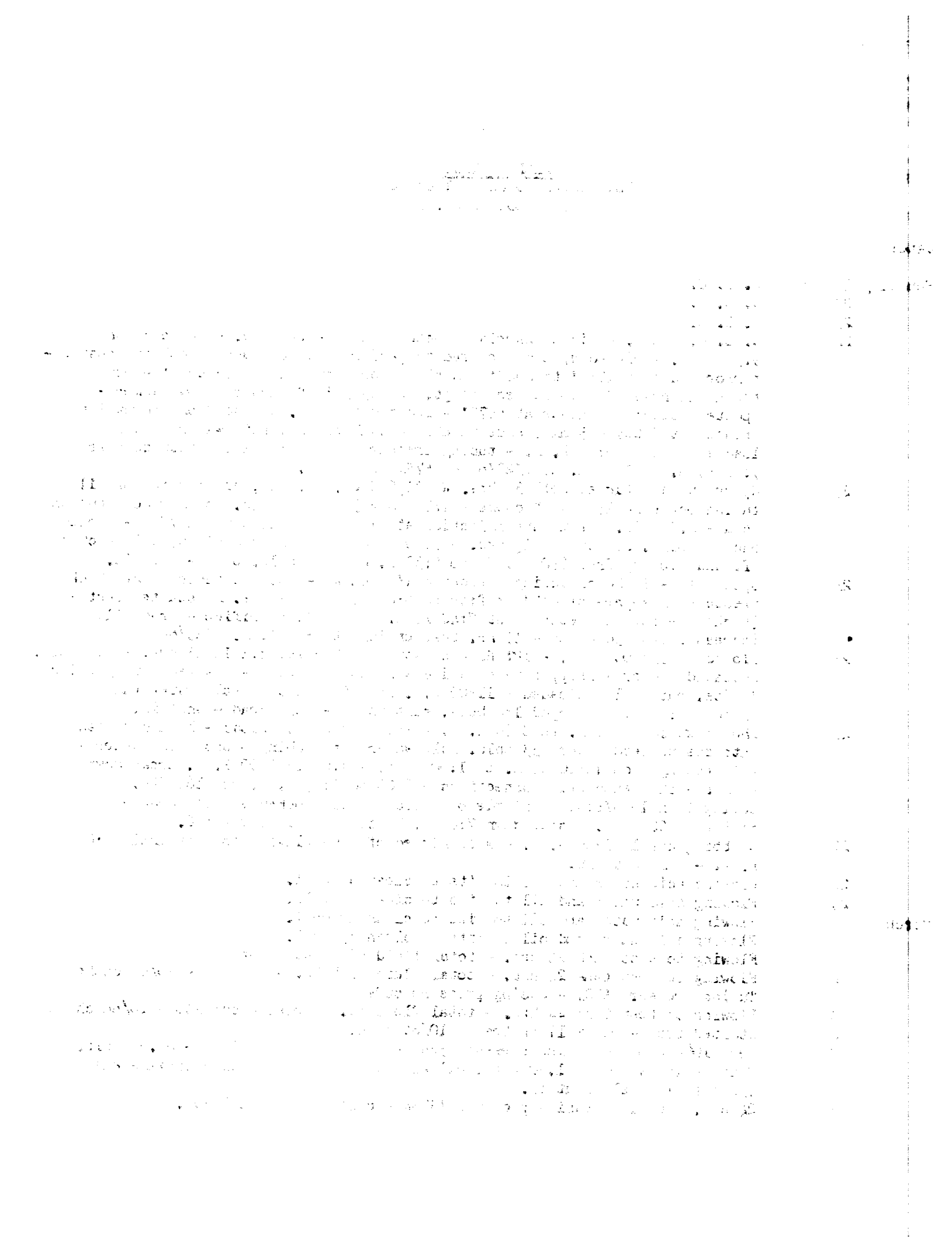
14 4895' - Lime - circulated to core - pulled out of hole - layed down drill collars - picked up & made up core bbl. and started in hole to core.

15 Core #1 - 4895' - 4919' - Core bbl. jammed - Recovered 24' Lime; Core #2 4919' - 4950' - core bbl. jammed - Recovered 31' Dolomite & Lime; dressed core bbl. and started in hole to Core #3.

16 Core #3 - 4950' - 4974' - Recovered 24' Lime; Core #4 - 4974' - 5000' Recovered 26' Lime & Dolomite; Coring on Core #5.

17 Core #5 - 5000' - 5025' - Recovered 25' Lime & Dolomite - Total Depth 5025' Circulated - came out of hole to run logs - rigged up & ran Lane Wells Focus Log from 5025' to 4000'; ran Gamma Ray Neutron 5025' to 100'; ran Accoustic Log 5025' to 4000'; rig down Lane Wells.

18 Circulated, layed down drill pipe & drill collars; removed 8-5/8" swage; ran 152 jts. 5½" 14# casing (5031.83,-float & shoe)- 5034'33 set at 5024'; cemented W/250 sax neat & 100 sax Latex - plug 12' off bottom; ran 5 HOWCO Centralizers spaced from 4880' to Total Depth; squeesed out 2 bbls. cement - W.O.C. - tearing down rotary tools. Rig released at 3:00 P. M.



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Date:		
February	19, 1960	W. O. C.
	20	W. O. C.
	21	W. O. C.
	22	W. O. C. 8 hrs. - Rig up Harrison swabbing unit - Lane Wells on location 9:30 A. M. - rigged up and prepared to perforate after running collar locater - perforated from 4980' to 4988' - 4 shots per foot - 4946' to 4966' - run tubing in hole W/HOWCO Packer W/1 jt. tubing 30' of Anchor below packer - spotted bottom of Anchor at 4972' - spotted 500 gal. mud acid on formation treated at 2100# - 5 min. shut in 400# - swabbed back acid water - tubing load shut in at 9:00 P. M. - tubing pressure 850# - 30 min. - shut down from 9:30 P. M. to 8:30 A. M. 2/23/60 - 1575# on tubing.
	23	Opened up and flowed well 3½ hrs. W/275,000 cu. ft. gas, small spray of oil - tubing pressure 150# W/¾" choke - 1:30 to 2:30 5,000 gals. low surface tension acid - 4.8 bbls. per minute injection at 3100# - 5 min. shut in 750# - flowed back 41 bbls. of water - 1½ hrs. - 3:30 to 4:40 run swab 4 times, well kicked off and flowing from 6:00 P. M. to 8:30 P. M. - 65 bbls. back - Shut in.
	24	Open well - 1800# on tubing - flowing W/¾" choke - 100# on tubing - 22# back pressure on separator W/2" orifice to 6:00 P. M. - 6:00 P. M. started test - ¾" choke - put gas meter on at 7:40 P. M. - 30# W/1½" orifice - gradually increased from 30 - 38# - 15 hr. test ending at 9:00 A. M. 2/25/60 -
	25	Flowed 66 33/100 bbls. - 18% BS - 6% water - 50 bbls. oil in 15 hrs. - 9:15 A.M. unseated packer - dropped water and casing on formation - started out W/tubing 30 jts. out, well unloaded - 11:00 A.M. shut in, wait on salt water pump truck - 6:30 P. M. pumped 134 bbls. salt water - well dead - shut in.
	26	Shut down 12:00 A. M. to 8:30 A. M. - well trying to unload - hooked up tank into casing head - work 33 bbls. salt water into tubing - unseated packer - pull tubing from 10:00 A. M. to 1:00 P. M. - 1:00 to 2:00 P. M. broke down packer - tightened well connections - 2:00 to 5:15 P. M. run 161 jts. tubing in hole W/seating nipple on bottom - 5:15 hooked up well swab - 5:45 to 7:00 P. M. - shut down 7:00 P. M. to 8:00 A. M. 2/27/60.
	27	Swabbing until 11:00 A. M. - well kicked off and flowing to pits until 7:00 P. M. - well shut in.
	28	Flowing acid water and oil to pits to clean up well.
	29	Flowing acid water and oil to pits to clean up well.
March	1	Flowing acid water and oil to pits to clean up well.
	2	Flowing acid water and oil to pits to clean up well.
	3	Flowing to test tank 24 hrs. - total fluid 63 bbls. - cut 15%
	4	Flowing to test tank 24 hrs. - total fluid 61 bbls. - cut 15% - 10/64 choke - Tubing pressure 500# - casing pressure 600#
	5	Flowing to test tank 24 hrs. - total fluid 60.72 bbls. - cut 15% - 10/64 choke
	6	Started test - put well on test - 10/64 choke
	7	Test 10/64 choke - tubing pressure 525# - casing pressure 600# - 60.60 bbls. fluid - 15% water - 51.50 bbls. oil with a Gas Oil Ratio of approximately 33841 to 1 - Well shut in.
	8	24 Hrs. shut in - tubing pressure 1575# - casing pressure 1450#.