

Robert L. Moorehead Consulting Petroleum Engineer



ENGINEERING · WELLSITE SUPERVISION · DRILLING/COMPLETION/PRODUCTION

1410 WESTERN AVENUE • (316) 672-7737
PRATT, KANSAS 67124

HAAS No. 1-24 OWWO
Charter Production Co
COMPLETION REPORT

July 26, 1993

7/24/93 RTD 5426. HLS 5400.

7/25 Halco spotted 50 sxs Premium cmt w/0.3% Halad 322 thru drill pipe @ 5400'. Pulled DP to 5245' and circulated 1½ hrs. POOH & LD DP.

Ran 118 jts of new Newport 5½", 15.5#, J55, LT&C casing and set @ 5262'. Used 12 centralizers, guide shoe and an auto-fill insert. Casing was rotated during cementing operation. Flush ahead of cement consisted of 20 bbls Kcl water and 15 bbls Super Flush. Halco cemented with 270 sxs EA-2 cement. Cement plug was displaced with Kcl water. Plug down at 3:46 PM. Complete circulation was observed. Float valve held and casing was left open. Set casing slips with 5½" casing in full tension. Released rig at 4:30 PM.

5½" CASING LEFT ON LOCATION

1 jt - 45.05 (from Floyd #1)
1 jt - 44.70

Respectfully submitted,

Robert Moorehead
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CHARTER PRODUCTION COMPANY
224 E. DOUGLAS, SUITE 400
WICHITA, KANSAS 67202
316-264-2808

HAAS #1 OWWO—1991 DEV
C 3/2 E/2 SE SECTION 24-34S-32W
SEWARD COUNTY, KANSAS
WHITE LABEL PROSPECT

COMPLETION REPORT

8-4-93 **MIRU**
8-5-93 **Ran Bond Log. Plug back TD 5208'. 4008' top of good cement. Good bond over cement. Swabbed casing to 3070' and perforated Hertha 5122'-28' (4 spf). Swabbed casing down with no show. SI 1 hr and found 50' of SW with no show. Set 5 1/2" CIBP at 5110'. Loaded hole to 2430' with SW. Perforated Iola 4832'-36' (4 spf). Swabbed down with trace of oil. SI 8:00 p.m.**
8-6-93 **SIP 0. ONFU 30' SW with scum of oil. SI 1 HR. Found No Fillup. Treated 4832'-36' (Iola perms) w/500 gals NE 15% acid. Total load 127 bbls, formation broke at 2000#. AIR 2 bpm, Min Pressure 600#. ISI 550#, 5 " SIP= Vacuum**

SWAB TEST

<u>TIMES</u>	<u>BARRELS OF FLUID</u>	<u>DEPTH</u>	<u>RECOVERY</u>
1st hr.	63	0-2500'	Load Wtr, No Show
2nd hr.	49	4200'	Load Wtr, No Show
3rd hr.	34	4800'	Load Wtr, No Show
30 MSI	5	4550'	50% oil
30 MSI	6	4500'	36% oil
30 MSI	4	4600'	30% oil
30 MSI	6	4500'	32% oil

SI 6:00 PM

8-7-93 **Fluid level 2500' ONFU 2300' w/100' free oil.**

SWAB TEST

Swab tested: 69.6 barrels of fluid FL 4800' 9 % oil

<u>Times</u>	<u>BARRELS OF FLUID</u>	<u>DEPTH</u>	<u>RECOVERY</u>
30 MSI	3.5	4650'	14% oil
30 MSI	5.8	4550'	11% oil
30 MSI	5.8	4550'	13% oil

SI 11:30 PM

8-8-93

SI

8-9-93

Fluid level 2000' Weekend Fillup 2800' w/30' free oil. Set cast iron bridge plug at 4800'. Perforated Toronto 4405-10', 4 shots per foot.

<u>SWAB TEST</u>			
<u>TIMES</u>	<u>BARRELS OF FLUID</u>	<u>DEPTH</u>	<u>RECOVERY</u>
	54.5	2100-4400'	Load Wtr. No Show
30 MSI	0	4400'	No Fluid Entry
30 MSI	0	4400'	No Fluid Entry
30 MSI	0	4400'	No Fluid Entry
30 MSI	.58	4375'	56% Oil

Treated Toronto perforations w/500 gals 15% NE acid. Displaced with 2% KCL water. Total Load 118 bbls. Formation broke at 1900#, Air 2 BPM, AIP 780#, ISI 620#, 5, MSI 386#, 10 MSI 289#, 15 MSI 204#.

1st hr	70.2	Surface-3000	Load Wtr. No Show
2nd hr.	60.3	3000-4100	46% Oil on last Pull. Good show of GAS

SI 6:00 PM.

8-10-93 SI 200#, FL 2800', ONFU 1600' w/1300' free oil, 300' water. Swab Test Toronto 4405-10'

<u>SWAB TEST</u>			
<u>TIMES</u>	<u>BARRELS OF FLUID</u>	<u>DEPTH</u>	<u>RECOVERY</u>
1st pull	22.04		100% Oil
2nd pull	16.24		55% Oil
30 MSI	3.48		85% Oil
30 MSI	4.6		80 % Oil
30 MSI	5.8		86 % Oil
30 MSI	0.5		90 % Oil
30 MSI	0		No fluid entry
30 MSI	0		No fluid entry
1 hr SI	2		90% Oil
1 hr SI	4.06		90% Oil
1hr SI	2.32		90% Oil
1 hr SI	2.32		90% Oil

SI 4:30 PM

8-11-93 ONFU 3000'. 90# on Casing. Swab down to perforations, 31 barrels fluid, 90% oil. Spotted 1500 gals NE acid on Toronto perforations 4405-10'. Displaced acid at 6.2 bpm, 131 barrels, Max Pressure 250#, went on Instant Vacuum. Swab well down, started to swab, 2nd pull, line parted, dropped tool 200' line down hole. Go in hole with new swab tool and swab well down. Swab back 131 bbl of load, Swab test 135 bbls. Last pull, 90% oil (very gassy).

8-12-93 FL 1900' CSP 275#. Swab test at 9:00 AM. 14 BF--90% oil. Well started flowing. Swab test at 10:00 AM 16 BF--90% oil. Real gassy, trying to flow. Last pull FL at 3800'. Will continue to swab test about once an hour.

<u>SWAB TEST</u>		
<u>TIMES</u>	<u>BARRELS OF FLUID</u>	<u>DEPTH</u>
11:00	20	50% Oil
12:00	17	50% Oil
1:00	2.3	100% Oil

RU to GIH with spear. Perf sub and tbg to fish swab tool and 200' swab line. Got ahold of fish and started OOH w/fish. Got 10 stands of tbg out. SD due to lightening.

8-13-93

COH with fish, ran 144 jts of used 2 7/8" tubing, seating nipple, mud anchor, 119, 3/4" rods, 56, 3/4" scraper rods, 2 1/2 x 1 1/2 x 2 1/2 BHDP and polish rod. 1' strainer nipple, 22 x 1 1/4 polish rod, 8 x 1 1/2 polish rod liner. Rig unit down and moved off.

FINAL REPORT

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HAAS #1 OWWO—1991 DEV
C E/2 E/2 SE SECTION 24-34S-32W
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12-06-93 **MI well service derrick**
12-07-93 **RU. Pulled 175, 3/4 rods and pump. POH with 145 jts. 2 7/8" tbg. TIH with**
RTTS packer and 142 jts tbg. Set packer at 4352'. SION 3:15 PM.
12-08-93 **TSIP 120# CSIP=Packer. Pressured annulus to 500 lbs with nitrogen. Retreated**
4505'-10' Toronto perforations with 3000 gals 20% SGA. Foamed to 10,000 gals,
70 quality. AIP 1980 LBS, MIP 2200 LBS, AIR 6 1/2 bbls per minute. ISIP 1923
lbs, 5 MSIP 1543 LBS, Total Load 107 BBLs. Used 17,200 SCF. 2 hr SIP 1280
lbs, Swabbed and flowed 6 hrs. Recovering 74.2 bbls of fluid with ending oil cut of
41% and fluid level at 4100' and show of natural gas. SION 5:30 PM.
12-09-93 **14 hr TSIP 320# CSIP=Packer. Fluid Level 3300' (800' oil, 300' load water)**
Swabbed 9.1 bbl of fluid. Total 83.3 recovery. Released packer, POH. TIH with
1 jt tbg, seating nipple, 144 jts, 2 7/8" tbg. Landed seating nipple at 4409'. bottom
of open ended tbg at 4436'. Ran 2 1/2" x 1 3/4" x 14' RHBC/DV pump, 119 3/4
rods, 56 3/4 scraper rods, 1 1/4 x 22' polish rod. Installed rod rotator. POP 4:45
PM.

FINAL REPORT