

CHARLES R. SCHMALTZ

Consulting Geologist
1309 W. 33RD St., N.
Wichita, Kansas 67204

CHARTER PRODUCTION COMPANY

HAYS TRUST #1

NW SW SEC 19 -T34S-R31W

SEWARD COUNTY, KANSAS

ELEVATIONS: 2731 GL
2742 KB

CONTRACTOR: ZENITH DRILLING CO.
RIG #6
MIKE GEARHART
Toolpusher

COMMENCED: 28 APRIL 1993
COMPLETED: 17 MAY 1993

CASING - Surface 8 5/8 @ 1496'
- Production 5 1/2 @ 5449'

MUD PROGRAM: STEVENS MUD CO.
Chemical
Bruce Stevens - Engineer

DRILL STEM TESTS: Trilobite Testing Co. (7)

LOGGING PROGRAM: HALLIBURTON LOGGING SER.
1) DIL w/ SP - GR
2) SDLDSN
3) ML

DAILY PENETRATION RATE:
(as of 7:00 am)

4/28/93 MIRT
4/29/93 935'
4/30/93 1501'
5/ 1/93 2610'
5/ 2/93 3385'
5/ 3/93 3845'
5/ 4/93 4040'
5/ 5/93 4040'
5/ 6/93 4290'
7/ 7/93 4433'

PIPE STRAPS:
@ 4433 - 15.06 short
@ 4433 - 17.18 short

5/ 8/93 4575'
5/ 9/93 4851'
5/10/93 4898'
5/11/93 5195'
5/12/93 5285'
5/13/93 5655'
5/14/93 6030'
5/15/93 6350'
5/16/93 6435'
5/17/93 6450'

BIT RECORD:

| <u>NO</u> | <u>SIZE</u> | <u>MAKE</u> | <u>TYPE</u> | <u>DEPTH OUT</u> | <u>FEET</u> | <u>HOURS</u> |
|-----------|-------------|-------------|-------------|------------------|-------------|--------------|
| 1 | 12 1/4 | STC | DSJ | 1501' | 1501' | 12 3/4 |
| 1 | 7 7/8 | STC | F15H | 4898' | 3397' | 97 1/4 |
| 2 | 7 7/8 | STC | F27I | 6450' | 1552' | 92 |

The following is a structural comparison between the Charter Production Co. Hayes Trust #1 and the Anadarko Petroleum Heyen Trust 'A' #1, an oil well approximately 1650' northeast.

| <u>FORMATION</u> | <u>CHARTER- HAYES TRUST #1</u> | <u>ANADARKO-HEYEN TRUST 'A' #1</u> |
|-------------------|--------------------------------|------------------------------------|
| HEEBNER SHALE | 4380 (-1638) | 4378 (-1640) |
| TORONTO | 4405 (-1663) | 4406 (-1668) |
| LANSING | 4533 (-1791) | 4536 (-1798) |
| IOLA | 4838 (-2096) | 4841 (-2103) |
| DRUM | 4885 (-2143) | 4874 (-2136) |
| BKC | 5146 (-2404) | 5151 (-2413) |
| MARMATON | 5221 (-2479) | 5224 (-2486) |
| NOVINGER | 5290 (-2548) | 5284 (-2546) |
| CHEROKEE | 5382 (-2640) | 5387 (-2639) |
| MORROW SHALE | 5771 (-3029) | 5771 (-3033) |
| MISS. CHESTER | 5880 (-3138) | 5896 (-3158) |
| MISS. ST. GEN. | 6215 (-3473) | 6216 (-3478) |
| MISS. ST. LOUIS | 6324 (-3582) | 6323 (-3585) |
| TOTAL DEPTH - LTD | 6449 (-3707) | 6493 (-3755) |
| TOTAL DEPTH - RTD | 6450 (-3708) | 6501 (-3763) |

The Charter Production Co. Hayes Trust #1 was drilled as an attempt to establish oil and gas production in the Pennsylvannian and Mississippian interval of the stratigraphic column. The Hayes Trust #1 ran structurally high throughout most of the well, although the degree of relief varied with localized thickening and thinning, and on a few formations was significant enough to cause the Hayes Trust #1 to be structurally low to the Anadarko control well. Several good sample shows were encountered during the course of drilling and were evaluated by drill stem tests (see following pages for DST results). Based on results of these drill stem tests, 5 1/2 production casing was set to further evaluate the Hayes Trust in the Toronto, Iola, and Marmaton Limestones.

CONCLUSIONS

Based on sample examination, and electric and radiation logs, and drill stem test results, the decision was made to run 5 1/2 casing on 17 May 1993.

DRILL STEM TESTS

DST #1 - (4378 - 4418) - (corrected) TORONTO
30"-60"-60"-60"

IFP: Strong blow in 1 min.

RECOVERED: GTS/20 minutes

| | | |
|--------------|----------|---------|
| IFP - Gauged | 25.1 MCF | 20 min. |
| | 19.9 MCF | 30 min. |
| FFP - Gauged | 37.6 MCF | 10 min. |
| | 28.9 MCF | 20 min. |
| | 19.9 MCF | 30 min. |
| | 15.4 MCF | 40 min. |
| | 12.5 MCF | 50 min. |
| | 10.9 MCF | 60 min. |

150' Clean Gassey Oil
(50% Gas, 50% Oil)

770' Slightly Mud Cut Gassey Oil
(5% Mud, 45% Gas, 50% Oil)

HSP: 1953#-1926#
FP: 123#-168#/168#-290#
SIP: 1234#-1174#
BHT: 122 F

DST #2 - (4544 - 4554) LANSING
30"-30 -30"-30"

IFP: Weak blow (1") decreasing to 1/4 inch
FFP: No blow, Flushed tool, no help

RECOVERED: 50' Mud

HSP: 2081#-2054#
FP: 50#-60#/60#-68#
SIP: 128#-1048#
BHT: 116 F

DRILL STEM TESTS (con't)

DST #3 - (4833 - 4851) IOLA
30"-60"-60"-60"

IFP: Strong blow in 1 min.
FFP: Strong blow in 4 min.
(2" blowback both shut ins)

RECOVERED: **2400' Gas in Pipe**
 40' Clean Gassey Oil
 (20% Gas, 80% Oil)
 180' Gas & Mud Cut Oil
 (25% Gas, 35% Mud, 40% Oil)
 180' Very Slightly Oil Cut Gassey Water
 (1% Oil, 20% Gas, 79% Water)

HSP: 2367#-2342#
FP: 150#-160#/198#-240#
SIP: 1487#-1488#
BHT: 119 F

DST #4 - (4876 - 4898) DRUM
30"-60"-60"-60"

IFP: Strong blow off bottom in 9 min.
FFP: Strong blow off bottom in 40 min.
(No Blowback)

RECOVERED: **60' Mud**
 670' Slightly Mud Cut Water
 Chl: Recovery - 80,000 ppm
 Pit - 6,700 ppm

HSP: 2318#-2275#
FP: 98#-187#/247#-346#
SIP: 1420#-1417#
BHT: 124 F

DRILL STEM TESTS - CON'T

**DST #5 (5150 - 5246) MARMATON
30"-60"-60"-90"**

IFP: Strong blow in 30 sec.

GTS/3"

IFP - Gauged

| | |
|-----------|---------|
| 2,858 MCF | 10 min. |
| 3,155 MCF | 20 min. |
| 3,274 MCF | 30 min. |

| | | |
|---------|-----------|---------|
| Gauged: | 3,155 MCF | 10 min. |
| | 3,036 MCF | 20 min. |
| | 2,858 MCF | 30 min. |
| | 2,558 MCF | 40 min. |
| | 2,503 MCF | 50 min. |
| | 2,441 MCF | 60 min. |

RECOVERED: 200' GCM

HSP: 2476#-2447#
FP: 759#-661#/700#-504#
SIP: 1562#-1484#
BHT: 125 F

**DST #6 (6405-6415) ST. LOUIS
45"-60"-45"-60"**

IFP: Surface blow building to 2 1/2 inches
FFP: Surface blow throughout

RECOVERED: 20' Oil Spotted Mud

HSP: 3158#/3096#
FP: 33#-33#/45#-45#
SIP: 1098#/1256#
BHT: 140

DRILL STEM TESTS (con't)

**DST #7 (5934-5080) LWR. MORROW SAND/CHESTER
30"-60"-60"-60"**

IFP: Strong blow in 30 sec.

FFP: Strong blow immed.

Blowback - ISIP: off bottom in 55 min.

Blowback - FSIP: weak bldg. to 3 inches

**RECOVERED: 390' Gas in Pipe
 60' Gas Cut Mud**

HSP: 2898#-2824#

FP: 56#-56#/56#-56#

SIP: 727#-939#

BHT: 134 F

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

HAYS TRUST #1
C NW SW SECTION 19-34S-31W
1980' FSL 4620' FEL
SEWARD COUNTY, KANSAS
WHITE LABEL PROSPECT

COMPLETION REPORT

- 5/21/93 MIRU completion unit and swab tank.
- 5/22/93 Ran Cement Bond Log. Plug back TD 5334'. Top of cement 3964'. Good cement bond over Marmaton, Iola and Toronto. Swab casing down to 1000'. Perforated Marmaton 5222-26' 4 shots per ft. TIH 166 jts 2 7/8" tbg. Landed seating nipple at 5185' and tubing at 5218'. Swabbed estimated 50 bbl water and well kicked off. Flowed 1 hr on 1/2" choke. Tubing Flowing Pressure 230#. Casing Flowing Pressure 40#. Produced estimated 1400 MCFD with mist of load water. SI 6:00 PM. (Have recovered estimated 70 bbls of 100 bbl load water).
- 5/23/93 SI
- 5/24/93 40 hr Tubing Shut In Pressure 1160#, Casing Shut In Pressure 1060#. Opened well and flowed 7 1/2 hrs on 1/4" choke. Tubing Pressure 625#, Casing Flow Pressure 785#. Produced estimated 900 MCFD of dry gas. SI 5:30 PM.
- *Have recovered all load water.
- 5/25/93 14 hr Tubing Shut In Pressure 1330#, Casing Shut In Pressure 1270#. Opened well. Flowing mist of 64 degree API CONDENSATE. Acidized 5222-26' Marmaton perforations with 2000 gals 15% acid (all acid contained FE, NE surfactant, clay control additives, and last 1600 gals contained retarder). Displaced acid with 2 % KCL water. Total load 160 bbls, average injection rate 5 bbl per min, average injection pressure 600#. Instant Shut In Pressure 420#, 15 minute Shut In Pressure 70#. Left well shut in one hour . Swab 40 bbl load. Well kicked off flowing. Flowed 5 1/2 hours ending on 1/4" choke. Tubing Shut In Pressure 640#, Casing Shut In Pressure 780#. Producing 940 MCFD with a mist of condensate. Have recovered 141.5 bbls of load. SI 6:30 PM.
- 5/26/93 13 hr Tubing Shut In Pressure 1440#, Casing Shut In Pressure 1450#. Preparing to install test unit and test. Put on test unit at noon. Flowed through test unit 21 hours on 1/4" choke. Tubing Flowing Pressure 720#, Casing Flowing Pressure 1050#. Produced 750 MCFD. Produced no fluid. Continuing to test.
- 5/27/93 Flowed 24 hrs on 1/4" choke. Tubing Flowing Pressure 840#, Casing Flowing Pressure 1115#. Flowing 670 MCFD and producing 4 bbls fluid. (55% of 52 degree API CONDENSATE, 45% Salt Water, Chlorides 91,200) Will continue to flow test until noon and run 3 day BHP build up test.

ARTER PRODUCTION COMPANY
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316-264-2808

| | |
|-----------------------------------|-----------------|
| HAYS TRUST #1 | 2731' GR |
| C NW SW SECTION 19-34S-31W | |
| 1980' FSL 4620' FEL | |
| SEWARD COUNTY, KANSAS | 2742' KB |
| WHITE LABEL PROSPECT | |

DAILY DRILLING REPORT

| Sample Tops | Depth/Datum | E-Log Tops |
|------------------|-------------|-------------|
| Hebner Shale | 4382'/-1640 | 4381'/-1640 |
| Toronto | 4411'/-1669 | 4404'/-1662 |
| Lansing | 4575'/-1795 | 4538'/-1796 |
| Iola | 4842'/-2100 | 4837'/-2095 |
| Drum | 4888'/-2146 | 4884'/-2142 |
| Swope | 5033'/-2291 | 5023'/-2281 |
| BKC | 5161'/-2419 | 5146'/-2404 |
| Marmaton | 5226'/-2484 | 5220'/-2478 |
| Novinger | 5294'/-2552 | 5300'/-2558 |
| Cherokee Shale | 5385'/-2643 | 5382'/-2640 |
| Morrow | 5771'/-3029 | 5768'/-3026 |
| Miss Chst D | 5885'/-3143 | 5956'/-3214 |
| Miss St. Gen | 6217'/-3475 | 6216'/-3474 |
| Miss St. Louis C | 6323'/-3581 | 6409'/-3667 |
| TD | 6450'/-3719 | |

4/28/93 MIRT SPUD 10:00 P.M.

4/29/93 935' AT 7:00 AM Operation: Drilling ahead

4/30/93 1501' at 7:00 AM Operation: WOC
 Ran 34 jts New 24# 8 5/8" Casing. Total 1496'. Set at 1493'. Cemented w/575 sacks Western Lite, 125 sacks Class C. Plug down 9:30 PM. Cement circulated. Float held.

5/1/93 2610' at 7:00 AM Operation: Drilling ahead

5/2/93 3385' at 7:00 AM Operation: Drilling ahead

5/3/93 4040' at 7:00 AM Operation: Rig shut down for 10-12 hrs to repair clutch.

5/4/93 7:00 AM Operation: Waiting on parts to repair clutch.

5/5/93 7:00 AM Operation: Putting Dry Works together.

5/6/93 4290' at 7:00 AM Operation: Drilling ahead. Geologist on location.
 DST #1 4378'-4418' (Hebner Shale/Toronto)
 Times: 30"-60" 60"-60"
RECOVERED 150' CLEAN GASSY OIL (50% GAS, 5 0% OIL)
770' SLIGHTLY MUD CUT GASSY OIL
(5% MUD, 45% GAS, 50% OIL)
 Initial Flow 123-168 psi Initial Shut In 1234 psi
 Final Flow 168-290 psi Final Shut In 1174 psi

5/7/93 4418' at 7:00 AM Operation: Back to bottom after DST #1

5/8/93 4575' at 7:00 AM Operation: Drilling ahead
 DST #2 4544'-4554' (Lansing)
 Times 30"-30"-30"-30"
RECOVERED: 50' MUD
 Initial Flow 50-60 psi Initial Shut In 1048 psi
 Final Flow 60-68 psi Final Shut In 168 psi

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C NW SW SECTION 19-34S-31W
1980' FSL 4620' FEL 2742' KB
SEWARD COUNTY, KANSAS
WHITE LABEL PROSPECT

DST #1 4378'-4418' (Heebner Shale/Toronto)
Times: 30"-60" 60"-60"

RECOVERED 150' CGO (50% G, 50% O)
770' SMCGO (5%, M, 45% G, 50% O)

Initial flow 123-168 psi Initial Shut In 1234 psi
**Final flow 168-290 psi Final Shut In 1174 psi
HP 1653/1926 BHT 122 degrees
* Strong blow in 1". ** 10" 37.6 mcf, 20" 28.9 mcf, 30" 19.9 mcf 40" 15.4 mcf
GTS in 20" 50" 12.5 mcf 60" 10.9 mcf
20" 25.1 mcf

5/8/93 4575' at 7:00 AM Operation: Drilling ahead
DST #2 4544'-4554' (LANSING)
Times: 30"-60"-60"-60"

RECOVERED: 50' MUD
IFP: WK BLOW 1"...1/4"
FFP: NO BLOW, FLUSHED, NO HELP
HSP: 2081-2054
FP: 50-60/60-68#
SIP: 1048-168
BHT 116 F
DST #3 4833'-4851' (IOLA)
Times: 30"-60"-60"-60"

RECOVERED 2400' GIP
40' CGO (20% G, 80% O)
180' GMCO
(25% G, 35% M, 40% O)
180' VSOCGW
(1% O, 20% G, 70% W)

IFP: Strong blow in 1:
FFP: Strong blow in 4"
Chlorides 62,000 ppm
pit: 8,200 ppm
FP: 150-160/198-250# SIP 1487-1488# HSP 2367#-2342# BHT 119 F
DST #4 4876'-4898' (DRUM)

5/10/93(con't) Times: 30"-60"-60"-60"
IFP: Fair blow bldg to 9" FFP: FAIR BLOW BLDG TO STORNG BLOW
OFF BOTTOM IN 40"

RECOVERED: 60' MUD
670' SMCSW
FP 98-187#/247-346# SIP 1420/1417# BHT 124 F

5/12/93

5320' AT 7:00 AM Operation: Drilling Ahead
DST #5 5150'-5246' (MARMATON)
Times: 30"-60"-60"-90"

IFP: Strong blow off bottom in 30 seconds. GTS in 3 minutes

FFP: Strong blow. GTS.

**Initial Open: 5" 1.949 mmcf, 10" 2.858, 15" 3.095, 20" 3.155, 25" 3.274,
30" 3.274**

**Final Open: 10" 3.155 mmcf, 20" 3.036, 30" 2.858, 40" 2.558, 50" 2.503
60" 2.441**

RECOVERED 250' MUD

2.500 MMCF GAS

Initial Flow 759-661 psi Initial Shut In 1562 psi

Final Flow 700-504 psi Final Shut In 1484 psi

BHT 125 F

5/16/93 6425' at 7:00 AM Operation: Back to Drilling after DST #6

DST #6 6405'-6420' (ST LOUIS)

Times: 45"-60"-45"-60"

IF: Weak blow bldg to 2 1/2"

FF: Surface blow throughout

RECOVERED: 20' OIL SPOTTED DRILLING MUD

Initial Flow: 33-33 psi Initial Shut In 1098 psi

Final Flow 45-45 psi Final Shut In 1256 psi

5/17/93

6450' at 8:00 AM Operation: Trip out w/DST#7

Ran E-Logs before DST #7

**DST #7 5934'-5980' (MIDDLE MORROW SAND/TOP OF CHESTER)
(STRADDLE TEST)**

TIMES: 30"-60"-60"-60"

IF: Strong blow in 30 seconds

FF: Strong blow immediately

RECOVERED: 390' GIP

60' GCM

Initial Flow 56-56 psi Initial Shut In 727 psi

Final Flow 56-56 psi Final Shut In 939 psi

5/9/93 4851' at 7:00 AM Operation: On Bottom with DST #3
 \ DST #3 4833'-4851' (Iola)
 Times: 30"-60"-60"-60"
RECOVERED: 2400' GAS IN PIPE
 40' CLEAN GASSY OIL (20% GAS, 80% OIL)
 180' GASSY & MUD CUT OIL
 (25% GAS,35% MUD,40% OIL)
 180' VERY SLIGHTLY OIL CUT GASSY WATER
 (1% OIL, 20% GAS, 79% WATER)
 Initial Flow 150-160 psi Initial Shut In 1487 psi
 Final Flow 198-250 psi Final Shut In 1488 psi

5/10/93 4898' at 9:00 AM Operation: Starting back in hole after DST #4
 \ DST #4 4876-4898' (DRUM)
 Times: 30"-60"-60"-60"
RECOVERED: 60' MUD
 670' SLIGHTLY MUD CUT SALT WATER
 Initial Flow 98-187 psi Initial Shut In 1420 psi
 Final Flow 247-346 psi Final Shut In 1417 psi

5/11/93 5224' at 7:00 AM Operation: Drilling ahead
 5/12/93 5320' at 7:00 AM Operation: Drilling ahead
 \ DST #5 5150'-5246' (MARMATON)
 Times: 30"-60"-60"-90"
RECOVERED: 250' MUD
 2,500 MMCF Gas
 Initial Flow 759-661 psi Initial Shut In 1562 psi
 Final Flow 700-504 psi Final Shut In 1484 psi

5/13/93 5655' at 7:00 AM Operation: Drilling ahead
 5/14/93 6030' at 7:00 AM Operation: Drilling ahead
 5/15/93 6350' at 7:00 AM Operation: Drilling ahead
 5/16/93 6425' at 7:00 AM Operation: Back to Drilling after DST #6
 \ DST #6 6405'-6420' (ST LOUIS)
 Times: 45"-60"-45"-60"
RECOVERED: 20' OIL SPOTTED DRILLING MUD
 Initial Flow 33-33 psi Initial Shut In 1098 psi
 Final Flow 45-45 psi Final Shut In 1256 psi

5/17/93 6450' at 8:00 AM Operation: Trip out w/DST #7
 Ran E-Logs before DST #7
 \ DST #7 5934'-5980' (MIDDLE MORROW SAND/TOP OF CHESTER)
 Times: 30"-60"-60"-60"
RECOVERED: 390' GAS IN PIPE
 60' GAS CUT MUD
 Initial Flow 56-56 psi Initial Shut In 727 psi
 Final Flow 56-56 psi Final Shut In 939 psi
 6450' TD, Preparing to run casing.

5/18/93 Set 50 sacks Premium cement, plug at 5814'. Ran 121 jts new 5 1/2" 15.5# casing
 Set at 5382'. Cemented with 300 sacks EA-2 cement with complete circulation.
 Plug down 2:02 AM 5-18-93. Casing was rotated during cementing and displaced
 cement with KCL water.

FINAL REPORT

Robert L. Moorehead Consulting Petroleum Engineer



ENGINEERING · WELLSITE SUPERVISION · DRILLING/COMPLETION/PRODUCTION

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

HAYS TRUST No. 1
Charter Production Co
PUMP CHANGE REPORT

RECEIVED
MAY 9 1994

May 7, 1994

4/29/94 MI Gibson Well Serv derrick.

4/30-5/1 SI - Weekend

5/2 8:30 AM. RU derrick. Tbg would not blow down. Ralph's Hot Oiler pumped 40 bbls hot lease oil down tbg. POOH w/rods & pump. Stripped in 1 jt (28.32') of 2 7/8 EUE tbg landing SN @ 5245' & bottom of open ended tbg @ 5278'. LTV dismantled pump & found nothing wrong w/pump. Tbg swbd 5222-26' Marmaton perms 2½ hrs recovering 28.7 BL of 40 bbl load w/ending FL 4000', CP 180#, producing 120 Mcfd via annulus & good show of gas via tbg. SION 5:15 PM.

5/3 8:15 AM. 15 hr TSIP 325#, CSIP 690#. Opened annulus to pipeline & tbg to stock tnk. Tbg unloaded 5½ B0 in 15 mins and went to gas. SI tbg and continued flwg annulus to pipeline for 6 hrs with ending TFP 240#, CFP 105# and producing 110 Mcfd. Halco treated 5222-26' Marmaton perms w/400 gals XYLENE containing LoSurf 300 & ParaChek 160. Displaced XYLENE with ClayFix II wtr containing LoSurf 300. Total load 5000 gals. AIR 3.8 BPM on vacuum. TIH with pump, 209 - 3/4 rods, 2',4',4',6' - 3/4 pony rods & 1½"x16' polish rod. Dropped 1 std of rods & bent/ruined 3 rods. LTV delivered 3 replacement rods. POP at 5:45 PM. Released crew @ 6 PM.

TUBING DETAIL

| | |
|---------------------------|-----------------|
| KB Corr | 8.5 |
| 167 jts 2 7/8 EUE Tubing | 5236.01 |
| SN (2½ Bore) | 1.1 |
| 1 jt 2 7/8 EUE Tubing | 32.36 |
| Bottom of Tubing String @ | <u>5277.97'</u> |

ROD DETAIL

1½"x16' Polish Rod w/7' liner
2',4',4',6' - 3/4" Pony Rods
209 - 3/4" Rods, WCN D78, (no scrapers)
2½"x1½"x14' RWBC/DV Pump, 78" max stroke

5/4 Pumped 34 BL overnight of 119 bbls total load. Annulus pressure 80# but not selling gas yet, as line pressure is 90#. RD & moved to Pittman #1 at 8:45 AM.

Respectfully submitted,

Robert Moorehead
Robert Moorehead

Robert L. Moorehead Consulting Petroleum Engineer



JR

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

HAYS TRUST No. 1
Charter Production Co
INSTALL PUMP EQUIPMENT

April 12, 1994

3/15/94 MIRU Pratt Well Serv derrick. Opened csg to pipeline.

3/16 7:30 AM. TFP 110#. CFP 120#. Halco killed tbg w/30 bbls 2% Kcl wtr furnished by Dillco. Stripped in 1 jt of new 2 7/8", 6.5#, EUE tbg (31.4') landing SN @ 5216' and bottom of 167 jts open ended tbg @ 5250'. LTV delivered: 1 jt 2 7/8 EUE tbg; 213 - 3/4" new WCN D78 rods; DPSB; pumping tee; polish rod/liner; pump & misc valves/ftgs. PU pump, 10 rods & TIH but ran into severe parafin. POOH. Ralph's Hot Oiler pumped 30 bbls hot lease oil down tbg. PU & TIH w/2 1/2"x1 1/4"x14' RWBC/DV pump, 208 - 3/4" rods, 2',4',6' - 3/4" pony rods and 1 1/4"x16' polish rod. Stroked pump-OK. RD & moved to Sprinkle #1 @ 3 PM.

TUBING DETAIL

| | |
|---------------------------|----------|
| KB Corr | 8.5 |
| 166 jts 2 7/8 EUE Tubing | 5207.69 |
| SN (2 1/4" ID) | 1.1 |
| 1 jt 2 7/8 EUE Tubing | 32.36 |
| Bottom of Tubing String @ | 5249.65' |

ROD DETAIL

1 1/4"x16' Polish Rod w/7' liner
2',4',6' - 3/4" Pony Rods
208 - 3/4" Rods, new, WCN D78, (no scrapers)
2 1/2"x1 1/4"x14' RWBC/DV Pump, 78" max stroke

3/17 Wagner set 114-143-64 Kincaid PU, SN 1148124 w/C66 engine SN 85035, Gear box ratio 30.06:1. Gilmore built pad.

3/19 Gilmore's tied in wellhead, flowline to tnks & installed gas supply line.

3/20 POP.

Respectfully submitted,

Robert Moorehead
Robert Moorehead