

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

Good "A" #2	GL 2718'
1980' FSL & 660' FWL	KB 2728'
Section 20-34S-31W	
Seward County, Kansas	
White Label Prospect	

DAILY DRILLING REPORT

6/20/92 Moved in. Rig up.

6/21/92 Depth at 7 a.m. 500' and drilling. Spud at 3:00 a.m.

6/22/92 Depth at 7 a.m. 1300'. Lost circulation and washing 120' to 1330'.

6/23/92 Depth at 7 a.m. 1870' and drilling. Ran 38 jts of 8 5/8" surface casing, set at 1519'. Cemented with 545 sxs of Premium Hal Lite and 150 sxs of Premium Plus. Drilled out at 3:15 a.m.

6/24/92 Depth at 7 a.m. 2885' and drilling. Displaced hole at 2600'.

6/25/92 Depth at 7 a.m. 3565' and drilling.

6/26/92 Depth at 7 a.m. 4260' and testing.

 DST #1 (Toronto) 4384' - 4435' (26 unit gas kick)
 30"-60"-60"-90"
 IFP: Strong blow in 14 min.
 FFP: Strong blow in 50 min.
 RECOVERED: 620' gas in pipe; 279' GCM (10% gas, 90% mud)
 341' GCW (10% gas, 90% water)
 HSP: 2159# - 2093#
 FP: 85# - 128#/181# - 320#
 SIP: 1293# - 1293#

6/27/92 7:00 a.m. going in hole with bit @ 4435'.

 DST #2 (Lansing) 4540' - 4555' (40 unit kick)
 30"-30"-15"-30"
 IFP: weak 1/4" blow
 FFP: No blow
 RECOVERED: 10' mud
 HSP: 2290# - 2192#
 FP: 21# - 21#/21# - 21#
 SIP: 768# - 587#
 BHT: 115°

6/28/92 Depth at 7:00 a.m. 4572' and drilling.

 DST #3 (Iola) 4820' - 4848'
 30"-60"-60"-60"

IFP: Strong Blow in 1 minute
GTS : 13"; FFP; Gauged:
10.1 MCFD @ 20"; 10.6 MCFD @ 30"; 15.9 MCFD @ 10";
10.6 MCFD @ 20"; 8.2 MCFD @ 30"; 6.5 MCFD @ 40"; 7.5 MCFD @ 50";
3.6 MCFD @ 60"
RECOVERED: 365' clean gassy oil (60% gas,, 40% oil); 475' gassy oil
cut mud (50% gas, 20% oil, 30% mud)
HSP: 2366# - 2312#
FP: 106# -0 117#/160# - 224#
SIP: 1250# - 1142#
BHT: 120°

6/29/92 Go in hole with bit at 7:00 a.m. Preparing to run DST #4.

DST #4 (Drum) 4859'-76'
30"-60"-60"-60"
IFP: Strong Blow
GTS: 6"
IFP Gauged: 48.6 MCFD @ 10", 56.1 MCFD @ 20", 48.6 MCFD @ 30". FFP
Gauged: 10.9 MCFD @ 10", 25.1 MCFD @ 20", 35.5 MCFD @ 30", 35.5 MCFD @
40", 25.1 MCFD @ 50", 21.9 MCFD @ 60".
RECOVERED: 2140' clean gassy oil, 38 gravity.
HSP: 2366#-2323#
FP: 117#-224#-320#--534#
SIP: 1390#-1357#
BHT: 120°.

6/30/92 Depth at 7 a.m. 4925' and drilling.

7/1/92 Depth at 7 a.m. 5290' and drilling.

DST #5: (Novinger) 5267'-5318'
30"-60"-60"-60"
IFP: Strong 12" blow in 3" (No blow on shut-in)
FFP: Strong 12" blow in 6"
RECOVERED: 465' gas in pipe, 837' of gassy mud, 837' of mud & 186' of muddy
water.
HSP: 2585#-2530#
FP: 170#-480#/544#-959#
SIP: 1671#-1627#
BHT: 124°

7/2/92 Depth at 7 a.m. 5345' and drilling.

7/3/92 Depth at 7 a.m. 5602' and drilling.

7/4/92 Depth at 7 a.m. 5830' and drilling.

DST #6: (Morrow Sd) 5763'-5830'
30"-60"-60"-90"
IFP: Strong blow with GTS/10"
IFP Gauged: 115 MCFD @10", 132 MCFD @ 20", 146 MCFD @ 30"
FFP Gauged: 231 MCFD @ 5", 200 MCFD @ 10", 163 MCFD @ 20".
RECOVERED: 190' GCM
HSP: 2825#-2748#
FP: 138#-138#/85#-96#

SIP: 1876#-1865#
 BHT: 125°

7/5/92 Depth at 7 a.m. 6075' and drilling.
 7/6/92 Depth at 7 a.m. 6345' and drilling. Logged hole.
 7/7/92 Depth at 7 a.m. 6400'. Ran 114 jts, 5 1/2", 15.5# casing. Cemented with 125
 sxs of 40/60 pozmix. Set at 5112'. Plug down 7 p.m. 7/7/92. Released rig at
 8 p.m.

FORMATION TOPS (SAMPLE)

	Good A #1 SW SW <u>Section 20</u>	Good B #1 SE SE <u>Section 19</u>	Quinque #1-20 Begood <u>Section 20</u>
Chase Gp Her Ls 2675 (+ 53)	flat	-6	-12
Winfield Ls 2771 (-43)	-1	-4	-6
Council Grove 3054(-325)	+2	+5	-20
Heebner 4387(-1658)	-19	-11	-15
Toronto 4411(-1682)	-23	-11	-13
Lansing 4535(-1806)	flat	flat	-9
T/lola 4835(-2106)	-7	+3	+7
B/lola 4845 (-2116)	-5	+4	+7
Drum 4866 (-2137)	-7	+2	-10
Swope 4994 (-2265)	-6	+12	+8
Top Swope 5019 (-2290)	-5	+15	+23
Base Swope 5077 (-2348)	-7	0	-5
BKC 5141 (-2492)	-4	-4	0
Marmaton 5225 (-2496)	-14	-6	-3
Novinger 5303 (-2574)	-12	-8	-8
Oswego 5351 (-2622)	-16	-17	-10
Cherokee Sh 5393 (-2664)	-18	-16	-9
Excello 5438 (-2709)	-18	-16	-14
Morrow Sh 5777 (-3048)	-18	-13	-5
Morrow Sd 5818 (-3089)	-17	--	--
B/Morrow Sd 5838 (-3109)			
Miss Chester D 5928(-3199)	-16	-25	-12
Miss Chester C 5988 (-3259)	-13	-22	+1
Miss Chester B 6005(-3276)	-16	-18	-3

FINAL REPORT

CHARTER PRODUCTION COMPANY
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316/264-2808

Good "A" #2	GL 2718'
1980' FSL & 660' FWL	KB 2728'
Section 20-34S-31W	
Seward County, Kansas	
White Label Prospect	

COMPLETION REPORT

7/13/92 MIRU.

7/14/92 Ran CBL. Plug back TD at 5063'. Top of cement 4510'. Poor cement bond. Perforated four squeeze holes at 4905'-06'.

7/15/92 Set packer at 4831'. Established injection rate of 3 BPM at 900#. Squeezed 4905'-06' perms with 100 sxs of Class A Cement to 1500#. Reset packer at 4550' and 100# on tubing.

7/16/92 Shut in. WOC.

7/17/92 Pulled out of hole with packer. Tripped in hole with 4 7/8" bit and drilled out squeeze cement. Tested squeeze cement 610#. Pulled out 1/2 of tubing and shut down due to heavy rain and severe lightening.

7/18/92 Pulled out of hole with tubing. Reran cement bond log. Improved cement bond from 4886'-4946' to good bond. Ran CBL with 500# on casing. Swabbed casing to 4000 ft. Perforated drum 4892'-94' (4 shots per ft). Casing swabbed 21 BBL load to 4890'. Shut in 30" and found 20' of fluid entry with trace of oil and gas.

7/19/92 Shut in

7/20/92 CSIP 0. FL 3100'. Recovered 10' of oil & 1780' salt water. Tripped in hole with packer and set at 4827'. Squeezed 4892'-94' perms to 2000# with Class "H" cement (approximately 50 sxs cement into formation). Pulled 4 stands of tubing and left 1000# on cement. SI at 7:30 p.m.

7/21/92 Shut in. Waiting on cement.

7/22/92 TSIP 950#. Pulled out of hole with packer. Tripped in hole with 4 7/8" bit and drilled cement for 4882'. Tested cement plug to 520#. Pulled out of hole with bit. Swabbed casing to 4000'. Set cast iron bridge plug at 4878'. Perforated Drum at 4860'-4864' (4 shots per foot). No surface pressure or fluid fill up after perforating. Swabbed 1 1/2 hrs. Recovered 26 BOF with ending oil cut of 39% & fluid at 4800'. 15" SI & found only 60' of fluid entry.

7/23/92 SIP 75# . Fluid level 2050'. Overnight fill up of 2750' (65 BF, 44% oil & 56% SW). Swab Tested 4860'- 4864' as follows:

1st hr	20 BF	100% oil	FL 2050'-3100'	6 pulls
2nd hr	35 BF	14% oil	FL 3100'-4450'	8 pulls
		86% SW	113,184 Chlorides	
3rd hr	10 BF	60% oil	FL 4550'-4800'	4 15" SI pulls
		40% SW		
4th hr	10 BF	70% oil	FL 4800'	2 30" SI pulls
		30% SW		
5th hr	4 BF	70% oil	FL 4800'	2 30" SI pulls
		30% SW		
6th hr	4 BF	60% oil	FL 4800'	2 30" SI pulls
		40% SW		
7th hr	5 BF	65% oil	FL 4800'	2 30" SI pulls
		35% SW		
8th hr	5 BF	65% oil	FL 4800'	2 30" SI pulls
		35% SW		
9th hr	6 BF	60% oil	FL 4775'	2 30" SI pulls
		40% SW		

- 7/24/92 SI Pressure 200#. Fluid Level 2500'. Set CIBP at 4846'. Perforated 4 squeeze holes at 4800'-01'. Tripping in hole with packer to squeeze. Set Squeeze Packer at 4731'. Squeezed 4800 - 4801 perfs with sacks of cement to 1500#. Pulled packer-4 stands and left 500# on tubing.
- 7/25/92 WOC
- 7/26/92 WOC
- 7/27/92 Drilled squeeze cement and tested to 515#. Drilled CIBP at 4846'. Reran CBL. PBDT 4876'. Good cement bond from 4776'-4864' (bottom of interval logged).
- 7/28/92 Fluid level 500'. Casing swabbed, 102 bbls load water with no show. SI 30" and found no entry into well bore. Dumped 25 bbls formation water down casing. Reperforated 4860'-64' (4 shots per foot with FL at 3800'). No change in fluid level. Swabbed down; 15" SI and found no show; 30" SI, found 2 gal wtr with trace of oil and very small show of gas; 60" SI and found very small show of gas. Set packer at 4850'. Treated 4860'-64' perfs with 400 gal 15% NE acid. Total load 39 bbls. Pressured perfs with bleed off over 36". Formation broke at 2200# - back to 800#. Injection pressure decreased 800-0. AIR 1 bpm. ISIP vacuum. Tubing swabbed 1 1/2 hrs recovering 35 1/2 bbl fluid with ending oil cut of 70%, good show of gas and FL at 1800'.
- 7/29/92 TSIP 215#. Opened well on 3/4" choke & flowed 9 1/2 BF in 1 hr & died. Swabbed 4 hrs recovering 93.2 BF with ending oil cut of 86%. Pulled out of hole with packer. Ran 2 7/8" tubing & landed SN at 4857' and bottom of mud anchor at 4872'.
- 7/30/92 Ran 133 3/4" rods and 60 7/8" rods with scrappers and 2 1/2" X 1 3/4" X 17' pump. Rig down. Installed flow line and 1/2" fuel line.

FINAL REPORT

CHARLES R. SCHMALTZ

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

CHARTER PRODUCTION COMPANY

GOOD 'A' #~~1~~ 2

C NW SW SEC. 20-T34S-R31W

SEWARD COUNTY, KANSAS

ELEVATIONS:

2718 GL
2729 KB

CONTRACTOR:

ZENITH DRILLING CO.
RIG #1
MIKE GEARHART
Relief Toolpusher

COMMENCED:
COMPLETED:

21 JUNE 1992
7 JULY 1992

CASING - Surface -
- Production

8 5/8 @ 1519'
5 1/2 @ 5112'

MUD PROGRAM:

STEVENS MUD CO.
Chemical
Bruce Stevens - Engineer

DRILL STEM TESTS:

TRILOBITE TESTING CO. (6)
Steve Bowman - Tester

LOGGING PROGRAM -

BPB LOGGING SERVICES
1) DIL w/ SP - GR
2) PDS - CN w/ PE
3) MRS

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

6/21 MIRT
6/22 1330'
6/23 1870'
6/24 2885'
6/25 3565'
6/26 4260'
6/27 4435' DST #1 & #2
6/28 4572'
6/30 4925' DST #3 & #4
7/1 5290' DST #5
7/2 5345'
7/3 5602'
7/4 5830' DST #6
7/5 6075'
7/6 6345' LOG
7/7 6400' SET PIPE

The following is a structural comparison between the Charter Production Co. Good 'A' #2 and the Charter Good 'A' #1.

<u>FORMATION</u>	<u>GOOD 'A' #2</u>	<u>GOOD 'A' #1</u>
WINFIELD	2775 (- 46)	2768 (- 42)
COUNCIL GROVE	3051 (- 322)	3053 (- 327)
HEEBNER SHALE	4381 (-1652)	4365 (-1639)
TORONTO	4401 (-1672)	4385 (-1659)
LANSING	4531 (-1802)	4532 (-1806)
IOLA	4830 (-2101)	4824 (-2098)
DRUM	4858 (-2129)	4854 (-2128)
BKC	5141 (-2414)	5135 (-2409)
MARMATON	5222 (-2493)	5208 (-2482)
CHEROKEE SHALE	5388 (-2659)	5372 (-2646)
MORROW SHALE	5771 (-3042)	5756 (-3030)
UPPER MORROW SD.	5814 (-3085)	5798 (-3072)
MISSISSIPPIAN CHESTER	5930 (-3201)	5909 (-3183)
MISSISSIPPIAN ST. GEN.	6225 (-3496)	6208 (-3482)
MISSISSIPPIAN ST. LOUIS	6320 (-3591)	6311 (-3585)
TOTAL DEPTH - LTD	6397 (-3668)	6437 (-3711)
TOTAL DEPTH - RTD	6400 (-3671)	6440 (-3714)

The Charter Production Co. Good 'A' #2 was drilled to extend Kansas City Iola and Drum Limestone production and Morrow Sand gas production discovered in the Charter Good 'A' #1 exploratory well. The Good 'A' #2 was structurally similar to the Good 'A' #1 on the shallow Permian formations, varying on a few feet high or low. Thickening occurred in the Upper Pennsylvanian and the Good 'A' #2 was 13 feet low on the Heebner Shale. A quick reversal in the Douglas interval occurred and the 'A' #2 was 4 feet high on the top of the Lansing. This structural position changed slightly through the interval to the oil bearing zones of the Iola and Drum, where the Good 'A' #2 was 3' and 1' low respectively. A drill stem test covering the Iola recovered commercial quantities of oil, as did a second drill stem test covering the Drum (See DST results on following page).

The Good 'A' #2 thickens in the Lower Lansing section and was 11' to 18' low to the 'A' #1 for the remainder of the well. An Upper Morrow Sand was encountered, but was calcareous and appeared to be tight in the samples. A DST over this sand recovered gas at a rate of less than 200 MCF. Logs showed this sand to be tight and highly calcareous and did not warrant further evaluation through casing.

CONCLUSIONS

Based on drill stem test recoveries, and radiation and electric logs, the decision was made to run 5 1/2 casing to produce the Kansas City Iola and Drum Limestones on 7 July 1992.

DRILL STEM TESTS

DST #1 - (4384 - 4435) TORONTO
30"-60"-60"-90"

IFP: Weak building to strong blow in 14 minutes
FFP: Weak building to strong blow in 50 minutes

RECOVERED: 620' Gas in Pipe
279' GCM
341' GCW
CHL: 23,000 ppm spl
4,000 ppm pit

HSP: 2159#/2093#
FP: 85#-128#/181#-320#
SIP: 1293#-1293#
BHT: Not Taken

DST # 2 - (4540 - 4555) LANSING
30"-30"-15"-30"

IFP: Weak 1/4" blow
FFP: No blow

RECOVERED: 10' Mud

HSP: 2290#-2192#
FP: 21#-21#/21#-21#
SIP: 768#-587#
BHT: 115 F

DST #3 (4820 - 4848) IOLA

IFP: Strong blow - GTS/ 7 minutes

IFP: Gauged 9.5 MCF @ 15"
10.1 MCF @ 20"
10.6 MCF @ 25" & 30"

FFP: Gauged 5.3 MCF @ 5"
15.9 MCF @ 10"
10.6 MCF @ 20"

8.2 MCF @ 30"
6.5 MCF @ 40"
7.5 MCF @ 50"
3.7 MCF @ 60"

RECOVERED: 365' Clean Gassey Oil
(60% Gas, 40% Oil)

475' Gassey Oil Cut Mud
(50% Gas, 20% Oil, 30% Mud)

HSP: 2366#/2312#
FP: 106#-117#/160#-224#
SIP: 1250#/1152#
BHT: 120 F

DST # 4 (4859 - 4876) DRUM

IFP: Strong blow - GTS/ 6 minutes

IFP: Gauged 48.6 MCF @ 10"
56.1 MCF @ 20"
48.6 MCF @ 30"

FFP: Gauged 10.9 MCF @ 10"
25.1 MCF @ 20"
35.5 MCF @ 30"
35.5 MCF @ 40"
25.1 MCF @ 50"
21.9 MCF @ 60"

RECOVERED: 2140' Gassey Oil (38 Gr. @ 68 F
(Reversed Fluid)

HSP: 2366#/2323#
FP: 117#-224#/320#-534#
SIP: 1390#/1357#
BHT: 120 F

DST #5 (5267 - 5318) NOVINGER

IFP: Strong blow in 3 minutes

FFP: Strong blow in 6 minutes

(Slowly lost mud down hole entire test)

RECOVERED: 465' Gas in Pipe
837' Slightly Gas Cut Mud
(5% Gas, 95% Mud)
837' Mud
186' Muddy Water
(40% Mud, 60% Water)

CHL: 31,000 ppm - spl
4,100 ppm - pit

HSP: 2585#/2530#
FP: 170#-480#/544#-959#
SIP: 1671#/1627#
BHT: 124 F

DST #6 (5763 - 5830) UPPER MORROW SAND
IFP: Strong blow - GTS/ 10 minutes

IFP: Gauged 115 MCF @ 10"
132 MCF @ 20"
146 MCF @ 30"

FFP: Gauged 200 MCF @ 10"
163 MCF @ 20" & Stabilized

RECOVERED: 190' Gas Cut Mud

HSP: 2825#/2748#
FP: 138#-138#/85#-96#
SIP: 1876#/1865#
BHT: 125 F