NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [✓] Initial [ ] Annual [ ] Special — Test Date: 8-16-77

Company: CONSOLIDATED OIL & GAS CO. — Connection:

Pool: — Formation: Mesa Verde — Unit:

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
		6552		CHAMPLIN

Csg. Size	Wt.	d	Set At	Perforations	Well No.
7.0 4.5			4286 6552	From 6270 To 6319	7-A

Tbg. Size	Wt.	d	Set At	Perforations	Unit	Sec.	Twp.	Rge.
1.5			6302	From To	P	25	27	4

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE GAS		RIO ARRIBA

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
Csg	@		12.0	N. M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.650				X		

FLOW DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI	7-DAYS				949		1009		
1.	2 x 3/4				288		232	69	3 HRS.
2.									
3.									
4.									
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.452		244	0.9915	1.240	1.023	2902
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXX
Specific Gravity Flowing Fluid _____ XXXXXXXX
Critical Pressure _____ P.S.I.A.
Critical Temperature _____ R

RECEIVED AUG 22 1977 OIL CON. COM. DIST. 3

P_c 1021 P_c^2 1092441

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		300	90000	952441
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0945$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0700$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3105$

Absolute Open Flow 3105 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .75

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	ROD GRIMES	NEIL TESTELLER	

Sheet No._____ Page_____ of_____

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

File_____

Company_____ Lease Champlin Well No. 7-A Element No._____ Range_____
Field_____ County_____ State_____ Clock_____ Rotation_____
Formation_____ Elevation_____ Datum_____ P. I. Depth_____ Unit No._____ Operator_____

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

Date	Status of Well	Time	Elapsed Time Hrs.	Elapsed Time Min.	Tank No.	Tank Gauge Ft.	Tank Gauge In.	Interval Prod. In.	Interval Prod. Bbls.	Daily Rate Oil B/D	Daily Rate Gas MCF/D	Wellhead Pressure Tbg	Wellhead Pressure Csg	BHP @ Ext: In.	BHP @ Ext: Psig
8/16	Well Shut-in	11:00									D.W.T.	949	1009		
	Started Test	11:30									69°	930	960		
		12:00									69°	480	445		
		12:30									69°	372	332		
		1:00									68°	334	292		
		1:30									70°	312	266		
		2:00									70°	298	246		
		2:30									69°	288	232		
	Shut-in														

Bbls/Inch_____ Tank Size_____ Separator Pressure_____ psig at_____ °F Water Production_____ B/D
Remarks:

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-17-77

Days: ____ Depth: ____ Ft.; Formation: ____; Drilled ____ Ft. in ____ Hrs.

Present Operation: ____

MUD:

Wt. ____ lb/gal
Visc. ____ sec.
WL ____ cc
FC ____ 32nds.
LCM ____ lb/bbl

Salinity ____ ppm
ph ____
%Oil ____
%Solids ____
% Sand ____

PUMP AND DRLG. DATA:

Pump press. ____
Strokes ____
Liner size ____
Jets ____
RPM ____
Wt. on bit ____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

____ ° @ ____ Ft.
____ ° @ ____ Ft.
____ ° @ ____ Ft.
____ ° @ ____ Ft.

COST DATA:

Daily Mud ____ Accumulative Mud ____
Daily Water ____ Accumulative water ____
Daily Bits ____ Accumulative Bits ____
Misc. ____ Accumulative Misc. ____
Total Daily ____ Accumulative Daily ____

HYDROCARBON SHOW DATA:

REMARKS

1 Point test 8-16-77

11:AM.	temp.	SI 949#	Ca 1009#
11:30 AM.	69°	930	960
12:— Noon	69°	480	445
12:30 PM	69°	312	332
1:00 PM	68°	334	292
1:30 PM	70°	312	266
2:— PM	70°	298	246
2:30 PM	69°	288	232

test Run by testers flowing Casing

8-17-77 8AM. 17½ hr. SI tP 940# cP 960#
8-18-77 8AM. SI tP 960# cP 990#

DRILLING REPORT

Well Name & No. Champlin Date 8-13-77

Days:_____ Depth:_____ Ft.; Formation:_____; Drilled_____ Ft. in _____ Hrs.

Present Operation:_____

MUD:

Wt._____ lb/gal
Visc._____ sec.
WL_____ cc
FC_____ 32nds.
LCM_____ lb/bbl

Salinity_____ ppm
ph_____
%Oil_____
%Solids_____
% Sand_____

PUMP AND DRLG. DATA:

Pump press._____
Strokes_____
Liner size_____
Jets_____
RPM_____
Wt. on bit_____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

_____°@_____ Ft.
_____°@_____ Ft.
_____°@_____ Ft.
_____°@_____ Ft.

COST DATA:

Daily Mud_____ Accumulative Mud_____
Daily Water_____ Accumulative water_____
Daily Bits_____ Accumulative Bits_____
Misc._____ Accumulative Misc._____

Total Daily_____ Accumulative Daily_____

HYDROCARBON SHOW DATA:

REMARKS

8AM: SI TP 945# CP-1000#

8-14-77 SI TP. 950# CP. - 1010#

8AM 8-15-77 SI TP 960 CP 1015#

8AM. 8-16-77 SI TP. 965# CP. 1020#
testeller will Run 1 Point test to day.

DRILLING REPORT

Well Name & No. Champlin 7A-25 Date: 8-8-77

Days:_____ Depth:_____ Ft.; Formation:_____; Drilled_____ Ft. in_____ Hrs.

Present Operation:_____

MUD:

Wt._____ lb/gal Salinity_____ ppm

Visc._____ sec. ph_____

WL_____ cc %Oil_____

FC_____ 32nds. %Solids_____

LCM_____ lb/bbl % Sand_____

PUMP AND DRLG. DATA:

Pump press._____

Strokes_____

Liner size_____

Jets_____

RPM_____

Wt. on bit_____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

_____° @_____ Ft.

_____° @_____ Ft.

_____° @_____ Ft.

_____° @_____ Ft.

COST DATA:

Daily Mud_____ Accumulative Mud_____

Daily Water_____ Accumulative water_____

Daily Bits_____ Accumulative Bits_____

Misc._____ Accumulative Misc._____

Total Daily_____ Accumulative Daily_____

HYDROCARBON SHOW DATA:

REMARKS

11:30 A

F+P 375 Ca 395 Pitot tub 3½" = 1350 MCF.

Shut well in at 11:45 AM 8-7-77 for 7 day

Build up. 21 hrs Build up.

8-8-77 8:45 tub. 600# Ca. 830#

tri lb c 2" = tub 1120# Ca 1120#

Jw c 1" = Blowing down 3/4" wide open

8-8-77 7:50 AM tub 860# Ca. 910#

" " tri lb c 2": 8.10 tub. 1155# Ca. 1135#

8-9-77 Champ 7A-25 ST tub. 895# Ca 950#

8-9-77 tri lb c 2A-6 = ST. tub. 1150# Ca. 1150#

8-12-77 Champ 7A ST. TP. 940# CP. 990#

DRILLING REPORT

8AM Report

Well Name & No. Champlin 7-A Date: 8-1-77

Days: ____ Depth: ____ Ft.; Formation: ____; Drilled ____ Ft. in ____ Hrs.

Present Operation: Cleaning well

MUD:

Wt. ____	lb/gal	Salinity ____	ppm
Visc. ____	sec.	ph ____	
WL ____	cc	%Oil ____	
FC ____	32nds.	%Solids ____	
LCM ____	lb/bbl	% Sand ____	

PUMP AND DRLG. DATA:

Pump press. ____
Strokes ____
Liner size ____
Jets ____
RPM ____
Wt. on bit ____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

____ ° @ ____ Ft.
____ ° @ ____ Ft.
____ ° @ ____ Ft.
____ ° @ ____ Ft.

COST DATA:

Daily Mud ____	Accumulative Mud ____
Daily Water ____	Accumulative water ____
Daily Bits ____	Accumulative Bits ____
Misc. ____	Accumulative Misc. ____
Total Daily ____	Accumulative Daily ____

HYDROCARBON SHOW DATA:

REMARKS

Ran 6 Jt 1 1/2" tubing 4' of 7 Jt. tagged sand at 6481
Layed down 7 Jts. Landed tubing with 200 Jts in hole at 6302 KB.
11 Ft Sand in Rat hole, Bottom Perf at 6319'
Ran Sinker Bar on sand line and broke disk. Swabbed
well in at 2:30 PM. Left well flowing thrue 3/4"
Choke to Pit. Riged down. 2:30
7:30 AM = tubing 83# Casing 400# Pitot tube: 4# / 450 MCF.
tubing Not Heading, Gas Stream water Shaterated.
Left well flowing

tibble 2A-6 tub 1115' Ca 1115#
Jim C 1A-11 tubing 1130 PK in hole Casing 0#

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-6-77

Days: 4 Depth: Ft.; Formation: ; Drilled Ft. in Hrs.

Present Operation: Preparing to lay sand + land 1½ tub.

MUD:

Wt. lb/gal Salinity ppm

Visc. sec. ph

WL cc %Oil

FC 32nds. %Solids

LCM lb/bbl % Sand

PUMP AND DRLG. DATA:

Pump press.

Strokes

Liner size

Jets

RPM

Wt. on bit lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

°@ Ft.

°@ Ft.

°@ Ft.

°@ Ft.

COST DATA:

Daily Mud Accumulative Mud

Daily Water Accumulative water

Daily Bits Accumulative Bits

Misc. Accumulative Misc.

Total Daily Accumulative Daily

HYDROCARBON SHOW DATA:

REMARKS

8-5-77 7:30 AM FP 18/530 Heavy mist with small stream of wtr Reported 8-5-77

8-5-77 Pickup Blewit line from Tribal C-2A + haul to location and lay. Rig up to pull 2" tub. Blewit line would not hook up had to move blewit line. Re-hook blewit line. Opened up to blewit line. Blew gasket on Blow T. Put in new gasket. Run plug in Baker F nipple. Start pulling & laying down 2⅜ tub. Rig up & run 200 jts 6290. Left well blowing out 2" Csg valve. S.D.F.N.

(Had to run 1½ disc in tub.)

(unload heavy stream of water out Csg while pulling & running tub

8-11-77 8AM. TP 920# CP 980#

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-5-77

Days: 3 Depth: ____ Ft; Formation: ____; Drilled ____ Ft. in ____ Hrs.

Present Operation: Flowing well & preparing to run tbg.

MUD:

Wt. ____ lb/gal Salinity ____ ppm

Visc. ____ sec. ph ____

WL ____ cc %Oil ____

FC ____ 32nds. %Solids ____

LCM ____ lb/bbl % Sand ____

PUMP AND DRLG. DATA:

Pump press. ____

Strokes ____

Liner size ____

Jets ____

RPM ____

Wt. on bit ____ lb

8-4-77 8:30 AM Fl. 2500' down 16 hrs SIP 0/0 after frac.

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

8-5-77 7:30 AM Flow press 180/530 Heavy mist with stream of water 3/8" dia no sand. 9# on pitot tube 2190 mcf

DEVIATIONS:

____ °@ ____ Ft.

____ °@ ____ Ft.

____ °@ ____ Ft.

____ °@ ____ Ft.

COST DATA:

Daily Mud ____ Accumulative Mud ____

Daily Water ____ Accumulative water To wet to measure

Daily Bits ____ Accumulative Bits ____

Misc. ____ Accumulative Misc. ____

Total Daily ____ Accumulative Daily ____

HYDROCARBON SHOW DATA:

8:00 AM 8-5-77 Gic C 1A 1130/0 Tubic 2A 1075/1075

REMARKS

Swab & flow record

Time	FL.	Swab	BW	T.P.	C.P.	GAS	Sd	pitot
9:00	2600	4000	10	0	0	0	0	0
11:00 2 hrs	2800	4800	40	0	0	0	0	0
2:00 PM 3 hrs	Scattered 3000	5800	60	0	3#	Show	0	0
4:00 PM 2 hrs	"	6150	50	0	15#	Good Show	0	0
5:00 PM	"	"	40 est	0	20#	Good Show	0	0
6:00 PM	Flow	2" open	40 est	0	30#	good	0	To wet
7:00 PM	Flow	3/4 full choke	40 est	60#	50#	"	0	To wet
7:30	"	"	15 est	100#	70#	2#	= 1020 mcf	
			295				To wet	To measure

7:30 AM Flow 3/4 full choke 180# 530# making good gas to wet for good measurement but 9# on pitot tube = 2190 mcf-PD. Flowing heavy mist with small stream of water est. 140 Bw in 12 hrs

Total wtr est flow & swab 435 Bw.

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-4-77

Days: 2 Depth: _____ Ft.; Formation: _____; Drilled _____ Ft. in _____ Hrs.

Present Operation: _____

MUD:

Wt. _____ lb/gal
Visc. _____ sec.
WL _____ cc
FC _____ 32nds.
LCM _____ lb/bbl
Salinity _____ ppm
ph _____
%Oil _____
%Solids _____
% Sand _____

PUMP AND DRLG. DATA:

Pump press. _____
Strokes _____
Liner size _____
Jets _____
RPM _____
Wt. on bit _____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

_____ ° @ _____ Ft.
_____ ° @ _____ Ft.
_____ ° @ _____ Ft.
_____ ° @ _____ Ft.

COST DATA:

Daily Mud _____ Accumulative Mud _____
Daily Water _____ Accumulative water _____
Daily Bits _____ Accumulative Bits _____
Misc. _____ Accumulative Misc. _____
Total Daily _____ Accumulative Daily _____

HYDROCARBON SHOW DATA:

_____

REMARKS

8-3-77 9:00 AM Western Co. pump 100 BBl 1% K.C.L. water ahead of 1000 gal 15% HCL. caught fluid with 190 BBl away. Press up to 3000# @ 30 B.P.M. With acid on formation press broke to 2000# @ 30 B.P.M. With acid away slowed to 27 B.P.M. @ 1800# Started pad to frac, perfs 6270, 6274, 6277, 6289, 6293, 6298, 6305, 6310, 6314, 6319 total 10 perfs. used 4000 gal of pad, 32,500 gal frac fluid plus 65,000# 20/40 sand. All pad and frac fluid contained 3% HCL, 1% K.C.L., a surfactant, iron stabilizer, a gelling agent and F.L.A., Flushed to perfs with 1% KCL Water and surfactant. Total load to recover 1162 BBl.

OVCR

MAX press	3000 #
MIN press	450 #
A. I. P	700 #
A. I. R.	27 BPM
I. S. I. P.	0
AVG. H.P.	463

Rig up and run 1 jt 2 3/8 tub., 1 Bakers F nipple + 182 jts of 2 3/8 tub. landed @ 6222' KB.

8-4-77 8:00 Am press 0/0

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-3-77

Days: 1 Depth: _____ Ft.; Formation: _____; Drilled _____ Ft. in _____ Hrs.

Present Operation: _____

MUD:

Wt. _____ lb/gal
Visc. _____ sec.
WL _____ cc
FC _____ 32nds.
LCM _____ lb/bbl

Salinity _____ ppm
ph _____
%Oil _____
%Solids _____
% Sand _____

PUMP AND DRLG. DATA:

Pump press. _____
Strokes _____
Liner size _____
Jets _____
RPM _____
Wt. on bit _____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

_____ ° @ _____ Ft.
_____ ° @ _____ Ft.
_____ ° @ _____ Ft.
_____ ° @ _____ Ft.

COST DATA:

Daily Mud _____ Accumulative Mud _____
Daily Water _____ Accumulative water _____
Daily Bits _____ Accumulative Bits _____
Misc. _____ Accumulative Misc. _____
Total Daily _____ Accumulative Daily _____

HYDROCARBON SHOW DATA:

REMARKS

8-2-77 Move in & rig up. Put BOPs. Release Baker Retrivomatic full bore E packer & equalize. Pull stub. 184 jts.
Rig up Blue Jet & perf. 6270' 6274 & 6277 by Formation Density log. (Had to move bottom perf up 1 ft from 6278' to get out of collar in csg.)
Rig down Blue Jet. Rig up to run 2 3/8 tub SDFN.

DRILLING REPORT

Well Name & No. Champlin 7A Date: 8-3-77

Days: 1 Depth: ____ Ft.; Formation: ____; Drilled ____ Ft. in ____ Hrs.

Present Operation: ____

MUD:

Wt. ____ lb/gal
Visc. ____ sec.
WL ____ cc
FC ____ 32nds.
LCM ____ lb/bbl

Salinity ____ ppm
ph ____
%Oil ____
%Solids ____
% Sand ____

PUMP AND DRLG. DATA:

Pump press. ____
Strokes ____
Liner size ____
Jets ____
RPM ____
Wt. on bit ____ lb

BITS:

Bit No.	Size	Make	Type	Footage	Hrs.	Depth Out

DEVIATIONS:

____ °@ ____ Ft.
____ °@ ____ Ft.
____ °@ ____ Ft.
____ °@ ____ Ft.

COST DATA:

Daily Mud ____ Accumulative Mud ____
Daily Water ____ Accumulative water ____
Daily Bits ____ Accumulative Bits ____
Misc. ____ Accumulative Misc. ____
Total Daily ____ Accumulative Daily ____

HYDROCARBON SHOW DATA:

REMARKS

8-2-77 Move in & rig up. put BOPS Release Baker Retrivamatic full bore E packer & equalize. Pull tub. (~~204 jts~~) 199 jts. Rig up Blue Jet & perf. 6273' 6274 & 6277 by Formation Density Log. (Had to move bottom perf up 1 ft from 6278' to get out of collar in csg.) Rig down Blue Jet. Rig up to run 2 3/8 tub SDFN.