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LAND OFFICE		
TRANSPORTER OIL		
TRANSPORTER GAS	✓	
OPERATOR	✓	
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

RECEIVED BY
OCT 04 1984
O. C. D.
ARTESIA, OFFICE

30-005-62156

Operator
Carl A. Schellinger

Address
P.O. Box 447, Roswell, New Mexico 88201

Reason(s) for filing *(Check proper box)*
New Well [X]
Recompletion [ ]
Change in Ownership [ ]
Change in Transporter of: Oil [ ] Dry Gas [ ] Casinghead Gas [ ] Condensate [ ]

Other *(Please explain)*

If change of ownership give name and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Campbell Station Unit	4	Palma Mesa Penn - South	State, Federal or Fee State	L-6276

Location
Unit Letter G ; 1980 Feet From The North Line and 1980 Feet From The East

Line of Section 4 Township 9 South Range 27 East , NMPM, Chaves County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ]

Address *(Give address to which approved copy of this form is to be sent)*

Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [XX]
Transwestern Pipeline Company

Address *(Give address to which approved copy of this form is to be sent)*
P.O. Box 2521, Houston, Texas 77001

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
Dry Gas					~~Will be~~ Yes	~~Approx. 10/6/84~~ 10-8-84

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resv.	Diff. Resv.
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
6/23/84	9/24/84	6735	6500
Elevations *(DF, RKB, RT, GR, etc.)*	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
3842GR, 3853KB	Pennsylvanian	6243	6169
Perforations			**Depth Casing Shoe**
6243-6248; 6321-6327			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12"	8 5/8"	1447'	700 sacks
7 7/8"	5 1/2"	6725'	1000 sacks
	2 3/8"	6169'	-

TEST DATA AND REQUEST FOR ALLOWABLE

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	**Tubing Pressure**	**Casing Pressure**	**Choke Size**
Actual Prod. During Test	**Oil - Bbls.**	**Water - Bbls.**	**Gas - MCF**

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
323	1 hr.	-0-	-
Testing Method *(pitot, back pr.)*	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Back Pr.	1746	Packer	

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

(Signature)

Operator
(Title)

October 1, 1984
(Date)

OIL CONSERVATION COMMISSION

APPROVED NOV 14 1984, 19 _____

BY Original Signed By Mike Williams

TITLE Oil & Gas Inspector

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR ~~GAS WELL~~

RECEIVED BY
SEP 17 1984
O. C. D.
ARTESIA, OFFICE
cjsf file

Type Test: 4 POINT [x] Initial [ ] Annual [ ] Special			Test Date: 9-24-84	
Company: CARL A. SCHELLINGER	Connection: AIR NEW WELL			Unit: ~~G~~
Pool: ~~WILDCAT~~ Und. Pa	Formation: PENN			
Completion Date: 8-24-84	Total Depth: 6735.	Plug Back T.D.: ~~6700.~~ 6500	Elevation: ~~3849.~~ 3845 GL	Farm or Lease Name: CAMPBELL STATION Unit
Csg. Size: 5.500 / Wt.: 15.5 / d: 4.950 / Set At: ~~6700.~~	Perforations: From 6243. To 6327.			Well No.: #4
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6168.	Perforations: From 0. To 0.			Unit: G / Sec.: 4 / Twp.: 9S / Rge.: 27E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: 6169.			County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 131 6285.	Mean Annual Temp. °F: 60.0	Baro. Press. – P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Motor Run	Taps
6285.	6285.	0.695	8.20	3.15	0.	0.	3.1	FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	B.H.P. DATA: Press. p.s.i.g.	CHOKE	Duration of Flow
SI					1746.		2104.		29.0
1.	3.07 X 1.250	100.	4.0	82	1565.		1940.	3/64	1.0
2.	3.07 X 1.250	100.	5.5	76	1395.		1824.	5/64	1.0
3.	3.07 X 1.250	100.	9.7	106.	1285.		1703.	7/64	1.0
4.	3.07 X 1,250	100.	12.0	108.	1160.		1575.	9/64	1.0
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Supercompress. Factor, Fpv	Rate of Flow Q, Mcfd
1	7.58	21.28	113.2	0.9795	1.1995	1.0089	191.
2	7.58	24.95	113.2	0.9850	1.1995	1.0093	225.
3	7.58	33.22	113.2	0.9585	1.1995	1.0075	292.
4	7.58	36.86	113.2	0.9568	1.1995	1.0074	323.
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.16	542.	1.48	0.983
2	0.16	536.	1.47	0.982
3	0.16	566.	1.55	0.985
4	0.16	568.	1.55	0.985
5				

Gas Liquid Hydrocarbon Ratio 0. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0. Deg.
Specific Gravity Separator Gas 0.695 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.695
Critical Pressure 698. P.S.I.A. 698. P.S.I.A.
Critical Temperature 366. R 366. R

P_c 1756.7 P_c^2 3086.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	3815	1624.	2636.	450.
2	3373.	1529.	2339.	747.
3	2944.	1431.	2049.	1037.
4	2522.	1328.	1762.	1324.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.3312$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5301$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 494.$

Post ID-2
9-21-84
Comp + BK

Absolute Open Flow 494. Mcfd @ 15.025 Angle of Slope θ 63.3 Slope, n 0.503

Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT & CATHEY INC.	

2987

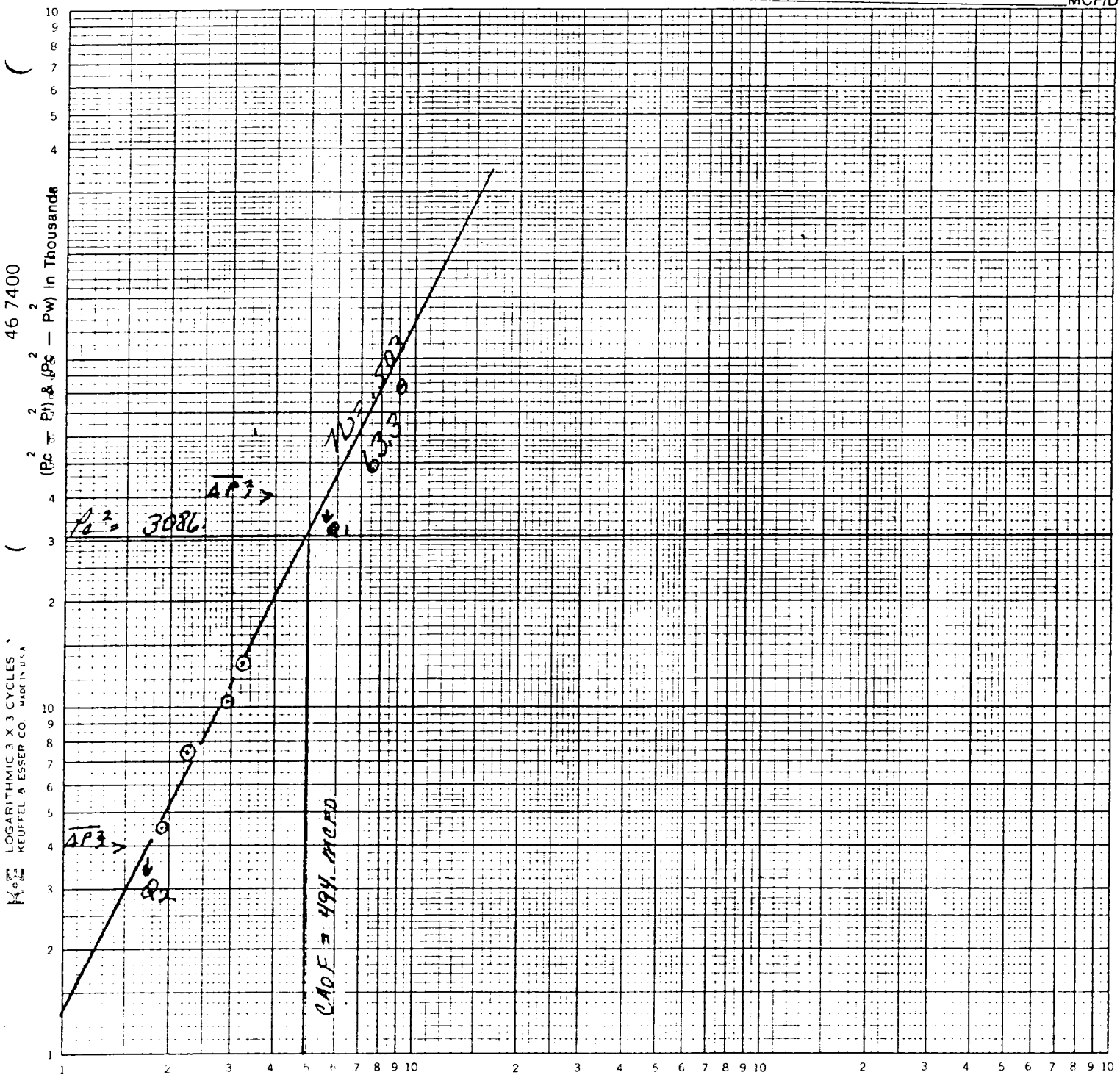
BACK PRESSURE CURVE

Operator CARL SCHELLINGER Lease CAMPBELL STATION Well No. 4

County CHAVES Field WILDCAT Location 4 9S 27E #G

Date of Test 8-24-84 Slope "n" .503 Angle of Slope 63.3

Calc. Abs. Potential _____ MCF/D



$\overline{\Delta P_1^2}$ $P_c^2 - P_w^2 =$ 4000

$\overline{\Delta P_2^2}$ $P_c^2 - P_w^2 =$ 400

$Q_1 =$ 557.2

$Q_2 =$ 175.0

LOG $Q_1 =$ 2.746

LOG $Q_2 =$ 2.243

$n =$ .503

COMPANY: CARL SCHELLIN[illegible]R
LEASE: CAMPBELL STAT.ON
FIELD: WILDCAT
COUNTY: CHAVES
STATUS: FOUR POINT BACK PRESSURE TEST
PERFORATIONS FROM: 6248 ft
DEPTH: 6160 ft

CONTACT: FRANK MORGAN
WELL: #4
ZONE: PENN
STATE: NEW MEXICO
OPERATOR: DON BENNETT
TO: 6327 ft
TEMPERATURE: 131'F

ELEMENT# RPG3#
CLOCK#
ELEMENT# RPG3#46950
CLOCK# 1935

ELEMENT RANGE: 0 psia
CLOCK RANGE: 0 hrs
ELEMENT RANGE: 7250 psia
CLOCK RANGE: 12 hrs

START CLOCK	08/24/84	08:43:00	1736 psia
SET ELEMENT	08/24/84	09:56:00	1736 psig
WELL SHUT IN	08/23/84	09:00:00	0 psia
TEST ENDED	08/24/84	18:00:00	1160 psig

GAIN= 1
FILE: CARL-4-2:D701

BIAS= 12 psi
BAROMETRIC PRESSURE= 13.2 psia

ENNETT-CATHEY WIRE LINE SE VICE
PHONE (505) 748-3354
ARTESIA, NEW MEXICO, 88210

PRESSURE TRANSIENT TEST DATA

COMPANY:	CARL SCHELLINGER	CONTACT:	FRANK MORGAN
LEASE:	CAMPBELL STATION	WELL:	#4
FIELD:	WILDCAT	ZONE:	PENN
COUNTY:	CHAVES	STATE:	NEW MEXICO
STATUS:	FOUR POINT BACK PRESSURE TEST	OPERATOR:	DON BENNETT

PERFORATIONS FROM:	6,243.0'	TO:	6,327.0'
ELEMENT DEPTH:	6,160.0'	TEMPERATURE:	131.0'F

ELEMENT:	RPG3#	RANGE:	0 psig
CLOCK:		RANGE:	0 hrs
ELEMENT:	RPG3#46950	RANGE:	7250 psig
CLOCK:	1935	RANGE:	12 hrs

SURFACE PRESSURE MEASUREMENTS

EVENT	DATE	TIME	DEAD WEIGHT PRESSURE
START CLOCK	08/24/84	08:48:00	1,736.0 psig
SET ELEMENT	08/24/84	09:56:00	1,736.0 psig
WELL SHUT IN	08/23/84	09:00:00	0.0 psig
END OF TEST	08/24/84	18:00:00	1,160.0 psig

SUBSURFACE PRESSURE MEASUREMENTS

DATE	TIME	t hrs	GAUGE PRESSURE psig	ABSOLUTE PRESSURE psia	RESERVOIR PRESSURE psia
08/24/84	13:49:35	-.174	2,092.2	2,105.4	2,117.4
08/24/84	14:00:00	0.000	2,092.2	2,105.4	2,117.4
08/24/84	14:15:00	.250	2,037.1	2,050.3	2,062.3
08/24/84	14:30:00	.500	1,979.4	1,992.6	2,004.6
08/24/84	14:45:00	.750	1,950.2	1,963.4	1,975.4
08/24/84	15:00:00	1.000	1,927.9	1,941.1	1,953.1
08/24/84	15:15:00	1.250	1,883.8	1,897.0	1,909.0
08/24/84	15:30:00	1.500	1,853.5	1,866.7	1,878.7
08/24/84	15:45:00	1.750	1,830.5	1,843.7	1,855.7
08/24/84	16:00:00	2.000	1,811.5	1,824.7	1,836.7
08/24/84	16:15:00	2.250	1,778.6	1,791.8	1,803.8
08/24/84	16:30:00	2.500	1,746.5	1,759.7	1,771.7
08/24/84	16:45:00	2.750	1,712.9	1,726.1	1,738.1
08/24/84	17:00:01	3.000	1,690.7	1,703.9	1,715.9
08/24/84	17:15:00	3.250	1,647.6	1,660.8	1,672.8
08/24/84	17:30:01	3.500	1,607.5	1,620.7	1,632.7
08/24/84	17:45:00	3.750	1,584.1	1,597.3	1,609.3
08/24/84	18:00:00	4.000	1,562.9	1,576.1	1,588.1

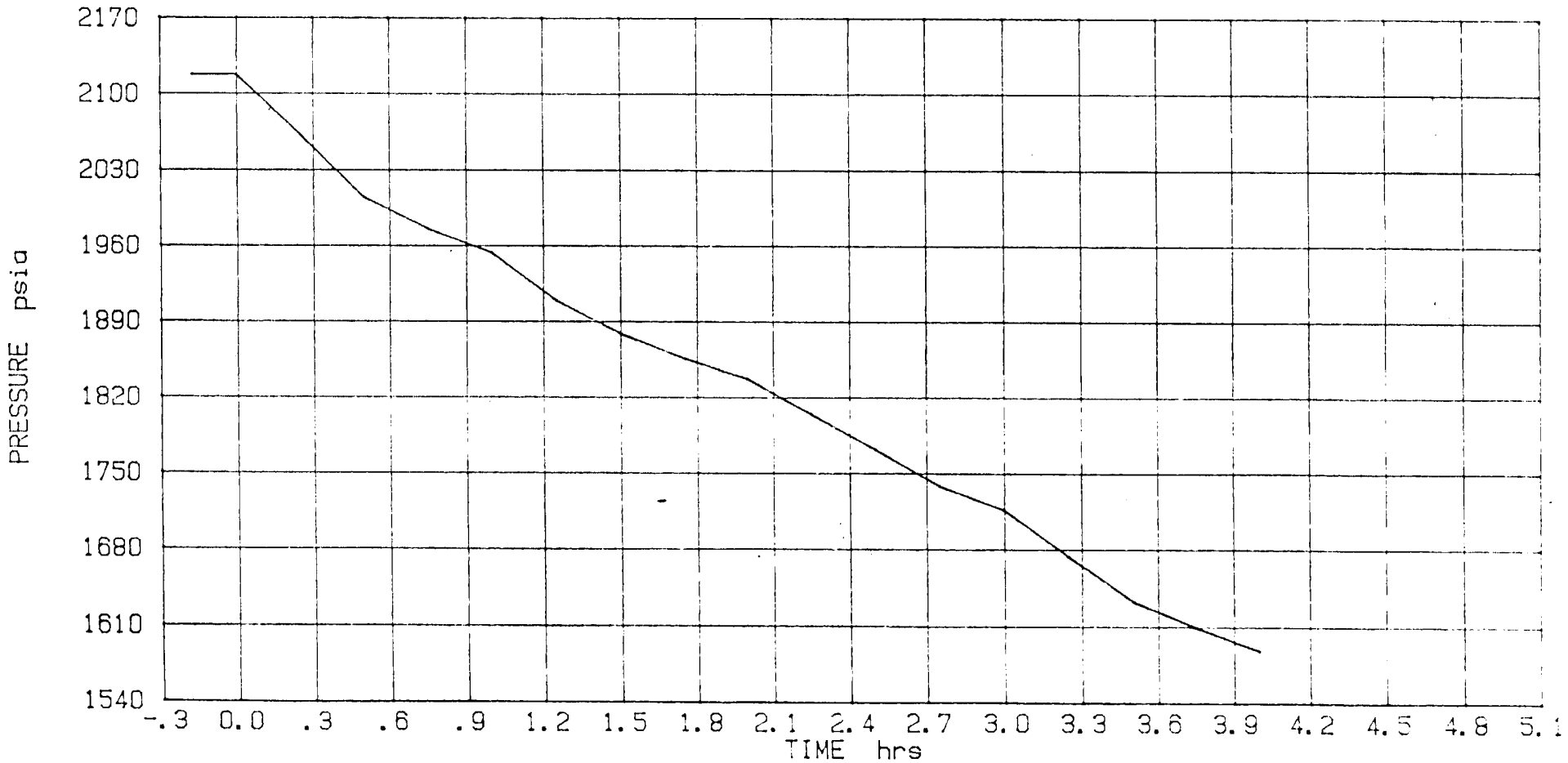
TEST DATE: 08/24/84 TO 08/24/84
TEST DEPTH: 6160 ft
ELEMENT NO: RPG3#46950
RANGE: 7250 psig
CLOCK: 1935
RANGE: 12 hrs
OPERATOR: DON BENNETT

FRANK MORGAN

CARL SCHELLINGER

CAMPBELL STATION #4

BENNETT-CATHEY WIRE LINE SERVICE
Box 787 Artesia, N. M. 88210 (505) 748-3354



"Le ir Interest in Measurement be our Concern"

PRECISION SERVICE INC.

Flow Measurement Engineers
Analysis Results Summary
Casper, WY 82601

Run No. 825-9
Date Run 08/25/94
Date Sampled 08/24/94

Analysis For: BENNETT & CATHEY WRLN.
Lease: Campbell Station Unit #4 Producer: Carl Schettinger
Location: County: Chaves State: New Mexico
Purpose: Sampled By: B & C Wireline
Sampling Temp. 106 °F Atmos Temp. 70 °F
Volume/day 234 MCF/Day Formation:
Pressure on Bomb 100 PSIG; Line Pressure 113.2 PSIA PSIG:

Gas Component Analysis Press. Base: 14.73

	Mol. %	Liq. %	GPM Per MCF
Carbon Dioxide CO_2	8.197		
Oxygen O_2	.026		
Nitrogen N_2	3.152		
Hydrogen Sulfide H_2S			
Methane C1	83.428		14.141
Ethane C2	3.035		.812
Propane C3	.994		.274
Iso-Butane IC4	.169		.055
Nor-Butane NC4	.369		.116
Iso-Pentane IC5	.135		.049
Nor-Pentane NC5	.159		.058
exanes plus	.335		.155
Hexanes C6			
eptanes			
Heptanes Plus C7+			
Total	100.000		15.660
Pentane + G.P.M.			.262
opane + GPM			.707
-lb Gasoline			.717

BTU Dry 973
BTU Wet 952
Calc. Specific Gravity .695

@ Std. Press. 14.696
BTU Dry 971
BTU Wet 954

Calc. Vap. Press. #/Sq.In.
Reid Vap. Press. #/Sq.In.

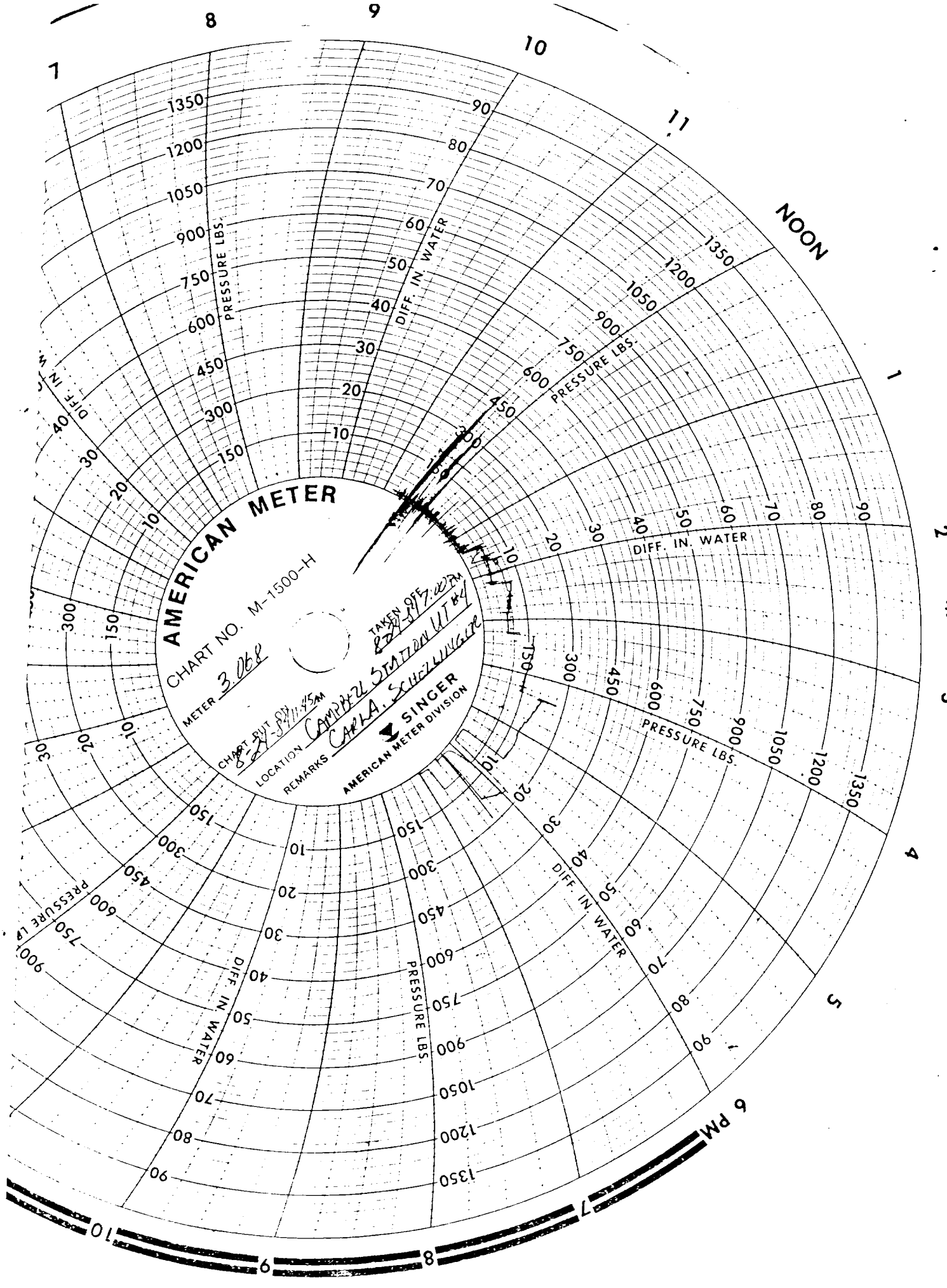
Z Factor .9976
N Value 1.3011
Ave Mol Wt 20.0951
Ave Cu Ft/Gal

Run by Joe H. Kroum
Calculated By Jeffrey A. Propp

Ethane + GPM 1.519

Marks: BTU Wet @14.73 from GPA Reference Bulletin 181-82 Heating Value Conversion Table. Factor: 0.9849

Distribution:


AMERICAN METER
CHART NO. M-1500-H
METER 3.068
CHART PUT ON 8-24-84 11:45AM
LOCATION CAMPBELL STATION U1 #4
REMARKS CARLA SCHLINGER
TAKEN OFF 8-31-84 7:00AM
SINGER
AMERICAN METER DIVISION
NOON
6 PM
PRESSURE LBS.
DIFF. IN WATER
DIFF IN WATER
PRESSURE LBS.

BENNETT-CATHEY WIRE LINE SERVICE

P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone (505) 746-3281

BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR CARL SCHELLINGER
LEASE CAMPBELL STATION
WELL NO. #4
POOL _____ **FORMATION** _____
DATE 8-24-84 **TIME** 0956 HOUR
CO. MAN FRANK MORGAN
STATUS SHUT IN **TEST DEPTH** 6160 FEET
TIME S.I. 0900 HOUR **LAST TEST DATE** 1ST TEST
8-23-84 **BHP LAST TEST** _____
TUB. PRES. 1749.2# **BHP CHANGE** _____
CAS. PRES. _____ **FLUID TOP** _____
DATUM PLANE _____ **WATER TOP** _____
DATUM PSIA 2104.2# **RUN BY** BO FAULKENBERRY
TEMP 131° **CLOCK #** B-3443
PRESSURE RANGE 7250 LBS.
ELEMENT NO. RPG3#46950

DEPTH	PSIA PRESSURE	LBS/100 FT. GRADIENT
0	1749.2	
2000	1864.2	5.7
4000	1977.2	5.7
5000	2031.2	5.4
6010	2090.2	5.8
6160	2104.2	9.3
6285	2116.2	9.6

6285 FEET WAS EXTRAPOLATED.

TIME B.H.P. MEASURED 0956 HOUR

LENGTH OF TIME WELL SHUT IN 24HR 56MIN.

PERFORATIONS FROM 6243 TO 6327 FEET.