ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
P. O. BOX 2088
Santa Fe, New Mexico 87501

August 30, 1982

Meyer, Moritz & Co., Inc.
P. O. Box 7924
Midland, Texas 79703

Attention: Tommy E. Zachry

Administrative Order TX-95

Gentlemen:

Reference is made to your request for an exception to the tubing setting requirements as contained in Division Rule 107(d)(3) for the below-named well.

Pursuant to the authority granted me by Rule 107(d)(4), you are hereby authorized to set tubing at 4969 feet in the following well:

LEASE NAME	WELL NO.	UNIT	S-T-R
Clements Energy King 35 Com	1	J	35-14S-26E

According to our interpretation of the test data submitted to us with your application, this well was not tested through a separator, but instead flowed directly into the air. No data is therefore available as to gas-liquid ratio. You are hereby requested to test the well through a separator within 30 days following pipeline connection and to report the gas-liquid ratio to this office and to the Division's Artesia office. The Division reserves the right to rescind this authority in the event that waste appears to be resulting therefrom.

Very truly yours,

JOE D. RAMEY,
Division Director

JDR/DSN/dr

cc: Oil Conservation Division - Artesia

MEYER, MORITZ & COMPANY, INC.
P.O. BOX 7924 • PHONE (915) 683 1814
MIDLAND, TEXAS 79703

Consulting Petroleum Engineer

Lease Management

August 10, 1982

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State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Sante Fe, New Mexico 87501

ATTN: DIVISION DIRECTOR

RE: APPLICATION RULE 107 (d) 3 EXCEPTION
CLEMENTS ENERGY, INC.
KING 35 COM #1
J-35-14-26
CHAVES COUNTY, NEW MEXICO

Mr. Ramey,

Clements Energy, Inc. is hereby making application for a temporary exception of Division Rule 107(d)3 for its recently drilled and completed (King 35 Com #1-J-35-14-26) located in Chaves County, New Mexico. As stated in a letter addressed to Clements Energy, Inc., dated July 29, 1982, from the NMOCC District II, Artesia office, Rule 107(d)3 requires the tubing to be set not more than 250' above the top of the pay.

The tubing in the referenced well is set at 4969' KB and the top of the pay is at 6925'. We respectfully request a temporary exception to Division Rule 107(d)3 be made for the following reasons:

1) Gas is dry (2) Completion has been made naturally and attempts to kill the well for lowering the tubing will result in damage to the sand resulting in waste. At such time that the well either depletes and a stimulation is required the tubing will be lowered or if the well produces with a lower GOR, then loads up with fluid, the tubing will be lowered.

If you have any questions concerning this matter, please contact me at 915-683-1814.

Tommy Zachry

Tommy E. Zachry, P.E. 48110
Agent Clements Energy Inc.

cc: Bill Gressett
Clements Energy, Inc.

PVZV2004436330

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
ARTESIA DISTRICT OFFICE

July 29, 1982

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

P.O. DRAWER DD
ARTESIA, NEW MEXICO 88210
(505) 748-1283

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Clements Energy Inc.
P.O. Box 7924
Midland, Texas 79703

Re: King 35 Com
#1-J-25-14-26
Chaves County, New Mexico

Gentlemen:

We hereby acknowledge receipt of the completion reports on the subject well, reporting the tubing setting depth of 4979'.

Division Rule 107 (d) 3 requires the tubing to be set not more than 250' above the top of the pay.

Therefore, prior to producing the well you must lower the tubing to comply with said Rule 107 (d) 3 or apply to our Santa Fe office for an exception to the rule.

If you have any questions concerning this matter, please feel free to call upon me.

Sincerely,

W. A. Gressett

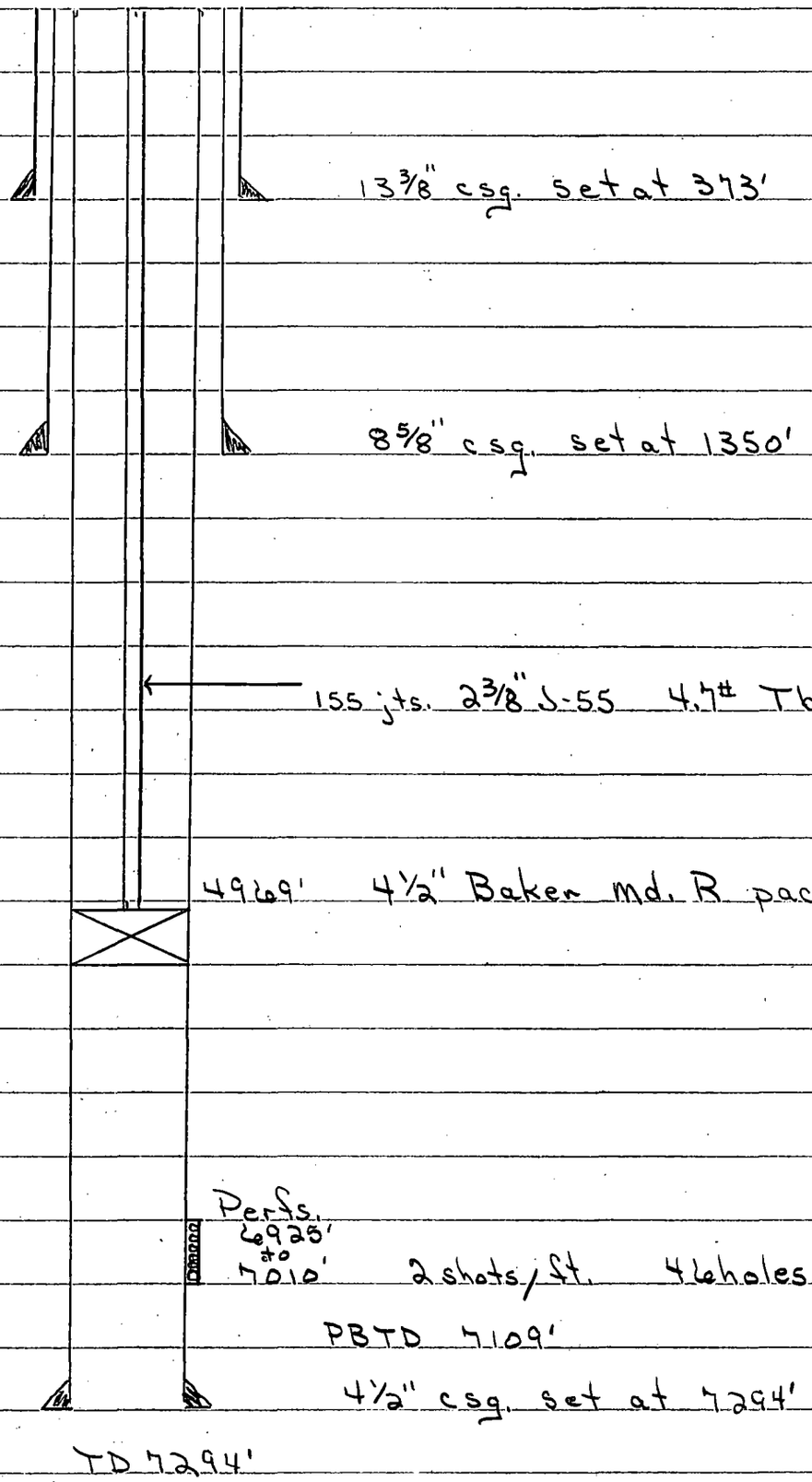
W.A. Gressett
Supervisor District II

KAMEY
Santa Fe
Send Exception
Letter
w/ copy

WAG:mm

Clements Energy

King 35 #1



No hydrocarbon fluids or water recovered during test.

MULTIPOINT AND ONE-POINT BACK PRESSURE TEST FOR GAS WELL

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Type Test: [X] Initial FOUR POINT [ ] Annual [ ] Special					Test Date: 6-22-82
Company: CLEMENTS ENERGY			Connection: AIR NEW WELL		
Pool: UNDESIGNATED			Formation: MORROW		Unit:
Completion Date: 6-15-82	Total Depth: 7294'		Plug Back TD: 7109	Elevation: 3432 KB	Farm or Lease Name: KING 35
Csg. Size: 4.500	Wt.: 11.600	d: 4.000	Set At: 7294'	Perforations: From 6925 To 7010'	Well No.: 1
Tbg. Size: 2.375	Wt.: 4.700	d: 1.995	Set At: 4979	Perforations: From OPEN To ENDED	Unit: 35 Sec.: Twp.: 14S Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 4978		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 166 @ 6971	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6925	7008	.656	.26	1.45			4.028	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.	Temp. °F	Duration of Flow
SI							1942		1942		66.80 HR
1.	4.028	X	1.00	425	16.5	99	1894	64	2528		1
2.	4.028	X	1.00	421	45.5	104	1860	65	2481		1
3	4.028	X	2.00	420	9.5	94	1706	66	2448		1
4	4.028	X	2.00	405	12.0	63	1692	67	2328		1
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	.48740	85.03	438.2	.9645	1.2347	1.0342	510
2	4.8740	140.56	434.2	.9602	1.2347	1.0325	839
3	20.3200	64.15	433.2	.9688	1.2347	1.0342	1613
4	20.3200	70.84	418.2	.9977	1.2347	1.0420	1847
5							

NO.	P_t	Temp. °R	T_r	Z
1	.66	559	1.51	.935
2	.65	564	1.52	.938
3	.65	554	1.50	.935
4	.63	523	1.41	.921
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/Bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .6560 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .6520
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 370 R _____ R

P_c 2588.2 P_c^2 6698.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2541.2	6457.7	241.0
2		2494.2	6221.0	478.0
3		2461.2	6057.5	641.0
4		2341.2	5481.2	1218.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.4998$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.8924$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7,189.3$

Absolute Open Flow 7,189.3 Mcfd @ 15.025 | Angle of Slope θ 51.4 | Slope, n .7972

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

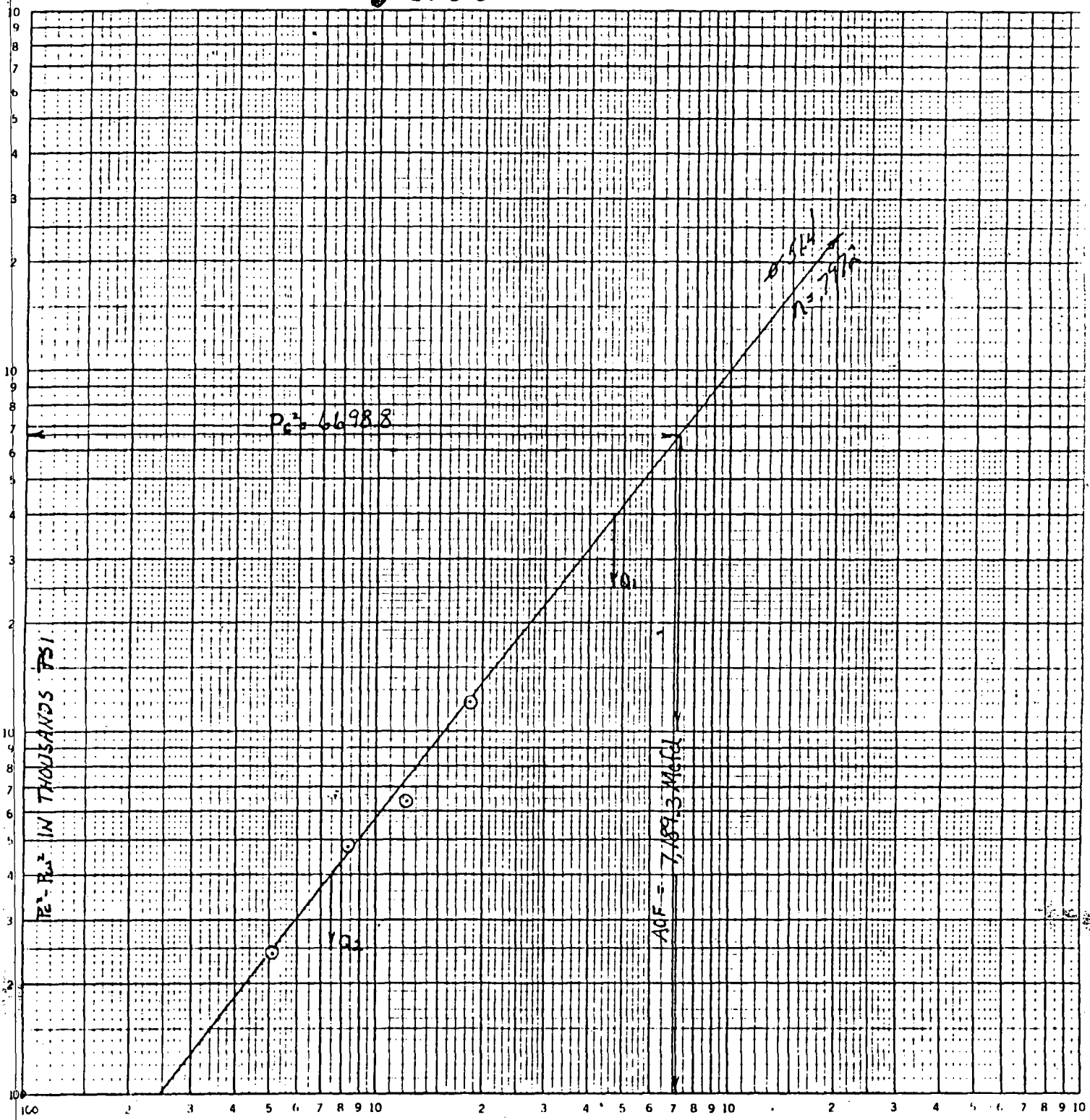
Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT-CATHEY	

KING 35-1

UNIT SEC 35 TWP 14S RGE 26E

CHAVES COUNTY

6-22-82



$\Delta P_1^2 = P_c^2 - P_w^2 = 4000$

$\Delta P_2^2 = P_c^2 - P_w^2 = 400$

Q_1 4,701.8

Q_2 750

LOG Q_1 = 3.67226

LOG Q_2 = 2.87506

n = .7972

NEW-TEX LAB
P.O.BOX 1161
HOBBS NM 88241-1161
505-393-3561

ANALYSIS NUMBER: 6847
DATE OF RUN: 06/23/82
DATE SECURED: 06/22/82

ANALYSIS CERTIFICATE

SAMPLE IDENT: CLELMONTS ENERGY - KING 35-1

CLIENT: BENNETT & CATHEY INC
ADDRESS: BOX 787
CITY, STATE: ARTESIA NM 88210

SAMPLING PRESS: 0 PSIG SAMPLING TEMP: 0 DEG F
STATION NUMBER:

********* GAS ANALYSIS *********

	MOLE PERCENT	GAL/ MCF
NITROGEN	1.4477037	
CARBON DIOXIDE	0.2610520	
METHANE	86.0811920	
ETHANE	7.7503667	2.0670200
PROPANE	2.9334855	0.8052420
ISO-BUTANE	0.3185029	0.1039280
NORMAL BUTANE	0.5579467	0.1754180
ISO-PENTANE	0.1476709	0.0539147
NORMAL PENTANE	0.1436215	0.0519048
HEXANES	0.0997336	0.0409107
HEPTANES PLUS	0.2587245	0.1190650
TOTAL	100.0000000	3.4174100

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PROPANE GPM: 0.81 BUTANES GPM: 0.28
ETHANE GPM: 2.07 PENTANES PLUS GPM: 0.27

SPECIFIC GRAV (CALC): .6559
MOLE WEIGHT: 19.02

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
	14.696	1120	1140
	14.650	1116	1136
	14.730	1122	1142
	14.735	1123	1143

ANALYZED BY:

APPROVED BY:

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test: FOUR POINT [X] Initial [ ] Annual [ ] Special		Test Date: 6-22-82	Lease No. or Serial No.
Company: CLEMENTS ENERGY	Connection: AIR NEW WELL		Allottee
Field	Reservoir	Location	Unit
Completion Date: 6-5-82	Total Depth: 7294'	Plug Back TD: 7109	Elevation: 3432 KB
Farm or Lease Name: KINGS 35			
Csg. Size: 4.500	Wt.: 11.6	d: 4.000	Set At: 7294'
Perforations: From: 6925	To: 7010'		Well No.: 1
Tbg. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 7979
Perforations: From: OPEN	To: ENDED		Sec.: 35 Twp.-Blk.: 14S Rge.: 26E
Type Completion (Describe): SINGLE		Packer Set At	County or Parish: CHAVES
Producing Thru: TUBING	Reservoir Temp. F	Mean Annual Temp. F: 60°	Baro. Press. – P_a: 13.2
State: NEW MEXICO			
L: 6966	H: 6966	G_g	% CO_2
% N_2	% H_2S	Prover	Meter Run: 4.028 FLANGE

DATE Time of Reading	ELAP. TIME Hrs.	Wellhead Working Pressure Tbg. Psig.	Csg. Psig.	Temp. F	METER OR PROVER Pressure Psig.	Diff.	Temp. F	Orifice	REMARKS (Include liquid production data: Type–A.P.I. Gravity–Amount)
1615	4	1692		67	405	12	63		
1630	4-1/4	1630		67	400	10	62		
1645	4-1/2	1753		67	410	10.5	64		
1700	4-3/4	1745		67	405	10	62		
1715	1	1743		67	405	10	61		
1730	1-1/4	1744		68	415	10.5	60		
1745	1-1/2	1742		67	415	10.5	67		
1800	1-3/4	1742		67	415	11	73		
1815	2	1741		68	415	11.5	73		
1830	2-1/4	1741		68	415	11.5	73		
1845	2-1/2	1740		68	415	11.5	72		
1900	2-3/4	1739		68	420	11.5	72		
1915	3	1739		67	420	11.5	72		
1930	3-1/4	1738		67	420	11.5	72		
2000	3-3/4	1734		67	415	11.0	68		
2030	4-1/4	1729		67	410	11.5	60		
2100	4-3/4	1729		67	400	11.5	52		
2130	5-1/4	1729		67	390	11.0	47		
2200	5-3/4	1729		67	390	11.0	44	2.00	
2230	6-1/4	1729							
2300	6-3/4	1724		67	415	11.5	82	2.00	
2330	7-1/4	1721		67	415	11.5	83	2.00	
2400	7-3/4	1719		67	415	11.5	84	2.00	
0100	8-3/4	1715		67	410	11.5	83	2.00	
0200	9-3/4	1712		67	410	11.5	83	2.00	
0300	10-3/4	1708		68	410	11.5	83	2.00	
0400	11-3/4	1701		68	420	11.5	84	2.00	
0500	12-3/4	1690		68	415	12.0	72	2.00	
0600	13-3/4	1685		68	405	11.5	60	2.00	
0700	14-3/4	1679		69	405	11.5	66	2.00	
0800	15-3/4	1675		69	395	12.0	69		
0900	16-3/4	1673		69	395	12.0	78	2.00	
1000	17-3/4	1670		70	390	12.0	87	2.00	
1100	18-3/4	1665		70	390	12.0	88	2.00	
1200	19-3/4	1661		70	390	12.0	89	2.00	
1300	20-3/4	1657		70	390	12.0	90	2.00	

Page _____ of _____ Data By _____

SUGGESTED FIELD DATA SHEET (Not Required To File)

Type Test: FOUR POINT [X] Initial [ ] Annual [ ] Special
Test Date: 6-22-82
Lease No. or Serial No.:
Company: CLEMENTS ENERGY
Connection: AIR NEW WELL
Allottee:
Field:
Reservoir:
Location:
Unit:
Completion Date:
Total Depth:
Plug Back TD:
Elevation:
Farm or Lease Name: KINGS 35
Csg. Size: Wt.: d: Set At: Perforations: From: To:
Well No.: 1
Tbg. Size: Wt.: d: Set At: Perforations: From: To:
Sec.: Twp.-Blk.: Rge.-
Type Completion (Describe):
Packer Set At:
County or Parish:
Producing Thru:
Reservoir Temp. F:
Mean Annual Temp. F:
Baro. Press. – P_a:
State:
L: H: G_g: % CO_2: % N_2: % H_2S: Prover: Meter Run: T:

DATE	ELAP. TIME	Wellhead Working Pressure			METER OR PROVER				REMARKS
Time of Reading	Hrs.	Tbg. Psig.	Csg. Psig.	Temp. F	Pressure Psig.	Diff.	Temp. F	Orifice	(Include liquid production data: Type–A.P.I. Gravity–Amount)
1400	21-3/4	1652		70	395	11.5	89	2.00	
1500	22-3/4	1649		71	395	11.5	88	2.00	
1600	22-3/4	1645		71	390	11.5	87	2.00	

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Page _____ of _____ Data By _____

BENNETT CATHEY
Artesia, New Mexico 88210

HARRY WILLIAMS

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY CLEMENTS ENERGY WELL NAME KINGS 35 WELL NO. 1
DATE OF TEST 6-22-82 TO 6-23-82 FORMATION MORROW PAGE 1 OF 2

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

ELEMENT NUMBER RPG3 #41552 RANGE 6,000 LBS.
CLOCK NUMBER 19040 RANGE 72 HOURS
TIME WELL SHUT IN 1633 HOURS 6-19-82
TIME CLOCK STARTED 1036 HOURS
DEAD WEIGHT ELEMENT ON SURFACE 1955 PSIA LBS.
TIME ELEMENT REACHED BOTTOM 1100 HOURS
DEAD WEIGHT ELEMENT ON BOTTOM 1955 PSIA LBS.
ELEMENT SET AT 6,971 FEET.
TEMPERATURE 6,971 FT. 166 °F.
DEAD WEIGHT AT THE END OF HOURS MINUTES.

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DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psia	PRESSURE AT MID-POINT OF PERFORATIONS psia
		1125		2575	13.2		2588
START TEST	0	1200		2575	13.2		2588
	1/4	1215		2548	13.2		2561
	1/2	1230		2543	13.2		2556
	3/4	1245		2534	13.2		2547
END RATE 1	1	1300		2528	13.2		2541
	1-1/4	1315		2503	13.2		2516
	1-1/2	1330		2499	13.2		2512
	1-3/4	1345		2482	13.2		2495
END RATE 2	2	1400		2481	13.2		2494
CHANGE PLATES	FROM 1" TO 2"			2570	13.2		2583
	2-1/4	1430		2476	13.2		2489
	2-1/2	1445		2441	13.2		2454
	2-3/4	1500		2449	13.2		2462
END RATE 3	3	1515		2448	13.2		2461
	3-1/4	1530		2371	13.2		2384
	3-1/2	1545		2375	13.2		2388
	3-3/4	1600		2341	13.2		2354
END RATE 4	4	1615		2328	13.2		2341
START FLOW	0	1615		2328	13.2		2341
TEST	1/4	1630		2327	13.2		2340
	1/2	1656		2339	13.2		2352
	3/4	1700		2331	13.2		2344
	1	1715		2330	13.2		2343
	1-1/4	1730		2322	13.2		2335
	1-1/2	1745		2322	13.2		2335
	1-3/4	1800		2317	13.2		2300
	2	1815		2320	13.2		2333
	2-1/4	1830		2320	13.2		2333
	2-1/2	1845		2316	13.2		2329
	2-3/4	1900		2316	13.2		2329
	3	1915		2311	13.2		2324
	3-1/4	1930		2311	13.2		2324
	3-3/4	2000		2309	13.2		2312
	4-1/4	2030		2298	13.2		2311
	4-3/4	2100		2295	13.2		2308
	5-1/4	2130		2299	13.2		2312

Artesia, [illegible]

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY CLEMENTS ENERGY WELL NAME KINGS 35 WELL NO. 1

DATE OF TEST 6-22-82 to 6-23-82 LOCATION MORROW PAGE 2 OF 2

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psig	PRESSURE AT MID-POINT OF PERFORATIONS psig
	5-3/4	2200		2300	13.2		2313
	6-1/4	2230		2289	13.2		2302
	6-3/4	2300		2292	13.2		2305
	7-1/4	2330		2289	13.2		2302
	7-3/4	2400		2277	13.2		2290
6-23-82	8-3/4	0100		2277	13.2		2290
	9-3/4	0200		2272	13.2		2285
	10-3/4	0300		2261	13.2		2274
	11-3/4	0400		2255	13.2		2268
	12-3/4	0500		2245	13.2		2258
	13-3/4	0600		2233	13.2		2247
	14-3/4	0700		2228	13.2		2241
	15-3/4	0800		2223	13.2		2236
	16-3/4	0700		2223	13.2		2236
	17-3/4	1000		2217	13.2		2230
	18-3/4	1100		2214	13.2		2227
	19-3/4	1200		2207	13.2		2220
	20-3/4	1300		2198	13.2		2211
	21-3/4	1400		2193	13.2		2206
	22-3/4	1500		2193	13.2		2206
	23-3/4	1600		2192	13.2		2205