C/DF FILE

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 10 '88
O. C. D.
ARTESIA, OFFICE

Type Test: 4POINT [X] Initial [ ] Annual [ ] Special				Test Date: 2/10/87	
Company: MCKAY OIL CORP			Connection: TO AIR		Unit
Pool: W. PECOS ABO (PECOS)			Formation: ABO		
Completion Date: 2/7/87	Total Depth: 3400		Plug Back T.D.: 3075	Elevation: 4135	Farm or Lease Name: SNAKE WEED
Csg. Size: 4.5 / Wt.: 9.5 / d: / Set At: 3163			Perforations: From 2871.5 To 2984.5		Well No.: 2
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 2848			Perforations: From OPEN To ENDED		Unit: D / Sec.: 18 / Twp.: 6S / Rge.: 23E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: NONE		County: CHAVES
Producing Thru: TUBING	Reservoir Temp. °F: 99 @ 2928		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
2928	2928	0.633	.192	4.884	Ø	2.000	Ø	Ø

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							794	32	794	32	72HRS
1.	2.000		.125	763	0.0	32	763	32	760	32	60MIN
2.	2.000		.1875	698	0.0	36	698	36	698	36	60MIN
3.	2.000		.21875	625	0.0	41	625	41	628	41	60MIN
4.	2.000		.250	550	0.0	47	550	47	554	47	60MIN
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	0.2648	0.00	776.2	1.028	1.257	1.087	289
2	0.6082	0.00	711.2	1.024	1.257	1.078	600
3	0.8393	0.00	638.2	1.019	1.257	1.066	731
4	1.0870	0.00	563.2	1.013	1.257	1.055	822
5							

NO.	P_t	Temp. °R	T_f	Z
1	1.17	492	1.38	.846
2	1.07	496	1.39	.861
3	.96	501	1.40	.880
4	.85	507	1.42	.898
5				

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: 0.633 / XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX / 0.633
Critical Pressure: 663 P.S.I.A. / 663 P.S.I.A.
Critical Temperature: 357 R / 357 R

P_c 807.2 P_c^2 652

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		773.2	598	54
2		711.2	506	146
3		641.2	411	241
4		567.2	322	330
5				

(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 1.9757$ (2) $\left[\frac{P_c^2}{P_t^2 - P_w^2}\right]^n = 1.4813$

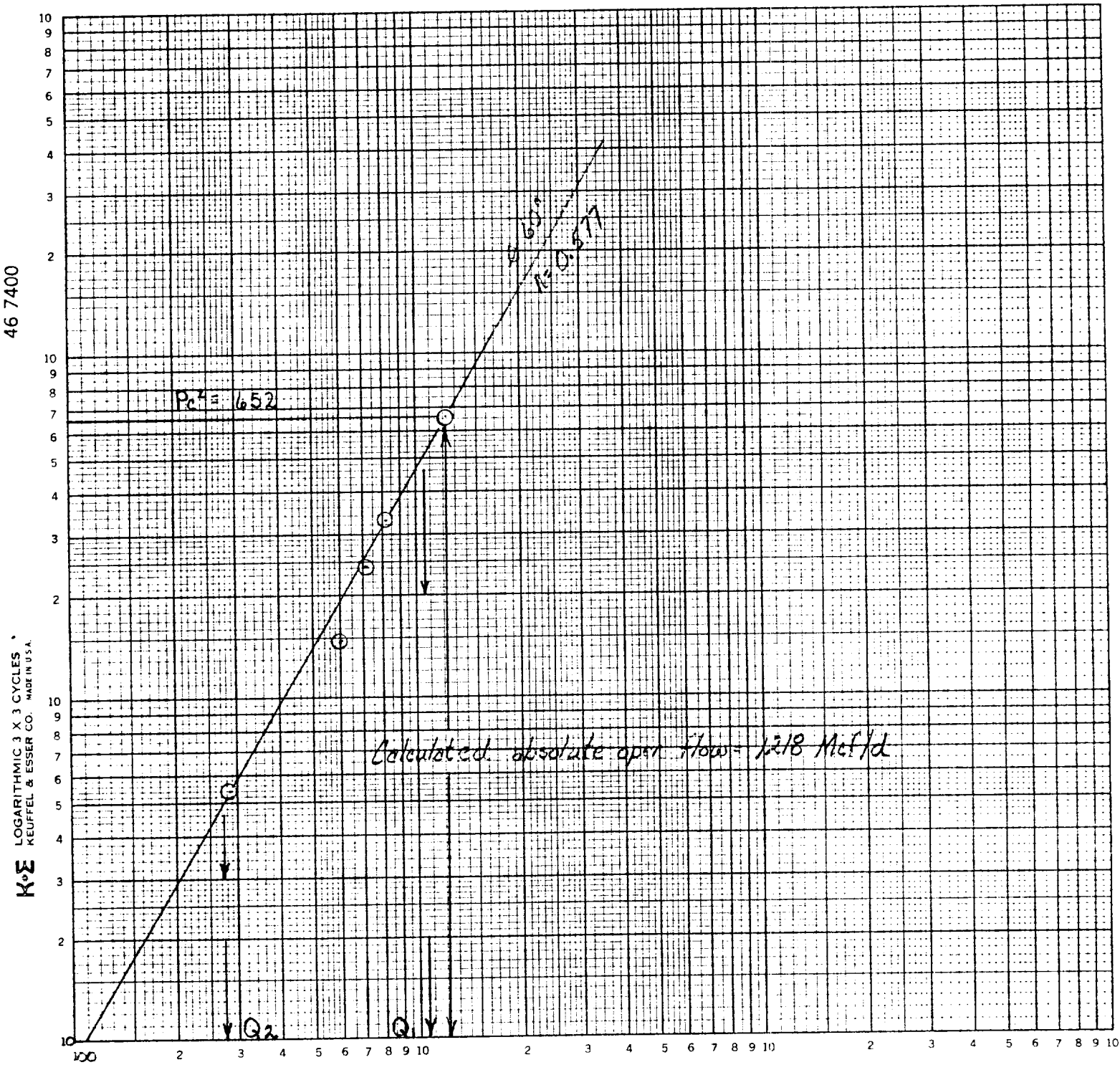
AOF = Q $\left[\frac{P_t^2}{P_t^2 - P_w^2}\right]^n = 1217.6$

Absolute Open Flow: 1218 Mcfd @ 15.025 | Angle of Slope @: 60° | Slope, n: 0.577

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:

McKay Oil Corp.
Snake Weed #2
18 6S 23E
Chaves County
2-10-87



$Q_1 = 1031$

$Q_2 = 273$

$\log Q_1 = 3.0132$

$\log Q_2 = 2.4362$

$n = 0.577$

"Let your Interest in Measurement be our Concern"

PRECISION SERVICE INC.

Flow Measurement Engineers
Analysis Results Summary
Casper, WY 82601

Run No. 212-2
Date Run 02/12/87
Date Sampled 02/10/87

Analysis For: BENNETT & CATHEY WRLN.
Lease: SNAKE WEED #2 — Producer MCKAY OIL CORP.
Location CHINA DRAW — County CHAVES — State NEW MEXICO
Purpose WELL TEST — Sampled By B & C WRLN.
Sampling Temp. 58 °F — Atmos Temp. 64 °F
Volume/day 757 MCF — Formation ABO
Pressure on Bomb 570 — PSIG; Line Pressure 583.2 PSIA PSIG

Gas Component Analysis — Press. Base: 14.73

	Mol. %	Liq. %	GPM Per MCF
Carbon Dioxide CO_2	.192		
Oxygen O_2			
Nitrogen N_2	4.884		
Hydrogen Sulfide H_2S			
Methane C1	89.233		15.125
Ethane C2	2.889		.773
Propane C3	1.280		.353
Iso-Butane IC4	.200		.066
Nor-Butane NC4	.545		.172
Iso-Pentane IC5	.135		.049
Nor-Pentane NC5	.217		.078
Hexanes plus	.424		.195
Hexanes C6			
Heptanes			
Heptanes Plus C7+			
Total	100.000		16.811
Pentane + G.P.M.			.323
Propane + GPM			.914
26-lb Gasoline			.512

BTU Dry 1051
BTU Wet 1033
Calc. Specific Gravity .633

@ Std. Press. 14.696
BTU Dry 1049
BTU Wet 1030

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

Z Factor .9977
N Value 1.3027
Ave Mol Wt 18.3136
Ave Cu Ft/Gal

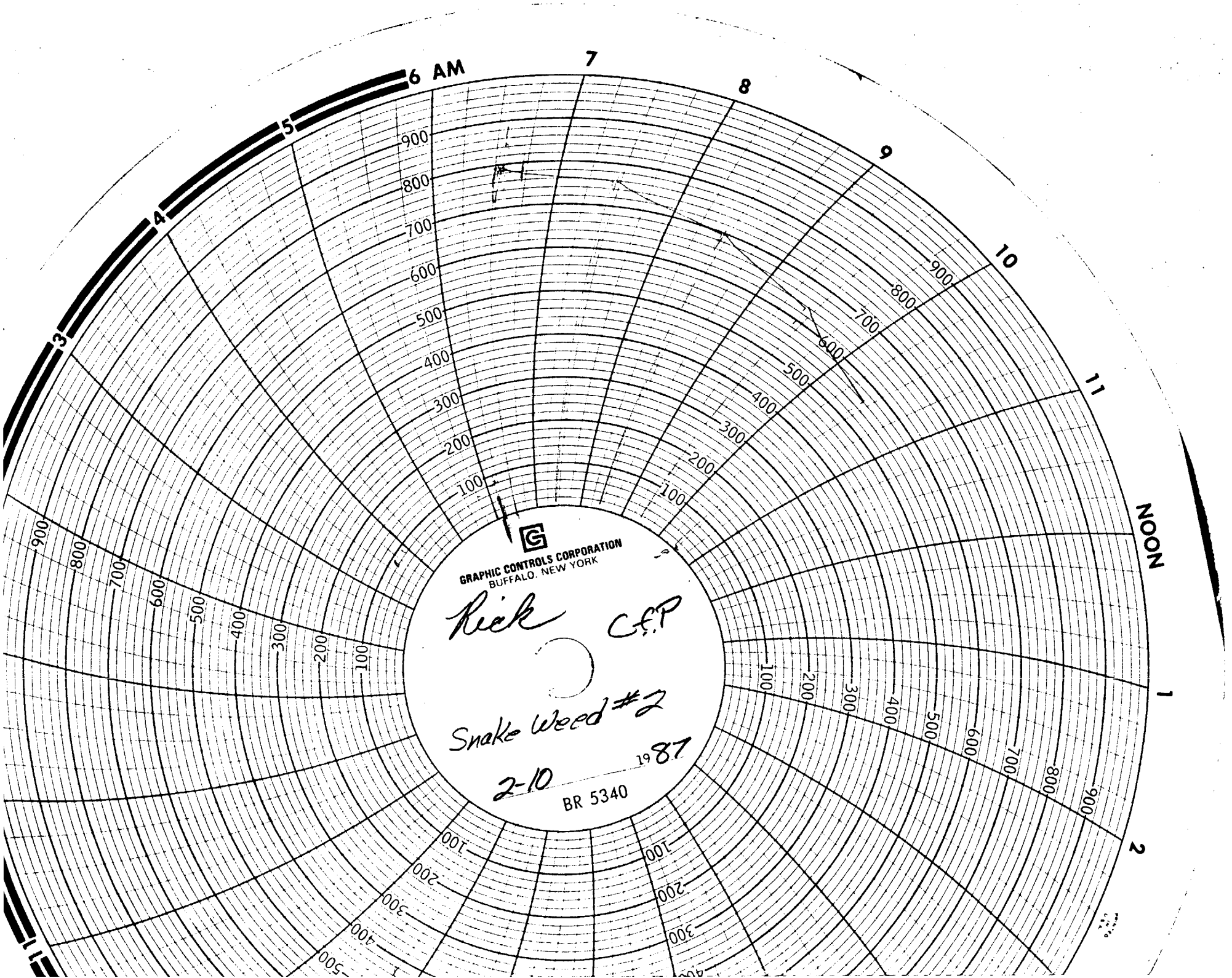
Run by JEFFREY A. PROPP

Calculated By JEFFREY A. PROPP

Ethane + GPM 1.686

Remarks:

Distribution: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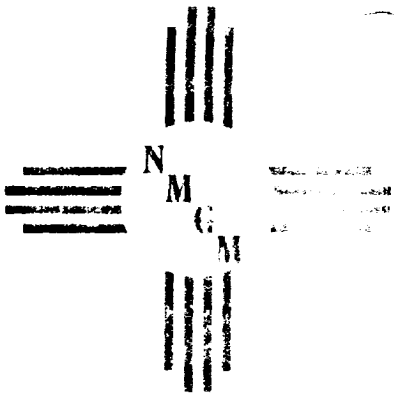
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
Rick C&P
Snake Weed #2
2-10 1987
BR 5340



NEW MEXICO GAS MARKETING, INC.

P. O. Box 2014
Roswell, New Mexico 88202

(505) 623-4735

May 7, 1987

RECEIVED BY
MAY -8 1987
O. C. D.
ARTESIA, OFFICE

New Mexico Oil Conservation Division
Post Office Drawer DD
Artesia, New Mexico 88210

Re: Purchase of Gas Production

Gentlemen:

Please be advised that New Mexico Gas Marketing, Inc. has commenced the purchase of gas production from wells operated by McKay Oil Corporation as follows:

1.	Snakeweed Federal #2 NW/4 Sec. 18-6S-23E	5-5-87
2.	Miller Federal #1 NE/4 Sec. 7-6S-23E	5-2-87
3.	Miller Federal #5 W/2 Sec. 6-6S-23E	5-2-87
4.	Lookout Federal #8 NE/4 Sec. 9-6S-22E	5-2-87
5.	Lookout Federal #5 SE/4 Sec. 9-6S-22E	5-2-87
6.	Middle Fork Federal #5 NW/4 Sec. 5-6S-23E	5-1-87
7.	L. L. & E. Federal #1 SE/4 Sec. 12-6S-22E	5-1-87
8.	Hosmer Federal #3 NE/4 Sec. 13-6S-22E	5-1-87
9.	Hosmer Federal #2 NW/4 Sec. 13-6S-22E	5-1-87
10.	Miller Federal #4 SE/4 Sec. 7-6S-23E	5-1-87
11.	Miller Federal #3 SW/4 Sec. 7-6S-23E	5-1-87
12.	Miller Federal #2 NW/4 Sec. 7-6S-23E	5-1-87
13.	Miller Federal #6 SE/4 Sec. 6-6S-23E	5-1-87
14.	Middle Fork Federal #3 NW/4 Sec. 8-6S-23E	5-1-87

All of the above wells are located in Chaves County, New Mexico. We request that this information be kept "CONFIDENTIAL".

Yours very truly,

MCKAY OIL CORPORATION

Theresa Rodriguez