

DATE 3/2/01	SUBMITTER 4/10/01	ENGINEER DC	LOGGED IN KV	TYPE DHC	APP NO. 108250017
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



2899

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

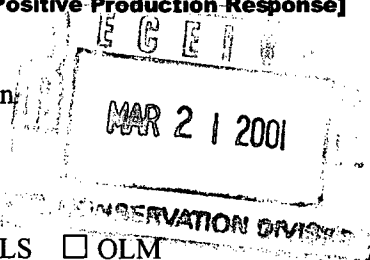
[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☒ Notification and/or Concurrent Approval by BLM or SLO  
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Certification

I hereby certify that I, or personnel under my supervision, have reviewed the applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common.

*I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.*

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Peggy Cole

Print or Type Name

Signature

*Peggy Cole*

Regulatory Supervisor

Title

Date

pbradfield@br-inc.com

e-mail Address

District I  
1625 N. French Drive, Hobbs, NM 88240  
District II  
811 South First Street, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87505

APPLICATION TYPE  
\_\_\_\_ Single Well  
\_\_\_\_ Establish Pre-Approved Pools  
EXISTING WELLBORE  
\_\_\_\_ Yes \_\_\_\_ No

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas Company P.O.Box 4289 Farmington, New Mexico 87499  
Operator Address  
Hare 22 N Sec 14, T29N, R10W San Juan  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 14538 Property Code 7091 API No. 30-045-23190 Lease Type: ☒ Federal \_\_\_\_ State \_\_\_\_ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Aztec Pictured Cliffs		Blanco Mesaverde
Pool Code	71280		72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2046'-2078'		3891'-4416'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	135		330
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1179		1272
Producing, Shut-In or New Zone	Producing		Producing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 1/31/01 Rates: 19 MCFD, 0 BOD, 0.0 BWD	Date: Rates:	Date: 2/28/01 Rates: 9 MCFD, 0.2 BOD, 0.06 BWD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	To Be Filed After Commingled	Oil Gas	To Be Filed After Commingled

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes \_\_\_\_ No ☒  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☒ No \_\_\_\_  
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No \_\_\_\_  
Will commingling decrease the value of production? Yes \_\_\_\_ No ☒  
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No \_\_\_\_  
NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  
Production curve for each zone for at least one year. (If not available, attach explanation.)  
For zones with no production history, estimated production rates and supporting data.  
Data to support allocation method or formula.  
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools  
List of all operators within the proposed Pre-Approved Pools  
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.  
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Michetti TITLE Operations Engineer DATE 3-21-1  
nco  
TYPE OR PRINT NAME Joe Michetti TELEPHONE NO. ( 505 ) 326-9700

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
 Supersedes C-128  
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

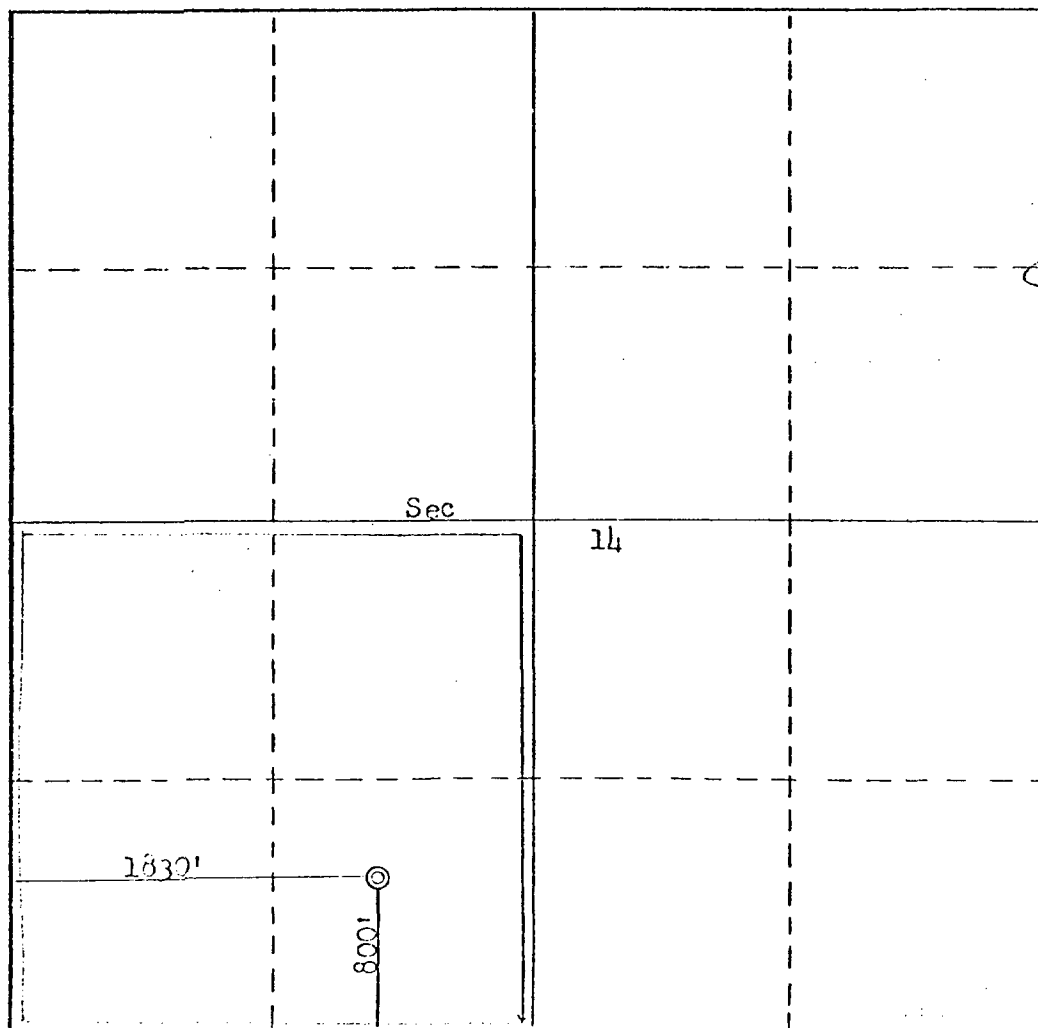
Operator <b>SOUTHLAND ROYALTY COMPANY</b>			Lease <b>HARE</b>		Well No. <b>22</b>
Unit Letter <b>N</b>	Section <b>14</b>	Township <b>29N</b>	Range <b>10W</b>	County <b>San Juan</b>	
Actual Footage Location of Well:					
<b>800</b> feet from the <b>South</b> line and		<b>1830</b> feet from the <b>West</b> line			
Ground Level Elev. <b>5573</b>	Producing Formation <b>Pictured Cliffs</b>	Pool <b>Aztec</b>		Dedicated Acreage: <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

*I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.*

Name: [Signature]  
 Position: **District Production Manager**

Company: **Southland Royalty Company**

Date: **July 20, 1978**

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

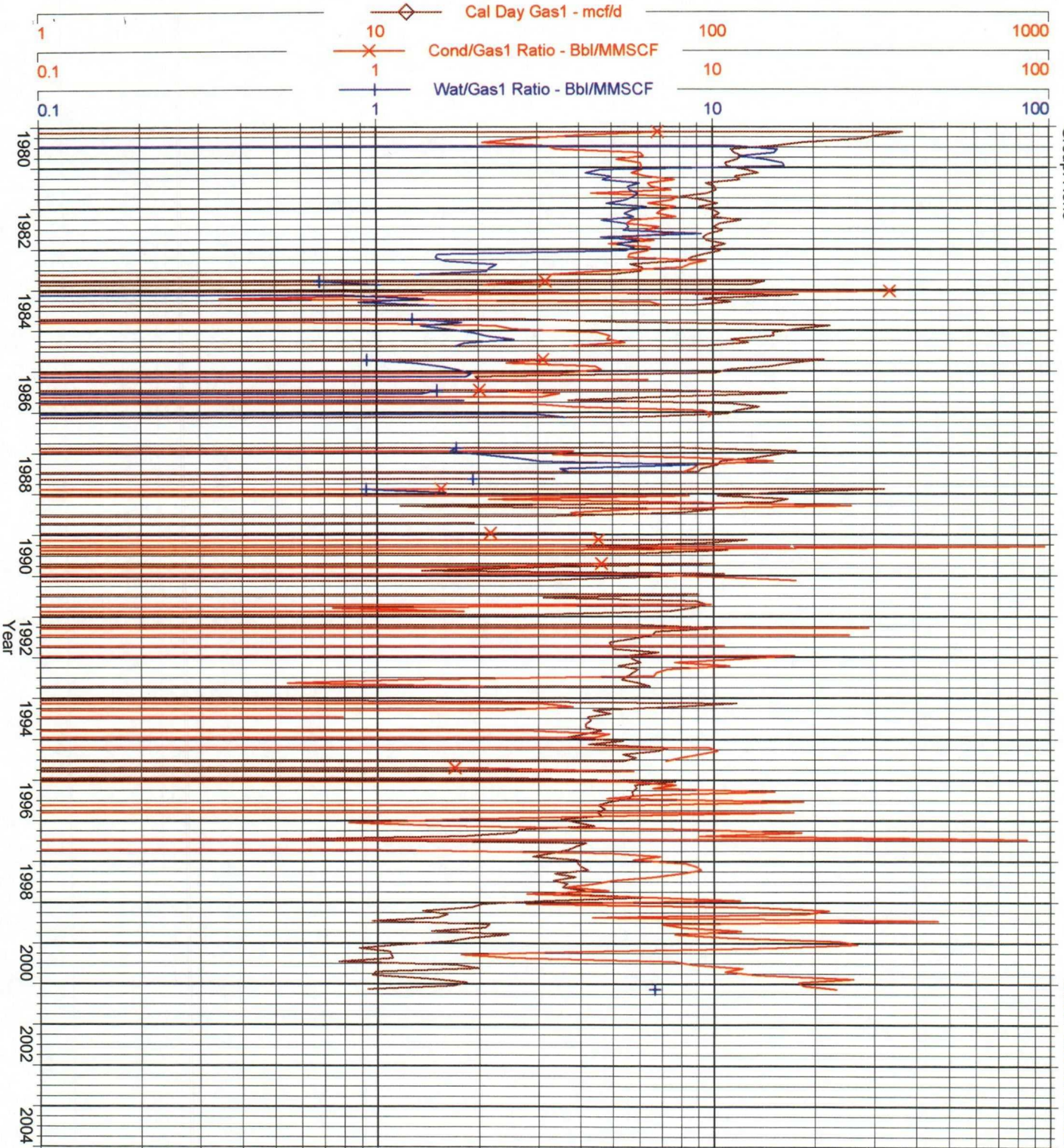
Date Surveyed: **May 7, 1978**  
 Registered Professional Engineer and/or Land Surveyor:  
[Signature]  
**Fred B. Kerr Jr.**  
 Certificate No. \_\_\_\_\_

Operator:  
Field:  
Zone:  
Type: Gas  
Group: None

No  
Active  
Forecast

Production Cumms  
Oil: 0 MSTB  
Gas: 490.187 MMSCF  
Water: 1.08874 MSTB  
Cond: 2.77304 MSTB

Cal Day Gas1 - mcf/d  
Cum: 490.187 MMSCF  
Cond/Gas1 Ratio - Bbl/MMSCF  
Cum: 2.77304 MSTB  
Wat/Gas1 Ratio - Bbl/MMSCF  
Cum: 1.08874 MSTB



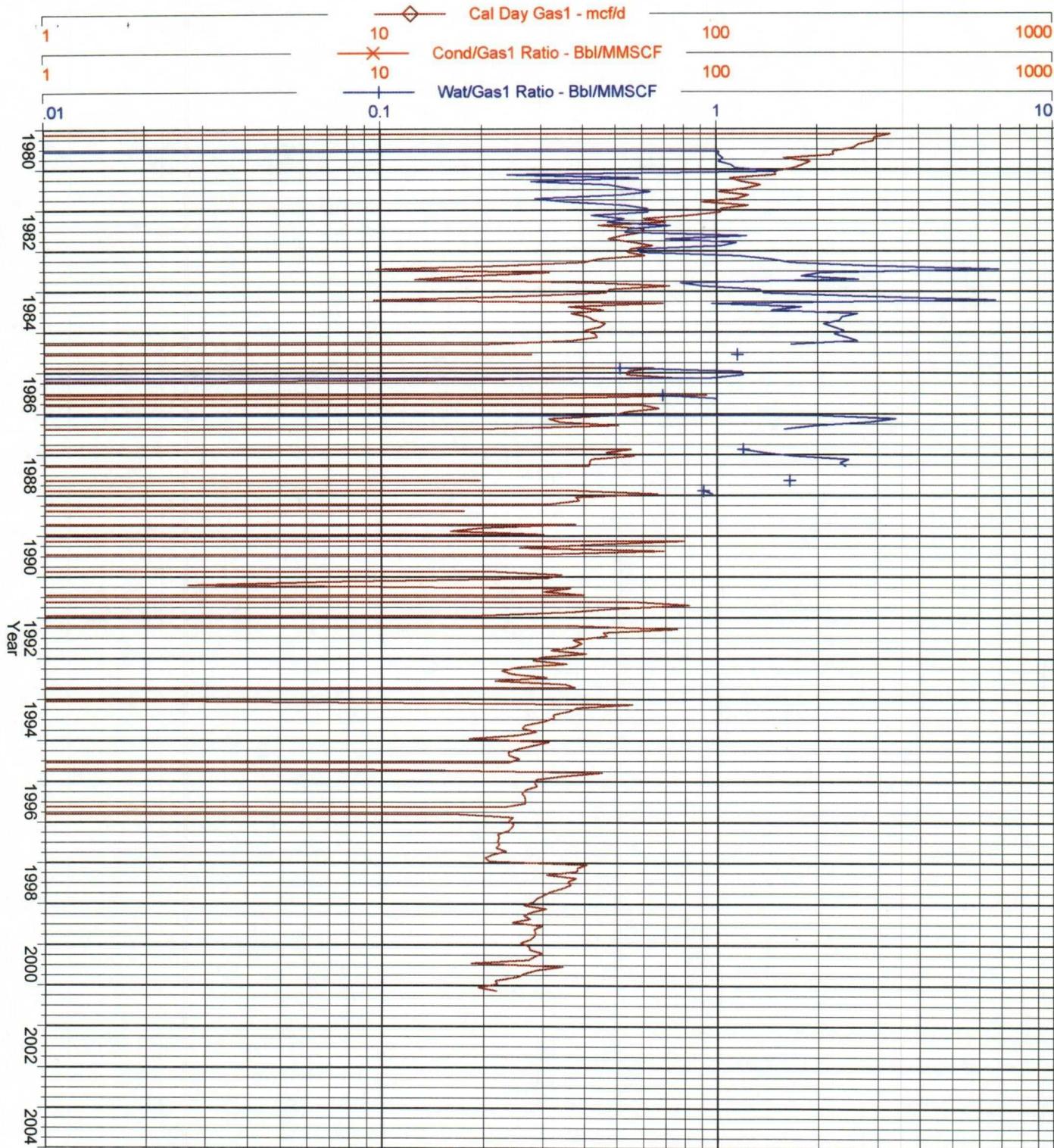


Operator:  
Field:  
Zone:  
Type: Gas  
Group: None

No  
Active  
Forecast

Production Cums  
Oil: 0 MSTB  
Gas: 332.755 MMSCF  
Water: 0.183 MSTB  
Cond: 0 MSTB

Cal Day Gas1 - mcf/d  
Cum: 332.755 MMSCF  
Cond/Gas1 Ratio - Bbl/MMSCF  
Cum: 0 MSTB  
Wat/Gas1 Ratio - Bbl/MMSCF  
Cum: 0.183 MSTB



# Cumulative Monthly Well Report September 1996 Through March 2001

Select By : Completions

Page No : 1  
Report Number : R\_290  
Print Date : 3/19/2001, 10:30:05 AM

Completion	Date	Oil		Gas		Water	
		Current	Cumulative	Current	Cumulative	Current	Cumulative
HARE 22 MV	10/31/1998	142.54	142.54	0.00	0.00	0.00	0.00
	11/30/1998	12.44	154.98	1,911.70	1,911.70	0.00	0.00
	12/31/1998	11.86	166.84	989.19	2,900.89	0.00	0.00
	1/31/1999	1.74	168.58	631.36	3,532.25	0.00	0.00
	2/28/1999	6.94	175.52	528.42	4,060.67	0.00	0.00
	3/31/1999	9.26	184.78	421.56	4,482.23	0.00	0.00
	4/30/1999	8.97	193.75	482.34	4,964.57	0.00	0.00
	5/31/1999	2.02	195.77	466.65	5,431.22	0.00	0.00
	6/30/1999	13.37	209.14	289.21	5,720.43	0.00	0.00
	7/31/1999	4.65	213.80	665.67	6,386.10	0.00	0.00
	8/31/1999	5.23	219.02	644.10	7,030.20	0.00	0.00
	9/30/1999	5.21	224.23	432.34	7,462.54	0.00	0.00
	10/31/1999	5.79	230.01	756.84	8,219.38	0.00	0.00
	11/30/1999	6.37	236.38	564.69	8,784.07	0.00	0.00
	12/31/1999	11.86	248.24	505.87	9,289.94	0.00	0.00
	1/31/2000	9.55	257.79	357.83	9,647.77	0.00	0.00
	2/29/2000	3.76	261.55	254.90	9,902.67	0.00	0.00
	3/31/2000	1.45	263.00	336.27	10,238.94	0.00	0.00
	4/30/2000	0.58	263.57	329.40	10,568.34	0.00	0.00
	5/31/2000	0.87	264.44	343.13	10,911.47	0.00	0.00
	6/30/2000	1.74	266.18	230.39	11,141.86	0.00	0.00
HARE 22 PC	7/31/2000	4.63	270.81	531.36	11,673.22	0.00	0.00
	8/31/2000	7.52	278.33	617.63	12,290.85	0.00	0.00
	9/30/2000	3.18	281.51	295.09	12,585.94	0.00	0.00
	10/31/2000	4.05	285.56	298.03	12,883.97	0.00	0.00
	11/30/2000	11.28	296.84	434.30	13,318.27	0.00	0.00
	12/31/2000	10.13	306.97	568.61	13,886.88	0.00	0.00
	1/31/2001	9.55	316.52	517.63	14,404.51	0.00	0.00
	2/28/2001	6.06	322.58	261.76	14,666.27	1.74	1.74
	3/31/2001	0.00	322.58	0.00	14,666.27	0.00	1.74
	10/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	0.00	0.00	864.66	864.66	0.00	0.00
	12/31/1998	0.00	0.00	869.58	1,734.24	0.00	0.00
	1/31/1999	0.00	0.00	817.63	2,551.87	0.00	0.00
	2/28/1999	0.00	0.00	859.78	3,411.65	0.00	0.00
	3/31/1999	0.00	0.00	861.74	4,273.39	0.00	0.00
	4/30/1999	0.00	0.00	791.16	5,064.55	0.00	0.00
	5/31/1999	0.00	0.00	852.92	5,917.47	0.00	0.00
	6/30/1999	0.00	0.00	731.35	6,648.82	0.00	0.00
	7/31/1999	0.00	0.00	927.43	7,576.25	0.00	0.00
	8/31/1999	0.00	0.00	876.45	8,452.70	0.00	0.00
	9/30/1999	0.00	0.00	855.86	9,308.56	0.00	0.00
	10/31/1999	0.00	0.00	878.41	10,186.97	0.00	0.00
	11/30/1999	0.00	0.00	826.45	11,013.42	0.00	0.00
	12/31/1999	0.00	0.00	798.02	11,811.44	0.00	0.00
	1/31/2000	0.00	0.00	848.02	12,659.46	0.00	0.00
	2/29/2000	0.00	0.00	797.04	13,456.50	0.00	0.00
	3/31/2000	0.00	0.00	926.45	14,382.95	0.00	0.00
	4/30/2000	0.00	0.00	848.02	15,230.97	0.00	0.00
	5/31/2000	0.00	0.00	844.10	16,075.07	0.00	0.00
	6/30/2000	0.00	0.00	549.99	16,625.06	0.00	0.00
	7/31/2000	0.00	0.00	1,067.62	17,692.68	0.00	0.00
	8/31/2000	0.00	0.00	898.02	18,590.70	0.00	0.00
	9/30/2000	0.00	0.00	796.06	19,386.76	0.00	0.00
	10/31/2000	0.00	0.00	784.29	20,171.05	0.00	0.00
	11/30/2000	0.00	0.00	649.98	20,821.03	0.00	0.00
	12/31/2000	0.00	0.00	679.39	21,500.42	0.00	0.00
	1/31/2001	0.00	0.00	597.04	22,097.46	0.00	0.00

**Hare 22**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 3/13/94

<b>Pictured Cliffs</b>		<b>Mesa Verde</b>	
<u><b>PC-Current</b></u>		<u><b>MV-Current</b></u>	
GAS GRAVITY	0.674	GAS GRAVITY	0.745
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.19	%N2	0.45
%CO2	0.75	%CO2	0.6
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	2062	DEPTH (FT)	4154
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	94	BOTTOMHOLE TEMPERATURE (DEG F)	128
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	128	SURFACE PRESSURE (PSIA)	295
BOTTOMHOLE PRESSURE (PSIA)	134.5	BOTTOMHOLE PRESSURE (PSIA)	329.9
<u><b>PC-Original</b></u>		<u><b>MV-Original</b></u>	
GAS GRAVITY	0.674	GAS GRAVITY	0.745
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.19	%N2	0.45
%CO2	0.75	%CO2	0.6
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	2062	DEPTH (FT)	4154
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	94	BOTTOMHOLE TEMPERATURE (DEG F)	128
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	659	SURFACE PRESSURE (PSIA)	734
BOTTOMHOLE PRESSURE (PSIA)	696.3	BOTTOMHOLE PRESSURE (PSIA)	830.6

**Hare 22**  
**Unit N, Sec. 14, T29N R10W**  
**San Juan County, New Mexico**

**Production Allocation Based On Cumulative Production Through 12/2000**

	Cumulative Production		% Allocation	
	MMSCF	MSTB	% Gas	% Oil
Mesa Verde	489	2.76	60%	100%
Pictured Cliffs	332	0.00	40%	0%
Total	821	2.76	100%	100%

**Gas Allocation:**

**Mesa Verde** (Total Mesa Verde Production) 489 MMSCF  
 ----- = **60%**  
 (Total Combined Production) 821 MMSCF

**Pictured Cliffs** (Total Pictured Cliffs Production) 331.548 MCF  
 ----- = **40%**  
 (Total Combined Production) 820.956 MMSCF

**Oil Allocation:**

**Mesa Verde** (Total Mesa Verde Production) 3 MSTB of Oil  
 ----- = **100%**  
 (Total Combined Production) 3 MSTB of Oil

**Pictured Cliffs** (Total Pictured Cliffs Production) 0 MSTB of Oil  
 ----- = **0%**  
 (Total Combined Production) 3 MSTB of Oil



Operator:

Field: *Pictured Circle*

Zone:

Type: Gas

Group: None

No  
Active  
Forecast

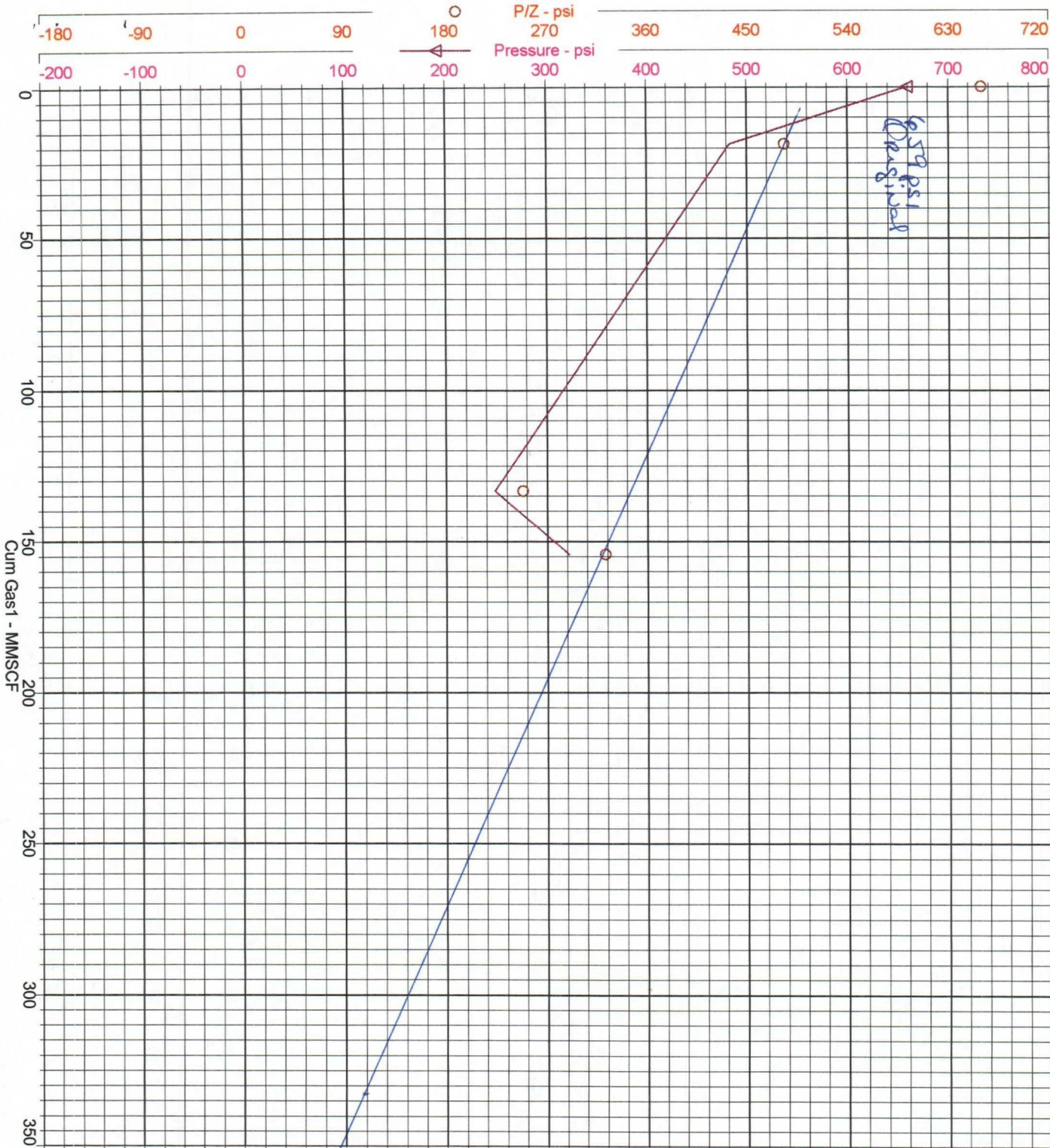
Production Cums  
Oil: 0 MSTB

Gas: 332.755 MMSCF

Water: 0.183 MSTB

Cond: 0 MSTB

○ P/Z - psi  
Cum: 0  
—▽— Pressure - psi  
Cum: 0



Operator:

Field: *Meauvade*

Zone:

Type: Gas

Group: None

No  
Active  
Forecast

Production Cums

Oil: 0 MSTB

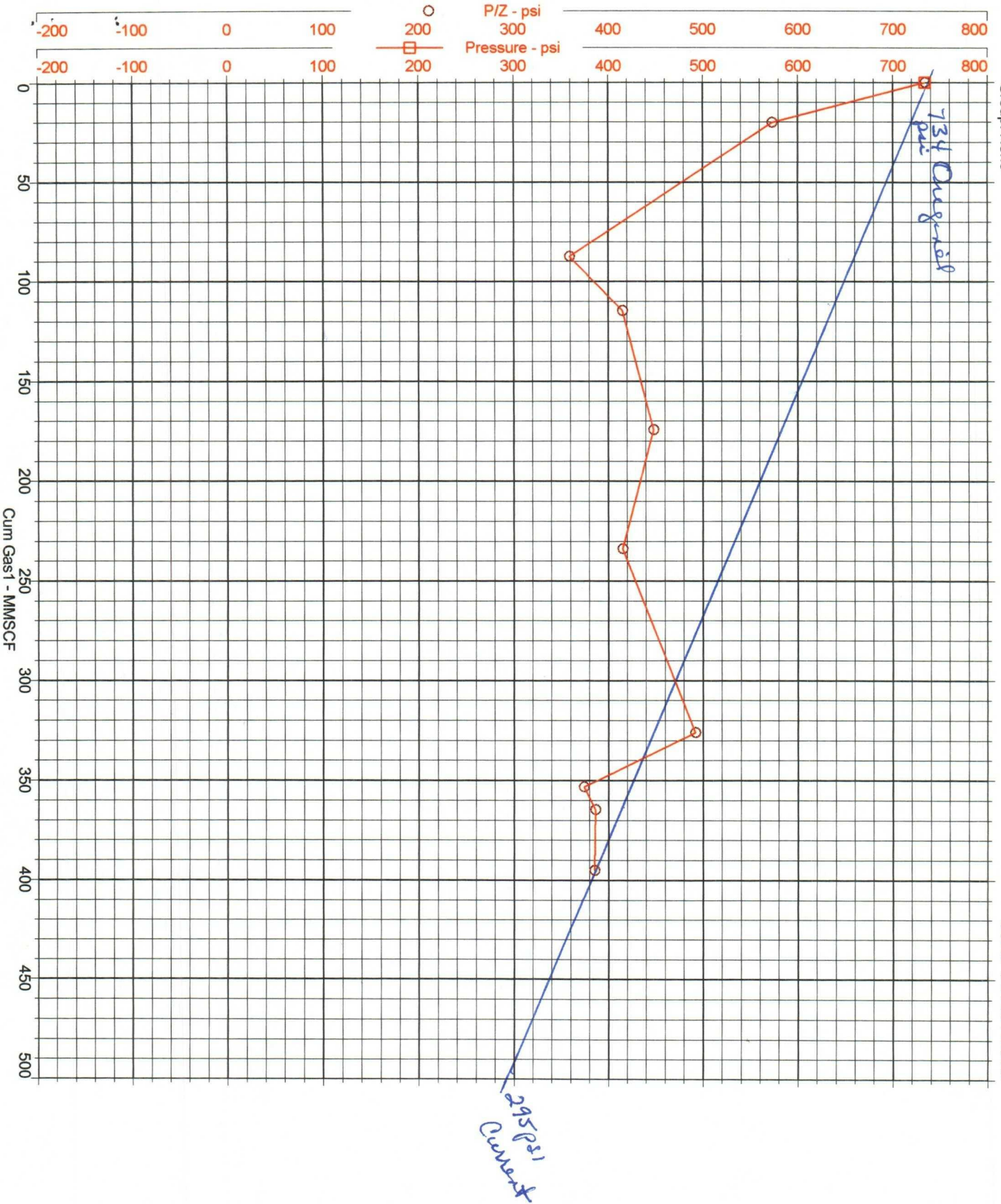
Gas: 490.187 MMSCF

Water: 1.08874 MSTB

Cond: 2.77304 MSTB

○ P/Z - psi  
Cum: 0

□ Pressure - psi  
Cum: 0



# ***INTEREST OWNERS***

## ***Hare #22 Well***

ALBERT S JOHNSON

ANDREW WITTEN

ANNA CELIA HOWELL HILTON

BEN HOWELL LANGFORD

BUREAU OF LAND MANAGEMENT

BURLINGTON RESO O&G (SJBT)

CHASE BANK OF TEXAS NA

CHASE BANK OF TEXAS NA TRUSTEE

CHASE BANK OF TEXAS NA TRUSTEE

DANIEL HENRY RAFFKIND &

ELIZABETH H LUND TRUSTEE

ELIZABETH J TURNER CALLOWAY

ELIZABETH WITTEN

EMILIE M HARDIE ROYALTY TRUST

EMILY D GRAMBLING

FREDERICK EUGENE TURNER

HARE PRODUCTION COMPANY LTD

J GLENN TURNER JR

JANE HARDIE TRUSTEE

JOHN A GRAMBLING

JOHN LEE TURNER

JOSEPH C JASTRZEMBSKI

JUDITH WITTEN

JUDY G ZWEIBACK

MABELLE BRAMHALL TRUSTEE

MARGUERITE JAQUEZ TRUSTEE

***Hare #22 Well***

MAYER BOECKMAN PARTNERSHIP

NORTH AMERICAN ENERGY

PATRICIA G HARVEY

R H FEUILLE

RICHARD PARKER LANGFORD

RONALD S DAVIS M D

SAM MIZEL

SCHULTZ HENRIETTA TR

SCHULTZ MANAGEMENT L

TAMANACO OIL CORP

THORNTON HARDIE III TRUSTEE

WILLIAM G WEBB