

DATE 3/21/01	SUBMITTER 4/10/01	ENGINEER DC	LOGGED IN MW	TYPE DHC	APP NO. 108250158
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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



2900

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

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 22A I Sec 14, T29N, R10W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 14538 Property Code 7091 API No. 30-045-23454 Lease Type: X 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)	2252'-2284'		3983'-4696'
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)	211		330
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1165		1190
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: 34 MCFD, 0 BOD, 0 BWD	Date: Rates:	Date: 2/28/01 Rates: 17MCFD, 0 BOD, 0 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 X ____
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes X ____ No ____
Are all produced fluids from all commingled zones compatible with each other? Yes X ____ No ____
Will commingling decrease the value of production? Yes ____ No X ____
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 X ____ 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 Joe Michetti TITLE Operations Engineer DATE 3-21-01
nco
TYPE OR PRINT NAME Joe Michetti TELEPHONE NO. (505) 326-9700

N MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION, LAT

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

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

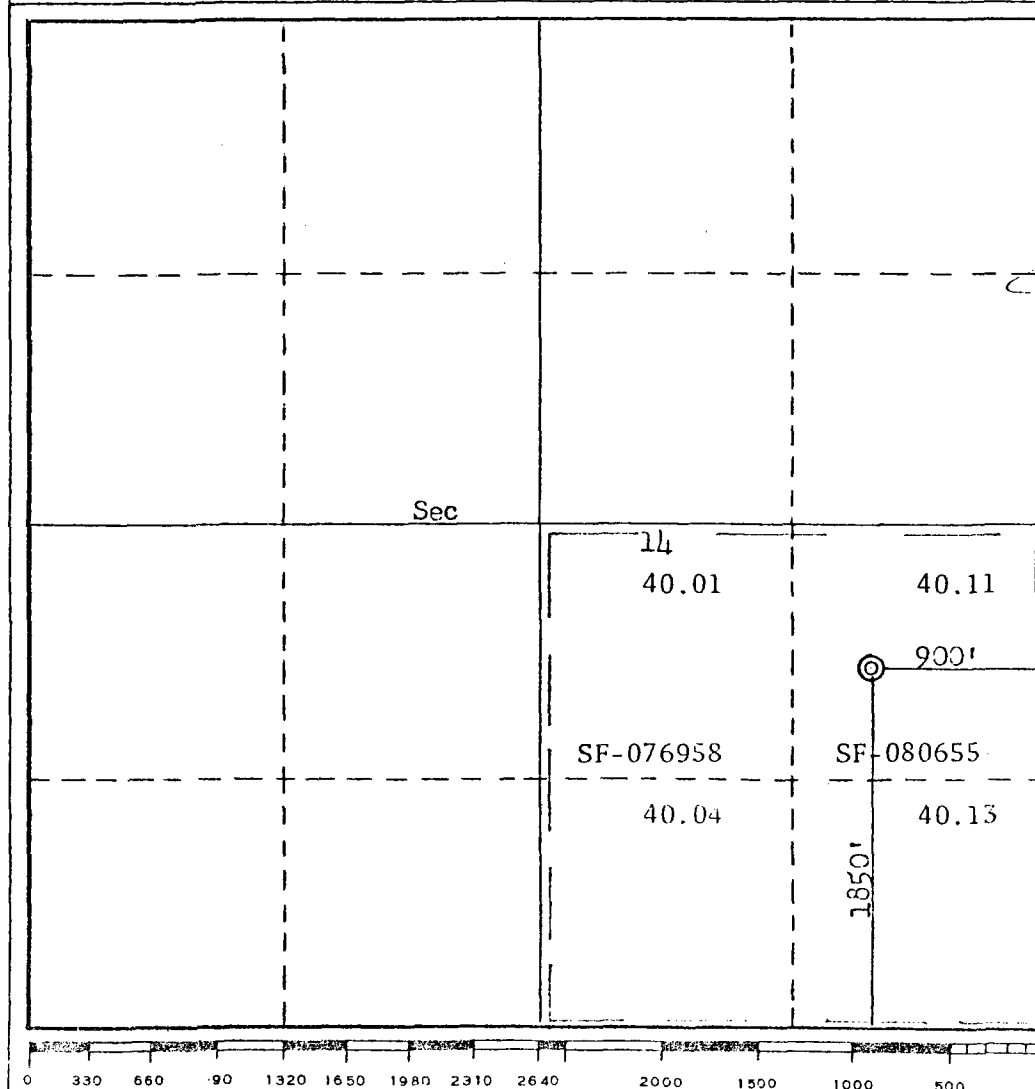
Operator SOUTHLAND ROYALTY COMPANY			Lease HARE		Well No. 23 22A
Unit Letter I	Section 14	Township 29N	Range 10W	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 900 feet from the East line.					
Ground Level Elev. 5848	Producing Formation Pictured Cliffs		Pool Aztec		Dedicated Acreage: 160.28 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 *Don Kavan*
Position **District Production Manager**
Company **Southland Royalty Company**
Date **July 19, 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 6, 1978**
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr
Certificate No. **3950**

Cumulative Monthly Well Report September 1996 Through March 2001

Select By : Completions

Page No : 1

Report Number : R_290

Print Date : 3/19/2001, 10:30:49 AM

Completion	Date	Oil		Gas		Water	
		Current	Cumulative	Current	Cumulative	Current	Cumulative
HARE 22A MV	10/31/1998	41.84	41.84	0.00	0.00	0.00	0.00
	11/30/1998	18.51	60.35	1,856.81	1,856.81	0.00	0.00
	12/31/1998	19.38	79.72	2,013.67	3,870.48	0.00	0.00
	1/31/1999	17.35	97.08	2,025.44	5,895.92	0.00	0.00
	2/28/1999	8.95	106.03	2,088.18	7,984.10	5.81	5.81
	3/31/1999	17.00	123.03	2,087.20	10,071.30	19.76	25.57
	4/30/1999	7.23	130.26	1,527.41	11,598.71	0.87	26.44
	5/31/1999	13.30	143.56	2,034.26	13,632.97	2.91	29.34
	6/30/1999	23.15	166.71	2,269.55	15,902.52	0.00	29.34
	7/31/1999	13.60	180.31	2,550.91	18,453.43	0.00	29.34
	8/31/1999	12.78	193.10	2,418.56	20,871.99	0.00	29.34
	9/30/1999	18.78	211.87	2,157.79	23,029.78	13.95	43.29
	10/31/1999	46.86	258.74	2,257.78	25,287.56	0.00	43.29
	11/30/1999	20.55	279.29	2,051.91	27,339.47	0.00	43.29
	12/31/1999	2.32	281.60	2,129.36	29,468.83	0.00	43.29
	1/31/2000	4.34	285.94	1,168.60	30,637.43	0.00	43.29
	2/29/2000	12.73	298.68	482.34	31,119.77	0.00	43.29
	3/31/2000	15.04	313.71	1,553.88	32,673.65	3.49	46.78
	4/30/2000	7.02	320.73	2,106.81	34,780.46	0.00	46.78
	5/31/2000	7.61	328.33	2,140.14	36,920.60	0.00	46.78
	6/30/2000	23.24	351.58	1,924.46	38,845.06	1.16	47.94
	7/31/2000	4.63	356.20	2,097.98	40,943.04	0.00	47.94
	8/31/2000	31.81	388.02	1,747.01	42,690.05	0.00	47.94
	9/30/2000	13.02	401.03	1,730.35	44,420.40	0.00	47.94
	10/31/2000	6.07	407.11	624.49	45,044.89	0.00	47.94
	11/30/2000	0.29	407.40	5.88	45,050.77	0.00	47.94
	12/31/2000	0.00	407.40	0.00	45,050.77	0.00	47.94
	1/31/2001	0.58	407.97	728.41	45,779.18	0.00	47.94
	2/28/2001	0.00	407.97	473.52	46,252.70	0.00	47.94
	3/31/2001	0.00	407.97	0.00	46,252.70	0.00	47.94
HARE 22A PC	10/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	0.00	0.00	1,016.57	1,016.57	0.00	0.00
	12/31/1998	0.00	0.00	1,199.97	2,216.54	0.00	0.00
	1/31/1999	0.00	0.00	1,154.87	3,371.41	0.00	0.00
	2/28/1999	0.00	0.00	1,173.50	4,544.91	0.00	0.00
	3/31/1999	0.00	0.00	1,187.22	5,732.13	0.00	0.00
	4/30/1999	0.00	0.00	1,134.28	6,866.41	0.00	0.00
	5/31/1999	0.00	0.00	1,259.77	8,126.18	0.00	0.00
	6/30/1999	0.00	0.00	949.97	9,076.15	0.00	0.00
	7/31/1999	0.00	0.00	1,187.22	10,263.37	0.00	0.00
	8/31/1999	0.00	0.00	1,125.46	11,388.83	0.00	0.00
	9/30/1999	0.00	0.00	1,235.26	12,624.09	0.00	0.00
	10/31/1999	0.00	0.00	1,148.99	13,773.08	0.00	0.00
	11/30/1999	0.00	0.00	1,225.46	14,998.54	0.00	0.00
	12/31/1999	0.00	0.00	1,340.16	16,338.70	0.00	0.00
	1/31/2000	0.00	0.00	854.88	17,193.58	0.00	0.00
	2/29/2000	0.00	0.00	0.00	17,193.58	0.00	0.00
	3/31/2000	0.00	0.00	1,114.68	18,308.26	0.00	0.00
	4/30/2000	0.00	0.00	1,394.08	19,702.34	0.00	0.00
	5/31/2000	0.00	0.00	1,118.60	20,820.94	0.00	0.00
	6/30/2000	0.00	0.00	1,054.87	21,875.81	0.00	0.00
	7/31/2000	0.00	0.00	1,306.83	23,182.64	0.00	0.00
	8/31/2000	0.00	0.00	1,270.55	24,453.19	0.00	0.00
	9/30/2000	0.00	0.00	1,012.72	25,465.91	0.00	0.00
	10/31/2000	0.00	0.00	1,045.07	26,510.98	0.00	0.00
	11/30/2000	0.00	0.00	1,015.66	27,526.64	0.00	0.00
	12/31/2000	0.00	0.00	1,103.89	28,630.53	0.00	0.00
	1/31/2001	0.00	0.00	1,050.95	29,681.48	0.00	0.00

HARE 22A 2725801 (283667675426.636) Data: Jan. 1979-Feb. 2001

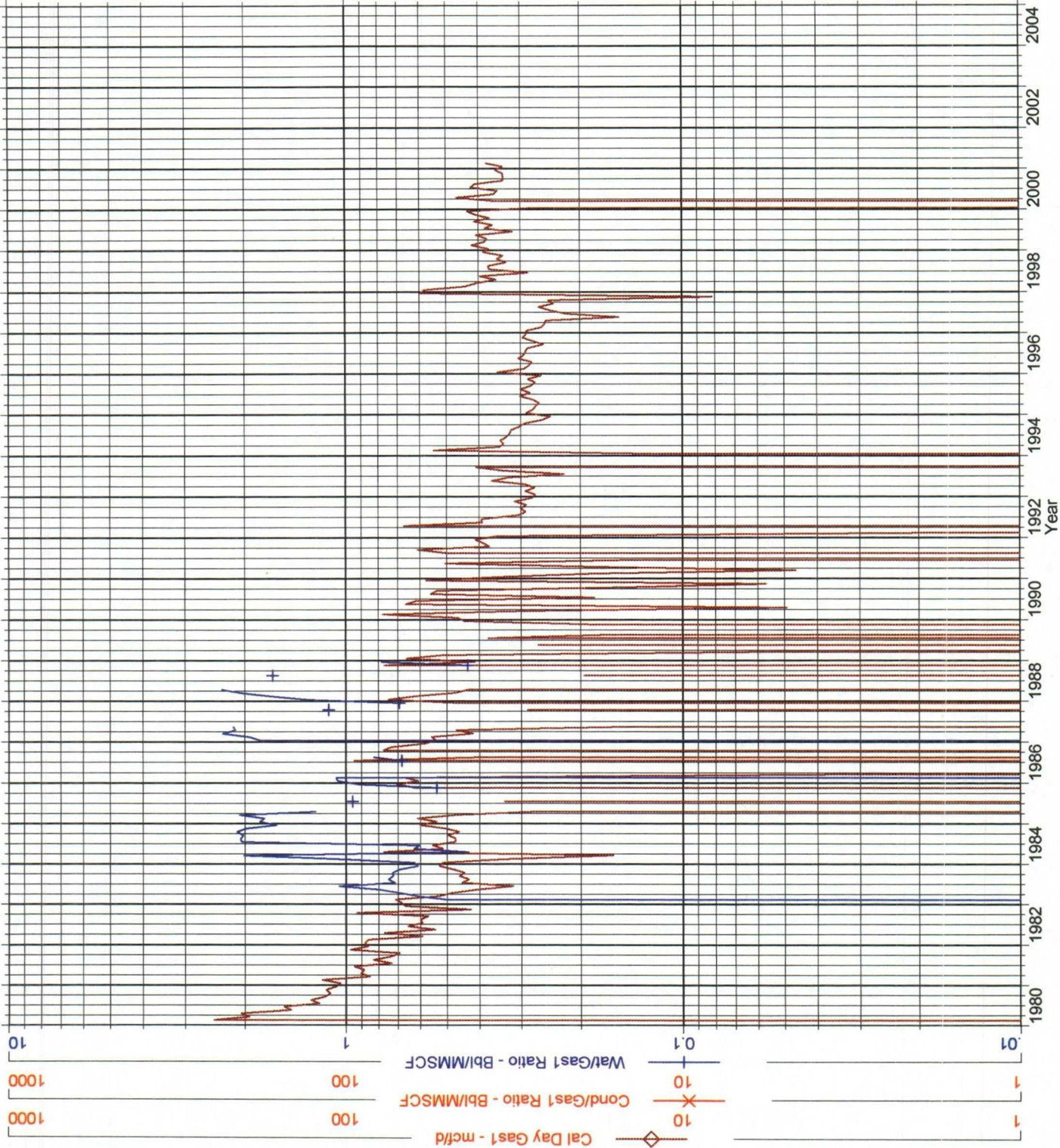
Operator:
Field:
Zone:
Type: Gas
Group: None

Pictured Cliff

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 325.427 MMSCF
Water: 0.086 MSTB
Cond: 0 MSTB

Cal Day Gas1 - mcf/d
Cum: 325.427 MMSCF
Cond/Gas1 Ratio - Bbl/MMSCF
Cum: 0 MSTB
Wat/Gas1 Ratio - Bbl/MMSCF
Cum: 0.086 MSTB



HARE 22A 2725802 (70576291751.8649) Data: Jan.1980-Feb.2001

Operator: BURLINGTON RESOURCES OIL GAS CO LP

Field: BLANCO MESAVERDE (PRORATED GAS)

Zone:

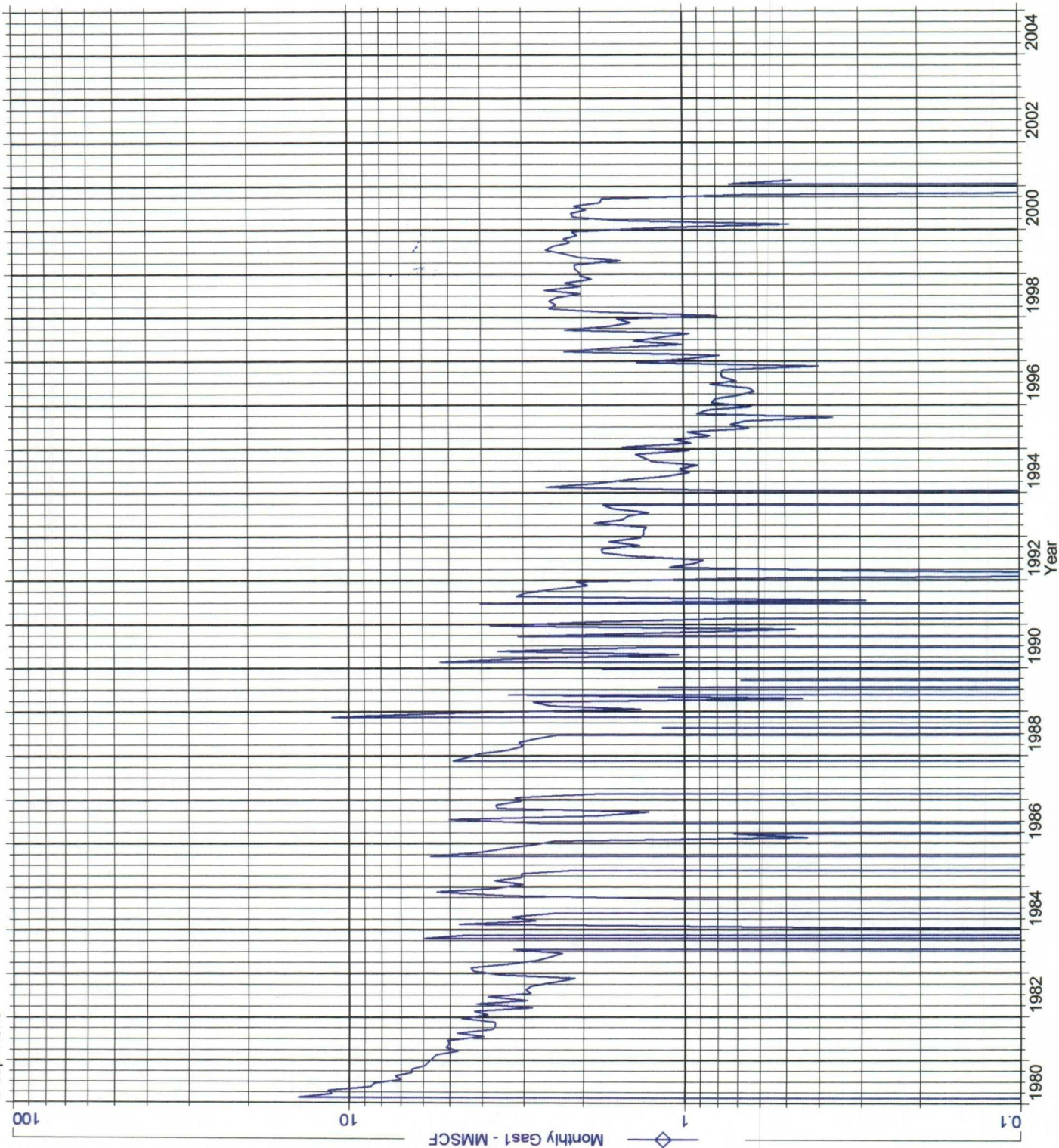
Type: Gas

Group: None

No
Active
Forecast

Mesa Verde

Production Cums
Oil: 0 MSTB
Gas: 555.836 MMSCF
Water: 0.749938 MSTB
Cond: 5.00014 MSTB



Monthly Gas1 - MMSCF
Cum: 555.836 MMSCF

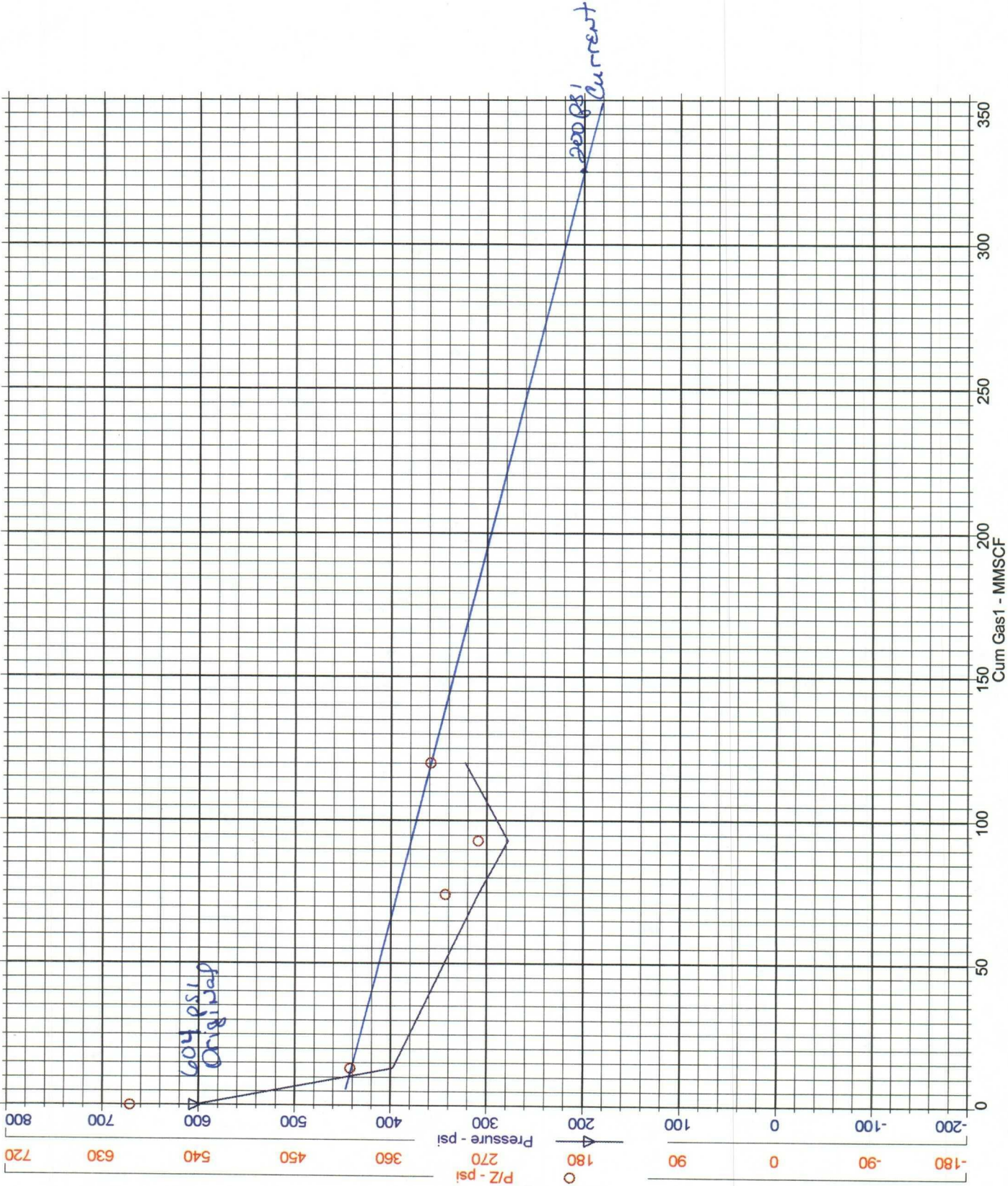
HARE 22A 2725801 (283667675426.636) Data: Jan.1979-Feb.2001

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

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 325.427 MMSCF
Water: 0.086 MSTB
Cond: 0 MSTB

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

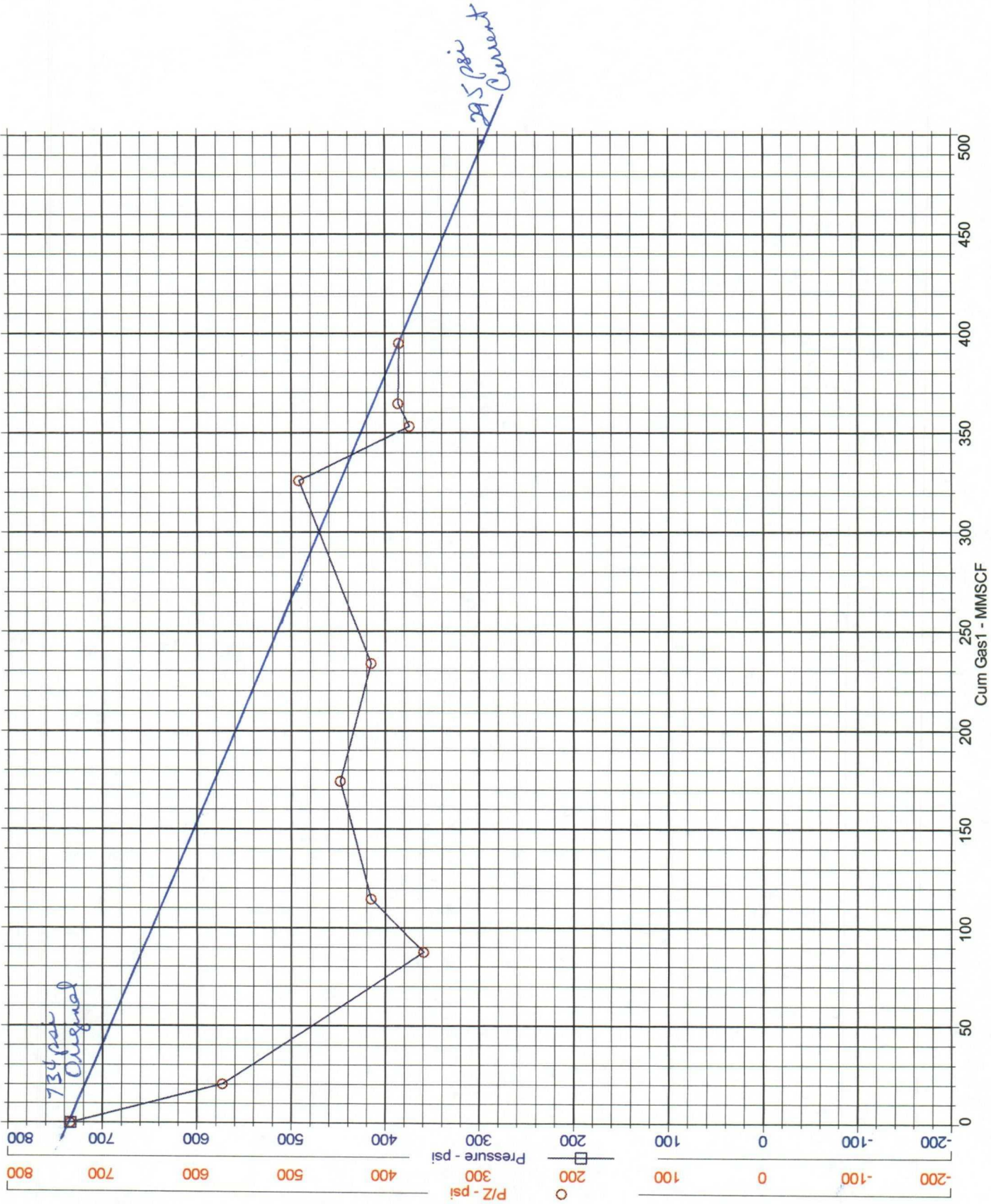


HARE 22 2725601 (266390961843.727) Data: May.1979-Feb.2001

Operator:
Field:
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



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

Pictured Cliffs		Mesa Verde	
<u>PC-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.672	GAS GRAVITY	0.745
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.24	%N2	0.45
%CO2	0.76	%CO2	0.6
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	2268	DEPTH (FT)	4340
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110	BOTTOMHOLE TEMPERATURE (DEG F)	156
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	200	SURFACE PRESSURE (PSIA)	295
BOTTOMHOLE PRESSURE (PSIA)	211.2	BOTTOMHOLE PRESSURE (PSIA)	330.4
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.672	GAS GRAVITY	0.745
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.24	%N2	0.45
%CO2	0.76	%CO2	0.6
%H2S	0	%H2S	0
DIAMETER (IN)	6.456	DIAMETER (IN)	4.052
DEPTH (FT)	2268	DEPTH (FT)	4340
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110	BOTTOMHOLE TEMPERATURE (DEG F)	156
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	604	SURFACE PRESSURE (PSIA)	734
BOTTOMHOLE PRESSURE (PSIA)	640.4	BOTTOMHOLE PRESSURE (PSIA)	831.2

INTEREST OWNERS

Hare #22A 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 #22A 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