

DATE IN 3/4/98	SUSPENSE 3/24/98	ENGINEER DC	LOGGED W	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

1870

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [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]

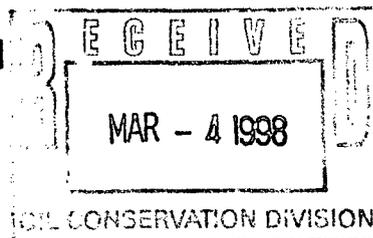
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
 NSL NSP DD SD

Check One Only for [B] and [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 - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all 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, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Bradfield  Regulatory/Compliance Administrator
 Print or Type Name Signature Title

Date

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
New 3-12-96

APPROVAL PROCESS :

Administrative Hearing

EXISTING WELLBORE

YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator	Address		
Hare	#19E	C 23-29-10	San Juan, New Mexico
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7091 API NO. 30-045-23742 Federal , State _____, (and/or) Fee _____

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco Mesaverde - 72399		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4394' 4517' (current), Proposed to be 4034' - 4517'		6569' - 6690'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 340 psia at 4276'	a.	(Current) a. 220 psia at 6630'
	(Original) b. 1206 psia at 4276'	b.	b. 1179 psia at 6630'
6. Oil Gravity (°API) or Gas BTU Content	1263		1242
7. Producing or Shut-in?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small> * If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
	Date: 2/23/1998 Rates: 1.9/40/0	Date: Rates:	Date: 2/23/98 Rates: 0 / 54 / 0
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: _____ Gas: _____ will be supplied upon completion	Oil: _____ % Gas: _____ %	Oil: _____ Gas: _____ will be supplied upon completion

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? Yes No
If not, have all working, overriding, and royalty interests been notified by certified mail? Yes No
Have all offset operators been given written notice of the proposed downhole commingling? Yes No

11. Will cross-flow occur? Yes No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? Yes No

13. Will the value of production be decreased by commingling? Yes No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. Yes No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

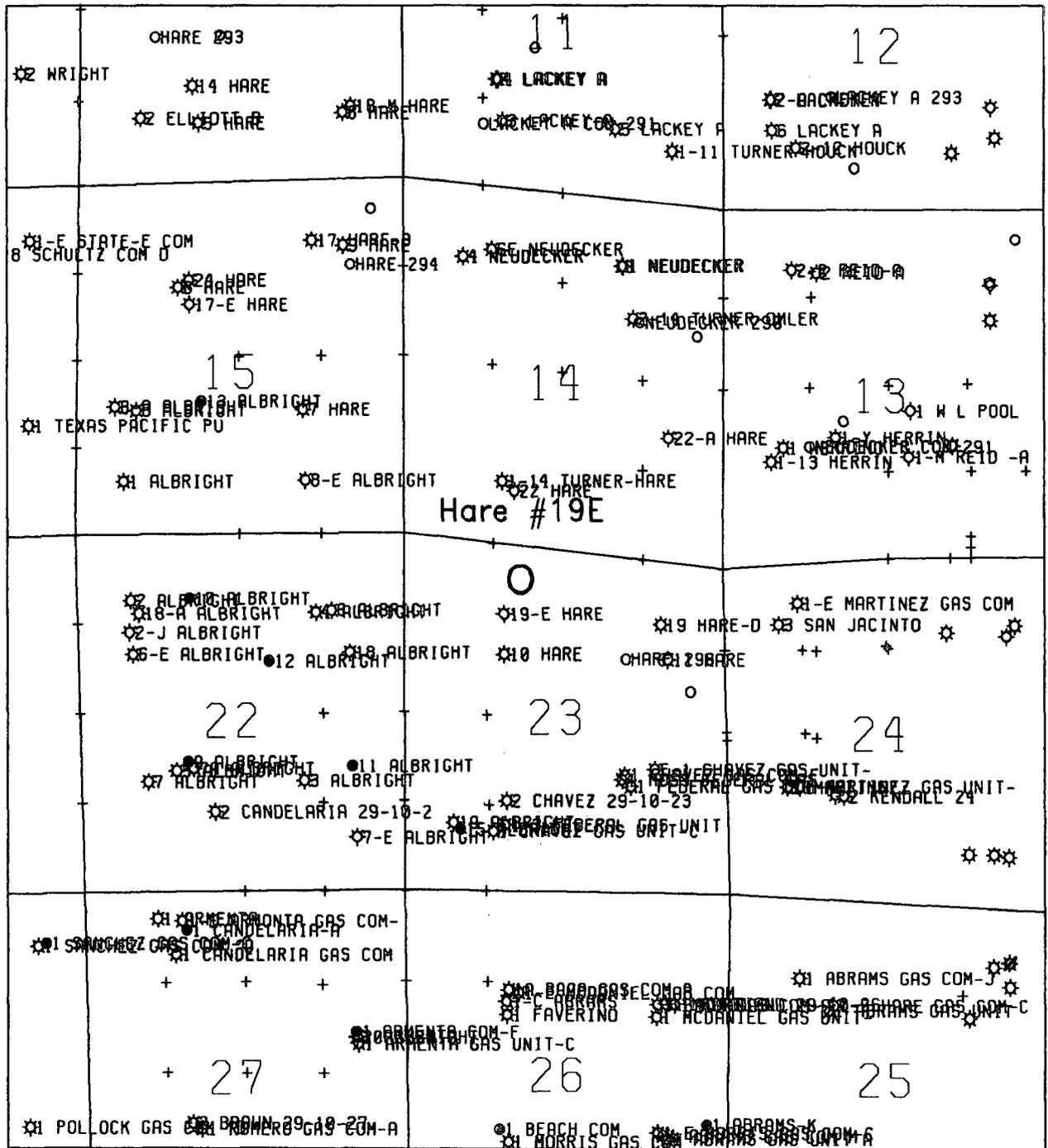
16. ATTACHMENTS:

- * 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 all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Kevin Midkiff TITLE Operations Engineer DATE 03-02-98

TYPE OR PRINT NAME Kevin Midkiff TELEPHONE NO. (505) 326-9700



Hare #19E

T29N, R10W, 23 C

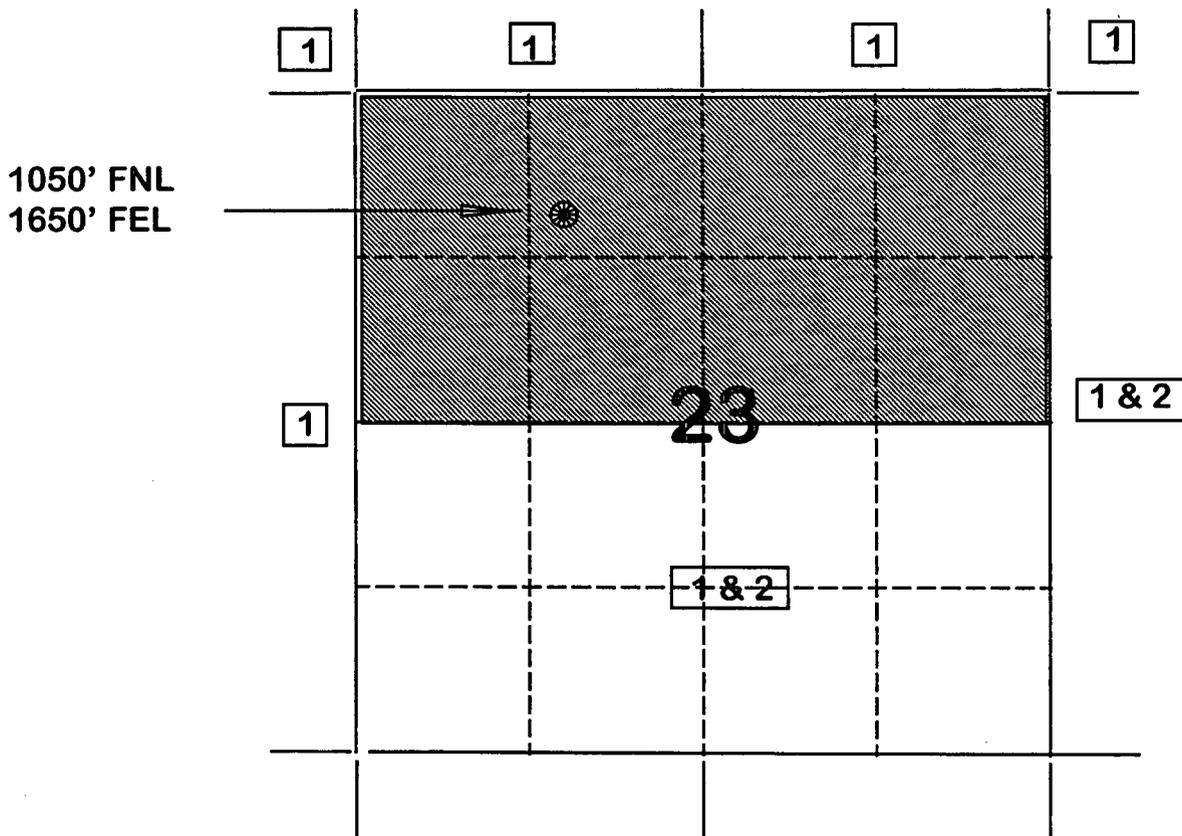
MV / DK

BURLINGTON RESOURCES OIL AND GAS COMPANY

Hare #19E

Mesaverde / Dakota Formations Commingle Well

Township 29 North, Range 10 West



- 1) Burlington Resources
- 2) Amoco Production Company
c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201

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.

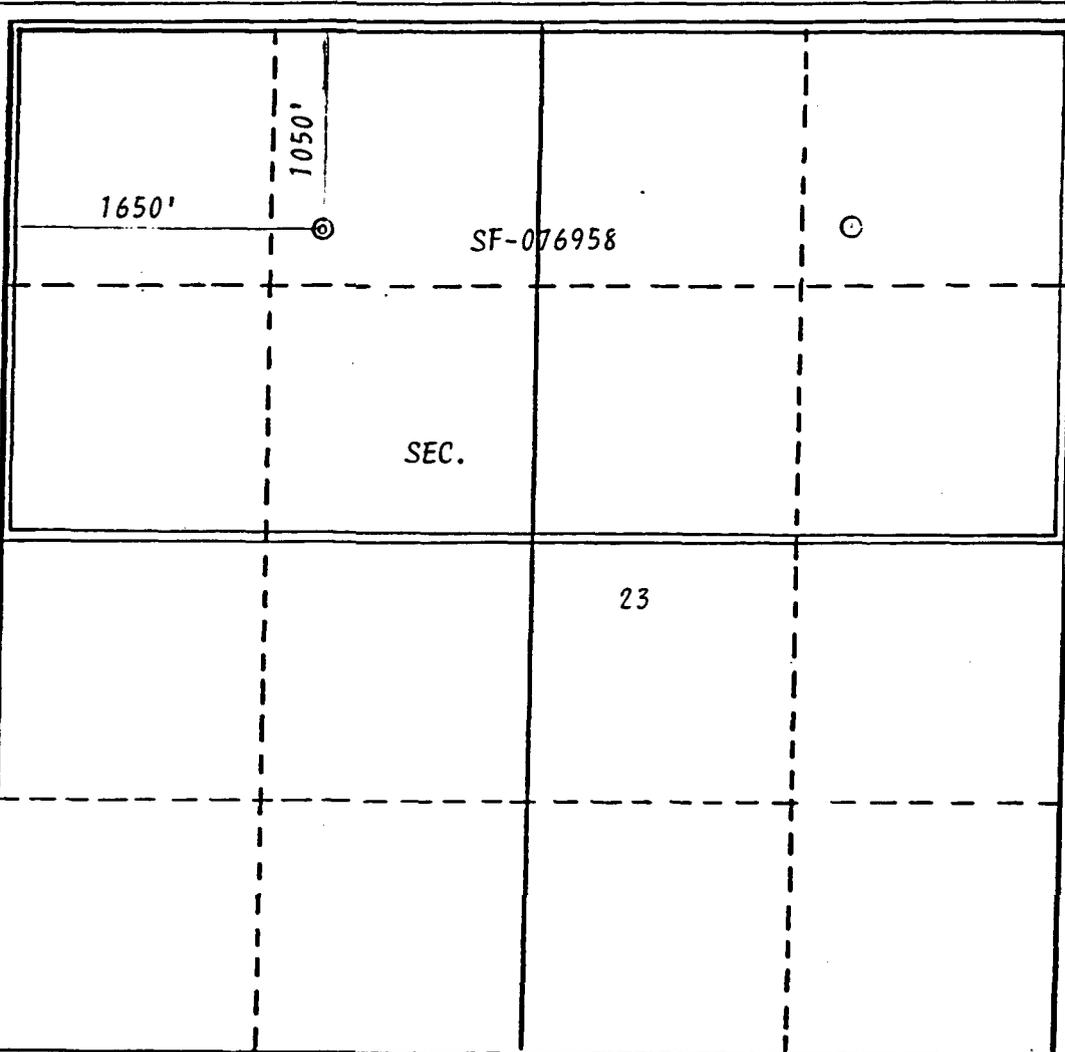
Operator <i>Southland Royalty Company</i>		Lease <i>Hare</i>		Well No. <i>#19E</i>
Unit Letter <i>C</i>	Section <i>23</i>	Township <i>29N</i>	Range <i>10W</i>	County <i>San Juan</i>
Actual Footage Location of Well: <i>1050'</i> feet from the <i>North</i> line and <i>1650'</i> feet from the <i>West</i> line				
Ground Level Elev: <i>5746'</i>	Producing Formation <i>Dakota/Mesa Verde</i>	Pool <i>Basin / Blanco Mesa Verde</i>	Dedicated Acreage: <i>320</i> 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 _____

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.

Curtis C. Parsons

Name <i>Curtis C. Parsons</i>
Position <i>District Engineer</i>
Company <i>Southland Royalty Company</i>
Date <i>May 27, 1980</i>

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 <i>August 1, 1979</i>
Registered Professional Engineer and/or Land Surveyor <i>Fred B. Kerr, Jr.</i>
Certificate No. <i>3950</i>

Package Preparation Volume Data

2/23/98

DPNo: 27248 HARE 19E Form: DK

Supt: 60 KEN RAYBON FF: 338 JOHNNY ELLIS MS: 327 MIKE MCKINNEY
 Pipeline: WFS Plunger: No Dual: Yes Compressor: No

<u>Ownership (No Trust)</u>			<u>Prior Year</u>			<u>Current Year</u>				
	<u>Gas</u>	<u>Oil</u>			<u>Days</u>			<u>Days</u>		
	<u>GWl:</u>	<u>25.0000%</u>	<u>25.0000%</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	
	<u>GNI:</u>	<u>21.0000%</u>	<u>21.0000%</u>	Jan	268	3.0	31	1,662	3.0	31
				Feb	80	0.0	29	1,398	2.0	28
				Mar	1,545	8.0	31	897	2.0	31
				Apr	1,307	7.0	30	1,069	2.0	30
				May	514	4.0	31	1,216	2.0	31
				Jun	805	2.0	24.7	864	2.0	30
				Jul	656	3.0	31	1,142	0.0	26.8
				Aug	1,833	3.0	31	936	0.0	31
				Sept	825	3.0	30	841	2.0	30
				Oct	1,399	0.0	31	46	0.0	31
				Nov	966	0.0	30	558	0.0	30
				Dec	1,259	1.0	31	1,764	4.0	31
				Total	11,457	34.0		12,393	19.0	
<u>Volumes (Days On)</u>										
	<u>MCFD</u>	<u>BOPD</u>								
7 Day Avg	55	0.0								
30 Day Avg	54	0.0								
60 Day Avg	56	0.1								
3 Mo Avg	26	0.0								
6 Mo Avg	29	0.0								
12 MoAvg	34	0.1								
<u>Volumes (Days in Month)</u>										
	<u>MCFD</u>	<u>BOPD</u>								
30 Day Avg	54	0.0								
60 Day Avg	56	0.1								
3 Mo Avg	26	0.0								
6 Mo Avg	29	0.0								
12 Mo Avg	34	0.1								

Print Form

Exit Volumes Data

Package Preparation Volume Data

2/23/98

DPNo: 272A7 HARE 19E Form: MV

Supt: 60 KEN RAYBON FF: 338 JOHNNY ELLIS MS: 327 MIKE MCKINNEY
 Pipeline: WFS Plunger: No Dual: Yes Compressor: No

<u>Ownership (No Trust)</u>			<u>Prior Year</u>			<u>Current Year</u>					
	<u>Gas</u>	<u>Oil</u>			<u>Days</u>			<u>Days</u>			
	GWI:	25.0000%	25.0000%		<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	
	GNI:	21.0000%	21.0000%								
<u>Volumes</u>											
<u>(Days On)</u>			<u>MCFD</u>	<u>BOPD</u>							
7 Day Avg			40	1.9	Jan	667	0.0	31	1,101	1.0	31
30 Day Avg			47	0.2	Feb	979	0.0	29	1,740	2.0	28
60 Day Avg			61	0.2	Mar	1,475	0.0	31	1,557	1.0	31
3 Mo Avg			55	0.1	Apr	1,162	0.0	30	1,328	0.0	30
6 Mo Avg			58	0.1	May	1,343	0.0	31	1,410	0.0	31
12 Mo Avg			53	0.1	Jun	1,204	0.0	23.1	1,462	2.0	30
					Jul	1,289	0.0	31	1,396	3.0	24.8
					Aug	1,951	0.0	31	1,774	2.0	31
					Sept	2,124	2.0	30	2,054	3.0	30
					Oct	1,871	0.0	31	1,542	0.0	31
					Nov	1,578	5.0	30	1,155	5.0	30
					Dec	1,247	5.0	31	2,330	5.0	31
					Total	16,890	12.0		18,849	24.0	

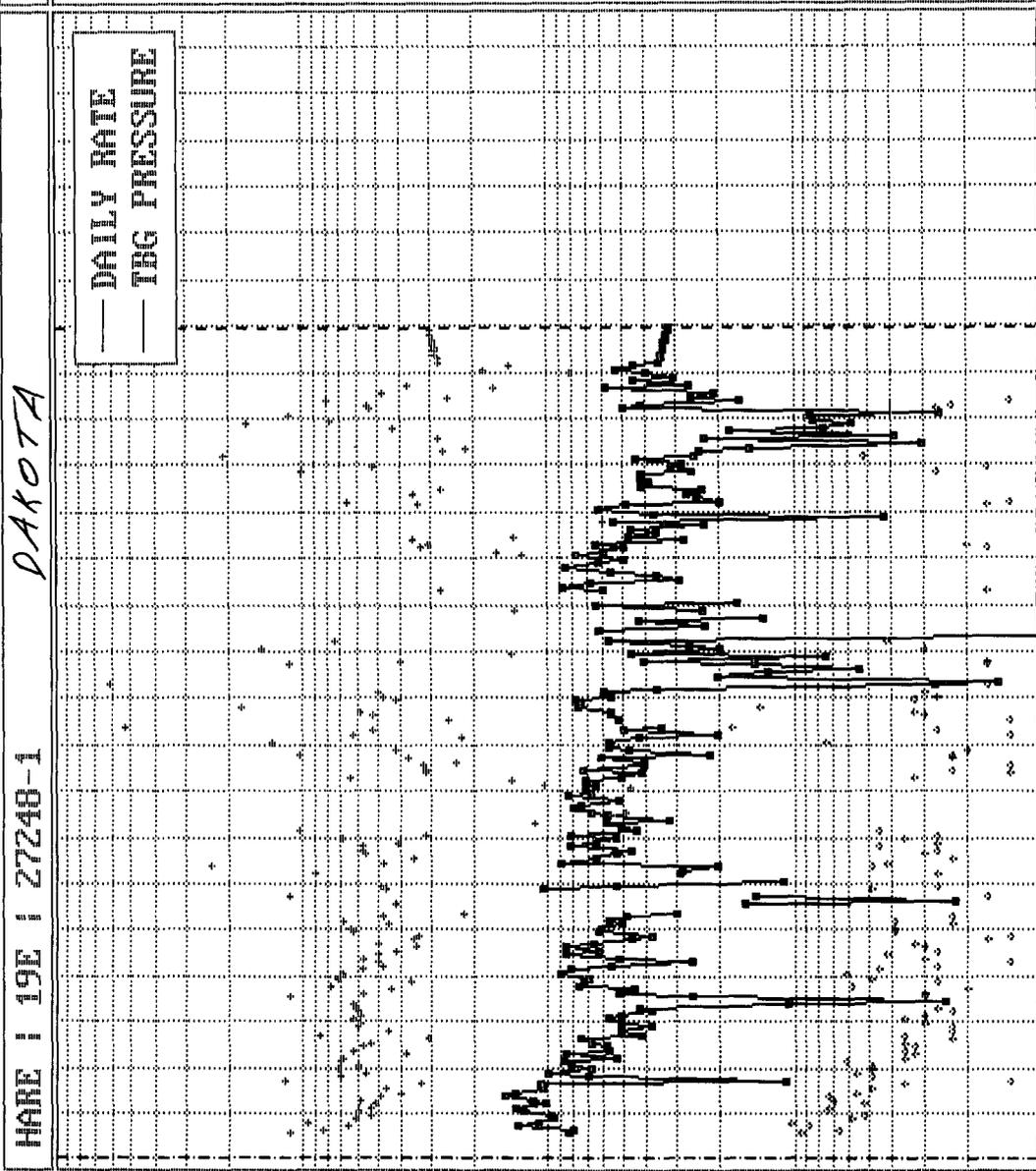
Print Form

Exit Volumes Data

Prop 2066 *

● GAS Mcf/d
 ○ GAS Mcf/d
 ○ OIL/GAS Bbl/M
 ○ OIL Bbl/d

Rate Time
 Semi Log



Major = GAS

* OIL
 * OIL/GAS
 * GAS
 * GAS

100
 10
 1
 0.1

1000
 100
 10
 1
 0.1

Hare #19E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde	Dakota																																																
<u>MV-Current</u>	<u>DK-Current</u>																																																
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BOTTOMHOLE PRESSURE (PSIA)	1205.6																																																
GAS GRAVITY	0.723																																																
COND. OR MISC. (C/M)	M																																																
%N2	0.57																																																
%CO2	0.58																																																
%H2S	0																																																
DIAMETER (IN)	2																																																
DEPTH (FT)	6630																																																
SURFACE TEMPERATURE (DEG F)	60																																																
BOTTOMHOLE TEMPERATURE (DEG F)	169																																																
FLOWRATE (MCFPD)	0																																																
SURFACE PRESSURE (PSIA)	976																																																
BOTTOMHOLE PRESSURE (PSIA)	1179.1																																																

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Print Time: Tue Dec 02 09:25:42 1997

Property ID: 2066

Property Name: HARE | 19E | 27248-1

DAKOTA

Table Name: K:\ARIES\RR98WW\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

04/17/80 0 964.0 *Initial*

08/23/80 4975 890.0

06/07/82 68998 477.0

05/01/83 85052 484.0

12/03/85 131825 263.0

08/17/88 185046 469.0

03/21/90 213633 284.0

10/1/97 301963 175 *Estimated Current Based on P vs. Cum. Plot*

Page No.: 1

Print Time: Tue Dec 02 09:31:03 1997

Property ID: 2870

Property Name: HARE | 19E | 27247-1

MESA VERDE

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

04/24/80	0	1047.0	<i>Initial</i>
08/23/80	20367	789.0	
06/07/82	116893	589.0	
04/03/84	167595	557.0	
04/22/86	219421	565.0	
05/07/89	302583	413.0	
04/10/91	345232	408.0	
05/10/91	346143	420.0	
06/03/93	387977	338.0	
10/1/97	462700	292	<i>Estimated Current Based on P vs Cum. Plot</i>