DATE IN	1/98	SUSPENSE 3/3/98	ENGINEER DC	LOGGED W	TYPE DHC
$\overline{}$	7	1-7			

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

1836

- Engineering Bureau -
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]
[DB-Directional Drilling] [SB-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]
TYPE OF APPLICATION - Check Those Which Apply for [A]
[1] TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD FEB 1 998
Check One Only for [B] and [C]
[B] Commingling - Storage - Measurement DHC CTB PLC PC COLS COLM
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \Box 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] Votification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E]
[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 Ru

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.

	mobiled	Regulatory/Compliance Administrator	2/10/9
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

New 3-12-90

APPROVAL PROCESS:

X Administrative __Hearing

EXISTING WELLBORE

X YES ___ NO

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 APPLICATION FOR DOWNHOLE COMMINGLING

perator		ddress	Can Juan Naw Maria
are		3-29-10	San Juan, New Mexico
980	Well No. U	nit Ltr Sec - Twp - Rge	County Spacing Unit Lease Types: (check 1 or more)
GRID NO. <u>14538</u> Property Co	ode7091 API NO	30-045-08749Federal	<u>X</u> , State, (and/or) Fee
he following facts are submitted n support of downhole omnungling:	Upper Zone	Intermedia Zone	LON6
I. Pool Name and Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4730' - 4765' : Current 4175' - 4765' : Proposed		6769' - 7004'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current)	a.	Measured
Oil Zones - Artificial Lift: Estimated Current	a. 546 psia		a. 804 psia
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1389 psia	b.	b. 2437 psia
6. Oil Gravity (°API) or Gas BTU Content	1220		1201
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
f Shut-In and oil/gas/water	Date: N/A	Date:	Date: N/A
rates of last production	Rates:	Rates:	Rates:
lote: For new zones with no production history, pplicant shall be required to attach production stimates and supporting data			
If Producing, give data and bil/gas/water water of recent test within 60 days)	Date: 1/98 Rates: 0.10 8bls/d / 36 MCFD	Date: Rates:	Date: 1/98 Rates: 0.00 Bbls/d / 46 MCFD
3. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas:	Oil: Gas: 9	Oil: Gas:
(total of 70 s to equal 10070)	will be supplied upon completion		will be supplied upon completion
). Are all working, overriding, and If not, have all working, overrid Have all offset operators been	l royalty interests identical in ling, and royalty interests be given written notice of the p	n all commingled zones en notified by certified roposed downhole com	
production be recovered, and	will the allocation formula be	reliableX Yes	nations not be damaged, will any cross-flo No (If No, attach explanation)
. Are all produced fluids from all Will the value of production be	•		_X_Yes No
. Will the value of production be		•	•
			issioner of Public Lands or the United St Yes No
. NMOCD Reference Cases for Re	ule 303(D) Exceptions: ORE	ER NO(S).	
5. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no pro * Data to support alloc * Notification list of all * Notification list be allocated and allocated allocated and allocated and allocated and allocated and allocated and additional states.	to be commingled showing it each zone for at least one y oduction history, estimated pation method or formula. offset operators, orking, overriding, and royall nents, data, or documents re	s spacing unit and acre ear. (If not available, a production rates and su y interests for uncomm	eage dedication. ttach explanation.) pporting data. on interest cases.

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

SIGNATURE Con J. Muchaf TITLE Prod.Engineer ______DATE _01-29-98____

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

N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distances	must be from t	ne outer bound	laries of t	ne Section.		
Operator			Lea					Well No.
	il & Gas Compa	·		Hare	:			16
Jnit Letter	Section	Township	41-	Range	.	County	Tunn	
H Actual Footage Loc	Stion of Well:	29 Nor	th	10 Wes	τ	San	Juan	
1980		North	line and 99	90	60-4	f 1b	East	1(no
Ground Level Elev:			Poo		teet	from the		line Dedicated Acreage:
5962 Gl	Mesav			Blanco Me	esaver	de		323.04 Acres
	ie acreage dedica	ted to the sul	hiect well h	ov colored r	encil or	hachure	marks on th	ue plat helow
1. Outline ii	io doitodgo doditod		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 001010 1 p				o plat bolow.
•	nan one lease is nd royalty).	dedicated to	the well, or	itline each	and iden	ntify the (ownership tl	hereof (both as to working
	an one lease of d communitization, a		-		e well, l	have the	interests of	all owners been consoli-
			•			•		
Yes	∐ No If a	nswer is "yes	type of co	nsolidation				
		owners and tra	act descript	ions which	have ac	tually be	en consolid	ated. (Use reverse side o
	if necessary.)						· · · · · · · · · · · · · · · · · · ·	
								munitization, unitization
	oling, or otherwise	or until a non	-standard ur	nit, elimina	ing suc	h interest	s, has been	approved by the Commis
sion.								
y	The state of the s	de Residence de la Contraction del la Contraction de la Contractio	والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة	······································		1		CERTIFICATION
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Townson, I	1			ì			1 hereby	certify that the information con
CTRON	1			, i	į	H	i .	erein is true and complete to the
Ø4.272	i				`	11	best of m	y knowledge and belief.
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	i			1			Position	10 1 September 100
	. 1			į,			./	ict Superintendent
		Ì	•	1	ر ريسين	90 — !!	Company	
)	İ	*		!	_		Aztec	Oil & Gas
	l			1		[]	Date	
	1			1			Septer	mber 1, 1971
	بالمسؤولات ويترجهون يغيب سداء المرتور دماء والرابان		manager of the annual Property	معنده من عال معالم معالم المعالم المعا	(2) has the manufacture of the			
F-14-17-17-17-17-17-17-17-17-17-17-17-17-17-	!			}		.		
	i	1		1			I hereby	certify that the well location
	į.	}		1			shown or	this plat was plotted from fiel
	1 .			Ì			ł	actual surveys made by me o
***	1	İ	•	i			1	supervision, and that the same
	i I			İ		İ	1	and correct to the best of my
<u>_</u>	<u> </u>			1		l	knowledg	ge and belief.
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***************************************	1			1		1		hohawk Professional Engineer
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			i -	==		7	Certificate	No.
0 330 660	190 1320-1650 19	80 2510 2640	2000	1500 10	00 =		}	•

NE REXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section. Well No. Operator Lease and Gas Conn Unit Letter Township Range County 29 North 10 West San Juan feet from the 990 feet from the East North line and Dedicated Acreage: 323.0 Producing Formation Ground Level Elev: 5957 Gr Dakota Basin Dakota 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 interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all dated by communitization, unitization, force-pooling. etc? OGT 8 1969 If answer is "yes," type of consolidation ____ Yes No CIL CON: COM s**#IST**rs3 si If answer is "no," list the owners and tract descriptions which have actually been consolidated. 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 Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 323.04 Name Jóe Salmon Company October 6, 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 Registered Professional Engineer (and/or Land Surveyor Certificate No.

1320 1650

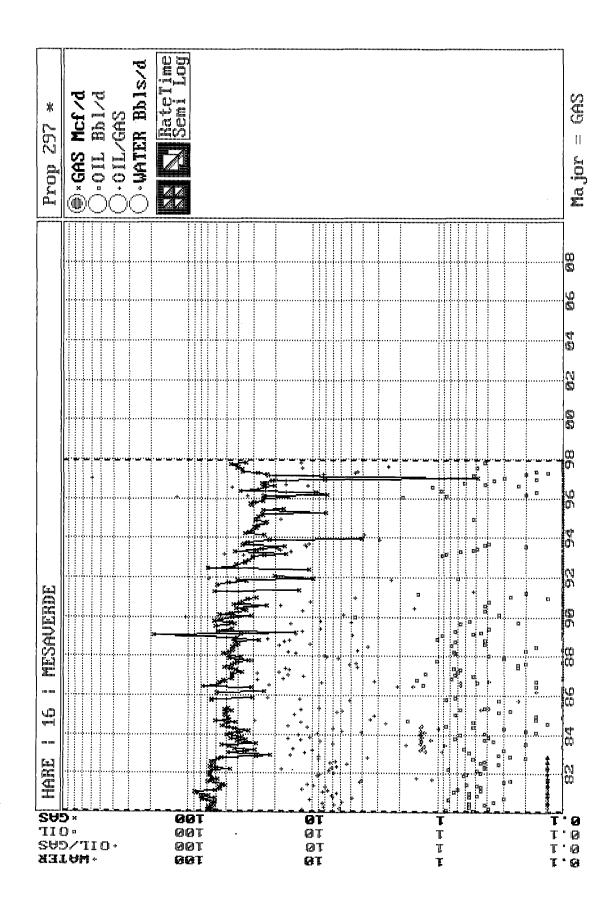
1980 2310

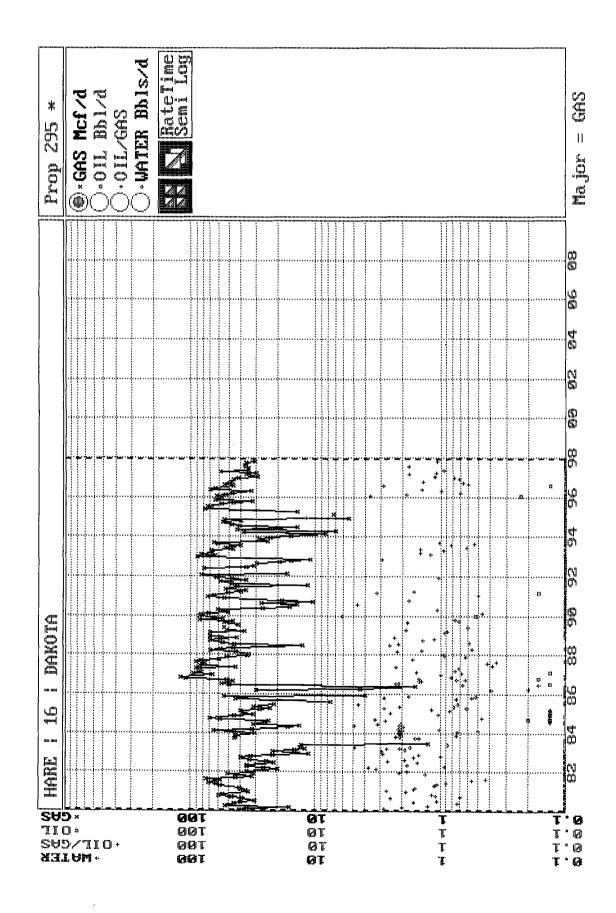
2000

1500

1000

500





Hare #16 Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde	Dakota
MV-Current	<u>DK-Current</u>
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 545.7	GAS GRAVITY 0.720 COND. OR MISC. (C/M) C %N2 0.27 %CO2 1.83 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 6887 SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 667 BOTTOMHOLE PRESSURE (PSIA) 804.0
MV-Original	<u>DK-Original</u>
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.37 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1388.8	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 1.83 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 2.375 6887 149 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) DEPTH (FT) 149 FLOWRATE (MCFPD) 1957

Bottomhole Pressure From Cum Gas Hare #16 Sec. 3, T29N, R10W Unit Ltr. H Mesaverde Zone

Date	Cum Gas (Mcf)	SIWHP (PSI)	Comments
4/30/80	0	1209 *	Original Reservoir Pressure
10/31/97	483992	484	Current Reservoir Pressure estimated from P/Z data

^{*} Note: Original reservoir pressure taken from Hare #15M, located in Sec. 3, T29N, R10W, Unit Ltr. O.

Page No.: 1
Print Time: Tue Dec 30 11:12:22 1997
Property ID: 295
Property Name: HARE | 16 | DAKOTA
Table Name: S:\ARIES\1ROS\TEST.DBF

DATE	CUM_GAS Mcf	M_SIWHP Psi	
05/18/62	0	1957.0	ORIGINAL
07/17/69	0	825.0	
05/02/73	467415	628.0	,
09/26/73	477414	628.0	
08/02/75	539949	570.0	
05/17/77	592928	578.0	
05/16/79	642223	558.0	
09/16/81	683585	736.0	
05/02/83	699693	919.0	
12/03/85	728621	980.0	
08/17/88	783143	922.0	
03/21/90	814490	825.0	1 4 6. 0/2
10/31/97	928203	667.0	CURRENT Estimated From P/Z

Package Preparation Volume Data

DPNo: 272	41 - 1 TE H	ARE		16	iet, er		For	m: DK	in.
Supt: 60	KEN RAYB	ON F	F: 338	JOHNNY ELL	ıs	MS:	327 MIKE M	CKINNEY	
Pipeline:	WFS	Plunger:	No	D	ual: Yes		Compre	essor:	No
O	wnership (No	Trust)		Pr	ior Year		Cur	rent Year	
GWI:	<u>Gas</u> 25.0000%	<u>Oil</u> 25.0000%		MCF/M	BOPM	<u>Days</u> <u>On</u>	MCF/M	ВОРМ	<u>Days</u> <u>On</u>
GNI:	21.0000%	21.0000%	Jan	1,966	7.0	31	905	1.0	31
			Feb	1,633	3.0	29	1,129	2.0	28
Volumes			Mar	1,446	1.0	31	932	1.0	31
(Days On)	MCF	D BOPD	Apr	1,031	1.0	30	1,793	0.0	30
7 Day Avg	28	0.0	May	2,171	3.0	31	1,079	1.0	31
30 Day Avg	y 46	0.0	Jun	1,969	0.0	30	1,064	0.0	30
60 Day Avg	38	0.0	Jul	1,415	4.0	31	1,135	2.0	27
3 Mo Avg	36	0.0	Aug	1,669	1.0	26.8	1,162	0.0	31
6 Mo Avg	39	0.0	Sept	1,533	1.0	30	1,115	0.0	30
12 MoAvg			Oct	1,473	2.0	31	966	1.0	31
			Nov	1,422	1.0	30	0	0.0	30
<u>Volumes</u>			Dec	1,287	1.0	31	0	0.0	0
(Days in Mo	onth) MCF	D BOPD	Total	19,015	25.0		11 200	0.0	
30 Day Avg	J 46	0.0	TOTAL	19,015	25.0		11,280	8.0	
60 Day Avg	38	0.0							
3 Mo Avg	36	0.0					Pri	nt Eorm	
6 Mo Avg	38	0.0							
12 Mo Avg							Exit Vo	lumes D	Data

Package Preparation Volume Data

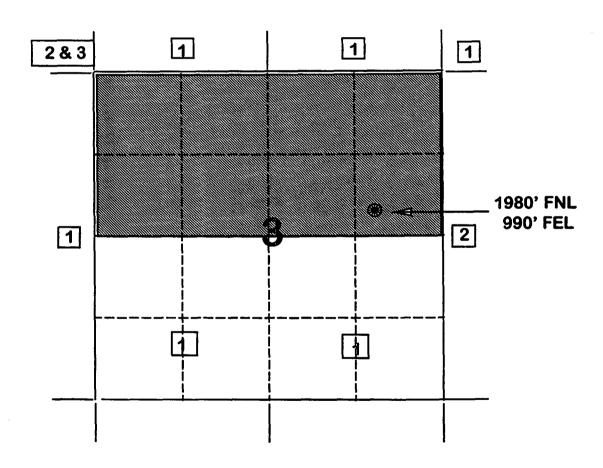
DPNo: 272	52 H	ARE ALLE		. 46			Fon	m: ÆMV	1	
Supt: 60	KEN RAYB	ON F	F : 338	JOHNNY ELL	IS	MS:	327 MIKE M	CKINNEY		
Pipeline:	WFS	Plunger:	No	D	ual: Yes		Compre	essor:	No	
<u>O</u> 1	wnership (No	Trust)		<u>Pr</u>	ior Year		Cur	Current Year		
	Gas	<u>Oil</u>			2024	<u>Days</u>			<u>Days</u>	
GWI:	25.0000%	25.0000%		MCF/M	BOPM	<u>On</u>	MCF/M	BOPM	<u>On</u>	
GNI:	21.0000%	21.0000%	Jan	488	59.0	31	15	9.0	31	
			Feb	779	26.0	29	714	16.0	28	
Volumes			Mar	240	6.0	31	728	6.0	31	
(Days On)	MCF		Apr	303	5.0	30	872	4.0	30	
7 Day Avg	48	0.7	May	1,206	29.0	31	1,150	5.0	31	
30 Day Avg	36	0.1	Jun	839	0.0	30	1,155	0.0	30	
60 Day Avg	g 35	0.3	Jul	766	34.0	31	1,264	15.0	25	
3 Mo Avg	41	0.2	Aug	635	7.0	25.1	1,232	3.0	31	
6 Mo Avg	29	0.2	Sept	790	13.0	30	1,440	0.0	30	
12 MoAvg			Oct	813	19.0	31	1,067	13.0	31	
			Nov	674	11.0	30	0	0.0	30	
Volumes			Dec	251	5.0	31	0	0.0	0	
(Days in M	onth) MCF	D BOPD								
30 Day Avg	36	0.1	Total	7,784	214.0		9,637	71.0		
60 Day Avg	35	0.3								
3 Mo Avg	40	0.2					Prii	nt Form		
6 Mo Avg	29	0.2								
12 Mo Avg							Exit Vo	lumes (Data ,	

BURLINGTON RESOURCES OIL AND GAS COMPANY

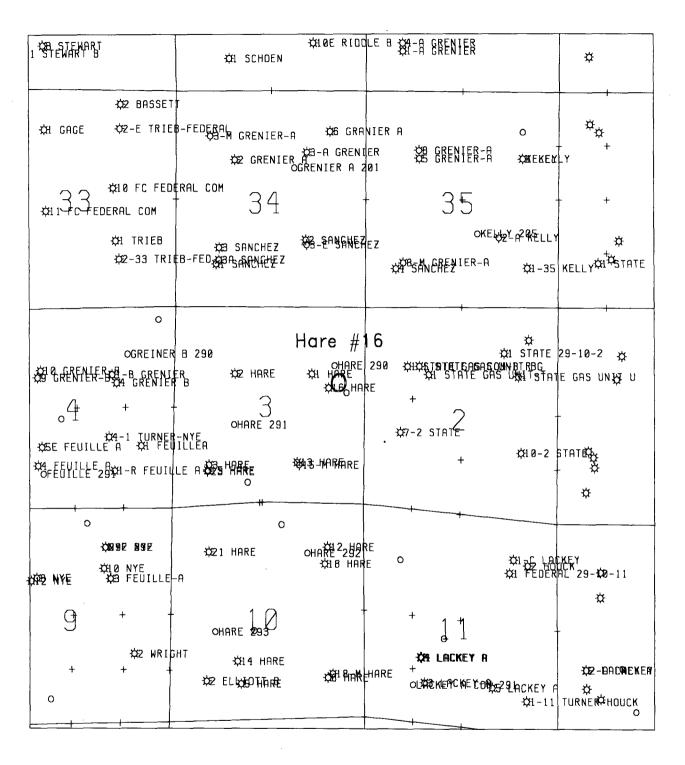
Hare #16

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
- 3) Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705-4500



Hare #16

H Sec 3, T29N, R10W

MV / DK