ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST THIS CHECKLIST 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] [1] TYPE OF APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication JUL 1 Julys ☐ NSL ☐ NSP ☐ SD Oil Conservation Division Check One Only for [B] or [C] Commingling - Storage - Measurement ☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR. [D]Other: Specify [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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE. **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by ap individual with managerial and/or supervisory capacity.

pcole & br-inc. com
e-hail Address

District I

1625 N. French Drive, Hobbs, NM 88240

District II 1301 W. Grand Avenue, Artesia, NM 88210

District III

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE _Single Well Establish Pre-Approved Pools
EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

Y Yes No

Form C-107A

Revised May 15, 2000

perator carilla 150	#7M O-11-2	dress 6N-5W	Rio Arriba
ase	Well No. Unit Letter-	-Section-Township-Range	County
GRID No. <u>14538</u> Property C	Code16344 API No	30-039-22058 Lease Type:	X Federal State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	OTERO CHACRA	BLANCO MESAVERDE	BASIN DAKOTA
Pool Code	82329	72319	71599
Top and Bottom of Pay Section Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	5809'-6171'	8034'-8086'
Method of Production Flowing or Artificial Lift)	NEW ZONE	ARTIFICIAL LIFT PLUNGER	ARTIFICIAL LIFT PLUNGER
Bottomhole Pressure Note: Pressure data will not be required if the bottom terforation in the lower zone is within 150% of the lepth of the top perforation in the upper zone)	Original 449 psi From Jicarilla 150 #12 offset (see attachment)	Original 912 psi Current 304 psi	Original 2625 psi Current 950 psi
Oil Gravity or Gas BTU Degree API or Gas BTU)	BTU 1240 From Jicarilla 150 #12 offset	BTU 1221	BTU 1221
Producing, Shut-In or New Zone	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	Date: N/A	Date: 5/31/03	Date: 5/31/03
stimates and supporting data.)	Rates: See Attachment	Rates: 109 Mcfd	Rates: 79 Mcfd
Fixed Allocation Percentage Note: If allocation is based upon something other han current or past production, supporting data or explanation will be required.)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
	ADDITIO	NAL DATA	
re all working, royalty and overriding	royalty interests identical in all co	ommingled zones?	Yes <u>X</u> No
re all produced fluids from all commi	ngled zones compatible with each	other?	Yes X No
ill commingling decrease the value of	f production?		Yes NoX
this well is on, or communitized with the United States Bureau of Land Ma			Yes <u>X</u> No
MOCD Reference Case No. applicable	e to this well:DHC-19	983	
ttachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Any additional statements, data or or	at least one year. (If not available y, estimated production rates and or formula.	, attach explanation.) supporting data.	
	PRE-APPRO	OVED POOLS	
If application is	to establish Pre-Approved Pools, t	the following additional information w	vill be required:
st of other orders approving downhol st of all operators within the proposed oof that all operators within the proposition	d Pre-Approved Pools	,	·
hereby certify that the information	above is true and complete to	the best of my knowledge and bel	ief.
IGNATURE J. bomoou	$\mathcal{U}()$	Benior Reservoir Engr.	-1.66.5

1463

All distances must be from the outer boundaries of : 20 Well Nc. :0101 SUPRON ENERGY CORPORATION "OME JICARILLA 7-# M Frange Sounty 26 NORTH RIO ARRIBA 5 WEST Actual Footage Location of Well: 1190 1650 EAST feet from the Ground Level Elev. Dedicated Acreage: Producing Formation **ME SAVERDE BLANCO** 7206 E 1/2320/160 Act BASIN Otero 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 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 consol dated by communitization, unitization, force-pooling. etc? Yes 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 Commis sion. CERTIFICATION I hereby certify that the information con tained herein is true and complete to th Kenneth E. Roddy Production Superintendent SUPRON ENERGY CORPORATION May 21, 1979 11 anfon this plat was plats DAKOTA 1650 Date Surveyed 6 April 1979 Certificate No.

1000

500

1650

Jicarilla 150 #7M Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 1/14/98

Chacra	Mesaverde
<u>CH-Current</u>	MV-Current
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) #DIV/0!	GAS GRAVITY COND. OR MISC. (C/M) %N2
<u>CH-Original</u>	MV-Original
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 0.00865 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 448.5	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.26 %CO2 0.911 %H2S 0 DIAMETER (IN) 5.5 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 911.8

Jicarilla 150 7M BHP.xls 7/11/2003 10:07 AM

Jicarilla 150 #7M Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 1/14/98

Dakota	
<u>DK-Current</u>	<u>DK-Current</u>
GAS GRAVITY 0.709 COND. OR MISC. (C/M) C %N2 0.00445 %CO2 0.01006 %H2S 0 DIAMETER (IN) 2.0625 DEPTH (FT) 8060 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 173.6 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 767 BOTTOMHOLE PRESSURE (PSIA) 949.7	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) #DIV/0!
<u>DK-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.6689 COND. OR MISC. (C/M) C %N2 0.194 %CO2 0.675 %H2S 0 DIAMETER (IN) 2.0625 DEPTH (FT) 8060 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 173.6 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 2101 BOTTOMHOLE PRESSURE (PSIA) 2624.7	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.00 %CO2 0 MH2S 0 DIAMETER (IN) 0 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) #DIV/0!

Jicarilla 150 7M BHP.xls 7/11/2003 10:08 AM

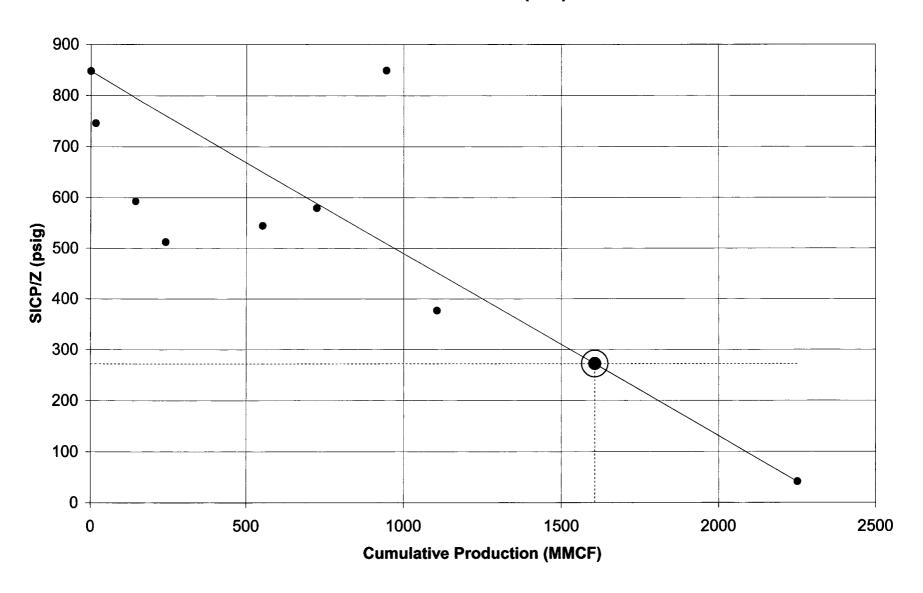
Jicarilla 150 #7M - SICP/Z Data

	SICP	Chromatograph		SICP/Z	Cum Qg		Y
<u>Date</u>	(psig)	<u>Used</u>	Z-Factor	(psig)	(MMCF)	<u>Slope</u>	<u>Intercer</u>
7/14/1980	780	10/1/2002	0.9203	848	0	N/A	848
11/17/1980	693	10/1/2002	0.9294	746	15.858	-6.426243	848
9/25/1981	558	10/1/2002	0.9422	592	146.058	-1.748064	848
5/2/1982	486	10/1/2002	0.9492	512	242.301	-1.384805	848
4/23/1986	515	10/1/2002	0.9464	544	552.612	-0.548997	848
11/20/1989	546	10/1/2002	0.9434	579	723.789	-0.371368	848
4/29/1993	782	10/1/2002	0.9213	849	945.31	0.001323	848
6/27/1995	362	10/1/2002	0.9617	376	1104.98	-0.426372	848
???	41	N/A	1	41	2250.965	-0.358313	848
					÷	+	\
5/31/2003	???	10/1/2002	???	272	1605.79	-0.358313	848
		Z-Factor = SICP (psig) =	- 1				

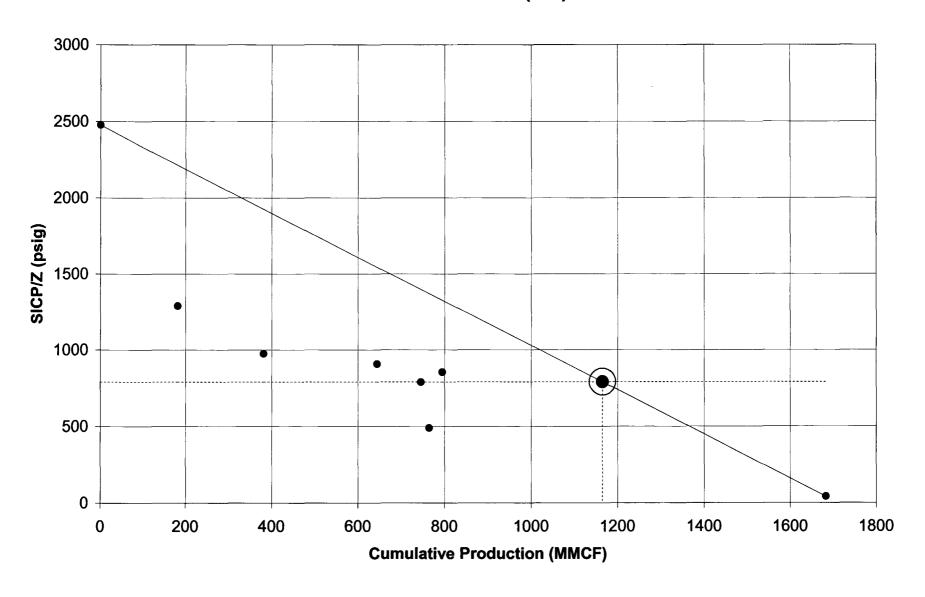
	Dakota SICP	Chromatograph		SICP/Z	Cum Qg		Y
<u>Date</u>	<u>(psig)</u>	<u>Used</u>	Z-Factor	(psig)	(MMCF)	<u>Slope</u>	Intercer
7/14/1980	2101	10/1/2002	0.8484	2476	0	N/A	2476
9/25/1981	1148	10/1/2002	0.8914	1288	182.315	-6.51929	2476
7/25/1983	889	10/1/2002	0.912	975	381.477	-3.936399	2476
1/13/1988	832	10/1/2002	0.9169	907	644.356	-2.435022	2476
10/3/1990	731	10/2/2002	0.9259	790	745.363	-2.263225	2476
5/29/1991	466	10/3/2002	0.9512	490	764.227	-2.599383	2476
4/29/1992	786	10/4/2002	0.9209	854	794.393	-2.04296	2476
???	41	N/A	1	41	1682.164	-1.447793 _	2476
5/31/2003	???	10/1/2002	777	790	1164.64	-1.447793	▼ 2476
		Z-Factor = SICP (psig) =					

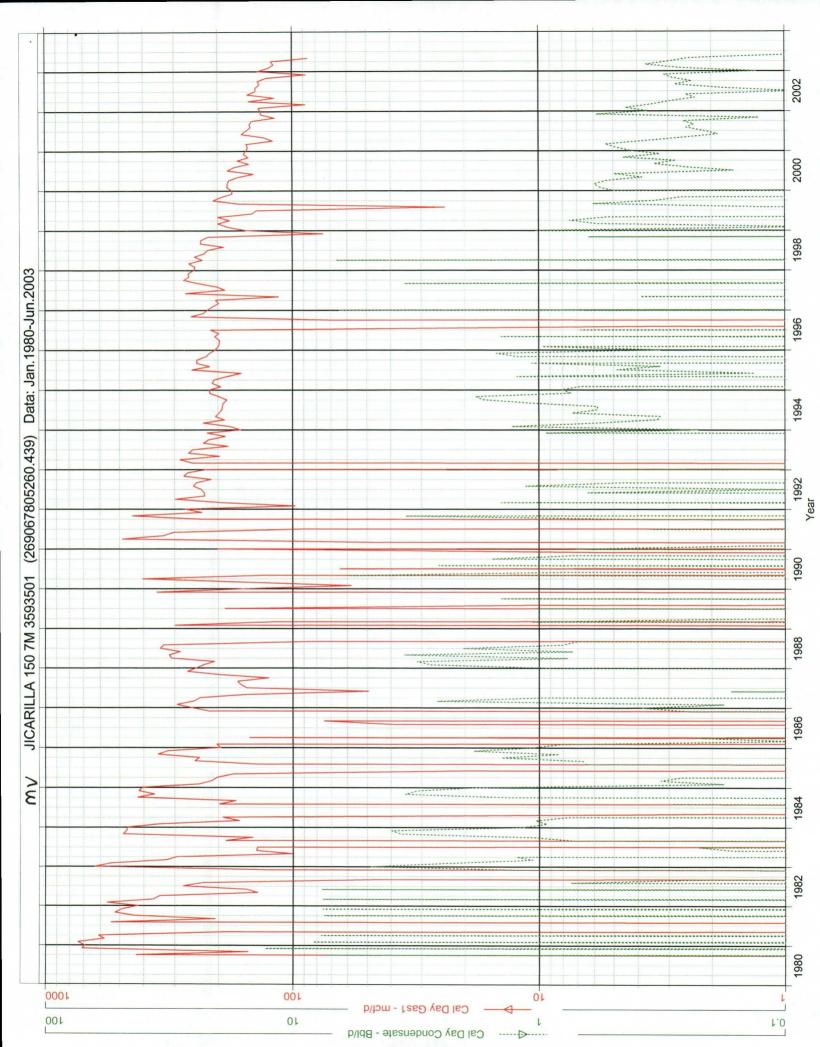
NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

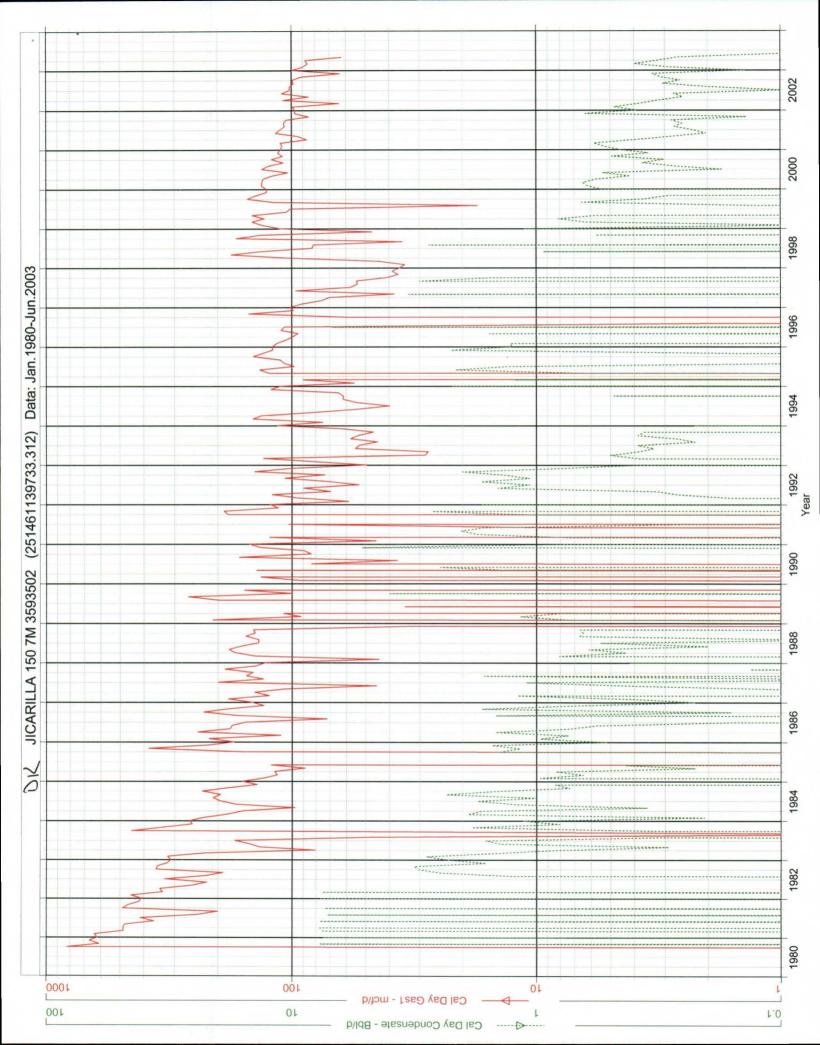
Jicarilla 150 #7M (MV)



Jicarilla 150 #7M (DK)









TO: New Mexico Oil Conservation Division

FROM: Lewis Implementation Team, Burlington Resources

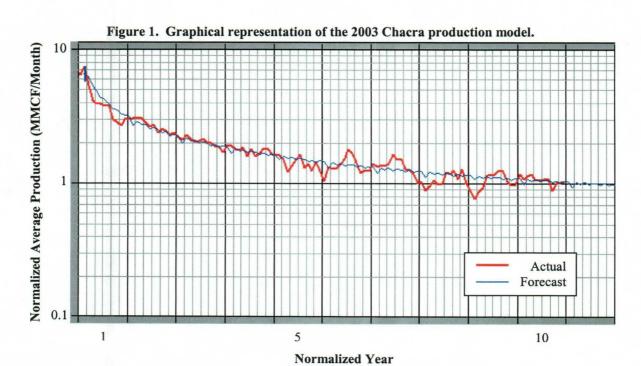
DATE: December 2, 2002

RE: 2003 Chacra Recompletion Program Expected Production

Chacra-only production from 73 wells completed after 1970 was normalized and forecasted to result in the production model presented in Table 1. A graphical representation of this normalized production forecast is shown in the attached Figure 1. These wells are located in or near the Chacra Fairway in T-27-N, R-08-W; T-27-N, R-09-W; T-28-N, R-09-W; T-28-N, R-09-W; T-28-N, R-10-W; T-29-N, R-11-W. Actual results from the individual payadds will certainly vary, but this production model represents the average results that should be achieved. Further delineation in the area will be made in 2003.

Table 1: 2003 Chacra production model.

Tubic IV 2000 Chiner in produc	
Decline Type	Hyp to Exp
Initial Incremental Rate (MCF/D)	260
Initial Decline (%/yr, effective)	62
Final Decline (%/yr, effective)	1.6
Final Incremental Rate (MCF/D)	15
Hyperbolic Exponent, n	2.0
EUR (MMCF)	496



Jicarilla 150 #8 Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method

Version 1.0 1/14/98

Chacra	Mesaverde
<u>CH-Current</u>	MV-Current
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) #DIV/0!	GAS GRAVITY 0.703 COND. OR MISC. (C/M) C %N2 0.00 %CO2 0.01115 %H2S 0 DIAMETER (IN) 5.5 DEPTH (FT) 5104 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 146.3 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 326 BOTTOMHOLE PRESSURE (PSIA) 370.1
<u>CH-Original</u>	MV-Original
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 448.5	GAS GRAVITY 0.6619 COND. OR MISC. (C/M) C %N2 0.31 %CO2 0.98 %H2S 0 DIAMETER (IN) 5.5 DEPTH (FT) 5104 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 146.3 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 1023 BOTTOMHOLE PRESSURE (PSIA) 1167.5

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