DATE IN 1/14/00	SUSPENSE 2/3/00 ENGINEER	DC	LOGGED M	TIME DHC	
		E THIS LINE FOR DIVISION USI	E ONLY	(0	

- 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] [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 JAN 1 4 2000
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] X 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 Rule Regulations of the Oil Conservation Division. Further, I assert that the attached application for administr

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. (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: Statemen must be completed by an ind	ividual with supervisory capacity.	
Peggy Cole	Degan (Alo	Regulatory/Compliance Administrator	
Print or Type Name	Signature	Title	Date

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

Operator

BURLINGTON RESOURCES OIL & GAS COMPANY

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Address

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

PO BOX 4289, FARMINGTON, NM 87499

Form C-107-A Revised August 1999 **APPROVAL PROCESS:**

__ Administrative ___Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

_X__YES ___NO

SAN JUAN 27-5 UNIT		27N-05W - Sec - Twp - Rge	RIO ARRIBA	
OGRID NO14538 Property C		\$pa	acing Unit Lease Types: (check 1 or more)	
The following facts are submitted in support of downhole commingling: 1. Pool Name and	Upper land language l		Lower Zone BLANCO MESAVERDE – 72319	
2. Top and Bottom of Pay Section (Perforations)	85920 3490'-3566'		5642'-5796'	
3. Type of production (Oil or Gas)	GAS		GAS	
Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current	a. (Current) 519 psi (see attachment)		a. (Current) 529 psi (see attachment)	
All Gas Zones: Estimated Or Measured Original	b. ^(Oriiginal) 1130 psi (see attachment)		b. ^(Oriiginal) 1345 psi (see attachment)	
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1223		BTU 1232	
7. Producing or Shut-In?	Producing		Producing	
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/ water rates of last production	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:	
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give date andoil/gas/water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:	
Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: Gas: % WILL BE SUPPLIED UPON COMPLETION	
9. If allocation formula is based usubmit attachments with supp 10. Are all working, overriding, and If not, have all working, overriding.				
11. Will cross-flow occur?X_Y flowed production be recovered	Yes No If yes, are fluids one of the second of the sec	compatible, will the formations rula be reliableX_Yes N	not be damaged, will any cross- o (If No, attach explanation)	
12. Are all produced fluids from all				
 13. Will the value of production be decreased by commingling? YesX 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 applicationX Yes No 				
United States Bureau of Land Management has been notified in writing of this applicationX_Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10694				
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 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 Add Address	TITLE	PRODUCTION ENGINEER	DATE: 1/12/00	
TYPE OR PRINT NAME SCOTT DOBSON TELEPHONE NO. 505-326-9700				

San Juan 27-5 Unit #32

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

Mesaverde		
MV-Current		
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.17 %CO2 0.8 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 529.1		
MV-Original		
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.17 %CO2 0.8 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1345.3		

Page No.: 1

Print Time: Thu Dec 30 14:41:05 1999
Property ID: 1433
Property Name: SAN JUAN 27-5 UNIT | 32 | 53363A
Table Name: R:\RESERVES\GDPNOS\TEST.DBF

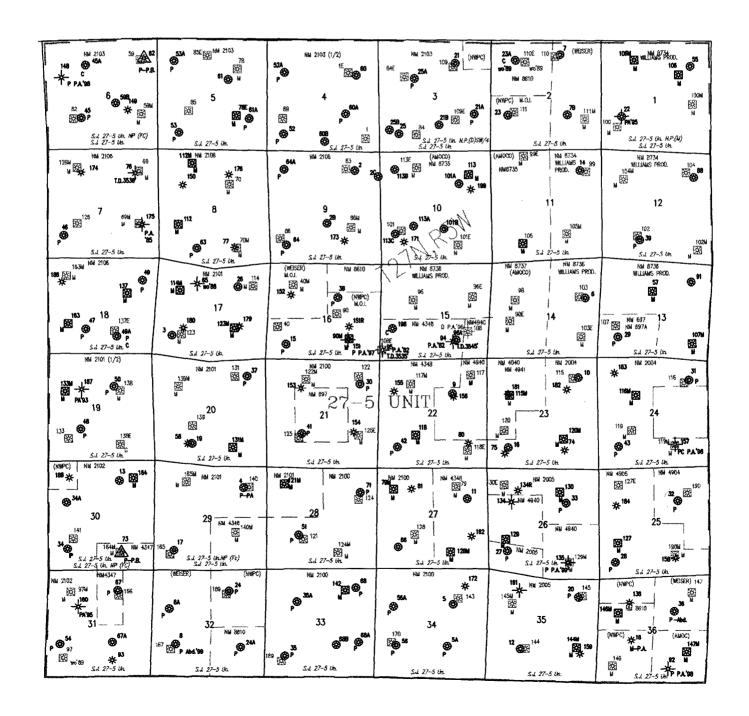
	CUM_GAS		
	Mcf	Psi	
08/27/58	0	1023.0	Con Juan 27 E Unit #22
10/21/58	0	1023.0	<u>San Juan 27-5 Unit #32</u>
09/22/59	47000	703.0	Existing Pictured Cliffs
05/22/33	74000		Existing Fictured Clins
05/28/61	107000		
08/06/62	136000	671.0	
06/14/63			
05/07/64			
05/10/65	187000	688.0	
09/02/66			
08/04/67			
05/02/68	243000		
07/14/69			
11/23/70	286845		
04/08/71			
08/09/72	322647	482.0	
05/16/73			
07/15/74		485.0	
08/02/78	401399	514.0	
04/30/82	449412		
06/20/84			
11/04/86	470912	560.0	
09/08/89			
09/12/91	505431	522.0	
05/03/93	520279	474.0	

Page No.: 2

Print Time: Thu Dec 30 14:41:06 1999
Property ID: 1434
Property Name: SAN JUAN 27-5 UNIT | 32 | 53363B
Table Name: R:\RESERVES\GDPNOS\TEST.DBF

DATE	CUM_GAS		
08/27/58	0	1152.0	San Juan 27-5 Unit #32
10/07/58	0	1151.0	
09/22/59	62000	722.0	Existing Mesaverde
05/29/60	92000	690.0	
05/28/61	129000	642.0	
08/06/62	161000	610.0	
04/19/63	177000	617.0	
10/22/64	211000	614.0	
05/10/65	220000	612.0	
04/19/66	229000	562.0	
05/16/67	255000	573.0	
05/02/68	265000	544.0	
08/28/70	302295	522.0	
04/08/71	316528	451.0	
08/09/72	339128	449.0	
12/06/83	481602	409.0	
11/04/86	509169	466.0	
09/08/89	541302	559.0	
08/20/91	549244		
05/03/93	567287	460.0	

San Juan 27-5 Unit #32 Pictured Cliffs / Mesaverde 27N – 5W – 25G



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11626 ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES
OIL & GAS COMPANY FOR THE ESTABLISHMENT
OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" FOR ITS SAN JUAN 27-5 UNIT PURSUANT
TO DIVISION RULE 303.E AND THE ADOPTION
OF SPECIAL ADMINISTRATIVE RULES THEREFOR.
SAN JUAN COUNTY, NEW MEXICO.

PIO ARRIBA

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November, 1996, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises.

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant. Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E. seeks to establish a downtole comminging "reference case" to provide exceptions for (a) marginal economic criteria. (b) pressure criteria. (c) allocation formulas and (d) modification of notification rules on a unit-wide casis for downtole commingling of Dakora. Mesaverde. Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit, San Juan County, New Mexico.
- (3) Division Rule No. 303.E., amended by Order No. R-10470-A. currently states:

"If surficient data exists on a lease, pool, formation, geographic area, em., so as to remer it unnecessary to repeatedly provide such data on Form C-107-A, an operator may except any of the various criteria required under Paragraph 303.D, of this rule by establishing a "reference case". The Division, upon its own motion, or by application from an operator, may establish "reference cases" either administratively or by hearing. Upon Division approval of such "reference cases" for specific criteria, subsequent applications to downhole commingie (Form C-107-A) will be required only to cite the Division order number which established such exceptions and shall not be required to submit data for those criteria."

- (4) The applicant is the current operator of the San Juan 27-5 Unit which encompasses some 23.043 acres in Township 27 North. Range 5 West. NMPM. San Juan County, New Mexico.
- (5) Within the San Juan 27-5 Unit, the applicant currently operates one hundred and one (101) Basin-Dakota Gas Pool wells, one hundred and five (105) Blanco-Messverde Gas Pool wells, eighty-seven (87) South Blanco-Pictured Cliffs and Tapacito-Pictured Cliffs Gas Pool wells, and four (4) Basin-Fruitiand Coal Gas Pool wells.
 - (6) According to its evidence and testimony, Burlington seeks to:
 - establish a "reference case" for marginal economic criteria in the Dakota and Pictured Cliffs formations whereby these formations and/or pools may be identified as "marginal" on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit. The applicant further proposes that the data provided in the immediate case serve as supplemental data or confirmation that these formations and/or pools should be classified as "marginal":
 - b) establish a "reference case" for pressure criteria in the Dakota and Pictured Cliffs formations whereby the Division may utilize data provided in the immediate case to verify the pressure data provided on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit:

- establish a "reference case" whereby the Division unitizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Units and
- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingting of existing or future drilled wells within the San Juan 27-5 Unit without additional nonce to each affected interest owner as required by Division Rule No. 303.D.
- (7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 27-5 Units
 - a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent:
 - b) the average recoverable Dakota and Picmred Cliffs gas reserves underlying an undeveloped drill block are approximately 583 MMCFG and 426 MMCFG, respectively;
 - c) the average initial producing rate for a newly drilled or recompleted.

 Dakota and Pictured Cliffs gas well is approximately 393 MCFGD and 63 MCFGD, respectively; and.
 - d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.
 - (8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit should be properly classified as "marginal".
 - (9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

- a) the average single-in bottominole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3.141 psi and 1.118 psi, respectively; and.
- b) the average current shut-in bonominole pressure within the Dakotz and Pictured Cliffs formations are approximately 1.032 ps; and 441 psi, respectively.
- (10) There is sufficient pressure data available within the San Juan 27-5 Unit so as to except pressure criteria as proposed by the applicant.
- (11) The applicant testified that various allocation methods will be unitized for downtole comminged wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:
 - a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitiand Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone:
 - b) a fixed allocation formula will be unliked in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.
 - (12) The ailocation methods proposed by the applicant are routinely united by industry and approved by the Division and therefore the proposal to except allocation formulas should be approved.
 - (13) Le support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 27-5 Unit the applicant presented evidence and testimony which indicates that:
 - a) the interest ownership between two zones within a given weilbore in the San Juan 27-5 Unit is generally not common:
 - b) pursuant to Division Rule No. 303.D. applicant is currently required to notify all interest owners within the San Juan 27-5 Unit every time a Form C-107-A is submitted to the Division. There is a considerable number of such interest owners within the unit:

- c) providing notice to each interest owner within the San Juan 27-5
 Unit of subsequent downnote communitings is unnecessary and is
 an excessive burden on the applicant:
- d) the downhole commingting of wells within the San Juan 27-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingting of wells within the San Juan 27-5 Unit should not violate the correlative rights of any interest owner:
- e) no interest owner appeared at the hearing in opposition to the enablishment of a "reference case" or administrative procedure for notice.
- (14) An administrative procedure should be established within the San Juan 27-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions commined within Division Rule No. 303.C. are compiled with.
- (15) Approval of the proposed "reference cases" for marginal economic criteria, pressure criteria, allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C-107-A, will provide the applicant a streamlined method for obtaining downtools comminging approvals within the San Juan 27-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria. (b) pressure criteria. (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhold comminging of Dakota. Mesavertie. Fruitiand Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit. San Juan County New Mexico. is hereby approved.

- (2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Plentret Cliffs and Dakota formations as "marginal", supporting data to verify the Plentret Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.
- (3) In order to obtain Division authorization to downhole community wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Feand Azer Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all Interest owners within the San Juan 27-5 Unit of such proposed commingling.
- (4) Jurisdiction of this cause is retained for the entry of such further orders as: the Division may deem necessary.

DONE at Same Fe. New Mexico. on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J/ LeMAY

Director ,

30	c+	i	111	1

w MEXICO OIL CONSERVATION CON

Will Location and Acreage Dedication Plat JULY 24, 1958

111/	i .	
Operator EL PASO NATURAL GAS COMPANY	Lease SAN JUAN 27-5 UNIT	SF 079492
Well No. 32(PM) Unit Letter G. Section 25		
Located 1550 Feet From NORTH Line,	1550 Feet From EA	_
County RIO ARRIBA G. L. Elevation 666	· · · · · · · · · · · · · · · · · · ·	
Name of Producing Formation MESA VERDE & PICTURED	CLIFF PoolBLANCO MV, TAPAC	ITO PC EXT.
1. Is the Operator the only owner in the dedicated acreage Yes No. 1.	outlined on the plat below?	
2. If the answer to question one is "no", have the inte-	rests of all the owners been consolidat	ed by communitization
agreement or otherwise? Yes X No		
Unit Operating Agreement		
3. If the answer to question two is "no", last all the own		
Owner	Land Description	
		AN CHRVEY
	n de la companya de La companya de la co	· · · · · · · · · · · · · · · · · · ·

Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

R1 Paso Natural Gas Company

(Operator)

Original Signed D. C. Johnston

Box 997

(Address)

Farmington, New Mexico

Note: All distances must be, SF 079492 SF_079493 1320 1650 1980 2310 2640

Scale 4 inches equal 1 mile

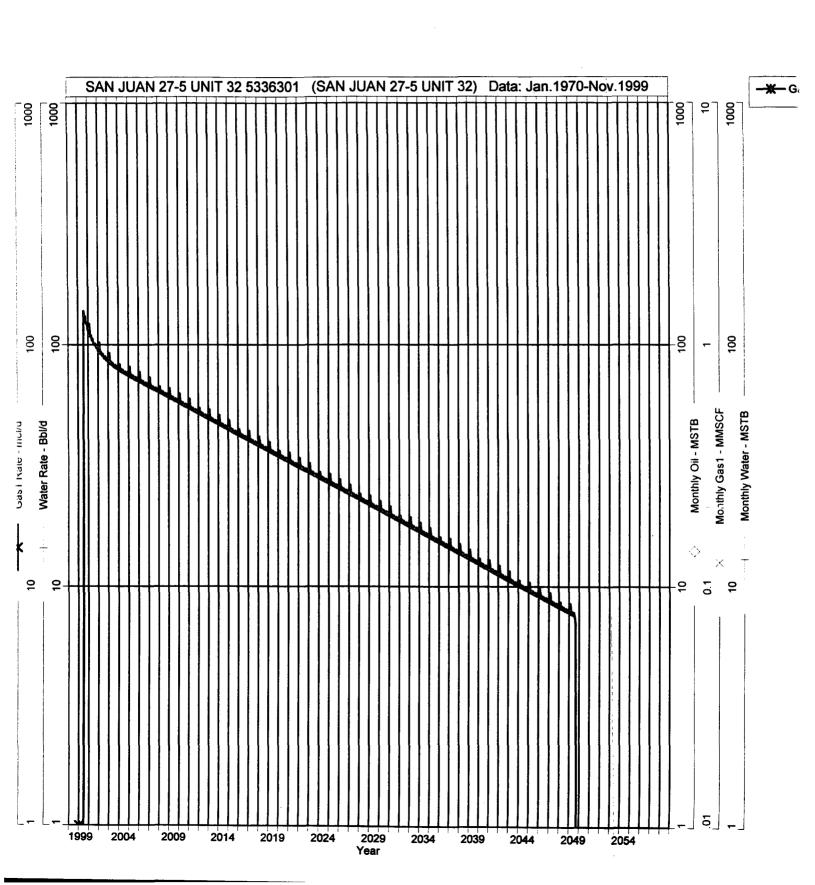
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

(Seal)

Farmington, New Mexico

Registered Professional Engineer and/or Land Surveyor

San Juan 27-5 Unit #32
Expected Production
Pictured Cliffs Formation



San Juan 27-5 Unit #32
Expected Production
Mesaverde Formation

