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Name of Operator    Profession   San Juan 28-5 Unit   San Juan 28-5 Unit			1 7 1 7	•	
Type of Well GAS  Type of Well GAS  Tribe Name  7. Unit Agreement Na  RESOURCES  OIL & GAS COMPANY  OIL & GAS COMPANY  Address & Phone No. of Operator FO Box 4289, Farmington, NM 87499 (505) 326-9700  PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M  Location of Well, Footage, Sec.		Sundry Notice	es and Reports on Wel	2001	APR 27 PH 2: 54
Type of Well GAS  OIL & GAS COMPANY  Address & Phone No. of Operator  PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X. Notice of Intent Subsequent Report Pinal Abandonment Altering Casing Altering Casing Altering Casing Sec. Type of Submission Tis intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #248, Also the well will be completed in the Dakota as well as the Mesaverde, Attached is a new C-102 plat, an Operations Plan and Bo diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct.  Title Regulatory Supervisor Date 4/19/01  Title Date  Po Date  Date  Mina Agreement Na  Real Juan 28-5 Unit All Name 28-5 Unit #71N from the San Juan 28-5 Unit #71N from the San Jua					Lease Number
Tribe Name  GAS  7. Unit Agreement Na  RESOURCES  OIL & GAS COMPANY  Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Weil, Footage, Sec., T, R, M 270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Subsequent Report Plugging Back Casing Repair Altering Casing Conversion to Injection Tis intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Messaverde. Attached is a new C-102 plat, an Operations Plan and Bodiagram. After completion will be submitted.  4. I hereby certify that the foregoing is true and correct.  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  Title Date  Title Date  7 Dat					
Name of Operator  RESOURCES  OIL & GAS COMPANY  Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMFM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission X Notice of Intent Subsequent Report Plugging Back Casing Repair Casing Repair Altering Casing Conversion to Injection X Other -  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #248. Also the well will be completed in the Describe Research Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingle application will be submitted.  Altering Casing Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  Altering Casing This space for Federal or State Office use)  Date 4/19/01  This space for Federal or State Office use) Title Date  Date  7 Unit Agreement Na Well Name & Numbes an Juan 28-5 Unit and Juan 28-5 Unit and Juan 28-5 Unit #248. Also the well will be down hole commingled. A down hole commingle application will be submitted.	Type of Well			6.	•
Name of Operator  RESOURCES  OIL & GAS COMPANY  Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Subsequent Report Plugging Back Pinal Abandonment Altering Casing Casing Repair Altering Casing Conversion to Injection  Ti is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #248 Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion will be submitted.  Altering Casing Conversion to Injection of Action  Altering Casing and Conversion to Injection Drill, Deepen or Plug Back to the San Juan 28-5 Unit #218 from the San Juan 28-5 Unit #218 from the San Juan 28-5 Unit #218 from the San Action After completion the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  Altering Casing Conversion Date 4/19/01  Back Conversion to Injection  MAY 2001  Back Conversion to Injection  MAY 2001  Back Conversion to Injection  MAY 2001  Back Conversion to Injection  Title Regulatory Supervisor  Date 4/19/01  Date 4/19/01  Date 4/19/01					Tribe Name
Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Recompletion Subsequent Report Plugging Back Casing Repair Altering Casing Conversion to Injection X Other  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct. Into This space for Federal or State Office use) PROVED BY Title Date  Plage Advanced  Title Regulatory Supervisor  Date 4/19/01  Date  ##36/9/				7.	Unit Agreement Na
Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec. T, R, M  Location of Well, Footage, Sec. T, R, M  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission X Notice of Intent Subsequent Report Plugging Back Casing Repair Altering Casing Conversion to Injection X Other  Check Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #248. Also the well will be completed in the Dakota as well as the Messaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion will be submitted.  4. I heraby certify that the foregoing is true and correct.  In Proposed of Federal or State Office use) This space for Federal or State Office use) Title  Date  ### Date    Date   Part   Part   Part	Name of Operator		·		
Address & Phone No. of Operator FO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Altering Casing Conversion to Injection X Other  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct.  In the result of Federal or State Office use) This space for Federal or State Office use) Title Deproyer BY Title Date  ## ### Well Name & Nan Juan 28-5 Unit #210 Application for Permit to Date ## ### ### ### ### #### #### #### ##	BURLING				
Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T. R. M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Subsequent Report Plugging Back Casing Repair Altering Casing Final Abandonment X Other  Casing Repair Altering Casing Conversion to Injection  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #24B. Also the well will be completed in the Datota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and Bodiagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct.  Indicate the complete of the plan and correct.  Title Regulatory Supervisor Title Proposed or Federal or State Office use) PROVED BY Title Date  API Wall No. 30-039-26308  10. Field and Pool Field a	RESOURC	JES OIL &	GAS COMPANY	0	
Address 4289, Farmington, NM 87499 (505) 326-9700  PO Box 4289, Farmington, NM 87499 (505) 326-9700  Location of Well, Footage, Sec., T, R, M  2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent  Abandonment  X Notice of Intent  Subsequent Report  Plugging Back Casing Repair  Altering Casing Repair  Altering Casing Conversion to Injection  X Other  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. Thereby certify that the foregoing is true and correct.  Interval 1				. 8.	
Location of Well, Footage, Sec., T, R, M 2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent Subsequent Report Final Abandonment X Change of Plans Recompletion Recompletion Final Abandonment X Change of Plans Recompletion Recompletion Final Abandonment X Change of Plans Recompletion Recompletion Tother  Casing Repair Water Shut off Altering Casing Conversion to Injection  Tother  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  MAY 2001  Title Regulatory Supervisor Date 4/19/01  Title Regulatory Supervisor Date 4/19/01  Date  Title Date  Date  10. Field and Pool Blanco MV/Basin II 10. Country and State Rio Arriba Co, Ne Rio Arriba Co, Ne Rico Arriba Co, Ne Recompletion Recompletion Non-Routine Fracturing New Construction New Const	Address & Phone	No. of Operator	r 27400 (505) 326-9700	9.	
Location of Well, Footage, Sec., T, R, M  270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA  Type of Submission  X Notice of Intent  Subsequent Report  Plugging Back  Casing Repair  Altering Casing  Conversion to Injection  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #71N from the Data as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct.  Inc.  Title Regulatory Supervisor  Date 4/19/01  Title  Date 4/20/01	PO Box 4289, Fa	irmington, NM 8	31433 (JUJ) JZU-31UU	٠.	
2270'FNL, 2530'FEL, Sec.34, T-28-N, R-5-W, NMPM  11. County and State Rio Arriba Co, NM  CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA Type of Submission  X Notice of Intent	Location of Well	. Footage. Sec	., T, R, M	10	. Field and Pool
CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA  Type of Submission  X. Notice of Intent Subsequent Report Subsequent Report Subsequent Report Subsequent Report Subsequent Sub	2270'FNL. 2530'F	FEL, Sec.34, T-	28-N, R-5-W, NMPM		Blanco MV/Basin D
Type of Submission  X Notice of Intent  X Change of Plans  New Construction  Non-Routine Fracturing  Casing Repair  Water Shut off  Conversion to Injection  X Other -  X Other	22/0 11.2, 2000 .	•		11	
Type of Submission  X Notice of Intent  Abandonment  X Change of Plans  Recompletion  Non-Routine Fracturing  Casing Repair  Final Abandonment  X Other -  Casing Repair  Final Abandonment  X Other -  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to  Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San  Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well  as the Messaverde. Attached is a new C-102 plat, an Operations Plan and BO  diagram. After completion the well will be down hole commingled. A down  hole commingle application will be submitted.  4. Thereby certify that the foregoing is true and correct.  igned  Title Regulatory Supervisor  Date 4/19/01  This space for Federal or State Office use)  PRENOVED BY  Title  Date  Date  Title  Date  Date  Plans  Non-Routine Fracturing  Non-Routine Fracturing  Non-Routine Fracturing  Non-Routine Fracturing  New Construction  Non-Routine Fracturing  Non-Routine Fracturing  Non-Routine Fracturing  Water Shut off  Water Shut off  Example 1  Altering Casing  Conversion to Injection  The Dakota as well will be completed in the Dakota as well will be down hole commingled. A down  Advanced Application will be down hole commingled. A down  Title Regulatory Supervisor  Date 4/19/01					Rio Arriba Co, N
Type of Submission  X Notice of Intent Abandonment X Change of Plans Recompletion Subsequent Report Plugging Back Casing Repair Final Abandonment X Other -  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and Bo diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  4. I hereby certify that the foregoing is true and correct.  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use) PURPOWER BY Title Date  Abandonment X Change of Plans New Construction N	CHECK ADDOODDT	ATE BOY TO TAID TO	CATE NATURE OF NOTICE	, REPORT, OTHE	R DATA
X_ Notice of Intent	. CHECK APPROPRIA	IVD TIP DOV IO IUDI	Type of A	ction	
Recompletion Non-Routine Fracturing Casing Repair Water Shut off  Final Abandonment Altering Casing Conversion to Injection  Non-Routine Fracturing Water Shut off  Altering Casing Conversion to Injection  Non-Routine Fracturing Water Shut off  Conversion to Injection  To Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  MAY 2001  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PROVED BY  Title Date 4/20/01		of Intent	<del>-</del> -	X Change of E	Plans
Subsequent Report  Final Abandonment  Casing Repair  Altering Casing  Conversion to Injection  Non-Routine Fracturing Water Shut off Conversion to Injection  To the secribe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  MAY 2001  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PROVED BY  Title  Date  V/20/0/	/ $ X$ Notice (	or incenc		New Constru	iction
Casing Repair  Water Shut off Conversion to Injection    Rescribe Proposed or Completed Operations	Subseque	ent Report	Plugging Back	Non-Routine	Fracturing
This space for Federal or State Office use)  Describe Proposed or Completed Operations  It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  HAY 2001  This space for Federal or State Office use)  PREVIOUS DATE OF The Regulatory Supervisor Date 4/19/01  Date 4/30/0/			Casing Repair	Water Shut	off
It is intended to change the well name on the approved Application for Permit to Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N from the San Juan 28-5 Unit #218. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  This space for Federal or State Office use)  PROVED BY  Title  Date  #### Date  ###################################	Final A	bandonment		Conversion	to injection
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Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N Tible Che 3 as well Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and Bodiagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  Figure 1			red obergerous		
Drill, Deepen or Plug Back to the San Juan 28-5 Unit #71N Tible Che 3 as well Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and Bodiagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  Figure 1					
Juan 28-5 Unit #24B. Also the well will be completed in the Dakota as well as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and BO diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  MAY 2001  CM. COMPV  Extraction  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PPROVED BY  Title Date 4/20/01	Tt is intend	ed to change th	e well name on the a	pproved Applica	ation for Permit to
as the Mesaverde. Attached is a new C-102 plat, an Operations Plan and Bodiagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  COL.COM DV  LEVILLE  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  POPROVED BY  Title  Date 4/30/01	Desili	Doenen or Pli	id Back to the San Ji	ian 28-5 Unit #	/IN LION the San
diagram. After completion the well will be down hole commingled. A down hole commingle application will be submitted.  MAY 2001  MAY 2001  Commingle application will be submitted.  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PPROVED BY Title Date 4/30/01	Drill	l, Deepen or Plu 28-5 Unit #24B	ag Back to the San Ju Also the well will	an 28-5 Unit # be completed i	n the Dakota as well
hole commingle application will be submitted.  MAY 2001  MAY 2001  Color by  Example 1  Title Regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PPROVED BY Title Date 4/30/01	Drill Juan	l, Deepen or Plu 28-5 Unit #24B	ug Back to the San Ju . Also the well will ttached is a new C-10	an 28-5 Unit # be completed i )2 plat, an Ope	n the Dakota as wel rations Plan and BO
4. I hereby certify that the foregoing is true and correct.  igned fine the first regulatory Supervisor Date 4/19/01  This space for Federal or State Office use)  PPROVED BY Title Date 4/30/01	Drill Juan as th	l, Deepen or Plu 28-5 Unit #24B ne Mesaverde. At ram. After comp	ag Back to the San Ju . Also the well will ttached is a new C-10 letion the well will	be completed in the completed in the complete	n the Dakota as wel rations Plan and BO
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District II PO Drawer DD, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe, NM 87504-2088

2001 198 777 ANE ADED REPORT

District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	*Pool Code	³Pool Name	
30-039-26308 *Property Code		Blanco Mesaverde/ Basin Dakota operty Name AN 28-5 UNIT	Well Number 71N
7460 'OGRID No. 14538	* Op	perator Name ES OIL & GAS COMPANY, LP	*Elevation 6709

				1	<sup>10</sup> Surfac	e l	_ocation			
G. or lot no.	Section 34	Township 28N	Range 5W	Lot Idn	Feet from th	ne	North/South line	Feet from the 2530	East/West line EAST	RIO ARRIBA
		11 E	Bottom				Different	From Surf	ace	County
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	ne	North/South line	Feet from the	Cost/mest line	
W Dedicated Acres MV-N/32 DK - 32		<u> </u>		<sup>29</sup> Joint or Ir	l	34 Cc	nsolidation Code	5 Order No.	948	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Reissued to show addition of Dakota and well name change

" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <u>Peggy Cole</u> Printed Name Regulatory Supervisor Date \*SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plain 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 belief. REVISED: APRIL 3, 2001 OCTOBER 7, 1999 Date of PROPERSO

6857

Centificate

5280.00 5280.00 H 8 8 00 2640 **LEV \*** AT: 36 '37.1N 2530 110,1 LONG: 107 20.8 W 35 8 1320 Z.E. LOT 3 LOT 2 LOT LOT LOT LOT LOT LOT 2 5280.00 5280.00

### OPERATIONS PLAN

Well Name: San Juan 27-5 Unit #71N

2270'FNL, 2530'FEL, Sec 34, T-28-N, R-5-W Location:

Rio Arriba County, NM Latitude 36° 37.1, Longitude 107° 20.8

Formation: Blanco Mesaverde/Basin Dakota

6709' GL Elevation:

Formation Tops:	Top	Bottom	<b>Contents</b>
Surface	San Jose	2887'	
Oio Alamo	2887 <b>'</b>	3079 <b>'</b>	aquifer
Kirtland	3079 <b>'</b>	3179 <b>′</b>	gas
Fruitland	3179'	3562'	gas
Pictured Cliffs	3562'	3651'	gas
Lewis	3651'	4183'	gas
Intermediate TD	3751'		
Mesa Verde	4183 <b>'</b>	4514'	gas
Chacra	4514 <b>'</b>	52 <b>41'</b>	gas
Massive Cliff House	5241'	5404'	gas
Menefee	5404'	5737 <b>′</b>	gas
Massive Point Lookout	5737 <b>'</b>	6234'	gas
Mancos	6234 <b>′</b>	6886 <b>′</b>	gas
Gallup	6886 <b>'</b>	7631 <b>′</b>	gas
Greenhorn	7631'	7691'	gas
Graneros	7691'	7741'	gas
Dakota	7741′		gas
TD	7956'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface Cores - none

Mud Program:

			'	mind at the end
Interval	Type	Weight	Vis.	Fluid Loss
		-0.400	40 E0	no control
0- 200'	Spud	8.4-9.0	40-50	NO CONCLOT
0	- 1		20 60	
200- 3751 <b>′</b>	LSND	8.4-9.0	30-60	no control
200- 3,31	DUITE	- · · · · ·	,	,
3751- 7956'	Dir/N2	n/a	n/a	n/a
4/51- /956	ALL/NZ	11/ a	11/ 4	11, 4

Pit levels will be visually monitored to detect gain or loss of fluid control.

# Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size		Grade
$\frac{10133311}{121/4"}$	0' - 200'	9 5/8"	32.3#	WC-50
8 3/4"	0' - 3751'	7"	20.0#	J-55
6 1/4"	3651' - 7956'	4 1/2"	10.5#	K-55

#### Tubing Program:

0' - 7956' 2 3/8" 4.7# J-55

# BOP Specifications, Wellhead and Tests:

## Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

#### Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

#### Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #3). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

#### Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

#### General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "G" cement with 1/4# flocele/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/447 sx 50/50 Class "G" TXI Liteweight cement with 2.5% sodium metasilicate, 5 pps Gilsonite and 0.5 pps flocele. Tail w/90 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps Gilsonite, 0.5 pps Flocele (1269 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar 3079'. First stage: cement with w/178 sx Class "G" 50/50 poz w/2% gel, 2% calcium chloride, 5 pps gilsonite, 0.5 pps Flocele. Second stage: 404 sx 50/50 Class "G"/TXI Liteweight with 2.5% sodium metasilicate, 5 pps Gilsonite, 0.5 pps Flocele (1269 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 3079'. Two turbolating centralizers at the base of the Ojo Alamo at 3079'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Liner -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 430 sx 50/50 Class "G" Poz with 5% gel, 0.25 pps flocele, 5 pps Gilsonite (619 cu.ft.), 40% excess to cement 4  $1/2" \times 7"$  overlap). WOC a minimum of 18 hrs prior to completing.

Cement float shoe on bottom with float collar spaced on top of shoe joint.

# Operations Plan - San Juan 28-5 Unit #71N

#### Page Three

If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4  $1/2" \times 7"$  overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the

If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

# Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

## Additional Information:

- The Mesaverde and Dakota formations will be completed and commingled.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

300 psi Fruitland Coal 600 psi Pictured Cliffs 700 psi Mesa Verde Dakota 2500 psi

- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered.
- The north half of Section 34 is dedicated to the Mesaverde and the east half minus the SE/SE quarter of Section 34 and the NW/NW quarter of Section 35 is dedicated to the Dakota in this well.

This gas, is dedicated.

# Alternative Intermediate Lead Slurry

#### Dowell-

Class G: D49(50:50) w/ 2.5% D79, 2% S1, 10pps D24, .5pps D29, .2%D46

where: D49-TXI Light weight Cement

D79-Sodium Metasilicate S1-Calcium Chloride

D24-Gilsonite

D46-Antifoam Agent

## Properties-

Density:11.4 lb/gal Yield:2.58 cu ft./sk Water:14.55 gal/sk

Thick Time 70 b.c.(deg F): 4:06(101)

Free Water:0

Fluid Loss:462ml/30 min CS(crush)@24hr:394 CS(crush)@48hr:550

#### Halliburton-

Class H 47#/sk, 37#/sk Blended Silicalite, 3% Bentonite, 4% Calcium Chloride

# Properties-

Density:11.4 lb/gal Yield:2.42 cu.ft./sk Water:14.02 gal/sk

Thick Time(70 bc): 11:00+ Fluid Loss: 702 cc/30min

Free Water: 0%

Compressive Strength (@25:19):500 Compressive Strength (@48:00):630

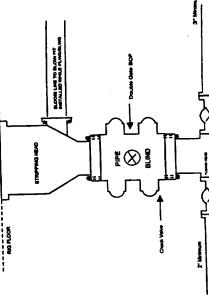
3000 psi System **Drilling Rig** 

NOO PLOOR

NOTATING HEAD:

Completion/Workover Rig BOP Configuration 3,000 pel System





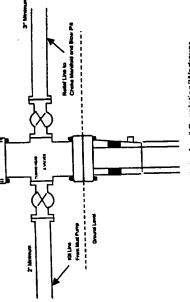
**BURLINGTON RESOURCES** 

差

DOLBLE GATE

TRILUD UNE

Drilling Rig Choke Manifold Configuration 3000 psi System



pressure double gate BOP to be equipped with blind and pipe rams. A stripping head to be installed on the top of the BOP. All equipment is 3000 pst working pressure or Minimum BOP installation for all Completion/Workover Operations. 7-1/16" bore, 3000 psl minimum working

Figure #3

greater.

Figure #1

**F** # £ 7 7 ADJUSTABLE OR POSITIVE CHOKE

Choke manifold installation from Surface Casing Point to Total Depth. 3,000psi working preseure equipment with two chokes.

Figure #2

10-5-00