

New Mexico  
Energy Minerals and Natural Resources Department

Form C-140  
Revised 06/99

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505  
(505) 476-3440

**SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO APPROPRIATE  
DISTRICT OFFICE**

**District I** - (505) 393-6161  
1625 N. French Dr, Hobbs, NM 88240  
**District II** - (505) 748-1283  
1301 W. Grand Avenue, Artesia, NM 88210  
**District III** - (505) 334-6178  
1000 Rio Brazos Road, Aztec, NM 87410  
**District IV** - (505) 476-3440  
1220 S. St. Francis Dr., Santa Fe, NM 87505

**APPLICATION FOR  
WELL WORKOVER PROJECT**

**I. Operator and Well**

Operator name address <b>Burlington Resources Oil and Gas Co. LP Box 4289, Farmington, NM 87499</b>					OGRID Number <b>014538</b>		
Contact Party <b>Leslie D. White</b>					Phone <b>505/326-9700</b>		
Property Name <b>GRAMBLING C</b>				Well Number <b>4</b>		API Number <b>3004509664</b>	
UL	Section	Township	Range	Feet From The	Feet From The	County	
<b>L</b>	<b>12</b>	<b>30 N</b>	<b>10 W</b>	<b>1798 FSL</b>	<b>1097 FWL</b>	<b>SAN JUAN</b>	

**II. Workover**

Date Workover Commence <b>3/21/2003</b>	Previous Producing Pool(s) (Prior to Workover): <b>BLANCO MESAVERDE</b>
Date Workover Completed: <b>4/4/2003</b>	

- III. Attach a description of the Workover Procedures performed to increase production.  
IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase.  
V. AFFIDAVIT:

State of <u>New Mexico</u> )	
County of <u>San Juan</u> ) ss.	
Leslie D. White, being first duly sworn, upon oath states:	
1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well.	
2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.	
3. To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.	
Signature <u>Leslie D. White</u>	Title <u>Sr. Accountant</u> Date <u>2/17/04</u>
SUBSCRIBED AND SWORN TO before me this <u>17</u> day of <u>February</u> , <u>2004</u> .	
My Commission expires: <u>September 15, 2004</u>	
Notary Public <u>Tamatha Wimsatt</u>	

**FOR OIL CONSERVATION DIVISION USE ONLY:**

**IV. CERTIFICATION OF APPROVAL:**

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed 4/4/03.

Signature District Supervisor <u>JS. S.</u>	OCD District <u>3</u>	Date <u>2/17/04</u>
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**VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:**

## BLANCO MESAVERDE

REG\_DTL\_D

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4/1/2002	5058
5/1/2002	5382
6/1/2002	4627
7/1/2002	4938
8/1/2002	4156
9/1/2002	5040
10/1/2002	5450
11/1/2002	5293
12/1/2002	5267
1/1/2003	4029
2/1/2003	4329
3/1/2003	1950
4/1/2003	2821
5/1/2003	5325
6/1/2003	4114
7/1/2003	5106

# BURLINGTON RESOURCES O&G CO

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## Operations Summary Report

Legal Well Name: GRAMBLING C #4  
Common Well Name: GRAMBLING C #4  
Event Name: CAP WORKOVER  
Contractor Name: DRAKE WELL SERVICE  
Rig Name: DRAKE

Spud Date: 12/03/1953  
Start: 03/21/2003 End: 04/04/2003  
Rig Release: 04/04/2003 Group:  
Rig Number: 29

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
03/22/2003	14:00 - 15:00	1.00	MIMO	a	PREWRK	ROAD RIG TO LOCATION, SPOT RIG
	15:00 - 17:30	2.50	RURD	a	PREWRK	RIG UP ASSOCIATED EQUIPMENT AS IT ARRIVED ON LOCATION, SDFWE
03/25/2003	05:30 - 07:00	1.50	SRIG	a	OBJECT	TRAVEL TO LOCATION, HELD SAFETY MEETING W/ RIG CREW
	07:00 - 09:00	2.00	SPOT	a	OBJECT	TOH SLM 2-3/8" TBG (5658') PULLED 185 JTS. TBG IN GOOD SHAPE,
	09:00 - 11:30	2.50	WIRE	a	OBJECT	RU BLACK WARRIOR AND RUN IN HOLE W/ 4-1/2" CIBP SET @ 5322'
	11:30 - 13:00	1.50	WIRE	a	OBJECT	RUN IN HOLE W/ 3-1/8" GUN AND PERF INTERVALS F/ 5004' T/ 5278'. 1 SPF, 0.32" DIAM, 14.3# PENETRATION, 10 GRAIN CHARGES.
	13:00 - 14:00	1.00	WIRE	a	OBJECT	RUN IN HOLE W/ 4-1/2" RET B PLUG, SET @ 4706'
03/26/2003	14:00 - 17:30	3.50	WIRE	a	OBJECT	LOAD HOLE W/ 85 BBLs KCL WATER, AND RUN GR/CBL/CCL F/ 4706' UP TO, 3300' TOP OF CMT @ 3624' BLACK WARRIOR HAVING TROUBLE W/ BOND LOG, REHEAD AND CONTINUE W/ LOG. RIG DOWN SAME.
	17:30 - 18:30	1.00	TEST	a	OBJECT	PU 1 JT TBG, MAKE UP PKR, RUN IN HOLE 30' AND SET, RU THREE RIVERS, TEST 4-1/2" CSG TO 3000 PSI, FOR 30 MIN, (HELD OK). RIG DOWN SAME.
	18:30 - 19:00	0.50	SRIG	a	OBJECT	SECURE WELL AND LOCATION SDFN.
	05:30 - 07:00	1.50	SRIG	a	OBJECT	3/25/2003: TRAVEL TO LOCATION. HELD SAFETY MEETING W/ RIG CREW.
	07:00 - 08:30	1.50	TRIP	a	OBJECT	TIH W/ RET HEAD, LATCH RET BP @ 4706' TOH LD BP.
	08:30 - 10:30	2.00	TRIP	a	OBJECT	TIH W/ 4-1/2" FULL BORE PKR, TRY TO SET 5960', WOULD NOT SET, TOH MISSING PACKER, 1 FULL JT, SNPL. 39.89' TOOLS IN HOLE
	10:30 - 12:30	2.00	FISH	a	OBJECT	TIH W/ TBG STRING TAG FISH @ 5289' (MD) ENGAGE AND SCREW INTO FISH.
	12:30 - 13:30	1.00	FISH	a	OBJECT	TOH RECOVERED FISH, CHANGE OUT TBG COUPLING ON TOP OF SEAT NPL,
	13:30 - 14:30	1.00	TRIP	a	OBJECT	MAKE UP 4-1/2" FULL BORE PKR, TIH TAG BP 5320' PU 5' AND SET, RU BJ, TEST BP TO 3000 PSI HELD OK
	14:30 - 15:00	0.50	TRIP	a	OBJECT	RELEASE PACKER AND PULL UP T/ 4965' AND SET
	15:00 - 16:00	1.00	STIM	a	OBJECT	HELD SAFETY MEETING RU BJ AND TEST LINES TO 4500 PSI, BREAK DOWN MENEFEE W/ 2% KCL, TOTAL PUMPED 50 BBLs CAUGHT PRESSURE AFTER 18 BBLs, EST INJECTION RATE @ 6 BPM @ 2675 PSI, BROKE @ 2900 PSI. SHUT DOWN, PRESSURE WENT TO -0-
	16:00 - 17:00	1.00	TRIP	a	OBJECT	TOH W/ PKR
	17:00 - 18:00	1.00	NUND	a	OBJECT	MAKE UP 15' OF 2-7/8" SUBS FB PKR, CHANGE RAMS, SET PACKER @ 15', NU FRAC EQUIP, PREPARE FOR FRAC. SECURE WELL AND LOC SDFN.
	05:30 - 07:00	1.50	SRIG	a	OBJECT	3/26/2003: TRAVEL TO LOCATION SERV AND PREP RIG. HELD TAILGATE SAFETY MEETING
03/27/2003	07:00 - 09:00	2.00	FRAC	a	OBJECT	FINISH NU 4" FRAC VALVE AND FRAC "Y".
	09:00 - 13:30	4.50	WAIT	a	OBJECT	WAIT ON FRAC CREW, RIG MAINTENANCE, CHANGE OIL IN RIG, SERV ALL RIG COMPONENTS. INSTALL VALVE ON RIG PUMP DISCHARGE LINE.
03/29/2003	05:30 - 07:00	1.50	SRIG	a	OBJECT	3/28/2003: TRAVEL TO LOCATION. HELD TAILGATE SAFETY MEETING.
	07:00 - 08:30	1.50	FRAC	a	OBJECT	RIGGING UP FRAC CREW. HELD SAFETY MEETING W/ 28 PRESENT.
	08:30 - 10:00	1.50	FRAC	a	OBJECT	FRAC MENEFEE W/ BJ AS FOLLOWS START BREAK DOWN W/ 2%

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## Operations Summary Report

Legal Well Name: GRAMBLING C #4  
 Common Well Name: GRAMBLING C #4  
 Event Name: CAP WORKOVER  
 Contractor Name: DRAKE WELL SERVICE  
 Rig Name: DRAKE

Spud Date: 12/03/1953  
 Start: 03/21/2003 End: 04/04/2003  
 Rig Release: 04/04/2003 Group:  
 Rig Number: 29

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
03/29/2003	08:30 - 10:00	1.50	FRAC	a	OBJECT	KCL DROP 80 BALLSEALERS (BIO) BROKE @ 2500 PSI, START 10,000 GAL 60 QUALITY SLICK FOAM PAD @ 38 TO 45 BPM @ 2400 T/ 2712 PSI, PUMPED APPROX 100,000 # 20/40 BRADY SAND @ .5 TO 1.5 PPG SAND CONCENTRATION @ 40-49 BPM @ 60 QUALITY FOAM, DISPLACE W/ 79 BBLS TOTAL N2 USED 1,215,545, ISIP 200 PSI
	10:00 - 10:30	0.50	PCKR	a	OBJECT	FLOW WELL BACK, DID NOT DIE, PUMP 50 BBLS WATER, PSI DROPPED DOWN TO 0 OVER 20 MIN, RELEASE PACKER AND ISOLATION TOOL, LD SAME
	10:30 - 11:00	0.50	PERF	a	OBJECT	RU BLACK WARRIOR, RIH W/ 4-1/2" CIBP SET @ 4706' RD SAME
	11:00 - 11:30	0.50	PCKR	a	OBJECT	SET PACKER AND ISOLATION TOOL, RU AND TEST PLUG TO 3000 PSI, HELD OK, BLEED OFF, RD PKR
	11:30 - 12:30	1.00	PERF	a	OBJECT	RU AND RIH W/ 1- 3-1/8" GUN AND PERF INTERVALS F/ 4003' T/ 4635', 25 TOTAL HOLES. PERF W/ 1-SPF, 0.32" DIAMETER, 14.3" PENETRATION, 10 GRAM CHARGES (OWEN, 302)
	12:30 - 13:30	1.00	FRAC	a	OBJECT	SET PKR & ISO TOOL, RU BJ AND BREAK DOWN LEWIS, PUMP 10 BBLS CAUGHT PRESS, PUMP 1 BPM @ 2900 PSI, BLED BACK AND REPEAT SEVERAL TIMES, RD BJ.
	13:30 - 15:00	1.50	WIRE	a	OBJECT	RU WIRELING RIH W/ DUMP BAILER, 2 RUNS, W/ 28% ACID, DUMP @ 4570' AND 4370'
	15:00 - 16:30	1.50	SPOT	a	OBJECT	SET PKR & ISO TOOL, RU BJ AND TRY TO BREAK DOWN LEWIS 3000# @ 1.5 BPM. RD BJ.
	16:30 - 18:00	1.50	TRIP	a	OBJECT	TIH W/ 2-3/8" TBG TO 4000', SECURE WELL AND LOCATION SDFWE,
03/31/2003	05:30 - 06:30	1.00	SRIG	a	OBJECT	ROAD CREW TO LOCATION, SERVICE RIG
	06:30 - 06:45	0.25	SAFE	a	OBJECT	SAFETY MEETING { SPOT ACID }
	06:45 - 07:00	0.25	RURD	a	OBJECT	RIG UP BJ SERVICES
	07:00 - 07:15	0.25	SPOT	a	OBJECT	SPOT 500 GALS 15% HCL ACROSS PERF ZONE
	07:15 - 08:00	0.75	TRIP	a	OBJECT	POOH W/ TBG
	08:00 - 08:45	0.75	PERF	a	OBJECT	RU BWWC, RE-PERFORATE LEWIS 4003' - 4635' ONE SPF W/ 3-1/8" CSG GUN, W/ OWEN 302 10 GRAM CHARGES, UTILIZING SELECT FIRE SYSTEM FOR A TOTAL OF 25 HOLES
	08:45 - 09:00	0.25	RURD	a	OBJECT	RIG UP ISOLATION TOOL, BJ SERVICES
	09:00 - 09:15	0.25	SAFE	a	OBJECT	SAFETY MEETING W/ ALL 29 PEOPLE ON LOCATION { FRAC PROCEDURE }
	09:15 - 09:30	0.25	PRES	a	OBJECT	PRESSURE TEST LINES TO 4100 PSI
	09:30 - 10:45	1.25	FRAC	a	OBJECT	FRAC LEWIS AS FOLLOWS, BREAK DOWN PERFS W/ 500 GALS 15% HCL @ 2950 PSI @ 4.5 BPM, ESTABLISH INJECTION RATE OF 26 BPM @ 2600 PSI, ISIP = 415 PSI, SPEARHEAD 500 GALS 15% HCL AHEAD, PUMP 10,000 GALS 85 QUALITY FOAM PAD @ 38 -40 BPM @ 2472# - 2950#, PUMPED APROX. 65,000# 20/40 BRADY SAND @ .25 PPG - 1 PPG CONCE., @ 38 BPM - 45 BPM @ 83 - 72 QUALITY FOAM, SLICKWATER FLUID, DISPLACE W/ 19 BBLS FLUID, 27,400 SCF N2, ISIP = 1530 PSI
	10:45 - 12:00	1.25	RURD	a	OBJECT	RIG DOWN BJ SERVICES, RIG UP FLOW BACK LINE & MANIFOLD
	12:00 - 05:30	17.50	FLOW	a	OBJECT	FLOW BACK ON CHOKE SCHEDULE
						TIME—CHK—PSI—WTR—SND
						1200 10 1500 HM LITE
						1400 12 1300 HM TRACE
						1600 14 1150 HM-N2 0
						1900 18 1450 HM-F 0
						2100 20 1425 HF-N2 0
						2300 22 1200 HF-N2 0

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Legal Well Name: GRAMBLING C #4  
Common Well Name: GRAMBLING C #4  
Event Name: CAP WORKOVER  
Contractor Name: DRAKE WELL SERVICE  
Rig Name: DRAKE

Start: 03/21/2003  
Rig Release: 04/04/2003  
Rig Number: 29  
Spud Date: 12/03/1953  
End: 04/04/2003  
Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
03/31/2003	12:00 - 05:30	17.50	FLOW	a	OBJECT	0100 24 800 HM-N2 0 0300 32 450 HM-N2 0 0400 48 350 HM 0 0500 2" 50 SURGE 0
04/02/2003	05:30 - 07:00	1.50	SRIG	a	OBJECT	ROAD CREW TO LOCATION, SERVICE RIG
	07:00 - 07:15	0.25	SAFE	a	OBJECT	SAFETY MEETING { KILL WELL }
	07:15 - 07:45	0.50	KILL	a	OBJECT	KILL WELL W/ 40 BBLS KCL WTR
	07:45 - 09:00	1.25	TRIP	a	OBJECT	STAGE IN HOLE W/ 3-1/8" MILL TO 4626', TAG SAND FILL
	09:00 - 10:15	1.25	COUT	a	OBJECT	CLEAN OUT SAND FILL 4626' - TO CIBP @ 4706'
	10:15 - 14:15	4.00	STUK	a	OBJECT	WORK STUCK PIPE 4706' TO 4680', UNABLE TO GO UP OR DOWN, CIRCULATE HOLE
	14:15 - 16:30	2.25	FISH	a	OBJECT	RIG UP WIRELINE, RUN FREEPOINT, PIPE FREE @ 4578', CHEMICAL CUT TBG @ 4570'
	16:30 - 05:00	12.50	CIRC	a	OBJECT	CIRCULATE W/ ONE & ONE TO CLEAN UP FRAC SAND W/ WELL MAKING 20 BWPH & LOTE SAND, DECREASING TO 17 BWPH W/ LITE SAND OVERNIGHT
04/03/2003	05:30 - 06:30	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, SERVICE RIG
	06:30 - 06:45	0.25	SAFE	a	PREWRK	SAFETY MEETING { PU FISHING TOOLS }
	06:45 - 08:00	1.25	FISH	a	FISH	POOH W/ MILL
	08:00 - 08:15	0.25	KILL	a	FISH	KILL WELL W/ 30 BBLS WTR
	08:15 - 08:45	0.50	FISH	a	FISH	MAKE UP FISHING TOOLS, 3-7/8" OVERSHOT, BUMPER SUB, DCS, JARS, ACC SUB
	08:45 - 10:15	1.50	FISH	a	FISH	TIH, LATCH FISH @ 4670', JAR LOOSE
	10:15 - 12:00	1.75	FISH	a	FISH	POOH, LAY DOWN FISHING TOOLS, FISH
	12:00 - 13:00	1.00	TRIP	a	OBJECT	TIH W/ 3-7/8" MILL, TAG SAND FILL @ 4666'
	13:00 - 13:15	0.25	PULD	a	OBJECT	PICK UP POWER SWIVEL
	13:15 - 13:45	0.50	CIRC	a	OBJECT	ESTABLISH CIRCULATION W/ 1350 SCFM AIR, 12 BPH MIST
	13:45 - 14:15	0.50	COUT	a	OBJECT	CLEAN OUT SAND FILL 4666' - 4707'
	14:15 - 16:45	2.50	MIMO	a	OBJECT	MILL CIBP @ 4706'
	16:45 - 17:15	0.50	TRIP	a	OBJECT	STAND BACK SWIVEL. RIH, TAG SAND FILL @ 5082'
	17:15 - 17:45	0.50	COUT	a	OBJECT	CLEAN OUT SAND FILL TO 5122'
	17:45 - 18:00	0.25	CIRC	a	OBJECT	SWEEP HOLE
	18:00 - 18:30	0.50	TRIP	a	OBJECT	STAND BACK SWIVEL, PUH TO 5000'
	18:30 - 05:00	10.50	BLOW	a	OBJECT	FLOW & BLOW OVERNIGHT W/ WELL MAKING 21 BWPH W/ HEAVY SAND, DECREASING TO 17 BWPH W/ LITE SAND OVERNIGHT
04/04/2003	05:30 - 07:00	1.50	SRIG	a	OBJECT	ROAD CREW TO LOCATION, SERVICE RIG
	07:00 - 07:15	0.25	SAFE	a	OBJECT	SAFETY MEETING { CUOT SAND }
	07:15 - 07:30	0.25	TRIP	a	OBJECT	RIH, NO SAND FILL OVERNIGHT
	07:30 - 10:30	3.00	COUT	a	OBJECT	CLEAN OUT SAND 5122' - TO CIBP @ 5322'
	10:30 - 17:00	6.50	MILL	a	OBJECT	MILL CIBP @ 5322'
	17:00 - 05:00	12.00	CIRC	a	OBJECT	PUH 40', CIR W/ ONE & ONE OVERNIGHT W/ WELL MAKING 14 BWPH W/ MEDIUM SAND, DECREASING TO 9 BWPH W/ LITE SAND OVERNIGHT
04/05/2003	05:30 - 06:30	1.00	SRIG	a	OBJECT	ROAD CREW TO LOCATION, SERVICE RIG
	06:30 - 06:45	0.25	SAFE	a	OBJECT	SAFETY MEETING { TRIPPING PIPE
	06:45 - 08:00	1.25	COUT	a	OBJECT	MILL JUNK, PUSH TO PBTD @ 5682'
	08:00 - 08:15	0.25	CIRC	a	OBJECT	SWEEP HOLE W/ 5 BBL SWEEP
	08:15 - 09:30	1.25	TRIP	a	OBJECT	POOH, LAY DOWN MILL
	09:30 - 11:30	2.00	TRIP	a	OBJECT	TIH W/ PRODUCTION TO PBTD, NO FILL, PUH LAND TBG AS

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## Operations Summary Report

Legal Well Name: GRAMBLING C #4  
 Common Well Name: GRAMBLING C #4  
 Event Name: CAP WORKOVER  
 Contractor Name: DRAKE WELL SERVICE  
 Rig Name: DRAKE

Start: 03/21/2003 Spud Date: 12/03/1953  
 Rig Release: 04/04/2003 End: 04/04/2003  
 Rig Number: 29 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
04/05/2003	09:30 - 11:30	2.00	TRIP	a	OBJECT	FOLLOWS, 183 JTS 2-3/8" EUE 8RD J-55 TBG, SN, TAIL JT, EX CHK {
	11:30 - 12:00	0.50	NUND	a	OBJECT	BROACHED TBG ON TIH
	12:00 - 12:30	0.50	CIRC	a	OBJECT	ND BOP NU WELLHEAD
	12:30 - 13:30	1.00	CIRC	a	OBJECT	PUMP OFF CHK, CIRCULATE HOLE W/ WELL MAKING 4.2 BWPH
	13:30 - 14:30	1.00	TEST	a	OBJECT	CIRCULATE , DRY UP HOLE
	14:30 - 16:00	1.50	RURD	a	OBJECT	PITOT TEST UP TBG @ 372 MCFD RIG DOWN DRAKE RIG # 29