

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**

APPLICATION FOR  
WELL WORKOVER PROJECT

**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

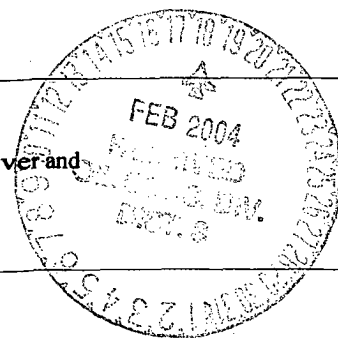
**I. Operator and Well**

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>HOWELL C</b>			Well Number <b>4A</b>		API Number <b>3004521964</b>	
UL	Section	Township	Range	Feet From The	Feet From The	County
F	18	30 N	8 W	1810 FNL	1095 FWL	SAN JUAN

**II. Workover**

Date Workover Commence <b>4/1/2003</b>	Previous Producing Pool(s) (Prior to Workover): <b>BLANCO MESAVERDE</b>
Date Workover Completed: <b>4/8/2003</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.
<u>Leslie D. White</u> , 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 Wimsath</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 4/8/03.

Signature District Supervisor <u>[Signature]</u>	OCD District <u>3</u>	Date <u>2/18/04</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	5292
5/1/2002	4960
6/1/2002	4295
7/1/2002	5290
8/1/2002	5172
9/1/2002	5176
10/1/2002	4742
11/1/2002	3846
12/1/2002	4139
1/1/2003	3777
2/1/2003	3175
3/1/2003	5590
4/1/2003	3580
5/1/2003	7090
6/1/2003	6801
7/1/2003	6809

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## Operations Summary Report

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

Start: 04/01/2003  
 Rig Release: 04/08/2003  
 Rig Number: 22  
 Spud Date: 12/16/1978  
 End: 04/08/2003  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
04/02/2003	12:00 - 12:30	0.50	SRIG	a	MIRU	ROAD RIG TO LOCATION SPOT RIG
	12:30 - 12:45	0.25	SAFE	a	MIRU	PREJOB SAFETY - RIG MOVE, DAILY JOB ACTIVITY. RIG CREW, AIRHAND, RIG MOVERS, BR REP.
	12:45 - 14:00	1.25	MIMO	a	MIRU	SPOT MOUNTAIN AIR PACKAGE, RIG EQUIP., FRAC TANKS. LAY 2" LINE TO PIT.
	14:00 - 15:30	1.50	RURD	a	MIRU	RU DRAKE RIG 22, RIG EQUIP., & MOUNTAIN AIR PACKAGE.
	15:30 - 17:30	2.00	NUND	a	OBJECT	CHK PSI TBG @ 15 PSI, CSG @ 80 PSI, OPEN 2" LINE TO PIT, BWD. ND TREE, NU BOP, RU FLOOR, & TONGS, PREP TO TOH. TRY TO PULL TBG HNGR. WORK STUCK TBG
04/03/2003	17:30 - 18:00	0.50	SHDN	a	OBJECT	SIW/ SDFN.
	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHANDS, W/L CREW, BR REP.
	07:15 - 11:00	3.75	FISH	a	FISH	RU WIRELINE SPECIALTIES, FREEPOINT 2 3/8" EUE 4.7# J-55 PROD TBG. TBG OBSTUCTION @ 5595', TBG FREE @ 5585', TOTAL TBG IN HOLE = 5663'. CUT TBG @ 5580'. RD W/L. NOTE; COULD NOT GET FIRST TWO SET TOOLS TO WORK.
	11:00 - 13:30	2.50	TRIP	a	FISH	TALLY, TOH W/ 2 3/8" EUE 4.7# J-55 PROD TBG. RECOVERED 178 JTS + 8' OF 181 TOTAL JTS. NO SIGN OF SCALE ON TBG.
04/04/2003	13:30 - 16:00	2.50	TRIP	a	FISH	PUMU 3 3/4" OS, JARS, BS, 6 - 3 1/8" DC'S ON 2 3/8" EUE 4.7# J-55 WRK TBG, TIH TO 4515'.
	16:00 - 17:00	1.00	SHDN	a	OBJECT	WINDY, SIW/ DRAIN RIG PUMP, SDFN.
	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHANDS, F-TOOL HAND, BR REP.
	07:15 - 10:00	2.75	FISH	a	FISH	TIH, TAG FISH @ 5580', LATCH ONTO 2 3/8" PROD TBG FISH, JAR ON TBG.
04/05/2003	10:00 - 12:00	2.00	WAIT	a	OBJECT	ENGINE GASKET STARTED LEAKING, SD REPAIR.
	12:00 - 14:00	2.00	FISH	a	FISH	JAR TBG FREE, TOH, LD FISH TOOLS & 2 3/8" EUE PROD TBG FISH. ( 1 JT, SN, 1 JT TAILPIPE )
	14:00 - 16:00	2.00	CASE	a	OBJECT	RU BWWC W/L, RUN GR & CCL LOG FROM 4500'- 2500', SET 4 1/2" CIBP @ 4520', RD W/L.
	16:00 - 18:30	2.50	PRES	a	OBJECT	RU THREE RIVER PUMP TRUCK, DUMP 600 GAL. 15% HCL ACID ( INHIBITED ), LOAD HOLE W/ 2% KCL WTR, PU 7" 20# BAKER FB PKR ON 2 JTS 2 7/8" EUE 6.5# L-80 FRAC TBG, RIH TO 60', SET, TEST CSG @ 3000#. TST OK, RELEASE PSI, RELEASE PKR POH.
	18:30 - 20:00	1.50	SHDN	a	OBJECT	ND BOP & CSG HEAD, ROTATE WH, NU WH & BOP. DRAIN RIG EQUIP., SIW/ SDFN
04/05/2003	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 08:00	1.00	PERF	a	OBJECT	RU BWWC W/L, PERF LEWIS PAY W/ 25 HOLES, 1 SPF FROM 3853'- 4478'. RD W/L.
	08:00 - 09:00	1.00	NUND	a	OBJECT	PU BAKER 7" 20# FB PKR ON 2 JTS 2 7/8" 6.5# L-80 FRAC TBG & 6' PUP JT, RIH, SET @ 64'. NU CIT & 4" 5000# FRAC VALVE. NU SCHLUMBER FRAC EQUIP.
	09:00 - 11:00	2.00	FRAC	a	OBJECT	PREFRAC SAFETY MEETING- 28 PEOPLE ON LOCATION. TEST LINES @ 4250 PSI. BD LEWIS PAY @ 1560 PSI- 2 BPM, EST RATE, FRAC LEWIS PAY W/ 200,000# ARIZONA 20/40 SAND, 1- 3 PPG SAND, & 618 BBLs 75 QUALITY FOAMED 20# LINEAR GEL @ 53 BPM- 2440 PSI, MAX OF 57 BPM- 2505 PSI, MIN OF 50 BPM- 2420 PSI, DISPLACE W/ 46 FLD BBLs, TOTAL OF 664 BBLs FLD, TOTAL N2= 1,416,400 SCF N2. ISIP= 1630 PSI. SIW.
	11:00 - 13:00	2.00	NUND	a	OBJECT	RD FRAC EQUIP., NU FLOWBACK LINE TO BLOW PIT. PREP TO FLOW WELL BACK. OPEN ON 16/64 CHK- 1300 PSI, FWB.

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 Contractor Name: DRAKE WELL SERVICE  
 Rig Name: DRAKE

Start: 04/01/2003 Spud Date: 12/16/1978  
 Rig Release: 04/08/2003 End: 04/08/2003  
 Rig Number: 22 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
04/05/2003	13:00 - 06:00	17.00	FLOW	a	OBJECT	FWB AS NEEDED. 5:00 PM- 24/64 CHK, 1100 PSI, HVY FOAM MIST, LIGHT SAND. 12:00 AM- 250 PSI, 48/64 CHK, HVY FOAM MIST, MOD SAND. 5:00 AM - 200 PSI, MOD FOAM MIST, HVY SURGES, MOD SAND.
04/06/2003	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHAND, BR REP.
	07:15 - 09:00	1.75	NUND	a	OBJECT	KW, ND FRC VALVE, CIT, RELEASE BAKER 7" FB PKR, TOH, LD PUP JT, 2 JTS 2 7/8" FRC TBG, & PKR. PREP TO TIH W/ 2 3/8" WRK TBG.
	09:00 - 11:00	2.00	TRIP	a	OBJECT	PUMU 3 7/8" BIT, BITSUB ON 2 3/8" EUE 4.7# J-55 WRK TBG, TIH W/ 3000' TBG, UNLOAD HOLE, TIH W/ REMAINDER TBG. TAG @ 4400'.
	11:00 - 17:00	6.00	COUT	a	CLEAN	CO W/ AIRMIST TO TOP CIBP @ 4520', 120' FILL, PULL TBG UP, BLOW WELL AROUND.
	17:00 - 06:00	13.00	COUT	a	CLEAN	BLOW W/ AIRMIST. 5:00 AM RECOVERING APROX 8 BWPH, TRACE TO LIGHT SAND.
04/07/2003	06:00 - 06:00	24.00	BLOW	a	CLEAN	BLOW W/ AIRMIST TO CLN WELL UP. 5:00 PM RECOVERING APROX 3-4 BWPH, LIGHT SAND. ALTERNATE FLOW WELL NAT. 2 HR, BLOW W/ AIRMIST TO CLN WELL UP. 5:00 AM - RECOVERING APROX 2 BWPH, TRACE OF SAND.
04/08/2003	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHAND, BR REP.
	07:15 - 10:30	3.25	DRLG	a	OBJECT	TIH, DRILL OUT 4 1/2" CIBP @ 4520', CIRC HOLE CLN.
	10:30 - 11:00	0.50	TRIP	a	OBJECT	TIH, TAG FILL @ 5600', 105' FILL.
	11:00 - 14:00	3.00	COUT	a	CLEAN	CO W/ AIRMIST TO PBTD OF 5702'.
	14:00 - 17:00	3.00	BLOW	a	CLEAN	BLOW W/ AIRMIST TO CLN WELL, RECOVERING APROX 3 BWPH, LIGHT TO MODERATE SAND.
04/09/2003	17:00 - 06:00	13.00	BLOW	a	CLEAN	PULL TBG UP, BLOW W/ AIRMIST. DRAIN RIG EQUIP., SDSR FN. RECOVERING APROX 2 BWPH, LIGHT SAND.
	06:00 - 07:00	1.00	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHANDS, BR REP.
	07:15 - 09:00	1.75	TRIP	a	OBJECT	TOH W/ 2 3/8" EUE 4.7# J-55 WRK TBG, LD 3 7/8" BIT & BITSUB.
	09:00 - 11:00	2.00	TRIP	a	OBJECT	PUMU 2 3/8" PROD BHA, TIH W/ 3000' 2 3/8" EUE 4.7# J-55 PROD TBG, BROACH TBG, TIH W/ REMAINDER TBG, TAG FOR FILL. NO FILL.
	11:00 - 12:30	1.50	NUND	a	OBJECT	PULL TBG UP, LND TBG @ 5608', RD FLOOR, TONGS, & 4" B-LINE, ND BOP, NU TREE, UNLOAD HOLE W/ AIRMIST, PUMP OFF EXP CHK, BLOW WELL AROUND.
	12:30 - 14:00	1.50	RURD	a	RDMO	RD DRAKE RIG 22, RIG EQUIP., & MOUNTAIN AIR PACKAGE. PREP TO MOVE.
	14:00 -		RURD	a	RDMO	TBG LNDED @ 5609.14' W/ 179 TOTAL JTS 2 3/8" EUE 4.7# J-55 TBG. 1.78 STD SN @ 5608.7'. TRANSFER 15 JTS 2 3/8" EUE TBG TO WOODRIVER #2, BY M&R TRUCKING.
						SUMMARY: MIRU SR, NDNU, STUCK TBG, CUT TBG, FISH TBG, SET CIBP, TST CSG, LOG HOLE, PERF, FRAC LEWIS PAY, DRILL OUT CIBP, CO TO PBTD, LND TBG, NDNU, RDMO SR TO WOODRIVER #2.
4/9/2003- CHK LOCATION, NO TRASH, FENCE UP AROUND PIT. NO SPILLS.						