

New Mexico
Energy Minerals and Natural Resources Department

Form C-140
Revised 06/99

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PLUS 2 COPIES
TO APPROPRIATE
DISTRICT OFFICE**

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

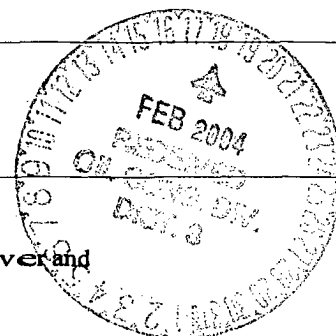
APPLICATION FOR
WELL WORKOVER PROJECT

Operator and Well

Operator name address Burlington Resources Oil and Gas Co. LP Box 4289, Farmington, NM 87499					OGRID Number 014538		
Contact Party Leslie D. White					Phone 505/326-9700		
Property Name HOWELL K				Well Number 4A		API Number 3004521977	
UL F	Section 17	Township 30 N	Range 8 W	Feet From The 1650 FNL	Feet From The 1650 FWL	County SAN JUAN	

I. Workover

Date Workover Commence 4/23/2003	Previous Producing Pool(s) (Prior to Workover): BLANCO MESAVERDE
Date Workover Completed: 4/30/2003	



- 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>)	
) ss.	
County of <u>San Juan</u>)	
<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 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 4/30/03.

Signature District Supervisor <u>SSJ</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:

HOWELL K

4A

3004521977

REG_DTL_D

BLANCO MESAVERDE

4/1/2002	6433
5/1/2002	6025
6/1/2002	4820
7/1/2002	6882
8/1/2002	6948
9/1/2002	6152
10/1/2002	6370
11/1/2002	6302
12/1/2002	5598
1/1/2003	7041
2/1/2003	5897
3/1/2003	6891
4/1/2003	4688
5/1/2003	8913
6/1/2003	9511
7/1/2003	9938

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Operations Summary Report

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

Spud Date: 01/14/1979
 Start: 04/23/2003 End: 04/30/2003
 Rig Release: 04/30/2003 Group:
 Rig Number: 22

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
04/24/2003	09:30 - 10:00	0.50	SRIG	a	MIRU	ROAD RIG TO LOCATION SPOT RIG, RIG EQUIP., & AIRPACK.
	10:00 - 10:15	0.25	SAFE	a	MIRU	PREJOB SAFETY - RIG MOVE, DAILY JOB ACTIVITY. RIG CREW, AIRHAND, RIG MOVERS, BR REP.
	10:15 - 12:30	2.25	RURD	a	MIRU	RU DRAKE RIG 22, RIG EQUIP., & MOUNTAIN AIR PACKAGE.
	12:30 - 14:30	2.00	NUND	a	OBJECT	CHK PSI TBG @ 82 PSI, CSG @ 94 PSI, LAY 2" LINE TO PIT, BWD, KW, ND TREE, NU BOP, RU FLOOR, & TONGS, PREP TO TOH.
	14:30 - 17:00	2.50	TRIP	a	OBJECT	PULL TBG HNGR, TOH W/ 2 3/8" EUE 4.7# J-55 TBG.
04/25/2003	17:00 - 18:30	1.50	TRIP	a	OBJECT	PU 4 1/2" CIBP ON 2 3/8" EUE 4.7# J-55 TBG, START TBG IN HOLE, TIH W/ 2000' TBG.
	18:30 - 19:00	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, AIRHAND, TOOL HND, BR REP.
	07:15 - 09:00	1.75	TRIP	a	OBJECT	TOH W/ 2 3/8" WRK TBG, TAG FILL @ APPROX 2930', TOH, LD 4 1/2" CIBP.
	09:00 - 11:00	2.00	TRIP	a	OBJECT	PUMU 3 7/8" BIT & WM MILL ON 2 3/8" EUE 4.7# J-55 WRK TBG, TIH. WRK MILL THRU TIGHT AREA 2900'-3000', TIH TO 5100'.
	11:00 - 12:30	1.50	TRIP	a	OBJECT	TOH W/ 2 3/8" WRK TBG, LD BIT & WM MILL
	12:30 - 14:00	1.50	CASE	a	OBJECT	RU BLACK WARRIOR W/L, RUN CCL & GR LOG FROM 4260' - 2700'. SET 4 1/2" CIBP @ 4260'. RD W/L.
	14:00 - 15:30	1.50	PRES	a	OBJECT	RU THREE RIVERS P-TRK, PUMP 600 GAL 15% HCL ACID, LOAD HOLE W/ 2% KCL WTR, PUMU 7" BAKER FB PKR ON 2 JTS 2 7/8" EUE 6.5# L-80 FRC TBG, RIH, SET PKR @ 64', TST CSG @ 3000 PSI-15 MIN. TST OK, RELEASE PSI & PKR, TOH.
	15:30 - 16:30	1.00	PERF	a	OBJECT	RU BWWC W/L, RIH, PERF LEWIS PAY; 3448'-4210', 1 SPF, 25 HOLES, 762' INTERVAL. RD W/L.
04/26/2003	16:30 - 18:30	2.00	FRAC	a	OBJECT	RIH W/ 7" 20# BAKER FB PKR, 2 JTS 2 7/8" 6.5# L-80 FRAC TBG W/ 6' L-80 PUP JT, SET PKR @ 64'. NU CAMERON CIT TOOL & 4" 5000# FRAC VALVE. RU SCHLUMBERGER FRAC EQUIP. 15 MIN PREFRAC MEETING- 28 PEOPLE ON LOCATION. TRY TO BD LEWIS PAY, EST RATE OF 10 BPM 2860 PSI, DROP RATE TO 6 BPM, TRY BRING ON N2, PSI MAX OUT 3050#. SIW. SIW.
	18:30 - 20:00	1.50	NUND	a	OBJECT	RD FRAC EQUIP., RU 2" FB LINE TO BLOW PIT. OPEN WELL ON 24/64 CHK, FWB AS NEEDED. SDSR.
	20:00 - 06:00	10.00	FLOW	a	CLEAN	FWB AS NEEDED.
	06:00 - 06:30	0.50	SRIG	a	PREWRK	ROAD CREW TO LOCATION, START RIG.
	06:30 - 08:00	1.50	PERF	a	OBJECT	ND FB LINE, FRC VALVE, & CIT TOOL, RELEASE 7" BAKER FB PKR, POH. RU BLACK WARRIOR W/L, REPERF LEWIS PAY; 3448'-4210' W/ 1 SPF, ADDITIONAL 25 HOLES, (50 TOTAL HOLES). RD W/L.
	08:00 - 09:00	1.00	NUND	a	OBJECT	RIH W/ 7" BAKER FB PKR, & 2 JTS 2 7/8" EUE 6.5# L-80 TBG & 6' X 2 7/8" N-80 PUP JT, RESET PKR @ 64'. NU CAMERON CIT TOOL, FRAC VALVE, & SCHLUMBERGER FRAC EQUIP., 15 MIN SAFETY MEETING- 28 PEOPLE.
	09:00 - 10:00	1.00	FRAC	a	OBJECT	TEST FRAC LINES TO 4200 PSI, OPEN WELL, PUMP 15% HCL ACID AHEAD, BD LEWIS PAY @ 2380 PSI-20 BPM, EST RATE, FRAC W/ 200,000# ARIZONA 20/40 SND, 1-3 PPG SND CONE, & 686 BBLS 30-20# LINEAR GEL @ 54 BPM- 2550 PSI. MAX OF 57 BPM- 2650 PSI. FG AVER OF .71, DISPLACE W/ 30 FLD BBLS, TOTAL FLD TO RECOVER = 716 FLD BBLS, TOTAL N2= 1,472,100 SCF N2. ISIP= 1560 PSI. SIW.
	10:00 - 11:00	1.00	NUND	a	OBJECT	RD SCHLUMBERGER FRAC EQUIP., NU 2" FB LINE TO BLOW PIT. OPEN WELL ON 16/64 CHK- 1500 PSI. FWB
	11:00 - 06:00	19.00	FLOW	a	OBJECT	FWB AS PER SCHEDULE. 5:00 AM- WELL ON 2" LINE 50 PSI, NO

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Operations Summary Report

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Legal Well Name: HOWELL K #4A
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 Contractor Name: DRAKE WELL SERVICE
 Rig Name: DRAKE

Start: 04/23/2003 Spud Date: 01/14/1979
 Rig Release: 04/30/2003 End: 04/30/2003
 Rig Number: 22 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
04/26/2003	11:00 - 06:00	19.00	FLOW	a	OBJECT	SAND.
04/27/2003	06:00 - 06:00	24.00	FLOW	a	CLEAN	FLOW WELL BACK. 5:00 AM- WELL HAS LIGHT BLOW. SIW/ SD TILL MONDAY 4/28/2003
04/29/2003	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, TOOL HAND, WH MAN, BR REP.
	07:15 - 08:30	1.25	NUND	a	OBJECT	CHK PSI @ 10 PSI ON FB LINE, KW, ND FB LINE, FRC VALVE, & CIT TOOL.. PULL & LD FRC TBG & BKR PKR. PREP TP TIH W/ WRK TBG.
	08:30 - 11:00	2.50	TRIP	a	OBJECT	PUMU 3 7/8" BIT, BIT SUB ON 2 3/8" EUE 4.7# J-55 WRK TBG, TIH W/ 2500' TBG, UNLOAD HOLE W/ AIR, TIH. TAG @ 4262'. CIBP @ 4270'. CO TO & DRILL UP 4 1/2" CIBP. TIH W/ WRK TBG, TAG FILL @ 5125'. CO TO PBTD OF 5214'. 89' FILL.
	11:00 - 15:00	4.00	COUT	a	CLEAN	BLOW W/ AIRMIST TO CLN WELL.
	15:00 - 17:30	2.50	COUT	a	CLEAN	PULL TBG UP, SDSR, BLOW W/ AIRMIST TO CLN WELL. 5:00 AM - RECOVERING APROX 4-6 BWPH, NO SAND.
	17:30 - 06:00	12.50	COUT	a	CLEAN	ROAD CREW TO LOCATION, START RIG.
04/30/2003	06:00 - 07:00	1.00	SRIG	a	PREWRK	PREJOB SAFETY - DAILY JOB ACTIVITY. RIG CREW, AIRHAND, BR REP.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	TIH, TAG PBTD OF 5214' W/ 2' FILL, TOH W/ 2 3/8" EUE 4.7# J-55 WRK TBG, LD 3 7/8" BIT & BIT SUB.
	07:15 - 09:00	1.75	TRIP	a	OBJECT	PUMU 2 3/8" BHA ON 2 3/8" EUE 4.7# J-55 PROD TBG, TIH W/ 1/2 PROD TBG. BROACH TBG, TIH W/ REMAINDER PROD TBG, BROACH TBG. TAG W/ 14' FILL
	09:00 - 11:30	2.50	TRIP	a	OBJECT	CO TO PBTD OF 5214' W/ AIRMIST.
	11:30 - 14:00	2.50	COUT	a	CLEAN	PULL TBG UP, LND @ 5130' W/ 163 TOTAL JTS, 1.78 STD SN @ 5128'. RD 4" B-LINE, TONGS, & FLOOR. IND BOP, NU TREE. RU AIRPACK, PUMP OFF EXPENDABLE CHECK.
	14:00 - 16:00	2.00	NUND	a	OBJECT	BLOW WELL AROUND W/ AIR, PREP TO RD SR.
	16:00 - 18:00	2.00	CIRC	a	OBJECT	FLOW WELL BACK UP TBG NATURAL, ASSIST W/ AIR AS NEEDED. 5:00 AM - FINAL PITOT @ 2 OZ. = 217 MCF.
05/01/2003	18:00 - 06:00	12.00	FLOW	a	OBJECT	ROAD CREW TO LOCATION, START RIG.
	06:00 - 07:00	1.00	SRIG	a	PREWRK	PREJOB SAFETY - RIG SAFETY. RIG CREW, AIRHAND, BR REP.
	07:00 - 07:15	0.25	SAFE	a	PREWRK	CHK FINAL PITOT @ 217 MCF ON 2" LINE. SIW, RD 2" FB LINE, RD DRAKE RIG 22, RIG EQUIP., & AIR PACKAGE. PREP TO MOVE.
	07:15 - 09:00	1.75	RURD	a	RDMO	4/30/2003 - 9:00 AM - RELEASE DRAKE RIG 22, RIG EQUIP., & MOUNTAIN AIR PACKAGE. LAND TBG @ 5130' W/ 163 JTS 2 3/8" EUE 4.7# J-55 PROD TBG. 1.78 STD SN @ 5128'. TRANSFER 14 JTS 2 3/8" TBG, 2 FRC BR TNKS, # 424 & 429 TO HOWELL 'K' #4 BY M&R TRUCKING. TOTAL FUEL USED, AIRPACK = 1046 GAL.
05/01/2003	09:00 -		RURD	a	RDMO	SUMMARY; MIRU SR, BVD, NDNU, TOH W/ PROD TBG, SET CIBP, SPOT ACID, TST CSG, LOG WELL, ADD LEWIS PAY, FRC WELL, FWB, CO & DRILL OUT TO PBTD. TIH W/ PROD TBG, LND TBG, NDNU, RDMO SR TO HOWELL 'K' #4. PBTD @ 5214', 7" 20/23# CSG, 4 1/2" 10.5# LINER TOP @ 2725'. PERFS: 3448'- 4869'.
						5/1/2003- 7:00 AM RETURN TO LOCATION, CHK FOR FENCE UP, CLN LOCATION, & NO SPILLS. NO OVERSPRAY.