

New Mexico
Energy Minerals and Natural Resources Department

Form C-140
Revised 06/99

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

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

I. Operator and Well

Operator name address Burlington Resources Oil and Gas Co. LP Box 4289, Farmington, NM 87499				OGRID Number 014538	
Contact Party Peggy Cole				Phone 505/326-9700	
Property Name LARGO FEDERAL			Well Number 100		API Number 3004530509
UL L	Section 34	Township 29 N	Range 9 W	Feet From The 1320 FSL	Feet From The 1230 FWL
					County SAN JUAN

II. Workover

Date Workover Commence 10/15/2002	Previous Producing Pool(s) (Prior to Workover): BASIN FRUITLAND COAL (GAS)
Date Workover Completed: 10/23/2002	

- 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>Peggy Cole</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>Peggy Cole</u>	Title <u>Regulatory Administrator</u> Date <u>6-4-03</u>
SUBSCRIBED AND SWORN TO before me this <u>4th</u> day of <u>June</u> , <u>2003</u>	
My Commission expires: <u>September 15, 2004</u>	
Notary Public <u>Nancy Altman</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 10-23-2002.

Signature District Supervisor <u>Chuck Stern</u>	OCD District <u>AZTEC III</u>	Date <u>06-30-2003</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

REG_DTL_D	BASIN FRUITLAND COAL (GAS)
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11/1/2001	463
12/1/2001	766
1/1/2002	762
2/1/2002	757
3/1/2002	886
4/1/2002	756
5/1/2002	751
6/1/2002	634
7/1/2002	747
8/1/2002	655
9/1/2002	648
10/1/2002	953
11/1/2002	1984
12/1/2002	1988
1/1/2003	2086

BURLINGTON RESOURCES DIVISIONS

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Operations Summary Report

Legal Well Name: LARGO FEDERAL #100
 Common Well Name: LARGO FEDERAL #100
 Event Name: CAP WORKOVER
 Contractor Name: AZTEC WELL SERVICE
 Rig Name: AZTEC

Spud Date: 05/17/2001
 Start: 10/15/2002 End: 10/23/2002
 Rig Release: 10/23/2002 Group:
 Rig Number: 521

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
10/16/2002	07:00 - 10:00	3.00	MIMO	a	OBJECT	ROAD UNIT TO LOCATION.
	10:00 - 13:30	3.50	MIMO	a	OBJECT	MIRUPU, AZTEC WELL SERVICE, RIG #521.
	13:30 - 13:45	0.25	NUND	a	OBJECT	ND WH, NU BOP.
	13:45 - 14:30	0.75	RURD	a	OBJECT	RU FLOW LINE TO PIT.
	14:30 - 15:00	0.50	RURD	a	OBJECT	RU FLOOR.
	15:00 - 15:45	0.75	TRIP	a	OBJECT	POOH & TALLY 68 JTS 2 3/8" TBG.
	15:45 - 16:45	1.00	WIRE	a	OBJECT	RU BASIN WIRELINE, RIH W/ 3 1/8" PERF GUN, TAG @ 2090', RD WL.
10/17/2002	16:45 - 17:30	0.75	TRIP	a	OBJECT	TIH W/ 2 3/8" TBG, SET @ 2070'.
	17:30 - 17:45	0.25	RURD	a	OBJECT	RU TO CIRC.
	17:45 - 18:00	0.25	SRIG	a	OBJECT	CLOSE IN, LOCK RAMS, SDFN.
	07:30 - 08:00	0.50	SRIG	a	OBJECT	START & SERVICE UNIT.
	08:00 - 09:00	1.00	CIRC	a	OBJECT	CIRC SAND FILL F/ 2090' TO PBTD @ 2155', CIRC CLEAN.
	09:00 - 09:45	0.75	TRIP	a	OBJECT	POOH W/ 2 3/8" TBG.
	09:45 - 10:30	0.75	WIRE	a	OBJECT	RU BASIN WIRELINE, RE-PERF FC W/ 3 1/8" HSC GUN, 90 DEG PHASING, .30" SHOT DIA, F/ 2113'-23', 2042'-45', & 1958'-62', 4 HPF, RD WL CO.
10/18/2002	10:30 - 11:15	0.75	PCKR	a	OBJECT	SET 4 1/2" FULLBORE PKR @ 30' ON 2 7/8" N80 TBG, NU SAFETY FLANGE, RU FRAC VALVE.
	11:15 - 15:00	3.75	WAIT	a	OBJECT	WAIT ON FRAC CREW, PREP FOR AM FRAC, SDFD.
	06:00 - 09:30	3.50	RURD	a	OBJECT	RU DOWELL SCHLUMBERGER TO FRAC DOWN 4 1/2" CSG.
	09:30 - 10:30	1.00	STIM	a	OBJECT	FRAC FC W/ 30# X-LINK 70% N2 FOAM, EST INJ RATE 16.5 BPM @ 885 PSI, BULLHEAD 1500 GAL 15% HCL ACID ON LEAD OF FRAC, PUMPED 100,000# 20/40 AZ SAND, 858,200 SCF N2, AVE PRESS=2955 PSI, MAX PRESS=3980 PSI, AVE RATE=58 BPM, MAX RATE=60 BPM, ISDP=2504 PSI, LTR=740 BBL.
	10:30 - 13:00	2.50	STIM	a	OBJECT	WELL SHUT IN FOR GEL BREAK, RD FRAC EQUIPMENT.
10/19/2002	13:00 - 06:00	17.00	FLOW	a	OBJECT	SICP=1000 PSI, OPEN TO PIT THRU POS CHOKE, 1/8"-1/4" CHOKE, RETURNING LT SAND W/ HEAVY TO MOD SPRAY.
	06:00 - 10:30	4.50	FLOW	a	OBJECT	FLOWING TO PIT THRU 1/2" POS CHOKE, RETURNING LT SAND, HEAVY TO MOD SPRAY.
	10:30 - 10:45	0.25	KILL	a	OBJECT	KILL WELL W/ 10 BBL 2% KCL WATER.
	10:45 - 11:00	0.25	PULD	a	OBJECT	RD FRAC VALVE, RELEASE & LD 4 1/2" PKR.
	11:00 - 11:30	0.50	TRIP	a	OBJECT	TIH W/ 2 3/8" EXP CK, ON 2 3/8" TBG, TAG SAND FILL @ 2074'.
	11:30 - 14:00	2.50	CIRC	a	OBJECT	CIRC & CO SAND FILL TO PBTD @ 2155', RETURNING MOD SAND, 14 BPH LOAD WATER, PULL TBG TO 2130'.
	14:00 - 06:00	16.00	CIRC	a	OBJECT	CIRC W/ AIR, RETURNING MOD SAND, 9 BPH WATER, AVE DISCHARGE PRESS @ 200 PSI.
10/20/2002	06:00 - 06:00	24.00	CIRC	a	OBJECT	CIRC W/ AIR @ 2130', RETURNING LT SAND, (ONE CUP W/ 5 GAL WATER), 3 BPH LOAD WATER, DISCHARGE PRESS @ 200 PSI.
10/21/2002	06:00 - 06:00	24.00	CIRC	a	OBJECT	CIRC W/ AIR @ 2130', RETURNING MOD TO LT SAND, 1.6 BPH LOAD WATER, DISCHARGE PRESS @ 200 PSI.
10/22/2002	06:00 - 07:00	1.00	FLOW	a	OBJECT	TRAVEL TO LOCATION, SERVICE & START RIG
	07:00 - 07:30	0.50	SAFE	a	OBJECT	HSM, TOPIC: VISUAL INSPECTION OF DRAW WORDS SHOULD BE MADE EACH DAY, RIG CREW & RIG SUPERVISOR PRESENT
	07:30 - 06:00	22.50	CIRC	a	OBJECT	DAILY RIG INSPECTION ITEMS: CLOSE LOOK AT DRAW WORKS DRUM REPLACED SEVERAL BOLTS ON DRILL LINE DRUM FLANGE INSPECT MAIN CHAIN FOR WEAR ALL GUARDS & COVERS IN PLACE WATER SAMPLE TO DOWELL, FRAC FLUID RIH & TAG 15' SAND, CO TO PBTD, CIRC W/ AIR

BURLINGTON RESOURCES DIVISIONS

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Operations Summary Report

Legal Well Name: LARGO FEDERAL #100
 Common Well Name: LARGO FEDERAL #100
 Event Name: CAP WORKOVER
 Contractor Name: AZTEC WELL SERVICE
 Rig Name: AZTEC

Spud Date: 05/17/2001
 Start: 10/15/2002 End: 10/23/2002
 Rig Release: 10/23/2002 Group:
 Rig Number: 521

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
10/22/2002	07:30 - 06:00	22.50	CIRC	a	OBJECT	1000 HRS, 125 PSI, 1.4 BPH WTR, HEAVY SD 1200 HRS, 125 PSI, 1.3 BPH WTR, HEAVY SD 1300 HRS, FLOW NATURAL, SURGING WTR 1400 HRS, 125 PSI, 1.6 BPH WTR, MODERATE SD 1700 HRS, 115 PSI, 1.4 BPH WTR, MODERATE SD 1800 HRS, FLOW NATURAL, SURGING WTR 1900 HRS, 125 PSI, 1.6 BPH WTR, MODERATE SD 2300 HRS, 115 PSI, 1.4 BPH WTR, MODERATE SD 0400 HRS, 110 PSI, 1.4 BPH WTR, LITE
10/23/2002	06:00 - 07:00	1.00	FLOW	a	OBJECT	TRAVEL TO LOCATION, SERVICE & START RIG
	07:00 - 07:30	0.50	SAFE	a	OBJECT	HSM, TOPIC: HOUSEKEEPING, KEEP TRASH PICKED UP AROUND LOCATION & ON INTO LOCATION ROAD, RIG CREW & RIG SUPERVISOR PRESENT DAILY RIG INSPECTION ITEMS: POWER TONGS & HYDRAULICS HYDRAULIC HOSE LEAKING, WILL REPLACE POWER TONGS CLEAN
10/24/2002	07:30 - 06:00	22.50	CIRC	a	OBJECT	RIH & TAG 6' SAND, CO TO PBTD, CIRC W/ AIR 0800 HRS, 105 PSI, 1.1 BPH WTR, HEAVYSD 0900 HRS, FLOW NATURAL, SURGING WTR 1000 HRS, 100 PSI, .9 BPH WTR, HEAVY SD 1300 HRS, FLOW NATURAL, SURGING WTR 1400 HRS, 95 PSI, .7 BPH WTR, HEAVY SD 1700 HRS, FLOW NATURAL, SURGING WTR 1800 HRS, 90 PSI, .5 BPH WTR, MODERATE SD 2100 HRS, FLOW NATURAL, SURGING WTR 2200 HRS, 90 PSI, .5 BPH WTR, MODERATE SD 0100 HRS, FLOW NATURAL, SURGING WTR 0200 HRS, 90 PSI, .5 BPH WTR, MODERATE SD 0500 HRS, FLOW NATURAL, SURGING WTR
	06:00 - 07:00	1.00	FLOW	a	OBJECT	TRAVEL TO LOCATION, SERVICE & START RIG
	07:00 - 07:30	0.50	SAFE	a	OBJECT	HSM, TOPIC: HOUSEKEEPING, GUY WIRE INSPECTION, RIG CREW & RIG SUPERVISOR PRESENT
	07:30 - 08:30	1.00	CIRC	a	OBJECT	RIH & TAG 6' SAND, CO TO PBTD, CIRC W/ AIR, .5 BPH WTR, MOD SD, GAS TSTM
	08:30 - 09:00	0.50	TEST	a	OBJECT	PITOT ON 2" LINE, TSTM, LITE BLOW
	09:00 - 09:30	0.50	BRCH	a	OBJECT	BROACH TBG
	09:30 - 10:00	0.50	NUND	a	OBJECT	ND BOP, LAND 68 JTS @ 2123.28' W SEATING NIPPLE 1 JT OFF BTM OF TBG & EXPENDABLE CHECK ON BTM, NU WH
	10:00 - 10:30	0.50	PUMP	a	OBJECT	DROP BALL & PUMP OFF X-CHECK @ 1500 PSI, REVERSE FLOW, CLEAR TBG
	10:30 - 11:30	1.00	TEST	a	OBJECT	PITOT TBG ON 2" LINE, 1 OZ, 158 MCFD, DRY
	11:30 - 13:00	1.50	RURD	a	OBJECT	RD RIG & EQUIPMENT, MOVE TO LIVELY 17
						SUMMARY: MIRU, TOOH W TBG, RU WIRELINE, TAG FILL @ 2090', TIH W TBG & CO TO PBTD, RIH W WIRELINE & PERF FT COAL, RD WIRELINE, FRAC FT COAL, FLOW BACK FRAC, TIH W TBG & CLEAN UP, GAUGE WELL TSTM, LAND TBG @ 2123.28', PUMP X-CHECK, PITOT TBG @ 158 MCFD, RDMO
						10/26/2002, POST JOB INSPECTION, ALL FENCE UP & IN GOOD

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Legal Well Name: LARGO FEDERAL #100
Common Well Name: LARGO FEDERAL #100
Event Name: CAP WORKOVER
Contractor Name: AZTEC WELL SERVICE
Rig Name: AZTEC

Start: 10/15/2002
Rig Release: 10/23/2002
Rig Number: 521

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
10/24/2002	11:30 - 13:00	1.50	RURD	a	OBJECT	SHAPE. LOCATION CLEAN