

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 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 HARE			Well Number 22A		API Number 3004523454	
UL I	Section 14	Township 29 N	Range 10 W	Feet From The 1850 FSL	Feet From The 900 FEL	County SAN JUAN

II. Workover

Date Workover Commence 5/26/2004	Previous Producing Pool(s) (Prior to Workover): AZTEC PICTURED CLIFFS (GAS) BLANCO MESAVERDE
Date Workover Completed: 6/4/2004	

- 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>2/2/05</u>
SUBSCRIBED AND SWORN TO before me this <u>2nd</u> day of <u>February</u> <u>2005</u>	
Notary Public	
My Commission expires: <u>September 22, 2008</u> <u>Nancy Oltmann</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 6-4-2004.

Signature District Supervisor <u>Charles Kern</u>	OCD District <u>AZTEC III</u>	Date <u>2-7-05</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

HARE

22A

3004523454

REG_DTL_D	AZTEC PICTURED CLIFFS (GAS)	BLANCO MESAVERDE
6/1/2003	825	1238
7/1/2003	764	1145
8/1/2003	744	1115
9/1/2003	696	1044
10/1/2003	706	1059
11/1/2003	704	1056
12/1/2003	662	992
1/1/2004	640	961
2/1/2004	626	939
3/1/2004	599	899
4/1/2004	582	873
5/1/2004	625	937
6/1/2004	1565	2347
7/1/2004	1820	2730
8/1/2004	1677	2516
9/1/2004	1663	2494

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Operations Summary Report

Legal Well Name: HARE #22A

Common Well Name: HARE #22A

Event Name: CAP WORKOVER

Contractor Name: AZTEC WELL SERVICE

Rig Name: AZTEC

Spud Date: 03/15/1979

End: 06/04/2004

Start: 05/26/2004

Rig Release: 06/04/2004

Group:

Rig Number: 521

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/27/2004	06:00 - 06:30	0.50	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG
	06:30 - 07:00	0.50	SAFE	a	OBJECT	HSM, TOPIC: WORKING AROUND HEAVY EQUIPMENT DURING RIG MOVE, RIG CREW PRESENT
	07:00 - 11:00	4.00	MIMO	a	OBJECT	ROAD RIG TO LOCATION, SPOT IN EQUIPMENT
	13:00 - 13:30	0.50	BLOW	a	OBJECT	SICP 120 PSI, SITP 60 PSI, BRADENHEAD OPEN, BLOW WELL TO FLOW BACK TANK
	13:30 - 14:00	0.50	NUND	a	OBJECT	ND WH, NU BOP
05/28/2004	14:00 - 16:00	2.00	TRIP	a	OBJECT	TOOH & TALLY 142 JTS TBG, 2' PUP 1 JT OF BTM, SEATING NIPPLE ON BTM
	18:15 - 18:30	0.25	NUND	a	OBJECT	NU BLOOIE LINE, SECURE LOCATION, SDFN
	06:00 - 06:15	0.25	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:15 - 06:30	0.25	SAFE	a	OBJECT	HSM, TOPIC: WORKING WIRELINE CREW, RIG CREW PRESENT, SIWHP 130 PSI, BRADENHEAD OPEN
	06:30 - 07:30	1.00	WIRE	a	OBJECT	RU BLUE JET SET CIBP @ 3940', POOH W SETTING TOOL
	07:30 - 08:30	1.00	PERF	a	OBJECT	RIH W & PERFORATE FROM 2243' TO 2273' W TITAN SRS (0.43" DIAMETER, 19.09" PENETRATION, 19 GRAM CHARGES) 1 SPF, 120 DEGREE PHASING, (30' AND 31 HOLES), RD BLUE JET
	08:30 - 09:00	0.50	PUMP	a	OBJECT	PUMP 35 BBL 2% KCL TO LOAD HOLE BETWEEN CIBP & BTM PC PERFORATION
	09:00 - 09:30	0.50	TRIP	a	OBJECT	PU & TIH W 7" PKR, SET @ 2365'
	09:30 - 10:00	0.50	TEST	a	OBJECT	PRES TEST CSG & CIBP TO 2000 PSI, TEST OK
	10:00 - 10:15	0.25	PCKR	a	OBJECT	TOOH W 2 STDS & SET PKR @ 2225'
	10:15 - 11:00	0.75	PUMP	a	OBJECT	LOAD BACK SIDE OF CSG W 80 BBL 2% KCL
	11:00 - 11:30	0.50	TEST	a	OBJECT	PRESSURE TEST CSG TO 2000 PSI, TEST OK
	11:30 - 12:30	1.00	PCKR	a	OBJECT	ATTEMPT TO RELEASE 7" PKR, BACK TBG OFF, TOOH W 39 JTS TBG
	12:30 - 14:15	1.75	FISH	a	OBJECT	PU & TIH W OVERSHOT TO CATCH 2.375" COUPLING, ENGAGE FISH, RELEASE PKR
	14:15 - 15:15	1.00	TRIP	a	OBJECT	TOOH W OVERSHOT, TBG & 7" PKR
05/29/2004	15:15 - 16:30	1.25	NUND	a	OBJECT	TIH & SET 7" PACKER @ 20', NU FRAC EQUIP, SECURE LOCATION, SDFN
	06:00 - 06:30	0.50	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:30 - 07:00	0.50	SAFE	a	OBJECT	HSM. WORKING WITH STIMULATION CONTRACTORS
	07:00 - 09:00	2.00	WAIT	a	OBJECT	WAIT ON RESTIMULATION EQUIPMENT
	09:00 - 09:15	0.25	SAFE	a	OBJECT	SCHLUMBERGER JHA,s ON HOW TO SPOT EQUIPMENT ON LOCATION SAFELY
	09:15 - 10:15	1.00	RURD	a	OBJECT	MOVE IN, SPOT & RU SCHLUMBERGER
	10:15 - 10:30	0.25	SAFE	a	OBJECT	HOLD SAFETY MEETING W 23 PEOPLE, DISCUSS SAFETY REGULATIONS, REVIEW EMERGENCY RESPONSE
	10:30 - 11:15	0.75	STIM	a	OBJECT	RESTIM PICURED CLIFF W 20# LINEAR & 70% N2 FOAM FRAC LOAD 275 BBLs, FLUSH 34 BBLs, TOTAL LOAD 309 BBLs
						TOTAL N2 315,100 SCF, 100,000# 20/40 ARIZONA SAND
						MAX 1389 PSI, MIN 1182 PSI, AVE 1345 PSI
						MAX RATE 45, MIN RATE 40, AVE RATE 43
						ISIP 1040 PSI
	11:15 - 11:45	0.50	RURD	a	OBJECT	RD SCHLUMBERGER, RU FLOW BACK LINES
	11:45 - 12:00	0.25	SAFE	a	OBJECT	SCHLUMBERGER POST JOB SAFETY MEETING
	12:00 - 06:00	18.00	FLOW	a	OBJECT	1200 HR, SHUT IN WELLHEAD 680 PSI, OPEN ON 16/64 CHOKE
						1230 HR, 400 PSI, DRY N2, CHANGE TO 24/64 CHOKE
						1300 HR, 180 PSI, DRY N2, CHANGE TO 32/64 CHOKE
						1330 HR, 120 PSI, DRY N2, CHANGE TO 48/64 CHOKE

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Operations Summary Report

Legal Well Name: HARE #22A

Common Well Name: HARE #22A

Event Name: CAP WORKOVER

Contractor Name: AZTEC WELL SERVICE

Rig Name: AZTEC

Start: 05/26/2004

Rig Release: 06/04/2004

Rig Number: 521

Spud Date: 03/15/1979

End: 06/04/2004

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/29/2004	12:00 - 06:00	18.00	FLOW	a	OBJECT	1400 HR, 100 PSI, 48/ 64 CHOKE, HF, NS 1500 HR, 80 PSI, 48/64 CHOKE, HF, NS 1600 HR, 60 PSI, 48/64 CHOKE, HF, NS 1700 HR, 0-50 PSI SURGING, 48/64 CHOKE, HF, NS 1800 HR, 0-40 PSI SURGING, 48/64 CHOKE, HF, NS 1900 HR, 0-20 PSI, SURGING 48/64 CHOKE, 5-8 BPH FOAMY WTR,NS 2000 HR, 0-20 PSI, SURGING 48/64 CHOKE, 3-5 BPH FOAMY WTR,NS 2400 HR, 0-5 PSI, SURGING 48/64 CHOKE, 1-3 BPH FOAMY WTR,NS 0500 HR, 0-5 PSI, SURGING 48/64 CHOKE, 1-3 BPH FOAMY WTR,NS
06/02/2004	06:00 - 06:30	0.50	MIMO	a	OBJECT	SHUT IN WELL, HAULED 160 BBL FLUID TO DISPOSAL CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:30 - 07:00	0.50	SAFE	a	OBJECT	HSM, SAFE OPERATIONS DURING PACKER WORK, RIG CREW PRESENT
	07:00 - 07:30	0.50	BLOW	a	OBJECT	SIWHP 180 PSI, BLOW WELL TO FLOW BACK TANK
	07:30 - 08:00	0.50	KILL	a	OBJECT	KILL WELL W 40 BBL 2% KCL
	08:00 - 09:30	1.50	NUND	a	OBJECT	ND FRAC VALVE, FRAC MANDREL & PACKER, NU BLOW LINE TO FLOW BACK TANK
	09:30 - 10:30	1.00	TRIP	a	OBJECT	TIH W 3.875" MILL ON 2.375" TBG TO 2300' (BELOW PC PERFS)
	10:30 - 11:00	0.50	CIRC	a	OBJECT	EST CIRC W 1200 CFM AIR, BLOW WELL TO FLOW BACK TANK
	11:00 - 06:00	19.00	BLOW	a	OBJECT	1100 HR, 800 CFM AIR, LS, 10-12 BPH WTR 1400 HR, 650 CFM AIR, NS, 8-10 BPH WTR 1600 HR, 650 CFM AIR, NS, 6-8 BPH WTR 1800 HR, 650 CFM AIR, NS, 4-6 BHP WTR 2000 HR, 650 CFM AIR, NS, 3-5 BHP WTR 2200 HR, 650 CFM AIR, NS, 3-5 BHP WTR 2400 HR, 650 CFM AIR, NS, 2-4 BHP WTR 0200 HR, 650 CFM AIR, NS, 2-4 BHP WTR 0400 HR, 650 CFM AIR, NS, 1-3 BHP WTR 0500 HR, 650 CFM AIR, NS, 1-3 BHP WTR
06/03/2004	06:00 - 06:15	0.25	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:15 - 06:30	0.25	SAFE	a	OBJECT	HSM, PICKING UP & WORKING WITH POWER SWIVEL, RIG CREW PRESENT
	06:30 - 07:00	0.50	FLOW	a	OBJECT	FLOW WELL NATURAL
	07:00 - 08:00	1.00	TEST	a	OBJECT	PITOT PICTURED CLIFF @ 12 OZ, 539 MCFD DRY
	08:00 - 08:45	0.75	TRIP	a	OBJECT	TIH & TAG FILL @ 3810'
	08:45 - 10:30	1.75	COUT	a	OBJECT	EST CIRC W 1200 CFM AIR, CO TO CIBP @ 3940'
	10:30 - 12:00	1.50	MILL	a	OBJECT	MILL CIBP W 1200 CFM AIR & 12 BPH MIST, MILL CIBP IN 45 MINS
	12:00 - 12:30	0.50	TRIP	a	OBJECT	TIH W MILL TO 4780'
	12:30 - 14:00	1.50	COUT	a	OBJECT	EST CIRC W 1200 CFM AIR, CO TO PBTD @ 4800'
	14:00 - 15:15	1.25	TRIP	a	OBJECT	TOOH & LD MILL ASSY
	15:15 - 16:30	1.25	TRIP	a	OBJECT	PU & TIH W EXPENDABLE CHECK. SEATING NIPPLE, 1 JT 2.375" TBG, 2' X 2.375" PUP JT, 148 JTS 2.375" TBG, BROACH TBG GOING IN HOLE
	16:30 - 17:00	0.50	BLOW	a	OBJECT	EST CIRC W 1200 CFM AIR, CO TO PBTD
	17:00 - 06:00	13.00	BLOW	a	OBJECT	BLOW W AIR/MIST 1700 HR, 930 CFM, MS, 5 BPH 1800 HR, 930 CFM, TS, 4 BPH

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Operations Summary Report

Legal Well Name: HARE #22A

Common Well Name: HARE #22A

Event Name: CAP WORKOVER

Contractor Name: AZTEC WELL SERVICE

Rig Name: AZTEC

Spud Date: 03/15/1979

End: 06/04/2004

Start: 05/26/2004

Rig Release: 06/04/2004

Rig Number: 521

Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
06/03/2004	17:00 - 06:00	13.00	BLOW	a	OBJECT	2100 HR, 830 CFM, TS, 3 BPH 2400 HR, 830 CFM, NS, 2 BPH 0300 HR, 830 CFM, NS, 2 BPH 0500 HR, 830 CFM, NS, 2 BPH
06/04/2004	06:00 - 06:15	0.25	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:15 - 06:30	0.25	SAFE	a	OBJECT	HSM, HOUSEKEEPING ON LOCATION, RIG CREW PRESENT
	06:30 - 07:00	0.50	TRIP	a	OBJECT	TIH & TAG FILL, PULL UP HOLE TO 4700'
	07:00 - 07:30	0.50	FLOW	a	OBJECT	FLOW WELL NATURAL
	07:30 - 09:00	1.50	TEST	a	OBJECT	PITOT WELL @ 21 OZ, 707 MCFD DRY
	09:00 - 17:00	8.00	FLOW	a	OBJECT	FLOW WELL NATURAL, TIH & TAG FOR FILL EVERY 2 HR, CO TO PBTD
06/05/2004	17:00 - 06:00	13.00	FLOW	a	OBJECT	FLOW WELL UP CSG, LIGHT MIST, NO SAND
	06:00 - 06:15	0.25	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION, SERVICE & START RIG, CREW LEFT AWS YARD @ 0530 HRS
	06:15 - 06:30	0.25	SAFE	a	OBJECT	HSM, PUMPING EXPENDABLE CHECKS, RIG CREW PRESENT
	06:30 - 10:00	3.50	FLOW	a	OBJECT	FLOW WELL NATURAL
	10:00 - 10:30	0.50	BRCH	a	OBJECT	BROACH SECOND HALF TBG
	10:30 - 11:15	0.75	NUND	a	OBJECT	LAND TBG AS FOLLOWS: EXPENDABLE CHECK, SEATING NIPPLE, 1 JT 2.375" J-55 TBG, 2' X 2.375" J-55 PUP JT & 141 JTS 2.375" J-55 TBG @ 4536.89' (142 JTS TBG TOTAL), ND BOP, NU WH
	11:15 - 12:00	0.75	PUMP	a	OBJECT	DROP BALL & PUMP EXPENDABLE CHECK @ 400 PSI, REVERSE FLOW UP TBG
	12:00 - 13:00	1.00	FLOW	a	OBJECT	FLOW WELL TO FLOW BACK TANK
	13:00 - 13:30	0.50	RURD	a	OBJECT	RD RIG & EQUIPMENT
						WELL SUMMARY: MIRU, TOO H W TBG, RU BLUE JET, RIH & SET 4 1/2" CIBP @ 3940', REPERFORATE FROM 2243' 2273' IN THE PC ZONE, TIH W 7" PACKER, SET @ 2365', PRES TEST CSG FROM 2365' TO 3940' & CIBP TO 2000 PSI, PULL UP HOLE SET PACKER @ 2225', PRES TEST CSG ABOVE 2225' TO 2000 PSI, TOO H W PACKER, TIH & SET PACKER @ 20', NU FRAC MANDREL, FRAC VALVE & FRAC Y RESTIMULATE PC W SCHLUMBERGER, FLOW WELL BACK PC, TIH & CO TO BELOW PC PERFS, PITOT PC @ 539 MCFD, TIH & MILL CIBP, CO TO PBTD, TOO H W MILL ASSY, TIH W PROD TBG, PITOT WELL ON CSG @ 707 MCFD, LAND 142 JTS TBG @ 4536.89', ND BOP, NU WH, PUMP EXPENDABLE CHECK, REVERSE UP TBG, FLOW WELL ON TBG TO FLOW BACK TANK, RD MO