

New Mexico  
Energy Minerals and Natural Resources Department

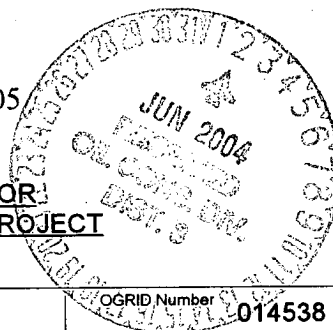
Form C-140  
Revised 06/99

**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 <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>LUTHY A</b>				Well Number <b>4</b>		API Number <b>3004526613</b>	
UL	Section	Township	Range	Feet From The	Feet From The	County	
G	01	26 N	8 W	2250 FNL	1610 FEL	SAN JUAN	

**II. Workover**

Date Workover Commence <b>12/10/2003</b>	Previous Producing Pool(s) (Prior to Workover): <b>BLANCO MESAVERDE</b>
Date Workover Completed: <b>12/19/2003</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> )	
) ss.	
County of <u>San Juan</u> )	
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>6-1-04</u>
SUBSCRIBED AND SWORN TO before me this <u>1st</u> day of <u>June</u> , <u>2004</u> .	
Notary Public	
My Commission expires: <u>September 15, 2004</u> <u>Nancy Oltmanns</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 12/19/03.

Signature District Supervisor	OCD District <u>27.8</u> <b>SUPERVISOR DISTRICT #3</b>	Date
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**VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:**

JUN 02 2004

**LUTHY A 4****3004526613****72319****72439****REG\_DTL\_DT GAS\_PROD GAS\_PROD**

01-Apr-01	165	
01-May-01	716	
01-Jun-01	754	
01-Jul-01	1130	
01-Aug-01	337	
01-Sep-01	119	
01-Oct-01	123	
01-Nov-01	119	
01-Dec-01	123	
01-Jan-02	123	
01-Feb-02	111	
01-Mar-02	52	
01-Apr-02	0	
01-May-02	0	
01-Jun-02	0	
01-Jul-02	0	
01-Aug-02	0	
01-Sep-02	0	
01-Oct-02	0	
01-Nov-02	0	
01-Dec-02	0	
01-Jan-03	0	
01-Feb-03	0	
01-Mar-03	0	
01-Apr-03	0	
01-May-03	0	
01-Jun-03	0	
01-Jul-03	0	
01-Aug-03	0	
01-Sep-03	0	
01-Oct-03	0	
01-Nov-03	0	
01-Dec-03	0	
01-Jan-04	0	2822
01-Feb-04	0	2342
01-Mar-04	0	2701

## BURLINGTON RESOURCES DIVISIONS

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## Operations Summary Report

Legal Well Name: LUTHY A #4  
 Common Well Name: LUTHY A #4  
 Event Name: CAP WORKOVER  
 Contractor Name: AZTEC WELL SERVICE  
 Rig Name: AZTEC

Start: 12/10/2003  
 Rig Release: 12/19/2003  
 Rig Number: 485

Spud Date: 12/14/1985  
 End: 12/19/2003  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
12/11/2003	12:00 - 13:30	1.50	MIMO	a	OBJECT	ROAD RIG TO LOCATION. 32 MILE MOVE
	13:30 - 14:30	1.00	RURD	a	OBJECT	RIG UP # 485
	14:30 - 15:00	0.50	RURD	a	OBJECT	MOVE PUMP JACK BACK 4'.
	15:00 - 16:45	1.75	MIMO	a	OBJECT	MOVE IN & SPOT AIR PACKAGE, TANK, PUMP, 400 BBL TANK, BLOOIE LINE PADS, & CAT WALK.
12/12/2003	16:45 - 17:00	0.25	SHDN	a	OBJECT	SHUT WELL IN, SECURE LOCATION, SHUT DOWN FOR NIGHT.
	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - HOUSE KEEPING, PPE
	07:30 - 10:30	3.00	PULD	a	OBJECT	WORK STUCK PUMP, PULLED FREE W/ 25,000#, LAY DOWN POLISHED ROD & 193 3/4" SUCKER RODS &
	10:30 - 11:45	1.25	NUND	a	OBJECT	NIPPLE DOWN WELL HEAD, NIPPLE UP BOP, RIG UP FLOOR.H
	11:45 - 12:30	0.75	TRIP	a	OBJECT	TRIP OUT W/ 151 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	12:30 - 13:15	0.75	CASE	a	OBJECT	RIG UP BLACK WARRIOR, RUN IN & SET 4-1/2" CIBP @ 3,930'
	13:15 - 14:15	1.00	CASE	a	OBJECT	FILL CASING W/ 120 BBLs 2% KCL, REFILL AFTER GAS WORKED OUT.
	14:15 - 16:00	1.75	CASE	a	OBJECT	LOG W/ CCL/GR/CBL IN 1 RUN FROM 2,500' TO SURFACE. TOP OF CEMENT @ SURFACE.
12/13/2003	16:00 - 16:45	0.75	TEST	a	OBJECT	FILL CASING, PRESS TEST CASING W/ RIG PUMP TO 2,500 PSI. 30 MIN TEST - OK.
	16:45 - 17:00	0.25	SHDN	a	OBJECT	SHUT WELL IN, DRAIN PUMP & LINES, SECURE LOCATION, SHUT DOWN FOR NIGHT.
	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - SLICK CONDITIONS.
	07:30 - 08:00	0.50	TRIP	a	OBJECT	TRIP IN TO 2,200' W/ 73 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	08:00 - 08:30	0.50	BLOW	a	OBJECT	BLOW W/ 850 SCF/M AIR @ 450 PSI TO DRY UP CASING.
	08:30 - 09:00	0.50	TRIP	a	OBJECT	TRIP OUT W/ 73 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	09:00 - 10:30	1.50	PERF	a	OBJECT	PERF PICTURED CLIFFS IN 3 RUNS W/ 4" HSC CSG GUN LOADED W/ OWEN 316 0.44" DIA CHARGES, RUN #1 - 2,342' - 2,344' W/ 3 PERFS @ 1 SPF & 2,322' - 2,330' W/ 9 PERFS @ 1 SPF @ 120 DEGREE PHASING, RUN # 2 - 2,274' - 2,294' W/ 21 PERFS @ 1 SPF @ 120 DEGREE PHASING, RUN # 3 - 2,248' - 2,261' @ 1 SPF @ 120 DEGREE PHASING.
	10:30 - 11:00	0.50	TRIP	a	OBJECT	TRIP IN HOLE W/ 80 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	11:00 - 13:00	2.00	BLOW	a	OBJECT	BLOW WELL DRY W/ 850 SCF/M AIR @ 250 PSI. INITIAL WATER @ 3 BBLs/HR, FINAL WATER @ TRACE.
	13:00 - 13:30	0.50	TRIP	a	OBJECT	TRIP OUT W/ 80 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	13:30 - 15:15	1.75	CASE	a	OBJECT	RIG UP BWWC, RUN # 1 HIT TIGHT SPOT @ 2,130', WORK RBP THROUGH TIGHT SPOT @ SET RBP W/ TANDEM PRESSURE BOMBS @ 2,265'. RUN # 2 SET RBP W/ TANDEM PRESSURE BOMBS @ 2,240'.
	15:15 - 15:45	0.50	TRIP	a	OBJECT	TRIP IN W/ RBP RETREIVING TOOL & 68 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	15:45 - 16:00	0.25	SHDN	a	OBJECT	SHUT WELL IN, SECURE LOCATION, SHUT DOWN FOR WEEK END.
						NOTE: SHIP 193 3/4" SUCKER RODS, 22' POLISHED ROD, STUFFING BOX, RATIGANS, RHAC-Z 2" X 1-1/4" X 14" PUMP & 19 JTS 2-3/8" 4.7# J-55 8rd EUE TBG TO BR STOCK.
12/16/2003	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION

Printed: 05/24/2004 11:30:01 AM

## Operations Summary Report

Legal Well Name: LUTHY A #4  
 Common Well Name: LUTHY A #4  
 Event Name: CAP WORKOVER  
 Contractor Name: AZTEC WELL SERVICE  
 Rig Name: AZTEC

Spud Date: 12/14/1985  
 Start: 12/10/2003 End: 12/19/2003  
 Rig Release: 12/19/2003 Group:  
 Rig Number: 485

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
12/16/2003	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - FRAC SAFETY,
	07:30 - 09:00	1.50	TRIP	a	OBJECT	TRIP IN & RETREIVE RBP W/ PRESSURE BOMBS @ 2,265', TOOH W/ RBP, TIH W/ 2-3/8" TBG & RETREIVE RBP @ 2,240', TOOH W/ RBP & BOMPS. (MOVE IN & RIG UP SCHLUMBERGER)
	09:00 - 09:45	0.75	NUND	a	OBJECT	CHANGE PIPE RAMS, RIN W/ 7" PACKER & SET @ 32' KB MEAS. NIPPLE UP FRAV MANDREL & 5,000# FRAC VALVE.
	09:45 - 11:30	1.75	FRAC	a	OBJECT	MOVE IN & SPOT SCHLUMBERGER FRAC EQUIP, RIG UP, SAFETY MEETING, (20 PEOPLE ON LOCATION) TEST LINES TO 3,600 PSI - OK, FRAC PC W/ 249 BBLS 70 QUALITY FOAM, 20# LINEAR GEL, 100,000# 20/40 ARIZONA SAND 1 PPG TO 4 PPG W/ 327,100 SCF N2, FLUSH W/ 37 FLUID BBLS W/ 15,500 SCF N2, MAX PRESS - 2,145 PSI, MIN PRESS - 1,706 PSI, AVRG PRESS - 2,013 PSI, MAX RATE - 59 BBL/MIN, MIN RATE - 50 BBL/MIN, AVRG RATE - 53 BBL/MIN. ISDP - 1,233 PSI, 286 BBLS TO RECOVER. RIG DOWN SCHLUMBERGER.
	11:30 - 12:15	0.75	NUND	a	OBJECT	NIPPLE UP FLOW LINE.
	12:15 - 16:00	3.75	FLOW	a	OBJECT	FLOW BACK FRAC: TIME CHOKES PRESS FLUID SAND GAS 12:15 8/64" 1200 WTR 0 N2 13:00 8/64" 1100 WTR 0 N2 14:00 8/64" 900 WTR 0 N2 15:00 8/64" 800 WTR 0 N2 16:00 8/64" 700 WTR 0 N2
	16:00 - 06:00	14.00	FLOW	a	OBJECT	TIME CHOKES PRESS FLUID SAND GAS 17:00 8/64" 500 WTR 0 N2 20:00 12/64" 200 WTR 0 N2 00:00 18/64" 80 WTR 0 N2 0200 24/64" 20 TRC WTR 0 N2 04:00 24/64" 0 0 0 0 05:00 2" 0 0 0 0
	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
12/17/2003	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - WORKING IN COLD WEATHER.
	07:30 - 08:15	0.75	NUND	a	OBJECT	NIPPLE DOWN FRAC VALVE & FRAC MANDREL, RELEASE PCKR & PULL OUT OF HOLE W/ 20' 2-7/8" TBG, LAY DOWN PACKER.
	08:15 - 09:00	0.75	TRIP	a	OBJECT	PICKUP 2-3/8" 8rd EUE SAW TOOTH COLLAR, 2-3/8" X 1.78" ID 8rd EUE SEATING NIPPLE, 1 JT 2-3/8" 4.7# J-55 8rd EUE TBG, 2-3/8" X 2' 4.7# J-55 8rd EUE PUP JT, & 111 JTS 2-3/8" 4.7# J-55 8rd EUE TBG. TAG SAND @ 3,590'.
	09:00 - 15:30	6.50	COUT	a	OBJECT	BREAK CIRC W/ 850 SCF/M AIR MIST @ 10 BBLS/HR @ 560 PSI. CLEAN OUT SAND FROM 3,590' TO 3,930'. INITIAL SAND @ 5 GAL/HR, INITIAL WATER @ 10 BBLS/HR, FINAL SAND @ 3 CUPS/HR, FINAL WATER @ .5 BBLS/HR.
	15:30 - 16:45	1.25	FLOW	a	OBJECT	FLOW ON 2" LINE. FLOWING 99% AIR W/ TRACE OF GAS, NO SAND OR WATER.
	16:45 - 17:00	0.25	SHDN	a	OBJECT	SHUT WELL IN, SECURE LOCATION, SHUT DOWN FOR NIGHT.
	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
12/18/2003	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - KEEP MIND ON JOB.

## Operations Summary Report

Legal Well Name: LUTHY A #4  
 Common Well Name: LUTHY A #4  
 Event Name: CAP WORKOVER  
 Contractor Name: AZTEC WELL SERVICE  
 Rig Name: AZTEC

Start: 12/10/2003  
 Rig Release: 12/19/2003  
 Rig Number: 485

Spud Date: 12/14/1985  
 End: 12/19/2003  
 Group:

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
12/18/2003	07:30 - 07:45	0.25	TRIP	a	OBJECT	TRIP IN W/ 2-3/8" TBG, TAG FILL @ 3,800'.
	07:45 - 09:30	1.75	COUT	a	OBJECT	BREAK CIRC W/ 850 SCF/M AIR MIST @ 10 BBLS/HR, CLEAN OUT SAND FROM 3,800' TO 3,930'.
	09:30 - 12:30	3.00	BLOW	a	OBJECT	BLOW W/ 850 SCF/M AIR MIST @ 10 BBLS/HR. 1 INITIAL SAND @ 5 GALS/HR, INITIAL WATER @ 6 BBLS/HR, FINAL SAND, 3 CUPS/HR, FINAL WATER @ 2 BBLS/HR.
	12:30 - 14:30	2.00	FLOW	a	OBJECT	FLOW THROUGH 2" LINE, FLOWING GAS W/ TRACE OF WATER. PITOT TO SMALL TO MEASURE. LOADED UP.
	14:30 - 15:30	1.00	BLOW	a	OBJECT	BLOW W/ 450 SCF/M AIR MIST @ 10 BBLS/HR, TRACE OF SAND
	15:30 - 06:00	14.50	BLOW	a	OBJECT	ALTERNATE FLOW & BLOW, UNLOADED 20 +/- BBLS WATER DURING EACH BLOW PERIOD, FLOW FOR 2 HRS, WOULD LOAD UP. FLOWING GAS W/ MED MIST OF WATER @ 05:00 HRS.
12/19/2003	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - HOUSE KEEPING
	07:30 - 07:45	0.25	TRIP	a	OBJECT	TRIP IN W/ 2-3/8" TBG, TAG FILL @ 3,840'.
	07:45 - 08:30	0.75	COUT	a	OBJECT	BREAK CIRC W/ 850 SCF/M AIR MIST @ 10 BBLS/HR, CLEAN OUT SAND FROM 3,840' TO 3,930'.
	08:30 - 09:30	1.00	BLOW	a	OBJECT	BLOW W/ 850 SCF/M AIR MIST @ 10 BBLS/HR. 1 INITIAL SAND @ 1 GALS/HR, INITIAL WATER @ 4 BBLS/HR, FINAL SAND, TRACE, FINAL WATER @ .5 BBLS/HR.
	09:30 - 11:30	2.00	FLOW	a	OBJECT	FLOW THROUGH 2" LINE, FLOWING GAS W/ TRACE OF WATER. LOADED UP
	11:30 - 13:00	1.50	BLOW	a	OBJECT	BLOW W/ 450 SCF/M AIR MIST @ 10 BBLS/HR, INITIAL WATER @ 3 BBLS/HR W/ TRACE OF SAND. FINAL WATER @ TRACE W/ TRACE OF SAND.
	13:00 - 15:00	2.00	FLOW	a	OBJECT	FLOW ON 2" OPEN LINE, FLOWING 100% GAS. PITOT @ 353 MCF/D.
	15:00 - 16:00	1.00	PULD	a	OBJECT	LAY DOWN 52 JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	16:00 - 16:15	0.25	NUND	a	OBJECT	LAND TBG AS FOLLOWS: 1 - 2-3/8" 8rd EUE SAW TOOTH COLLAR @ 2,276.34' 1 - 2-3/8" X 1.78" ID 2-3/8" 8rd EUE SEATING NIPPLE @ 2274.92'. 1 - JT 2-3/8" 4.7# J-55 8rd EUE TBG. 1 - 2-3/8" X 2' 2-3/8" 4.7# J-55 8rd EUE PUP JT @ 2,241.71'. 69 - JTS 2-3/8" 4.7# J-55 8rd EUE TBG.
	16:15 - 17:00	0.75	NUND	a	OBJECT	RIG DOWN FLOOR, NIPPLE DOWN BOP, NIPPLE UP TREE. SHUT WELL IN, SHUT DOWN FOR NIGHT.
12/20/2003						NOTE: TRANSFER 63 JTS 2-3/8" 4.7# J-55 8rd EUE TBG TO HARRINGTON # 7.
	06:00 - 07:00	1.00	MIMO	a	OBJECT	CREW TRAVEL TO LOCATION
	07:00 - 07:15	0.25	SRIG	a	OBJECT	START & SERVICE RIG.
	07:15 - 07:30	0.25	SAFE	a	OBJECT	SAFETY MEETING, 4 AZTEC, 1 ENERGY AIR, TOPIC - RIG MOVE
	07:30 - 08:30	1.00	RURD	a	OBJECT	RIG DOWN RIG # 485.
	08:30 - 10:00	1.50	RURD	a	OBJECT	MOVE RIG EQUIPMENT SO RIG COULD MOVE OFF.