

New Mexico
Energy Minerals and Natural Resources Department

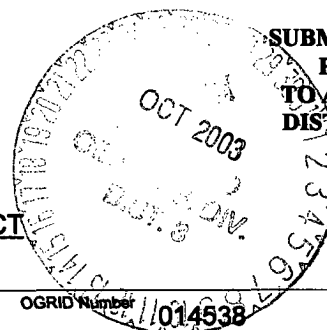
Form C-140
Revised 06/99

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

APPLICATION FOR
WELL WORKOVER PROJECT

SUBMIT ORIGINAL
PLUS 2 COPIES
TO APPROPRIATE
DISTRICT OFFICE



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 MANGUM | | | | Well Number 6 | | API Number 3004525721 | |
| UL | Section | Township | Range | Feet From The | Feet From The | County | |
| O | 28 | 29 N | 11 W | 411 FSL | 1650 FEL | SAN JUAN | |

II. Workover

| | |
|---------------------------------------|---|
| Date Workover Commence 12/19/2002 | Previous Producing Pool(s) (Prior to Workover): ARMENTA GALLUP |
| Date Workover Completed: 1/31/2003 | |

- 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 New Mexico)
County of San Juan) ss.
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 Leslie D. White Title Sr. Accountant Date 10/22/03
SUBSCRIBED AND SWORN TO before me this 22 day of October, 2003.
Notary Public
My Commission expires: September 15, 2004 Tamatha Winsell

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 1/31/03.

| | | |
|--|--------------------------|------------------------|
| Signature District Supervisor <u>JS</u> | OCD District <u>3</u> | Date <u>12/6/03</u> |
|--|--------------------------|------------------------|

VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

| REG_DTL_D | ARMENTA GALLUP | FULCHER KUTZ PICTURED CLIFFS (|
|-----------|----------------|-----------------------------------|
| 1/1/2002 | 1524 | |
| 2/1/2002 | 1337 | |
| 3/1/2002 | 1303 | |
| 4/1/2002 | 989 | |
| 5/1/2002 | 1692 | |
| 6/1/2002 | 1520 | |
| 7/1/2002 | 1516 | |
| 8/1/2002 | 1565 | |
| 9/1/2002 | 1505 | |
| 10/1/2002 | 1528 | |
| 11/1/2002 | 1442 | |
| 12/1/2002 | 839 | |
| 1/1/2003 | 0 | |
| 2/1/2003 | 0 | 3364 |
| 3/1/2003 | 0 | 3803 |
| 4/1/2003 | 0 | 3559 |

BURLINGTON RESOURCES DIVISIONS

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Operations Summary Report

Legal Well Name: MANGUM #6
 Common Well Name: MANGUM #6
 Event Name: CAP WORKOVER
 Contractor Name: AZTEC WELL SERVICE
 Rig Name: AZTEC

Spud Date: 06/09/1983
 Start: 12/19/2002 End: 01/31/2003
 Rig Release: 01/31/2003 Group:
 Rig Number: 449

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---|-------|------|----------|--------|---|
| 12/20/2002 | 06:00 - 07:00 | 1.00 | MIMO | a | MIRU | TRAVEL TO LOCATION |
| | 07:00 - 07:15 | 0.25 | SAFE | a | OBJECT | HSM, TOPIC: PROPER LIFTING, SAVE YOUR BACK, RIG CREW PRESENT |
| | 07:15 - 10:30 | 3.25 | MIMO | a | MIRU | ROAD RIG TO LOCATION, SPOT RIG |
| | 10:30 - 12:00 | 1.50 | RURD | a | MIRU | RU RIG & EQUIPMENT |
| | 12:00 - 12:15 | 0.25 | NUND | a | OBJECT | NU BLOW LINE TO PIT, SICP 120 PSI, SITP 0 PSI, BH 5 PSI |
| | 12:15 - 12:30 | 0.25 | BLOW | a | OBJECT | BLOW DOWN WELL TO PIT, UNSEAT PUMP, LD 1 ROD |
| | 12:30 - 13:30 | 1.00 | HOTO | a | OBJECT | RU HOT OIL TRUCK, ATTEMPT TO HOT OIL RODS, PRESSURE UP ON TBG TO 800 PSI, WOULD NOT BLEED OFF DOWN HOLE, WORK RODS & PUMP, STILL CAN NOT PUMP DOWN TBG |
| | 13:30 - 16:30 | 3.00 | TRIP | a | OBJECT | TOOH & LD, STUFFING BOX, POLISH ROD, 4' & 2' X 3/4" PONY RODS, 75 3/4" RODS, 145 5/8" RODS, 10 3/4" RODS W MOLDED GUIDES, 3 SINKER BARS & 2 X 1 1/4 X 10 X 14 RMAC-Z PUMP |
| 12/21/2002 | 06:00 - 07:00 | 1.00 | MIMO | a | MIRU | TRAVEL TO LOCATION |
| | 07:00 - 07:15 | 0.25 | SAFE | a | OBJECT | HSM, TOPIC: LAYING DOWN TBG, RIG CREW PRESENT |
| | 07:15 - 07:30 | 0.25 | NUND | a | OBJECT | NU BLOW LINE TO PIT, SICP 110 PSI, SITP 0 PSI, BH 5 PSI |
| | 07:30 - 09:45 | 2.25 | HOTO | a | OBJECT | RU HOT OIL TRUCK, HOT OIL DOWN CSG W 40 BBLS 2% KCL, HOT OIL DOWN TBG W 30 BBLS 2% KCL |
| | 09:45 - 10:15 | 0.50 | NUND | a | OBJECT | ND WH, NU BOP |
| | 10:15 - 12:30 | 2.25 | TRIP | a | OBJECT | TOOH, STANDBACK & TALLY 30 STDTS TBG (1893.33'), TOOH & LD 126 JTS, SEATING NIPPLE & 1 JT W 6' OF TOP PERFORATED, 188 JTS TOTAL |
| | 12:30 - 14:00 | 1.50 | WIRE | a | OBJECT | RU WIRELINE, RIH & SET 5 1/2" CIBP @ 5230', POOH W SETTING TOOL, RIH & SET 5 1/2" CIBP @ 1900', POOH W SETTING TOOL, RIH W GR/CCL & LOG CORRELATION STRIP FROM 1800' TO 1600' |
| | 14:00 - 14:15 | 0.25 | PUMP | a | OBJECT | LOAD CSG W 45 BBLS WATER |
| | 14:15 - 15:00 | 0.75 | NUND | a | OBJECT | ND BOP & TBG HEAD, NU FRAC HEAD & FRAC VALVE |
| | 15:00 - 15:30 | 0.50 | PRES | a | OBJECT | PRESSURE TEST CSG TO 4000 PSI, TEST OK |
| | 15:30 - 15:45 | 0.25 | NUND | a | OBJECT | ND FRAC VALVE, NU BOP |
| | 15:45 - 16:15 | 0.50 | TRIP | a | OBJECT | TIH W 53 JTS TBG |
| 12/22/2002 | 16:15 - 17:00 | 0.75 | SPOT | a | OBJECT | SPOT 50 GAL 28% HCL ACROSS PERF INTERVAL FROM 1660' TO 1636', ELEVATORS NOT LATCHING CORRECTLY, CALL FOR NEW ELEVATOR, SDFN |
| | 06:00 - 07:00 | 1.00 | MIMO | a | MIRU | TRAVEL TO LOCATION |
| | 07:00 - 07:15 | 0.25 | SRIG | a | MIRU | SERVICE & START RIG |
| | 07:15 - 07:30 | 0.25 | SAFE | a | OBJECT | HSM, TOPIC: LIGHTING PROPANE HEATERS & TOUCHES, FOLLOW ALL LIGHTING & SAFETY PROCEDURES, RIG CREW PRESENT, SIWHP 0 PSI |
| | 07:30 - 08:00 | 0.50 | TRIP | a | OBJECT | TOOH W TBG |
| | 08:00 - 08:30 | 0.50 | PERF | a | OBJECT | RU WIRELINE, PERF PC 4 SPF FROM 1660' TO 1636' (24' TOTAL, 96 HOLES) RD WIRELINE |
| | 08:30 - 09:00 | 0.50 | TRIP | a | OBJECT | TIH W TBG TO CIBP |
| | 09:00 - 09:45 | 0.75 | PUMP | a | OBJECT | ROLL HOLE W WATER, CIRC ACID TO PIT |
| | 09:45 - 10:00 | 0.25 | BLOW | a | OBJECT | BLOW HOLE DRY W AIR |
| | 10:00 - 11:00 | 1.00 | TRIP | a | OBJECT | TOOH & LD 61 JTS TBG |
| | 11:00 - 11:15 | 0.25 | NUND | a | OBJECT | ND BOP, NU 6" FRAC VALVE & FRAC Y |
| | 11:15 - 12:00 | 0.75 | RURD | a | OBJECT | RD RIG & EQUIP, MOVE TO ZACHRY 45 |
| | SUMMARY: MIRU, TOOH W RODS & PUMP, ND WH NU BOP, TOOH W 188 JTS 2,375" TBG, RU WIRELINE, SET 5 1/2" CIBP @ 5230', SET 5 1/2" CIBP @ 1900', LOAD CSG W 45 BBLS WATER, CHANGE OUT | | | | | |
| | | | | | | |

BURLINGTON RESOURCES DIVISIONS

Operations Summary Report

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Legal Well Name: MANGUM #6
 Common Well Name: MANGUM #6
 Event Name: CAP WORKOVER
 Contractor Name: AZTEC WELL SERVICE
 Rig Name: AZTEC

Spud Date: 06/09/1983
 Start: 12/19/2002
 End: 01/31/2003
 Rig Release: 01/31/2003
 Group:
 Rig Number: 449

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---------------|-------|------|----------|--------|--|
| 12/22/2002 | 11:15 - 12:00 | 0.75 | RURD | a | OBJECT | WELLHEAD TO 5000 PSI, NU 6" FRAC VALVE, PRES TEST RBP & CSG TO 4000 PSI, TEST OK, SPOT 50 GAL 28% HCL ACROSS PERF INTERVAL FROM 1660' TO 1636, PERFORATE 4 SPF FROM 1660' TO 1636', TIH W TBG, UNLOAD HOLE, TOOH & LD TBG, RD RIG & EQUIP |
| 12/31/2002 | 11:00 - 12:00 | 1.00 | PRES | a | OBJECT | R/U THREE RIVERS PUMP TRUCK, TEST CSG TO 4100# WATCH FOR 15 MIN, (NO LEAK OFF) R/D PUMP TRUCK |
| | 12:00 - 13:00 | 1.00 | RURD | a | OBJECT | SPOT & RU SCHLUMBERGER DOWELL, HOLD SAFETY MEETING W/ 14 PEOPLE ON LOCATION, DISCUSS FRAC PROCEDURE, ASSIGN JOB RESPONSIBILITIES, DISCUSS EMERGENCY RESPONSE. |
| | 13:00 - 14:00 | 1.00 | FRAC | a | OBJECT | NO PRESSURE ON BRK DOWN, FRAC LOAD 160 BBLS, FLUSH W/ 8 BBLS, TOT LOAD 168 BBLS, TOT N2 207,900 SCF, MAX RATE 51 BPM, MIN RATE 48, AVG RATE 50, MAX PSI 1117, MIN PSI 922, AVG PSI 1065. ISIP 841, R/D DOWELL |
| | 14:00 - 15:00 | 1.00 | NUND | a | OBJECT | N/U FLOW LINE, |
| | 15:00 - 06:00 | 15.00 | FLOW | a | OBJECT | TIME—CHOKE—PSI—SAND—FLUID— 15:00—12/64—300—N,S—DRY 17:00—32/64—100—N,S—DRY 22:00—48/64—30—N,S—DRY 05:00—48/64—5—N,S—DRY CLOSE WELL IN WAIT FOR C/O |
| 01/29/2003 | 10:00 - 10:30 | 0.50 | MIMO | a | MIRU | ROAD RIG FROM CONGRESS # 3 TO MANGUM # 6. |
| | 10:30 - 11:30 | 1.00 | WAIT | a | MIRU | WHEN LOC WAS BLADED, ONE ANCHOR WAS CUTOFF, HAD TO WAIT FOR ANCHOR TRUCK TO RESET ANOTHER ANCHOR. |
| | 11:30 - 12:30 | 1.00 | RURD | a | MIRU | SPOT IN RIG RAMP, PUT RIG ON RAMP & STAND UP DERRICK. |
| | 12:30 - 13:30 | 1.00 | RURD | a | MIRU | RU REST OF EQUIP, LAY FLOWLINES. |
| | 13:30 - 14:30 | 1.00 | NUND | a | MIRU | CSG HAD 120 PSI, FLOW WELL DOWN & KILL W/ 10 BBLS OF 2% KCL, ND FRAC Y, FRAC VALVE, 5 K WELLHEAD, NU TBG HEAD & BOP. |
| | 14:30 - 15:30 | 1.00 | TRIP | a | OBJECT | RIH W/ EXC, 1.78" ID SEAT NIPPLE, 1 JT OF 2 3/8", 2' PUP JT & REST OF TBG TO TOP OF PERFS @ 1636'. |
| | 15:30 - 17:00 | 1.50 | RRSR | a | OBJECT | HAD TO CHANGE OUT RIG TONGS, BOTTOM HYDRAULIC SEAL WAS GOING OUT. |
| | 15:30 - 21:00 | 5.50 | BLOW | a | CLEAN | BLOW W/ 1 TO 1 AIR & MIST, UNLOADED 10 BBLS OF H2O, MAKING 3 BPH OF H2O & 1 CUP OF SAND, CLEANED UP TO 2 BPH OF H2O & 1/2 CUP OF SAND. |
| 01/30/2003 | 21:00 - 06:00 | 9.00 | FLOW | a | CLEAN | FLOW WELL NATURAL, MAKING 2 BPH OF H2O, 1/8 CUP OF SAND, 5 TO 8' FLAME. |
| | 06:00 - 07:00 | 1.00 | SAFE | a | OBJECT | TRAV TO LOC, START RIG, HOLD SAFETY MEETING ON PINCH POINTS & SLIPS, TRIPS & FALLS, RIG CREW AIR HAND, CONSULTANT WERE PRESENT. |
| | 07:00 - 07:15 | 0.25 | TRIP | a | OBJECT | SHORT TIH, TAG UP @ 1690', BOTTOM PERF @ 1660', PBTD @ 1900', HAD 210' OF FILL. |
| | 07:15 - 12:00 | 4.75 | BLOW | a | CLEAN | CO TO PBTD W/ AIR MIST, BLOW W/ 1 TO 1 AIR & MIST MAKING 3 BPH OF H2O & 1 GALLON OF SAND, CLEANED UP TO 3 BPH OF H2O & 3 CUPS OF SAND. |
| | 12:00 - 15:00 | 3.00 | FLOW | a | CLEAN | PULL UP, FLOW WELL NATURAL, MAKING 2 BPH OF H2O & 2 CUPS OF SAND, W/ 10' FLAME. |
| | 15:00 - 19:00 | 4.00 | BLOW | a | CLEAN | SHORT TIH, TAG UP @ 1860', HAD 40' OF FILL, CO TO PBTD W/ AIR MIST, BLOW W/ 1 TO 1 AIR & MIST, MAKING 5 BPH OF H2O & 7 CUPS OF SAND, PULL UP TO 1670', CONTINUE BLOWING W/ 1 TO 1 AIR & MIST, CLEANED UP TO 3 BPH OF H2O & 3 CUPS OF SAND, |

BURLINGTON RESOURCES DIVISIONS

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Operations Summary Report

Legal Well Name: MANGUM #6
 Common Well Name: MANGUM #6
 Event Name: CAP WORKOVER
 Contractor Name: AZTEC WELL SERVICE
 Rig Name: AZTEC

Start: 12/19/2002
 Rig Release: 01/31/2003
 Rig Number: 449

Spud Date: 06/09/1983
 End: 01/31/2003
 Group:

| Date | From - To | Hours | Code | Sub Code | Phase | Description of Operations |
|------------|---------------|-------|------|----------|--------|--|
| 01/30/2003 | 15:00 - 19:00 | 4.00 | BLOW | a | CLEAN | ALSO SLUGGING SAND . |
| | 19:00 - 06:00 | 11.00 | FLOW | a | CLEAN | FLOW WELL NATURAL , MAKING 2 TO 3 BPH OF H2O & 2 CUPS OF SAND , STILL SLUGGING SAND , HAD 15' FLAME . |
| 01/31/2003 | 06:00 - 07:00 | 1.00 | SAFE | a | OBJECT | TRAV TO LOC , START RIG , HOLD SAFETY MEETING ON PPE , RIG CREW , AIR HAND , CONSULTANT WERE PRESENT . |
| | 07:00 - 07:15 | 0.25 | TRIP | a | OBJECT | SHORT TIH , TAG UP @ 1840' , PBTD @ 1900' , HAD 60' OF FILL . |
| | 07:15 - 11:00 | 3.75 | BLOW | a | CLEAN | CO TO PBTD W/ AIR MIST , BLOW W/ 1 TO 1 & MIST , MAKING 5 BPH OF H2O & 3 CUPS OF SAND , CLEANED UP TO 3 BPH OF H2O & 1 CUP OF SAND . |
| | 11:00 - 15:00 | 4.00 | FLOW | a | CLEAN | PULL UP , FLOW WELL NATURAL , MAKING 2 BPH OF H2O & 1 CUP OF SAND . |
| | 15:00 - 17:30 | 2.50 | BLOW | a | CLEAN | SHORT TIH , TAG UP @ 1880' , HAD 20' OF FILL , CO TO PBTD W/ 1 TO 1 AIR & MIST , MAKING 3 BPH OF H2O & 2 CUPS OF SAND , CLEANED UP TO 3 BPH OF H2O & 1 CUP OF SAND . |
| | 17:30 - 18:00 | 0.50 | SRIG | a | OBJECT | PULL UP TO 1700' , SHUT & LOCK PIPE RAMS , MAKE UP & SHUT TIW VALVE , DRAIN UP EQUIP , PU TOOLS & LOC , FUEL UP RIG , TURN WELL OVER TO FLOWBACK HANDS . |
| | 18:00 - 06:00 | 12.00 | FLOW | a | CLEAN | FLOW WELL NATURAL ON 2" LINE , MAKING 1 BPH OF H2O & 1/2 CUP OF SAND . |
| 02/01/2003 | 06:00 - 07:00 | 1.00 | SAFE | a | OBJECT | TRAV TO LOC , START RIG , HOLD SAFETY MEETING ON RD RIG & EQUIP , RIG CREW , AIR HANDS , CONSULTANT WERE PRESENT . |
| | 07:00 - 07:15 | 0.25 | TRIP | a | OBJECT | SHORT TIH , TAG UP @ 1890' , PBTD @ 1900' , HAD 10' OF FILL . |
| | 07:15 - 08:00 | 0.75 | BLOW | a | CLEAN | CO TO PBTD W/ AIR MIST . |
| | 08:00 - 08:30 | 0.50 | BRCH | a | OBJECT | BROACH TBG TO SEAT NIPPLE . |
| | 08:30 - 09:00 | 0.50 | NUND | a | RDMO | PULL UP & LAND @ 1656' W/ 52 JTS OF 2.375" , 4.7# , J-55 , EUE , 8 RD TBG , W/ 1.78" ID SEAT NIPPLE SET @ 1655' , W/ KB INCLUDED , ND BOP , NU TREE . |
| | 09:00 - 10:00 | 1.00 | PRES | a | RDMO | PRESS TEST TBG TO 300 PSI , TESTED GOOD , PUMP OFF EXC @ 450 PSI , REV UP TBG . |
| | 10:00 - 11:00 | 1.00 | RURD | a | RDMO | RD RIG & EQUIP , MOL TO NEUDECKER # 6 . SUMMARY , MOL , RU RIG & EQUIP , ND TREE , NU BOP , RIH W/ EXC , CO TO PBTD , BROACH TBG , LAND TBG , ND BOP , NU TREE , PUMP OFF EXC , REV UP TBG , RD RIG & EQUIP , MOL . NOTE TRANS 11 JTS OF 2 3/8" TBG TO NEUDECKER # 6 |