

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 Peggy Cole					Phone 505/326-9700		
Property Name HUERFANITO UNIT				Well Number 48		API Number 3004513239	
UL	Section	Township	Range	Feet From The	Feet From The	County	
L	26	27 N	9 W	1380 FSL	1280 FWL	SAN JUAN	

II. Workover

Date Workover Commence 10/7/2002		Previous Producing Pool(s) (Prior to Workover): BALLARD PICTURED CLIFFS (GAS)
Date Workover Completed: 10/14/2002		

- 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:	
<ol style="list-style-type: none">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> , 2003.	
Notary Public	
My Commission expires: <u>September 15, 2004</u> <u>Nancy Olthmann</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 10-14, 2003

Signature District Supervisor <u>Chuck Bern</u>	OCD District <u>7750 III</u>	Date <u>6-30-2003</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

REG_DTL_D	BALLARD PICTURED CLIFFS (GAS)
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10/1/2001	272
11/1/2001	276
12/1/2001	263
1/1/2002	281
2/1/2002	239
3/1/2002	260
4/1/2002	272
5/1/2002	269
6/1/2002	264
7/1/2002	288
8/1/2002	300
9/1/2002	275
10/1/2002	1233
11/1/2002	1432
12/1/2002	1239
1/1/2003	1668

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Operations Summary Report

Legal Well Name: HUERFANITO UNIT #48
 Common Well Name: HUERFANITO UNIT #48
 Event Name: CAP WORKOVER
 Contractor Name: RIGLESS WORKOVER
 Rig Name: RIGLESS

Spud Date: 04/22/1956
 Start: 10/07/2002 End: 10/14/2002
 Rig Release: 10/14/2002 Group:
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
09/28/2002	09:00 - 15:00	6.00	MIMO	a	OBJECT	MOVE IN SPOT EQUIPMENT, HAD TO USE MAINTAINER FOR MOVE IN DUE TO ROAD & LOCATION HEAVY SAND, RU UNIT, N/U EQUIPMENT, SHUT DOWN FOR WEEKEND, RIG PIT LEAKING, (REPAIROVER WEEKEND)
10/01/2002	06:00 - 07:00	1.00	SAFE	a	OBJECT	TRAV TO LOC , START RIG , HOLD SAFETY MEETING ON ND & NU , RIG CREW , AIR HANDS , CONSULTANT WERE PRESENT .
	07:00 - 11:30	4.50	NUND	a	MIRU	ND TREE , NU BOP , HAD A HARD TIME GETTING CAP OFF OF TBG HEAD .
	11:30 - 12:30	1.00	TRIP	a	OBJECT	POOH W/ 1" TBG , LAID DOWN A TOTAL OF 102 JTS .
	12:30 - 13:30	1.00	PULD	a	OBJECT	CHANGE SLIPS , ELEV , & RAMS FROM 1" TO 2 7/8" , MAKE UP 4 3/4" BIT , BIT SUB ON FIRST DRILL COLLARS .
	13:30 - 15:00	1.50	TRIP	a	OBJECT	RIH W/ BIT , 6 3 1/8" DRILL COLLARS & 2 7/8" TBG , TAGGED UP @ 2255' , PBTD @ 2285' , HAD 30' OF FILL .
	15:00 - 20:00	5.00	DRLG	a	OBJECT	CO TO 2285' & DEEPEN WELL FROM 2285' TO 2425.28' W/ AIR MIST , CIRCULATE HOLE CLEAN , KB INCLUDED
10/02/2002	20:00 - 20:30	0.50	SHDN	a	OBJECT	PULL UP OUT OF OPENHOLE , SHUT & LOCK PIPE RAMS , MAKE UP & SHUT TIW VALVE , PU TOOLS & LOC , FUEL UP RIG , SDFD .
	06:00 - 07:00	1.00	SAFE	a	OBJECT	TRAV TO LOC , START RIG , HOLD SAFETY MEETING ON LAYING DOWN DRILL COLLARS & USING HANDLING TOOLS , RIG CREW , AIR HAND , CONSULTANT WERE PRESENT .
	07:00 - 07:15	0.25	TRIP	a	OBJECT	SHORT TIH , TAG UP @ 2410' , TD @ 2425' , HAD 15' OF FILL .
	07:15 - 10:00	2.75	BLOW	a	CLEAN	CO TO TD W/ AIR MIST , BLOW UNTIL WELL CLEANED UP .
	10:00 - 10:30	0.50	TRIP	a	OBJECT	TOOH W/ BIT & DRILL COLLARS , LAY 6 - 3 1/8" COLLARS DOWN & 4 3/4" BIT .
	10:30 - 11:00	0.50	TRIP	a	OBJECT	TIH W/ 10' SHOE JT , OMEGA LATCH ASSEMBLY , 1 JT , 2' MARKER JT & REST OF 2 7/8" CSG .
	11:00 - 11:30	0.50	NUND	a	OBJECT	LAND CSG W/ SHOE JT @ 2413.72' , W/ 77 JTS OF 2.875" , J - 55 , 6.5# , EUE , 8 RD , W/ MARKER JT @ 2403.50' , W/ KB INCLUDED , ND BOP .
	11:30 - 11:45	0.25	SAFE	a	OBJECT	RU CEMENT HEAD & PUMP LINE , HOLD SAFETY MEETING ON CEMENTING CSG , RIG CREW , AIR HANDS CEMENTERS , CONSULTANT WERE PRESENT , WHILE HOLDING SM , WAS CIRCULATING HOLE W/ AIR , KNOCK OFF AIR LINE , RU PUMPLINE & PRESS TEST TO 3500 PSI TESTED GOOD .
	11:45 - 12:30	0.75	CEMT	a	OBJECT	PUMP 10 BBL H2O W/ 2 SKS GEL & DYE , PUMP 10 BBL H2O W/ 2 SKS GEL , PUMP 3 BBL H2O SPACER , PUMP 120 SX OF LEAD CEMENT @ 12.1# , PUMPED LEAD UNTIL DYE CAME BACK , PUMPED 25 SX OF TAIL CEMENT @ 14.2# , SHUT DOWN , WASHED UP TRUCK & LINES , DROPPED PLUG , START DISPLACEMENT , PUMPED 13.9 BBL OF DISPLACEMENT BUMPED PLUG @ 2200 PSI , SLOWLY BLEED PSI OFF @ 700 PSI POPPED BLEED OFF TO CHECK LATCH , TESTED GOOD SHUT DOWN . HAD 8 BBL OF CEMENT RETURNS .
	12:30 - 13:00	0.50	NUND	a	OBJECT	RD CEMENT HEAD , NU TREE .
	13:00 - 14:00	1.00	RURD	a	RDMO	WASH UP PUMP & LINES , RD RIG & EQUIP , MOL TO HUERFANO # 50 .
						SUMMARY , MOL RU RIG & EQUIP , ND TREE , NU BOP , POOH W/ 1" TBG , RIH W/ 4 3/4" BIT & COLLARS & 2 7/8" TBG , CO OPENHOLE , DEEPEN HOLE TO 2400' , TOOH W/ BIT , TIH W/ SHOE JT & REST OF CSG , LAND CSG , CIRCULATE HOLE CLEAN , CEMENT CSG , RD RIG & EQUIP , MOL .
						NOTE SENT 102 JTS OF 1" TBG TO BROG ON M&R TRUCKING ,

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Operations Summary Report

Legal Well Name: HUERFANITO UNIT #48
 Common Well Name: HUERFANITO UNIT #48
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 Contractor Name: RIGLESS WORKOVER
 Rig Name: RIGLESS

Spud Date: 04/22/1956
 Start: 10/07/2002 End: 10/14/2002
 Rig Release: 10/14/2002 Group:
 Rig Number: 1

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
10/02/2002	13:00 - 14:00	1.00	RURD	a	RDMO	TRANS 8 JTS OF 2 7/8" TO HUERFANO # 50 .
10/08/2002	12:00 - 14:00	2.00	CASE	a	OBJECT	BLUE JET LOGGED W/ GR/CCL 2,336' TO SURFACE 10/03/2002.
	14:00 - 16:00	2.00	PUMP	a	OBJECT	MOVE IN AMERICAN ENERGY, NIPPLE UP 10K FRAC VALVE, NIPPLE UP TEST LINES, 15 MIN TEST @ 5,000 PSI, LOST 200 PSI IN 15 MIN DUE TO AIR IN LINES. RIG DOWN AMERICAN ENERGY
	16:00 - 18:30	2.50	PERF	a	OBJECT	MOVE IN BLUE JET, PERF PC IN 2 RUNS, RUN # 1 PERF @ 2,336, 34', 32', 30', 28', 26', 24', 22', 20', 18', 16', 14', 12', 10', 08', 06', 04', & 02'. ALL SHOTS FIRED. RUN # 2 PERF @ 2,290', 88', 86', 84', 82', 80', 78', 76', 74', 72', 70', 68', 66', 64', 62', 60', 58', 56', 54', 52', 50', & 48'. ALL SHOTS FIRED. PERF W/ 1-11/16" SHOGUN SYS W/ 9 GRAM .24 DIA SHOTS.
10/09/2002	10:30 - 12:00	1.50	MIMO	a	OBJECT	MOVE IN SCHLUMBERGER FRAC EQUIPMENT & RIG UP.
	12:00 - 12:15	0.25	SAFE	a	OBJECT	SAFETY MEETING W/ 16 SCHLUMBERGER, 2 BR - TOPIC RIG UP, FRAC - RIG DOWN SAFETY.
	12:15 - 15:00	2.75			OBJECT	FRAC PICTURED CLIFFS 353 BBLs 20# LINEAR GEL, 70% QUALITY FOAM, W/ 250,000 SCF N2, W/ 100,000# 20/40 BRADY SAND 1 PPG TO 4 PPG, & 15,000# 12/20 BRADY SAND @ 4 PPG, MAX PRESS - 4486 PSI, MIN PRESS - 3470, AVRG PRESS - 3600 PSI, MAX RATE - 35.9 BPM, MIN RATE, 34.4 BPM, AVRG RATE - 35 BPM, FLUSH W/ 5.5 BBLs 2% KCL, INSTANT SHUT DOWN PSI - 970 PSI, SHUT WELL IN, 258 BBLs TO RECOVER, RIG DOWN FRAC EQUIPMENT.
	15:00 - 06:00	15.00	FLOW	a	OBJECT	SHUT IN CASING PRESS - 930 PSI. TIME CHOK PRESS WATER SAND 18:00 8/64 600 N2 MIST TRC 22:15 10/64 300 N2 MIST TRC 01:30 14/64 190 N2 MIST TRC 05:00 18/64 120 N2 MIST TRC
10/10/2002	06:00 - 06:00	24.00	FLOW	a	OBJECT	FLOWING ON 32/64 CHOKE. PRESS @ 32 PSI LAST 22 HRS. FLOWING N2 FOAM MIST W/ TRACE OF SAND. TIME CHOK PRESS WATER SAND 05:30 32/64 32 N2 MIST TRC
10/11/2002	06:00 - 06:00	24.00	FLOW	a	OBJECT	FLOWING ON 32/64 CHOKE. PRESS @ 10 PSI LAST 24 HRS. FLOWING N2 FOAM MIST W/ TRACE OF SAND.
10/12/2002	06:00 - 06:00	24.00	FLOW	a	OBJECT	FLOWING ON 48/64 CHOKE. PRESS @ 4 PSI LAST 24 HRS. FLOWING N2 FOAM MIST W/ TRACE OF SAND. GAS 204 MCF/D NIPPLE DOWN FRAC VALVE & NIPPLE UP PRODUCTION VALVE.
10/13/2002	06:00 - 06:00	24.00	FLOW	a	OBJECT	FLOWING ON 48/64 CHOKE. PRESS @ 4 PSI LAST 24 HRS. FLOWING N2 FOAM MIST W/ NO SAND. GAS 226 MCF/D
10/14/2002	06:00 - 06:00	24.00	FLOW	a	OBJECT	FLOWING ON 48/64 CHOKE. PRESS @ 4 PSI LAST 24 HRS. FLOWING LITE N2 FOAM MIST W/ NO SAND. FINAL GAS 226 MCF/D
10/26/2002	08:30 - 09:00	0.50	MIMO	a	MIRU	ROAD SWAB UNIT TO LOCATION

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10/26/2002	09:00 - 09:15 09:15 - 15:30	0.25 6.25	RURD COUT	a a	MIRU OBJECT	R/U UNIT & BLOW DOWN LINE C/O F 2370' TO 2403', (PBTD), W/ SAND LINE BAILER. MADE 2 SWAB RUNS, RECOVER APPROX 1/2 BBL WTR ON 1 ST RUN, & 1/4 BBL WTR ON 2 ND RUN. RE-RAN BAILER, HAD 5' OF FILL. C/O TO PBTD. R/D & RELEASE SWAB UNIT @ 15:30 HRS. RETURN WELL TO SALES LINE.
12/25/2002	11:00 - 12:00	1.00	WIRE	a	OBJECT	RU COBRA SLICKLINE. RUN GAUGE RING & TAG UP @ 2379'. RD W/L.
	12:00 - 14:00	2.00	WAIT	a	OBJECT	W/O STIM-COIL.
	14:00 - 16:30	2.50	TRIP	a	OBJECT	RU STIM COIL. RUN 1/4" SS COILED TBG TO 2250'. HANG OFF & LAND @ 2250'. PUT WELL BACK ON PROD. RD STIM COIL.