

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

**RECEIVED**

**AUG 09 2004**

**ODD-ARTESIA**

5. Lease Serial No.

**NM 02253539**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**Federal 28-4**

9. API Well No.

**30-015-33402**

10. Field and Pool, or Exploratory Area  
**Indian Basin Upper Penn**

11. County or Parish, State

**Eddy**

**NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**TYPE OF SUBMISSION**

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

**TYPE OF ACTION**

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                     |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                     |
| <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other <u>Completion</u> |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>Activities</u>   |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

The purpose of this Sundry notice is to report completion activities from May 28, 2004 through July 22, 2004.

See attached report for details of this activity.

This well is currently producing and on sales to the plant.

Final Test 690 MCFPD, 416 Wtr, "0" oil/cond

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Rod L. Bailey**

Title

**Manager of Regulatory**

Date **7/26/04**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name: FEDERAL 28 #4  
 Common Well Name: FEDERAL 28 #4  
 Event Name: COMPLETION  
 Contractor Name: POOL  
 Rig Name: POOL

Start: 05/28/2004      Spud Date: 05/07/2004  
 End: 07/22/2004  
 Rig Release: 07/06/2004      Group:  
 Rig Number: 495

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/28/2004	06:00 - 06:00	24.00	01		COMRNC	RIGGING DOWN DRILLING RIG
05/29/2004	06:00 - 06:00	24.00	01		COMRNC	WAIT ON TRUCKS RIGDOWN PATTERSON RIG 503 MOVE OFF LOCATION AND STACK ON FEDERAL 28#3 LOCATION DRESS UP LOCATION AND REPLACE BARBED WIRE FENCE AROUND RESERVE PIT NO ACCIDENTS OR POLLUTION
05/30/2004	06:00 - 06:00	24.00	24	D	COMRNC	HOBBS ANCHOR INC. SET 4 ANCHORS ON DRILL PAD PULL TEST ANCHORS TO 23,000 FT/LBS WAIT ON POOL CO. COMPLETION RIG OVER HOLIDAYS
05/31/2004	06:00 - 06:00	24.00	24	D	COMRNC	WAITING ON POOL CO. COMPLETION RIG OVER HOLIDAYS
06/01/2004	06:00 - 06:00	24.00	24		COMRNC	WAITING ON POOL CO. COMPLETION RIG OVER HOLIDAYS PREP TO MIRU POOL CO. COMPLETION RIG, G&L REVERSE UNIT AND WEATHERFORD 2-7/8" WORKSTRING
06/02/2004	06:00 - 07:00	1.00	01		COMRNC	WO RIG CREW TO ARRIVE ON LOCATION
	07:00 - 10:30	3.50	01		COMRNC	RU POOL CO. RIG #571 NU G&L BOP UNLOAD AND STRAP 255 JTS OF 2-7/8" 6.5#/FT L-80 TBG RENTAL FROM WEATHERFORD 6-EACH 4-1/4" DC, 6-1/8" BIT, SUBS RENTAL FROM G&L RENTALS PU/MU RIH W/ 6-1/8" BIT, BIT SUB, 6 EA. 4-1/4" DC, X-O SUB AND 216 JTS TBG. TAG DV TOOL AT 6799' SLM
	10:30 - 15:15	4.75	31	F	COMRNC	RU G&L STRIPPER HEAD AND PWR SWIVEL
	15:15 - 16:00	0.75	31	F	COMRNC	BRK CIRC AND DRILLED UP DV TOOL AND PLUGS FROM 6799' - 6802'
	16:00 - 16:45	0.75	31	F	COMRNC	CIRC CLEAN
	16:45 - 17:30	0.75	31	F	COMRNC	RD PWR SUB AND STRIPPER
	17:30 - 18:00	0.50	31	F	COMRNC	LOWER BIT AND TBG AND TAG AT 7696' SLM
	18:00 - 18:30	0.50	31	F	COMRNC	RU STRIPPER AND PWR SUB REV CLEAN FROM 7696' - 7698' 10K WOB STOPPED TO PREVENT DRILLING UP BTM PLUG
	18:30 - 19:00	0.50	31	F	COMRNC	RD PWR SUB AND LAY DWN 1 JT SWI SDFN NO ACCIDENTS OR POLLUTION REPORTED PREP TO TOH AND RU HALLIBURTON WL TO LOG
06/03/2004	06:00 - 07:00	1.00	31	H	COMRNC	WO CREWS
	07:00 - 08:30	1.50	31	H	COMRNC	TOH W/ WORKSTRING AND DC, BIT
	08:30 - 15:15	6.75	39	B	COMRNC	RU HALLIBURTON WL / SAFETY MTG ON OPERATIONS 1ST RUN TMDL LOG FROM 7680'-6500' (WLM) 2ND RUN CBL LOG FROM 7680' TO 6900' W/O PRESSURE AND 6900'-6200' W/ 1500 PSI PRESSURE GOOD CEMENT FROM 6780' - 6200' TOP OF CEMENT APPROX 3000' RATTY FROM 6200' - 3000'
	15:15 - 18:15	3.00	39	C	COMRNC	3RD RUN SCIENTIFIC DRILLING GYRO SURVEY AT 100' STATIONS FROM SURFACE TO 7680' NO ACCIDENTS OR POLLUTION REPORTED SWI SDFN
	18:15 - 20:00	1.75	39		COMRNC	PREP TO TIH W/ BIT AND SCRAPER /CIRC HOLE CLEAN W/ 2% KCL WTR / TOH LD TBG AND TOOLS

# KERR-MCGEE CORPORATION

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 Contractor Name: POOL  
 Rig Name: POOL

Start: 05/28/2004      Spud Date: 05/07/2004  
 End: 07/22/2004  
 Rig Release: 07/06/2004      Group:  
 Rig Number: 495

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
06/04/2004	06:00 - 07:00	1.00	31	F	COMRNC	WO CREW
	07:00 - 09:00	2.00	31	F	COMRNC	LD BHA FROM DERRICK
						TIH W/ BIT AND SCRAPER TO 7698'
	09:00 - 10:30	1.50	24	C	COMRNC	WAIT ON CHAPPERAL WATER TRUCKS / LATE
	10:30 - 12:00	1.50	31	F	COMRNC	CIRC HOLE CLEAN W/ 300 BBLS 2%KCL WATER
	12:00 - 15:00	3.00	31	F	COMRNC	TOH LD 2-7/8" WORKSTRING AND SCRAPER,BIT
						LOAD OUT SAME
06/05/2004	15:00 - 16:00	1.00	31	F	COMRNC	CHANGE PIPE RAMS FROM 2-7/8" TO 2-3/8"
	16:00 - 17:00	1.00	31	F	COMRNC	RU POOL CO. HIGH PRESSURE PMP TRK / TEST 7" CASING TO 3500 PSI FOR 5 MIN / OK
						SWI SDFN
						PREP TO UNLOAD AND STRAP 2-3/8" PRODUCTION TBG
						RU HALLIBURTON WL AND PERFORATE
	06:00 - 07:00	1.00	31	H	COMRNC	WAIT ON RIG CREW
	07:00 - 08:00	1.00	31	H	COMRNC	UNLOAD AND STRAP 242 JTS OF 2-3/8" 4.7# J55 EUE TBG
	08:00 - 15:30	7.50	39	L	COMRNC	RU HALLIBURTON WL / IN 7 RUNS PERFORATED 7130' - 7183' AND 7246' - 7330' WITH
						4" HSC CSG GUNS / 19 GR CHG / .45 EHD / 90 DEG PHASE / 4 SPF / TOTAL 548 HOLES
						RD RL HALLIBURTON / MAINTAINING FLUID LEVEL AT 3800' W/ 1.25 BPM PUMP RATE
	15:30 - 17:00	1.50	33	E	COMRNC	PUMU RIH W/ 6' 2-3/8" J55 EUE PUP JT., 1-EA. 2-3/8" SEAT NIPPLE, ON 226 JTS 2-3/8" 4.7#
						J55 EUE TBG. / EOT AT 7082.21 / SN AT 7075.01'
	17:00 - 19:00	2.00	14		COMRNC	ND BOPE AND NU 7-1/16" 5M DOUBLE MASTER TREE, W/ CROWN VALVE, WING VALVE
						AND ADJ. CHOKE
	19:00 - 19:30	0.50	01		COMRNC	RIG DOWN AND RELEASE POOL CO. RIG 571 / RELEASE ALL RENTALS
						NO ACCIDENTS OR POLLUTION REPORTED
						PREP TO WAIT ON ACID FRAC SCHEDULED FOR WEDNESDAY (6-9-04)
06/06/2004	06:00 - 06:00	24.00	24	C	COMRNC	WELL SHUT IN WAITING ON ACID FRAC JOB SET UP FOR WEDNESDAY 6-9-04
06/07/2004	06:00 - 06:00	24.00	24	C	COMRNC	WELL SHUT IN WAITING ON ACID FRAC JOB SET UP FOR WEDNESDAY 6-9-04
06/08/2004	06:00 - 06:00	24.00	26		COMRNC	WELL SHUT IN WAITING ON ACID FRAC JOB ON WEDNESDAY 6-9-04
06/09/2004	06:00 - 06:00	24.00	24	C	COMRNC	SET 1 PLASTIC COATED FRAC TANK FOR ACID / SET 1 FRAC TANK AND POOL CO. FILLED W/ 500 BBLS OF 2% KCL WATER / BUILT BERM AROUND TANKS / LAYED FLOW LINE TO PIT AND RETURN FRAC TANK / NO ACCIDENTS OR POLLUTION REPORTED / PREPARE TO FILL COATED TANK W/ 20% ACID AND BJ SERVICES FRAC PENN PERFS
06/10/2004	06:00 - 10:30	4.50	24	C	COMRNC	WAIT ON BJ ACID PUMP TRUCKS AND EQUIP / RIGGED UP BJ NITROGEN SERVICES WHILE WAITING
	10:30 - 14:30	4.00	34	A	COMRNC	RIGGING UP AND WAIT ON WATER
	14:30 - 16:30	2.00	34	A	COMRNC	HELD SAFETY MTG ON OPERATIONS / TEST TREATING LINE 4500 PSI / RU BJ ACID FRAC UPPER PENN PERFS 7130'-7330' W/ 95 BBLS PAD OF 2% KCL WATER / 238 BBLS 22% ACID PLUS

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Legal Well Name: FEDERAL 28 #4  
 Common Well Name: FEDERAL 28 #4  
 Event Name: COMPLETION  
 Contractor Name: POOL  
 Rig Name: POOL

Spud Date: 05/07/2004  
 Start: 05/28/2004 End: 07/22/2004  
 Rig Release: 07/06/2004 Group:  
 Rig Number: 495

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
06/10/2004	14:30 - 16:30	2.00	34	A	COMRNC	ADDITIVES ( 9996 GALS 20.8% NEAT ACID = 20,000 GALS FOAMED ACID) WITH 1 BALL SEALER IN EVERY BBL OF ACID / PUMP 66 BBL PAD OF 2% KCL WATER / FOLLOW BY 265 BBLS 22% ACID + ADDITIVES AND 1 BALL SEALER IN EVERY BBL OF ACID ALL FLUIDS FOAMED TO 63 QUALITY W/ 19,000 - 33,000 SCFM N2 / AVG INJ FLUID RATE OF 16 BBL, N2 RATE 30,000 SCF/MIN AT 3352 PSI AND DOWNHOLE RATE OF 41 - 34 BPM / SAW GOOD BALL ACTION WITH 1ST STAGE ACID PAD ( 904 PSI INCREASE) & SECOND STAGE ( 615 PSI) / OVER DISPLACE W/ 4 BBLS N2 / ISIP 2237 / RD RL BJ SERVICES / TOTAL OF 1.610 M SCF N2 USED / TOTAL OF 670 BBLS FLUID TO RECOVER
	16:30 - 17:30	1.00	36	A	COMRNC	RU PRO WELL TESTING FLOWBACK MANIFOLD W/ DUAL CHK OPEN WELL WITH 750 PSI SITP AND 750 SICP / START FLOWBACK AT 17:30 HRS ON 12/64 CHK
	17:30 - 06:00	12.50	36	A	COMRNC	IN 12.5 HRS FLOWED WELL ON 12/64" - 18/64" TO PIT W/ N2 AND TO FRAC TANK WHEN MAKING FLUID / RECOVERED APPROX. 10 BLAW / FTP 750 - 175 PSI / SICP 750 - 250 PSI / GAS WILL NOT BURN YET (TOO MUCH N2 ) MAKING FINE MIST OF FLUID SPORADICALLY
06/11/2004	06:00 - 17:00	11.00	36	A	COMRNC	NO ACCIDENTS OR POLLUTION REPORTED FLOWING WELL THRU CHOKE MANIFOLD ON 18/64" - 32/64" CHOKE / FTP 175 - 25 PSI / UNLOADED APPROX 10 BBLS FLUID INTERMITTANTLY / WELL LOADED UP AND DIED / SHUT WELL IN AND RD CHOKE MANIFOLD / NO ACCIDENTS OR POLLUTION REPORTED
06/12/2004	06:00 - 06:00	24.00	24	C	COMRNC	PREPARE TO FIND SWAB RIG AND START SWABBING 11 HR SITP 100 PSI / OPEN WELL ON 14/64" CHK / BLEW DWN IN 15 MIN / CONTINUE MONITOR FOR FLUID FROM 08:00 AM TO 15:00 HRS / OPEN TO PIT ON 32/64" CHK AND NO FLUID RECOVERED / FAIR CONTINUOUS BLOW / SHUT WELL WAITING ON SWAB RIG
06/13/2004	06:00 - 06:00	24.00	24	C	COMRNC	12 HR SITP 150 PSI / OPEN WELL UP AND BLEW DWN IN 20 MIN.. STARTED UNLOADING FLUID AFTER BEING OPEN FOR 2 HRS. / FLOWED BACK 6 BBL IN SLUGS ABOUT EVERY 2 HRS / FROM 2PM TO 5 PM NO FLOW / SWI SDFN / TRYING TO FIND SWAB RIG OR WORKOVER RIG W/ SWAB LINE
06/14/2004	06:00 - 06:00	24.00	24	C	COMRNC	12 HR SITP 150 PSI / OPEN WELL TO PIT AND BLEW DWN IN 30 MIN / STARTED MAKING FLUID AFTER BEING OPEN 1 HR. FLOWED BACK APPROX. 5 BBLS IN SLUGS / MAKING SLUGS OF FLUID EVERY 1.5 - 2.0 HRS WITH GOOD BLOW TO NO BLOW BETWEEN SLUGS / NO FLOW FROM 1:00 PM TO 4:30 PM / SWI SDFN
06/15/2004	06:00 - 08:00	2.00	24	C	COMRNC	WAITING ON SWAB RIG OR WORKOVER RIG 12 HR SITP 150 PSI SICP 220 PSI OPEN WELL AND BLEW DWN IN 20 MIN.
	06:00 - 06:00	24.00	42		EVAL	FLOWED BACK APPROX 3 BBL FLUID MIRU POOL WS RIG 556, RIH w SWAB TOOLS, SCATTERED FLUID SURFACE TO SN 7000', MADE 18 SWAB RUNS, REC 28 BLAW, SDFN / - 612 BLW
	08:00 - 09:30	1.50	10		COMRNC	MIRU POOL CO RIG # 566
	09:30 - 17:30	8.00	36	A	COMRNC	HELD SAFETY MTG ON OPERATIONS IN 18 RUNS SWAB SCATTERED FLUID FROM 0' - 6700' RECOVERED 18 BBLS FLUID (-643 BLAW)

# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name:	FEDERAL 28 #4		
Common Well Name:	FEDERAL 28 #4	Start:	05/28/2004
Event Name:	COMPLETION	End:	07/22/2004
Contractor Name:	POOL	Rig Release:	07/06/2004
Rig Name:	POOL	Group:	
		Rig Number:	495

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
06/15/2004	09:30 - 17:30	8.00	36	A	COMRNC	NO ACCIDENTS OR POLLUTION REPORTED PREP TO CONTINUE SWABBING
06/16/2004	06:00 - 06:00	24.00	26		COMRNC	14 HR SITP 175 PSI SICP 210PSI / BLEED TBG TO 0 PSI / RIH W/ SWAB MILKED POH REC 1.5 BW / SI 1 HR RIH MADE 1 SWAB RUN REC 1.5 BW / BLEED CP TO 0PSI / TOTAL REC 18 BLW / LEFT CSG OPEN TO SALES
06/17/2004	06:00 - 06:00	24.00	26		COMRNC	NO FLW ON TBG / SITP 0 PSI, FCP 25 PSI, BLED TO 0 PSI / ND TREE, NU BOP, LWR TBG 94' (3 JTS) TS @ 7171', ND BOP, NU TREE, RU SWAB, STATIC FL 6950' FS, 15 SWAB RUNS, REC 20 BLW, FL 200' ABOVE SN / RD POOL COMP RIG / MIRU KEY SWAB RIG / SDFN
06/18/2004	06:00 - 06:00	24.00	26		COMRNC	SITP & CP 0 PSI / SWAB 10 HRS END 7 PM REC 46 BLW FL 6700' / SDFN NO FLW @ RPT TIME / FLW 3 MCF LAST 12 HR
06/19/2004	06:00 - 06:00	24.00	26		COMRNC	SWAB 11HRS END 7 PM REC 55 BLW FL 6700' / SDFN
06/20/2004	06:00 - 06:00	24.00	26		COMRNC	SWAB 6 HRS END 2 PM REC 41 BLW / AIR LINE ON CLUTCH INSIDE DRUM BUSTED / SDFN
06/21/2004	06:00 - 11:00	5.00	08	A	COMRNC	RIG REPAIR 7 AM T- 12 NOON / REPAIR AIR LINE ON CLUTCH
06/22/2004	11:00 - 06:00	19.00	26		COMRNC	SWAB 6 1/2 HRS END 6:30 PM REC 49 BLW FL STABLE @ 6500'
06/22/2004	06:00 - 06:00	24.00	26	A	COMRNC	SOLD 4 MCF, SWAB 11 HRS END 6:30 PM REC 51 BLW / FL 6500' - 6900' / LAST 3 HRS FL @ 6900' FS, 1 BPH / SDFN (-389 BLAW)
06/23/2004	06:00 - 06:00	24.00	26		COMRNC	WELL OPEN TO TEST TANK / NO FLOW / SWAB WELL 9 HRS END 4:00 PM / REC 0 BO / 0 GAS / 17 BLW / STARTING FL 6,900' / END FL 6,900' / NO FLOW / LEFT WELL OPEN TO TEST TANK / RIG DOWN & RELEASE KEY SWAB RIG / WAITING ON COMPLETION RIG FOR RECOMPLETION
06/24/2004	06:00 - 06:00	24.00	26		COMRNC	WAITING ON COMPLETION RIG / HAULED OFF 250 BBLs PRODUCED (SWABBED) FLUID OUT OF FRAC TANK TO DISPOSAL ON LEASE.
06/25/2004	06:00 - 06:00	24.00	26		COMRNC	MIRU POOL WELL SERVICE RIG#495 AND ASSOCIATED WELL WORK EQUIPMENT / ND XMAS TREE / NU BOPE / KILL WELL DOWN ANNULUS WITH TREATED FRESH WATER / TRIP OUT OF HOLE WITH 2 3/8" TUBING / CWI / SDFN
06/26/2004	06:00 - 06:00	24.00	26		COMRNC	KILL WELL DOWN 7" CASING / TRIP ON HOLE WITH 6 1/8" ROCKBIT, 7" CASING SCRAPER, & BIT SUB ON 2 3/8" PRODUCTION TUBING / TAG @ 7,698' PBTD / TRIP OUT OF HOLE LAYING DOWN 2 3/8" PRODUCTION TUBING AND TOOLS / CWI / SDFN
06/27/2004	06:00 - 06:00	24.00	26		COMRNC	CREWS OFF
06/28/2004	06:00 - 06:00	24.00	26		COMRNC	CREWS OFF
06/29/2004	06:00 - 06:00	24.00	26		COMRNC	KILL WELL DOWN 7" CASING / SCHLUMBERGER PERFORATED UPPER PENN F-7,400' T-7,490' 4JSPF (360 HOLES) WITH 4" HEGS GUN 90 DEG PHASED BY HLS TMD/CCL LOG DATED 06-02-2004 / JC @ 10:15 HRS / TRIP IN HOLE WITH BAKER 7" CST 10K PACKER ON 3 1/2" 9.3#-FT L-80 EUE 8RD WORKSTRING / SET PACKER @ 7,370' / ND BOPE / NU 3 1/16" 10M XMAS TREE / CWI / SDFN
06/30/2004	06:00 - 06:00	24.00	26		COMRNC	UNLOAD, RACK, & TALLY 184 JOINTS 2 3/8" 4.7#-FT J-55 IPC TUBING & 66 JOINTS 2 3/8" 4.7#-FT J-55 IPC/EPC TUBING / SDFN
07/01/2004	06:00 - 06:00	24.00	26		COMRNC	CREWS OFF
07/02/2004	06:00 - 06:00	24.00	26		COMRNC	INSTALL 10M TREE SAVER IN 3 1/16" 10M TREE / MI BJ SERVICES / HELD PRE-JOB SAFETY MEETING WITH ALL PERSONELL ON LOCATION / BJ SERVICES TESTED LINES TO 9,000 PSI / BJ SERVICES ACIDIZED PENN PERFS F-7,400' T-7,490' IN THREE

# KERR-MCGEE CORPORATION

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Spud Date: 05/07/2004  
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 Rig Number: 495

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
07/02/2004	06:00 - 06:00	24.00	26		COMRNC	STAGES WITH 3,990 GALS GELLED 2% KCL WATER, 5,880 GALS 20% HCL, & FLUSH WITH N2 FOAMED TO 60 QUALITY USING 520 - 7/8" BIOSEALERS AS DIVERTER / BDP 4,770 PSI / MAXP 6,303 PSI / MINP 3,099 PSI / FP 3,099 PSI / ISIP 1,190 PSI / 5 MIN 622 PSI / 10 MIN 594 PSI / 15 MIN 556 PSI / J. C. @ 10:45 HRS / -456 BLAW / REMOVED TREE SAVER / MO BJ SERVICES / KILL WELL DOWN ANNULUS / KILL WELL DOWN 3 1/2" TUBING / ND TREE / NU BOPE / TRIP OUT OF HOLE LAYING DOWN 3 1/2" WORKSTRING AND PACKER / CHANGE OUT PIPE RAMS TO 2 3/8" AND NU ANNULAR PREVENTER / CWI / SDFN
07/03/2004	06:00 - 06:00	24.00	26		COMRNC	KILL WELL DOWN 7" CASING WITH TREATED FRESH WATER / ND BOPE / INSTALL SEABORG WELLHEAD / NU BOPE / PICK UP AND MAKE UP SUB PUMP ASSEMBLY / TRIP IN HOLE WITH SUB PUMP ASSEMBLY ON 2 3/8" PRODUCTION TUBING / SPACE OUT AND SPLICE POWER CABLE AND 3/8" OD NYLON CAPILLARY TUBE / LAND TUBING IN WELLHEAD / TS @ 7,632.87' / INTAKE @ 7,603.54' / ND BOPE / LOAD TUBING WITH TREATED FRESH WATER / TURN ON PUMP TO INSURE PROPER OPERATION / PUMP RUNNING OK / TURN OFF PUMP / SHUT IN TUBING / LEFT 7" CASING VENTED TO FRAC TANK TO DISPEL N2 AND O2 FROM WELLBORE BEFORE GOING DOWN SALES LINE / SDFN / WILL FABRICATE AND INSTALL FLOWLINE ON LIQUID SIDE IN A.M.
07/04/2004	06:00 - 06:00	24.00	26		COMRNC	7" CASING VENTING TO FRAC TANK / FABRICATED FLOWLINE ON LIQUID SIDE / WELL PUMPING TO FACILITY STARTED SUB @ 10 AM, PUT TO SALES 11AM / WELL TEST ONE DAY LATE / WILL RELEASE PULLING UNIT ON TUESDAY JULY 6TH
07/05/2004	06:00 - 06:00	24.00	26		COMRNC	13 HR WELL TEST, 59 MCF, 419 WTR, 0 OIL, 60 HZ, 17 A, 170 MT, 526 FBHP, 491 PERFF PSI, 35 DIFF, 205 TP, 22 CP, 16 SP, GAS RATE IS 130 MCF, WILL SPEED UP TO 62 HZ
07/06/2004	06:00 - 06:00	24.00	26		COMRNC	24 HR WELL TEST, 64 MCF, 476 WTR, 0 OIL, 61.5 HZ, 17 A, 175 MT, 513 FBHP, 474 PERFF PSI, 39 DIFF, 210 TP, 19 CP, 16 SP
07/07/2004	06:00 - 06:00	24.00	26		COMRNC	RDMO POOL W/S RIG #495 / RELEASED RIG @ 10:00 HRS ON 07-06-2004 / 24 HR WELL TEST, 64 MCF, 570 WTR, 0 OIL, 63.6 HZ, 30 A, 181 MT, 494 FBHP, 453 PERFF PSI, 43 DIFF, 223 TP, 23 CP, 16 SP
07/08/2004	06:00 - 06:00	24.00	26		COMRNC	SL 24 HRS, WELL TESTED, 119 MCF, 550 WTR, 0 OIL, 63.5 HZ, 30 A, 183 MT, 490 FBHP, 448 PERFF PSI, 42 DIFF, 227 TP, 27 CP, 17 SP
07/09/2004	06:00 - 06:00	24.00	26		COMRNC	SL 24 HRS, WELL TESTED, 114 MCF, 474 WTR, 0 OIL, 64.8 HZ, 31 A, 188 MT, 487 FBHP, 444 PERFF PSI, 43 DIFF, 209 TP, 23 CP, 16 SP
07/10/2004	06:00 - 06:00	24.00	26		COMRNC	SL 24 HRS, WELL TESTED, 160 MCF, 513 WTR, 0 OIL, 64.7 HZ, 31 A, 191 MT, 485 FBHP, 442 PERFF PSI, 43 DIFF, 212 TP, 23 CP, 16 SP
07/11/2004	06:00 - 06:00	24.00	26		COMRNC	SL 21 HRS, POWER FAILURE, WELL TESTED, 163 MCF, 554 WTR, 0 OIL, 63.6 HZ, 31 A, 188 MT, 481 FBHP, 437 PERFF PSI, 44 DIFF, 207 TP, 30 CP, 18 SP
07/12/2004	06:00 - 06:00	24.00	26		COMRNC	SL 24 HRS, WELL TESTED, 237 MCF, 339 WTR, 0 OIL, 63.6 HZ, 31 A, 188 MT, 473 FBHP, 424 PERFF PSI, 49 DIFF, 205 TP, 28 CP, 18 SP
07/13/2004	-					
07/14/2004	06:00 - 06:00	24.00	36		PROD	SL 24HRS, 342 MCF, 330 WTR, 0 OIL, 63.5 HTZ, 30 A, 188 MTR, 469 FBHP, 418 PERF-PSI, 51 DIFF-PSI
07/15/2004	06:00 - 06:00	24.00	36	A	PROD	SL 24HRS, 404 MCF, 196 WTR, 0 OIL, 0 HTZ, 0 A, 157 MTR, 440

# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name:	FEDERAL 28 #4		Spud Date: 05/07/2004
Common Well Name:	FEDERAL 28 #4		
Event Name:	COMPLETION	Start: 05/28/2004	End: 07/22/2004
Contractor Name:	POOL	Rig Release: 07/06/2004	Group:
Rig Name:	POOL	Rig Number: 495	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
07/15/2004	06:00 - 06:00	24.00	36	A	PROD	FBHP, 427 PERF-PSI, 13 DIFF-PSI / HAVING PROBLEMS WITH VARIABLE SPEED DRIVE - CENTRILIFT DRIVE TECH WILL BE OUT TO LOOK AT.
07/16/2004	06:00 - 06:00	24.00	36		PROD	SL 21HRS, 367 MCF, 506 WTR, 0 OIL, 63.6 HTZ, 29 A, 190 MTR, 466 FBHP, 421 PERF-PSI, 45 DIF-PSI
07/17/2004	06:00 - 06:00	24.00	36		PROD	SL 24HRS, 588 MCF, 335 WTR, 0 OIL, 63.5 HTZ, 30 A, 190 MTR, 464 FBHP, 416 PERF-PSI, 48 DIF-PSI
07/18/2004	06:00 - 06:00	24.00	36		PROD	SL 24HRS, 595 MCF, 340 WTR, 0 OIL, 63.5 HTZ, 30 A, 192 MTR, 460 FBHP, 411 PERF-PSI, 49 DIF-PSI
07/19/2004	06:00 - 06:00	24.00	36		PROD	SL 24HRS, 605 MCF, 345 WTR, 0 OIL, 63.5 HTZ, 30 A, 192 MTR, 449 FBHP, 399 PERF-PSI, 50 DIFF-PSI
07/20/2004	-					
07/21/2004	06:00 - 06:00	24.00	36	A	PROD	SL 21 HRS, 662 MCF, 288 WTR, 0 OIL, 28 A, 197 MTR, 451 FBHP, 397 PERF-PSI, 54 DIFF-PSI
07/22/2004	06:00 - 06:00	24.00	36	A	PROD	SL 24HRS, 690 MCF, 416 WTR, 0 OIL, 63.5 HTZ, 28 A, 197 MTR, 442 FBHP, 386 PERF-PSI, 56 DIFF-PSI / -----FINAL REPORT-----