

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 0225359**

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 TX**

**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>Spud</u> |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | <u>&amp; Drill to TD</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 recomplate 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 recomplate 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 that drilling activity commenced for the Federal 28-4 on May 8, 2004.  
A detailed report of this operation is attached.

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		Spud Date: 05/07/2004
Common Well Name:	FEDERAL 28 #4		
Event Name:	DRILLING	Start: 05/04/2004	End: 05/27/2004
Contractor Name:	PATTERSON DRILLING CO.	Rig Release: 05/26/2004	Group:
Rig Name:	PATTERSON	Rig Number: 503	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/08/2004	06:00 - 13:00	7.00	01		DRLSUR	SURVEY, STAKE, ARC SURVEY, AND BUILD LOCATION ON THE FEDERAL 28 LEASE IN EDDY COUNT, NEW MEXICO AT 1725' FNL & 1750' FEL IN SEC 28; T21S; R23E / ABBOT BROS DRILL STARTING HOLE & SET 40' OF 16" CONDUCTOR PIPE / MIRU PATTERSON-UTI DRILLING COMPANY RIG #503 & OMNI-AIR DRILLING / MAKE PRE-SPUD RIG INSPECTION / HOLD PRE-SPUD SAFETY MEETING / GET ALL AIR TO FLUID CONNECTIONS MADE UP AND TESTED / KDB-GND 17.50' / SPUD WELL @ 1300 HRS ON 05-07-2004 / CALLED AND NOTIFIED JIM AMOS WITH THE BLM BY HIS VOICE MESSAGE SYSTEM OF OUR INTENT TO SPUD ON 05-06-2004 @ 1605 HOURS / CALLED AND NOTIFIED JIM AMOS WITH THE BLM AGAIN ON 05-07-2004 @ 1000 HRS OF OUR INTENT TO SPUD WELL AND LEFT MESSAGE ON HIS VOICE MESSAGE SYSTEM
	13:00 - 06:00	17.00	02	A	DRLSUR	DRILLING 12 1/4" HOLE F-58' T-170' / 112' / ROP 6.5 FPH / WOB 40K / RPM 90 / AIR MIST 3400 CFM / PSI 200 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** RIG FUEL ON HAND: 6,878 GALS RIG FUEL USED: 369 GALS RIG FUEL RECEIVED: 5,695 GALS OMNI-AIR FUEL ON HAND: 3,500 GALS OMNI-AIR FUEL USED: 720 GALS
05/09/2004	06:00 - 22:00	16.00	02	A	DRLSUR	DRILLING 12 1/4" HOLE F-170' T-544' / 112' / ROP 23.3 FPH / WOB 87K / RPM 70 / AIR MIST @ 3400CFM / PSI 220 / MAKING WATER TO RESERVE PIT
	22:00 - 22:30	0.50	10		DRLSUR	DEVIATION SURVEY @ 498' - 1/2 DEGREE
	22:30 - 06:00	7.50	02	A	DRLSUR	DRILLING F-544' T-760' / 216' / ROP 28.5 FPH / RPM 70 / AIR MIST @ 3400 CFM / PSI 220 / MAKING WATER TO RESERVE PIT ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** RIG FUEL ON HAND: 6,485 GALS RIG FUEL USED: 393 GALS OMNI AIR FUEL ON HAND: 2,800 GALS OMNI AIR FUEL USED: 700 GALS
05/10/2004	06:00 - 11:00	5.00	02	A	PROD	DRILLING 12 1/4" HOLE F-760' T-927' / 167' / ROP 33.4 FPH / RPM 70 / AIR MIST @ 3400 CFM / PSI 300
	11:00 - 11:30	0.50	26		PROD	CHANGE OUT ROTATING HEAD ELEMENT
	11:30 - 15:30	4.00	02	A	PROD	DRILLING F-927' T-1,020' / 93' / ROP 23.3 FPH / RPM 70 / AIR MIST @ 3400 CFM / PSI 300
	15:30 - 16:00	0.50	10		PROD	DEVIATION SURVEY @ 978' - 1 DEGREE
	16:00 - 02:00	10.00	02	A	PROD	DRILLING F-1,020' T-1,330' / 310' / ROP 31 FPH / RPM 70 / AIR MIST @ 3400 CFM / PSI 300 / TD SURFACE HOLE @ 0200HRS MDT (0300HRS CDT) 05-10-2004
	02:00 - 03:30	1.50	05	A	PROD	CLEAN HOLE WITH AIR MIST
	03:30 - 05:00	1.50	06	H	PROD	TRIP OUT OF HOLE TO 8" DRILL COLLARS
	05:00 - 06:00	1.00	26		PROD	RIG UP LAYDOWN MACHINE TO LAYDOWN DRILL COLLARS AND PICK UP 9 5/8" CASING @ REPORT TIME ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** RIG FUEL ON HAND: 6,179 GALS RIG FUEL USED: 306 GALS OMNI-AIR FUEL ON HAND: 1,800 GALS

# 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:	DRILLING	Start: 05/04/2004	End: 05/27/2004
Contractor Name:	PATTERSON DRILLING CO.	Rig Release: 05/26/2004	Group:
Rig Name:	PATTERSON	Rig Number: 503	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/10/2004	05:00 - 06:00	1.00	26		PROD	OMNI-AIR FUEL USED: 1,000 GALS
05/11/2004	06:00 - 07:30	1.50	06	H	DRLSUR	FINISH LAYING DOWN 8" DRILL COLLARS
	07:30 - 08:00	0.50	12	B	DRLSUR	RIG UP BULL ROGERS CASING CREW / HOLD SAFETY MEETING ON RUNNING CASING
	08:00 - 10:30	2.50	12	A	DRLSUR	RAN 31 JTS 9 5/8" 36#-FT J-55 STC CASING / CS 1,325' / FC 1,275' / RIG UP BJ CEMENTING HEAD
	10:30 - 12:00	1.50	12	C	DRLSUR	BJ SERVICES CEMENTED 9 5/8" CASING WITH 1ST LEAD 180 SX "H"+10% A-10-B THIX+1% CACL2+10#-SK LCM-1+0.25#-SK CELLO FLAKE , 2ND LEAD 425 SX 35:65:6 BJ LITE+2% CACL2+5#-SK LCM-1+0.25#-SK CELLO FLAKE TIW 200 SX "C" +2% CACL2+0.25#-SK CELLO FLAKE / FP 625 - 1400 PSI / PD @ 1200 HRS 05-10-2004 / HELD PRESSURE 5 MIN / RELEASED PRESSURE / FLOAT HELD OK / CIRCULATED 210 BBLs CEMENT TO PIT / ALL CASING RUNNING AND CEMENTING WAS WITNESSED BY BLM REPRESENTATIVE PAUL SWARTZ
	12:00 - 16:00	4.00	13		DRLSUR	WAIT ON CEMENT
	16:00 - 22:00	6.00	14		DRLSUR	CUT OFF 16" CONDUCTOR PIPE / MAKE ROUGH CUT ON 9 5/8" CASING / CUT OFF ROTATING HEAD FROM 16" CONDUCTOR / MAKE FINAL CUT ON 9 5/8" CASING / WELD ON AND TEST 9 5/8" X 11 3M "A" SECTION / TEST TO 1,000 PSI / HELD OK
	22:00 - 06:00	8.00	14		DRLSUR	NIPPLE UP BOPE & CHOKE MANIFOLD / TEST PIPE RAMS 250 LOW-3,000 HIGH / BLIND RAMS 250 LOW-3,000 HIGH / HYDRIL 250 LOW-1,500 HIGH / CHOKE MANIFOLD 250 LOW-3,000 HIGH / TESTING FLOOR VALVES @ REPORT TIME ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 5,969 GALS FUEL USED: 210 GALS
05/12/2004	06:00 - 09:00	3.00	15		DRLPRO	FINISH TESTING BOPE & RIG DOWN TESTERS / INSTALL FLOWLINE / GROUT IN SURFACE CASING WITH READY MIX CEMENT
	09:00 - 13:00	4.00	06	D	DRLPRO	PICK UP AND MAKE UP PACKED HOLE ASSEMBLY / TRIP IN HOLE WITH PACKED HOLE ASSEMBLY, DRILL COLLARS, AND JARS TO 1,012'
	13:00 - 14:00	1.00	09		DRLPRO	CUT AND SLIP 125' DRILLING LINE
	14:00 - 17:00	3.00	25		DRLPRO	FINISH TRIP IN HOLE / TAG AND DRILL OUT CEMENT F-1,265' T-1,274' / DRILL OUT WIPER PLUG AND FLOAT COLLAR F-1,274' T-1,276' / DRILL OUT 1/2 OF SHOE JOINT
	17:00 - 17:30	0.50	25		DRLPRO	TEST 9 5/8" CASING TO 1,000 PSI / HELD OK
	17:30 - 18:00	0.50	25		DRLPRO	FINISH DRILLING OUT SHOE JOINT
	18:00 - 22:00	4.00	02	A	DRLPRO	DRILLING 8 3/4" HOLE F-1,330' T-1,432' / 102' / ROP 25.5 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250
	22:00 - 22:30	0.50	10		DRLPRO	DEVIATION SURVEY @ 1,390' - 1 DEGREE
	22:30 - 06:00	7.50	02	A	DRLPRO	DRILLING F-1,432' T-1,680' / 248' / ROP 33 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 5,542 GALS FUEL USED: 427 GALS
05/13/2004	06:00 - 11:30	5.50	02	A	DRLPRO	DRILLING 8 3/4" HOLE F-1,680' T-1,908' / 228' / ROP 41.4 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250
	11:30 - 12:00	0.50	10		DRLPRO	DEVIATION SURVEY @ 1,867' - 1/4 DEGREE
	12:00 - 01:00	13.00	02	A	DRLPRO	DRILLING F-1,908' T-2,381' / 473' / ROP 36.3 FPH / WOB 65K / RPM

# KERR-MCGEE CORPORATION

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Legal Well Name:	FEDERAL 28 #4		Spud Date: 05/07/2004
Common Well Name:	FEDERAL 28 #4		
Event Name:	DRILLING	Start: 05/04/2004	End: 05/27/2004
Contractor Name:	PATTERSON DRILLING CO.	Rig Release: 05/26/2004	Group:
Rig Name:	PATTERSON	Rig Number: 503	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/13/2004	12:00 - 01:00	13.00	02	A	DRLPRO	65 / SPM 60 / GPM 310 / PMP 1250
	01:00 - 01:30	0.50	10		DRLPRO	DEVIATION SURVEY @ 2,339' - 1 DEGREE
	01:30 - 06:00	4.50	02	A	DRLPRO	DRILLING F-2,381' T-2,507' / 126' / ROP 28 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 4,884 GALS FUEL USED: 658 GALS
05/14/2004	06:00 - 16:30	10.50	02	A	DRLPRO	DRILLING 8 3/4" HOLE F-2,507' T-2,856' / 349' / ROP 33.2 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250
	16:30 - 17:00	0.50	10		DRLPRO	DEVIATION SURVEY @ 2,814' - 3/4 DEGREE
	17:00 - 06:00	13.00	02	A	DRLPRO	DRILLING F-2,856' T-3,260' / 404' / ROP 31.1 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 4,214 GALS FUEL USED: 670 GALS
05/15/2004	06:00 - 08:00	2.00	02	A	DRLPRO	DRILLING 8 3/4" HOLE F-3,260' T-3,330' / 70' / ROP 35 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250
	08:00 - 09:00	1.00	10		DRLPRO	RAN 2 DEVIATION SURVEYS @ 3,293' / FIRST SURVEY WAS A MISRUN / SECOND SURVEY WAS 1 DEGREE
	09:00 - 00:30	15.50	02	A	DRLPRO	DRILLING F-3,330' T-3,771' / 441' / ROP 28.4 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250
	00:30 - 01:00	0.50	10		DRLPRO	DEVIATION SURVEY @ 3,731' - 3/4 DEGREE
	01:00 - 06:00	5.00	02	A	DRLPRO	DRILLING F-3,771' T-3,890' / 119' / ROP 23.8 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1250 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 3,546 GALS FUEL USED: 668 GALS
05/16/2004	06:00 - 20:30	14.50	02	A	PROD	DRILLING 8 3/4" HOLE F-3,890' T-4,277' / 387' / ROP 26.6 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1300
	20:30 - 21:00	0.50	10		PROD	DEVIATION SURVEY @ 4,230' - 1 DEGREE
	21:00 - 06:00	9.00	02	A	PROD	DRILLING F-4,277' T-4,495' / 218' / ROP 24.2 FPH / WOB 65K / RPM 65 / SPM 60 / GPM 310 / PMP 1300 ****NO ACCIDENTS OR POLLUTION REPORTED LAST 24 HOURS**** FUEL ON HAND: 2,731 GALS FUEL USED: 815 GALS
05/17/2004	06:00 - 06:30	0.50	02	A	INT1	DRLG FROM 4495' TO 4529' 34' IN 0.5 HRS = 68'/HR
	06:30 - 07:00	0.50	10		INT1	WOB 65 ROTARY 65 SPP 1300 310 GPM
	07:00 - 18:00	11.00	02	A	INT1	SURVEY AT 4488' 1.75 DEG
	18:00 - 18:30	0.50	10		INT1	DRLG FROM 4529' TO 4781' 252' IN 11 HRS = 22.91'/HR
	18:30 - 06:00	11.50	02	A	INT1	WOB 55 ROTARY 65 SPP 1300 324 GPM SURVEY AT 4730' 2.0 DEG DRLG FROM 4781' TO 4990' 209' IN 11.5 HRS = 18.2'/HR WOB 55 ROTARY 65 SPP 1300 324 GPM PROGRESS 495' IN 23 HRS = 21.5'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 1845 GAL USED 826 GALS
05/18/2004	06:00 - 06:30	0.50	10		INT1	SURVEY AT 4888' 2.25 DEG.
	06:30 - 17:30	11.00	02	A	INT1	DRLD FROM 4990' TO 5255' 265' IN 11 HRS = 24.1'/HR PR

# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name:	FEDERAL 28 #4		
Common Well Name:	FEDERAL 28 #4	Spud Date:	05/07/2004
Event Name:	DRILLING	Start:	05/04/2004
Contractor Name:	PATTERSON DRILLING CO.	End:	05/27/2004
Rig Name:	PATTERSON	Rig Release:	05/26/2004
		Rig Number:	503
		Group:	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/18/2004	06:30 - 17:30	11.00	02	A	INT1	WOB 48K ROTARY 65 SPP 1320 320 GPM
	17:30 - 02:30	9.00	06	I	INT1	TAKING WL SURVEY AND BROKE WL / DROPPED TOOL TO BTM TOH TO RECOVER TOOL AND CHECK BIT/ 4 BUTTONS MISSING, WORN
	02:30 - 06:00	3.50	02	A	INT1	MU RR BIT #3 SMITH F37HY #MT5680 JETTED 3/12 (BIT HAD 56 PREVIOUS HOURS RUN) TIH AND WASH 40' TO BTM (10' FILL) DRLG FROM 5255' TO 5320' 65' IN 3.5 HRS = 18.6'/HR PR WOB 50K ROTARY 65 SPP 1320 320 GPM PROGRESS 330' IN 14.5 HRS = 22.8'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 7421 USED 789 GALS
05/19/2004	06:00 - 07:30	1.50	02	A	INT1	DRLD FROM 5320' TO 5382' 62' IN 1.5 HRS = 41'/HR PR
	07:30 - 08:00	0.50	10		INT1	WOB 50 ROTARY 65 SPP 1300 320 GPM
	08:00 - 17:00	9.00	02	A	INT1	SURVEY AT 5341' 1.75 DEG. DRLD FROM 5382' TO 5572' 190' IN 9 HRS = 21.1'/HR PR
	17:00 - 17:30	0.50	10		INT1	WOB 50 ROTARY 65 SPP 1300 320 GPM
	17:30 - 02:30	9.00	02	A	INT1	SURVEY AT 5530' 1.75 DEG DRLD FROM 5572' TO 5762' 190' IN 9 HRS = 21.1'/HR PR
	02:30 - 03:00	0.50	10		INT1	WOB 50 ROTARY 65 SPP 1300 320 GPM
	03:00 - 06:00	3.00	02	A	INT1	SURVEY AT 5720' 1.5 DEG. DRLD FROM 5762' TO 5800' 38' IN 3 HRS = 12.6'/HR PR
05/20/2004	06:00 - 10:30	4.50	02	A	INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM BGG 60 CONN GAS 120 MAX GAS 200 50% SILT & 50% LIME PROGRESS 480' IN 22.5 HRS = 21.3'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 6683 GALS USED 738 GALS
	10:30 - 11:00	0.50	10		INT1	DRLD FROM 5800' TO 5920' 120' IN 4.5 HRS = 26.6'/HR PR
	11:00 - 19:00	8.00	02	A	INT1	50K WOB ROTARY 65 SPP 1300 320 GPM
	19:00 - 19:30	0.50	10		INT1	SURVEY AT 5879' 2.0 DEG
	19:30 - 02:30	7.00	02	A	INT1	DRLD FROM 5920' TO 6109' 189' IN 8 HRS = 23.6'/HR PR
	02:30 - 03:00	0.50	10		INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM
	03:00 - 06:00	3.00	02	A	INT1	SURVEY AT 6065' 1.25 DEG. DRLD FROM 6109' TO 6298' 189' IN 7 HRS = 27'/HR PR
05/21/2004	06:00 - 10:30	4.50	02	A	INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM BGG 60 CONN GAS 130 MAX GAS 260 PROGRESS 550' IN 22.5 HRS = 24.4'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 6074 GALS USED 609 GALS
	10:30 - 11:00	0.50	10		INT1	DRLD FROM 6298' TO 6350' 52' IN 3 HRS = 17.3'/HR PR
	11:00 - 17:00	6.00	02	A	INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM
	17:00 - 17:30	0.50	10		INT1	SURVEY AT 6449' 1.25 DEG. DRLD FROM 6489' TO 6646' 157' IN 6 HRS = 26.2'/HR PR
						WOB 50 ROTARY 65 SPP 1300 320 GPM SURVEY AT 6603' 1.75 DEG

# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name:	FEDERAL 28 #4		
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Event Name:	DRILLING	Start:	05/04/2004
Contractor Name:	PATTERSON DRILLING CO.	End:	05/27/2004
Rig Name:	PATTERSON	Rig Release:	05/26/2004
		Group:	
		Rig Number:	503

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/21/2004	17:30 - 20:00	2.50	02	A	INT1	DRLD FROM 6646' TO 6700' 54' IN 2.5 HRS = 21.6'/HR PR
	20:00 - 01:30	5.50	06	D	INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM
	01:30 - 06:00	4.50	06	D	INT1	TOH / CHECK RR BIT #3 OK / LD PACKED HOLE ASSEMBLY TIH WITH RR BIT #3, BIT SUB, 26 EA. 6" DC, DRLG JARS, 4 EA. 6"DC BREAKING CIRC ON BTM AT 6700' AT REPORT TIME PROGRESS 350' IN 13 HRS = 26.9'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 5650 GALS USED 424 GALS
05/22/2004	06:00 - 06:30	0.50	06	D	INT1	BREAK CIRC ON BTM WITH NO PROBLEMS / NO LOSSES SERVICE RIG
	06:30 - 18:00	11.50	02	A	INT1	DRLD FROM 6700' TO 6992' 292' IN 11.5 HRS = 25.4'/HR PR
	18:00 - 18:30	0.50	10		INT1	WOB 50K ROTARY 65 SPP 1300 320 GPM
	18:30 - 00:30	6.00	02	A	INT1	SURVEY AT 6930' 3.75 DEG.
	00:30 - 01:00	0.50	10		INT1	DRLD FROM 6990' TO 7129' 139' IN 6 HRS = 23'/HR PR
	01:00 - 04:30	3.50	02	A	INT1	45 - 30K WOB ROTARY 65 SPP 1300 320 GPM
	04:30 - 05:00	0.50	08	A	INT1	SURVEY AT 7080' 6.25 DEG
	05:00 - 06:00	1.00	02	A	INT1	DRLD FROM 7129' TO 7161' 32' IN 3.5 HRS = 9.1'/HR PR
05/23/2004	06:00 - 10:30	4.50	05	A	INT1	WOB 20K ROTARY 65 SPP 1300 320 GPM WORK ON PUMPS
	10:30 - 14:00	3.50	02	A	INT1	DRLD FROM 7161' TO 7174' HIT VOID/ LOST PUMP PRESSURE / LOST RETURNS 5 MIN GAS AT SURFACE / SHUT WELL IN RIGGING UP ROTATING HEAD RUBBER AT REPORT TIME PROGRESS 474' IN 22 HRS = 21.5'/HR OVERALL PR NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 4772 GALS USED 878 GALS
	14:00 - 20:00	6.00	05	A	INT1	BUILDING MUD COLUMN / MIXING 36 VIS AND 15#/BBL MAGNA FIBER SWEEP IN SYSTEM. ATTEMPTING TO FILL HOLE
	20:00 - 06:00	10.00	02	A	INT1	ATTEMPTING TO DRILL FROM 7174' TO 7194' / TITE AND LOSING HOLE EVERY TIME PICK UP ABOVE VOID AT 7172' -7178' PUMPED AWAY ALL MUD WITH NO RETURNS. PU ABOVE VOID AND BUILD MUD COLUMN AND MIXING -PUMPING 80 BBL 36 VIS 50#/BBL MAGNA FIBER LCM SWEEP MIX AND PUMP 80 BBLS OF 36 VIS + 50#/BBL MAGNA FIBER + 25#/BBL CEDAR FIBER PMPING AT 50 SPM AND 0 PSI SPP MIX AND PUMP 2ND 80 BBLS OF 36 VIS + 50#/BBL MAGNA FIBER + 25#/BBL CEDAR FIBER PMPING AT 50 SPM AND 0 PSI SPP AND NO RETURNS
						DRLD FROM 7194' TO 7265' 71' IN 10 HRS = 7.1'/HR PR CONTROL DRLG WITH PARTIAL RETURNS (0 - 15 % RETURNS) DRLG 15' AND REAMING SAME 15" IN STAGES WOB 25 -30K ROTARY 60 SPP 500 - 1200 PSI 55 SPM PUMPING 40 BBL HI VIS 50#/BBL MAGNAFIBER + 15#/BBL CEDAR FIBER SWEEPS EVERY HR.

# 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:	DRILLING	Start: 05/04/2004	End: 05/27/2004
Contractor Name:	PATTERSON DRILLING CO.	Rig Release: 05/26/2004	Group:
Rig Name:	PATTERSON	Rig Number: 503	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/23/2004	20:00 - 06:00	10.00	02	A	INT1	BGG 220 CONN GAS 330 MAX GAS 600 NO ACCIDENTS OR POLLUTION REPORTED PROGRESS 91' IN 12 HRS FUEL ON HAND 4326 GALS USED 446 GALS
05/24/2004	06:00 - 18:30	12.50	02	A	INT1	CONTROL DRILLING FROM 7265' TO 7423' 158' IN 12.5 HRS = 12.6'/HR PR WOB 30K ROTARY 65 SPP 1100 320 GPM WITH PARTIAL TO 25% RETURNS TAKING 30 - 45 MIN TO REGAIN CIRC AFTER EACH CONNECTION LOST COMPLETE RETURNS AT 7423' / TITE CONNECTION HAD TO REAM BACK 20' TO BTM.
	18:30 - 23:30	5.00	02	A	INT1	DRLD FROM 7423' TO 7446' 23' IN 2 HRS = 11.5'/HR PR TORQ HIGH AND STILL NO RETURNS / TITE PICKING UP AND COULD NOT MAKE CONNECTION / PUMPING 45 VIS 50#/BBL MAGNA FIBER+ 25#/BBL COTTONSEED HULLS SWEEPS / REGAINED PARTIAL -20% RETURNS AFTER 3 HRS / REAMED FROM 7419' - 7446' SEVERAL TIMES AND STILL COULD LOWER KELLY WITHOUT ROTATING AND PMPING/ CONTINUE REAMING 7423' - 7446' UNTIL ABLE TO MAKE SAFE CONNECTION.
	23:30 - 06:00	6.50	02	A	INT1	DRLD FROM 7446' TO 7515' 69' IN 6.5 HRS = 10.6'/HR PR WOB 15-30K ROTARY 65 SPP 1000 285 GPM ( PMPING SLOW TO HELP HEAL HOLE AND CONSERVE WATER) 15% RETURNS TO NO RETURNS PROGRESS 250' IN 19 HRS = 13.2'/HR OVERALL PR BGG 150 CONN GAS 330 MAX GAS 400 NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 3657 GALS USED 669 GALS
05/25/2004	06:00 - 08:30	2.50	02	A	INT1	DRLD FROM 7515' TO 7541' 26' IN 2.5 HRS = 10.4'/HR PR WOB 30K ROTARY 65 SPP 1300 320 GPM PARTIAL TO 30% RETURNS
	08:30 - 09:00	0.50	03	C	INT1	REAMING TITE HOLE FROM 7515' TO 7541'
	09:00 - 03:00	18.00	02	A	INT1	DRLD FROM 7541' TO 7800' 259' IN 18 HRS = 14.4'/HR PR WOB 40K ROTARY 65 SPP 1300 - 1700 (PLUGGED JET) 320 GPM PARTIAL TO 50% RETURNS PROGRESS 285' IN 20.5 HRS = 14'/HR OVERALL PR TD WELL AT 7800' AT 0:300 AM (5-25-04)
	03:00 - 05:00	2.00	05	A	INT1	PUMP 80 BBLs HI-VIS/LCM PILL AROUND MIX AND SPOT 80 BBLs HI-VIS/LCM PILL ON BTM
	05:00 - 06:00	1.00	06	B	INT1	START WIPER TRIP OF 12 STDS UP TO 6700' BGG 100 CONN GAS 200 MAX GAS 400 60% LS / 50% SILT / 20% SHALE NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 2995 GALS USED 662 GALS
05/26/2004	06:00 - 08:00	2.00	06	B	INT1	FINISH WIPER TRIP TO 6700' AND BACK TO BTM NORMAL 20K DRAG WHILE POOH / 70' FILL ON BTM WASH REAM 70' TO BTM

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# KERR-MCGEE CORPORATION

## Operations Summary Report

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Legal Well Name:	FEDERAL 28 #4		
Common Well Name:	FEDERAL 28 #4	Spud Date:	05/07/2004
Event Name:	DRILLING	Start:	05/04/2004
Contractor Name:	PATTERSON DRILLING CO.	Rig Release:	05/26/2004
Rig Name:	PATTERSON	Group:	
		Rig Number:	503

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
05/26/2004	08:00 - 10:30	2.50	05	A	INT1	MIX AND PUMP 80 BBL HI VIS /LCM SWEEP AROUND
	10:30 - 12:00	1.50	24	C	INT1	MIX AND SPOT 80 BBL HI VIS /LCM PILL ON BTM RU BULL ROGERS LD MACHINE WAIT ON SCIENTIFIC DRILLING GYRO (DID NOT BRING ALL EQUIP)
	12:00 - 13:00	1.00	05	A	INT1	CONTINUE CIRC SPOT 80 BBL HI VIS /LCM PILL ON BTM
	13:00 - 21:30	8.50	06	H	INT1	POOH /LDDP AND BHA BIT OK
	21:30 - 06:00	8.50	12	A	INT1	RU BULL ROGERS CSG TONGS RAN 183 JTS 7" 23# AND 26# J-55 CSG, DV-ECP TOOL CETRALIZERS EVERY 80' FROM 7800' TO 6079' TOP DV TOOL WILL BE AT 6796' / FC AT 7713 / EXTERNAL COATED PIPE FROM 2182' - 2735' TAG FILL AT 7758' / RU BJ CMT HEAD TO CIRC. BROKE CIRC AND ATTEMPTING TO WASH 30' TO BTM AT REPORT TIME NO ACCIDENTS OR POLLUTION REPORTED FUEL ON HAND 2459 GALS USED 536 GALS
05/27/2004	06:00 - 07:00	1.00	05	A	CSGPRO	CIRC W/ RIG PUMP AT 320 GPM 1000 PSI / WASH CSG DWN FROM 7760' - 7800'
	07:00 - 08:30	1.50	12	C	CSGPRO	CIRCULATED CASING VOLUMN BJ SERVICES CMT 1ST STAGE W/ 12 BBL MUD CLEAN 1 / FB / 86 BBL (300 SKS) 15.61:11 "C" CMT + 3% SALT + 8#/LCM + .5% FL-25 + .5% FL-52 / MIXED AT 13.2 PPG AND 1.61 YLD / MIX AND DISPLACE AT 7 BPM RATE 150 - 650 PSI / DISPLACE W/ 301 BBL FW / BUMP PLUG ON SCHEDULE / FLOATS HELD HAD 60% RETURNS DURING CMT JOB
	08:30 - 10:30	2.00	12	C	CSGPRO	DROP BOMB AND LET FALL 25 MIN. / PRESSURE UP TO 1400 PSI AND SET ECP PKR AND OPEN DV TOOL / CIRC W/ BJ FOR 1.5 HRS / NO CEMENT IN RETURNS FROM 1ST STAGE
	10:30 - 12:00	1.50	12	C	CSGPRO	BJ CMT 2ND STAGE W/ 146 BBL (300 SKS) 35:65:6 "C" + 3% SALT + 1/4#/SK CF + 5#/SK LCM-1 + .3% FL-52 / MIXED AT 12.4 PPG AND 2.06 YLD / FB / 23 BBL (100 SKS) "C"NEAT / MIXED AT 14.8 PPG AND 1.32 YLD / MIX AND DISPLACE AT 7 BPM 1029 - 2742 PSI / DISPLACE W/ 267 BBL FW / BUMP PLUG ON SCHEDULE / FLOATS HELD / PLUG DWN AT 12:00 NOON (5-26-04) RD RL BJ / HAD 90 - 100% RETURNS DURING CMT JOB AND DISPLACEMENT
	12:00 - 13:00	1.00	13		CSGPRO	ND BOP STACK WHILE WOC
	13:00 - 20:00	7.00	14		POST	ND BOP / LIFT STACK AND SET SLIPS W/ 230K WT ON SLIPS / CUT OFF CSG / LAY OUT BOP / INSTALL AND TEST 7-1/16" 5M x 11" 3M "B" SECTION AND DRYHOLE CAP W/ 3" VALVE / TEST HEAD TO 2800 PSI /OK RELEASE RIG AT 20:00 HRS (5-26-04) NO ACCIDENTS OR POLLUTION REPORTED
	20:00 - 06:00	10.00	01		RDMO	RIGGING DOWN RIG



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Rig Number: 503