

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
N.M. Oil Cons. Division  
811 S. 1st Street  
Artesia, NM 88210-2834

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

**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.

5. Lease Serial No. NM 022535  
6. If Indian, Allottee or Tribe Name  
7. If Unit or CA/Agreement, Name and/or No.  
8. Well Name and No. Federal 28-2  
9. API Well No. 30-015-31180  
10. Field and Pool, or Exploratory Area Indian Basin Upper Penn  
11. County or Parish, State Eddy NM

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

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Kerr-McGee Oil & Gas Onshore LLC

3a. Address  
P.O. Box 809004 Dallas TX 75380-9004

3b. Phone No. (include area code)  
972 715-4830

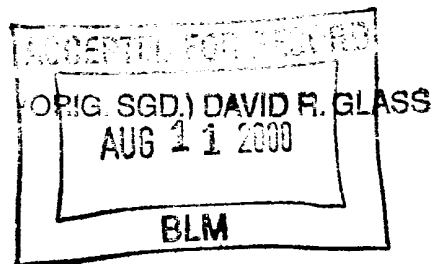
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1900' FWL & 1750' FSL, SEC. 28, T 21S, R 23E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<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 recompleate 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 recompleation 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 28-2 on July 7, 2000.  
A detailed report of this operation is attached.



RECEIVED  
OCD ARTESIA  
AUG 11 2000  
10:10 PM '00

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

Beverly Lakin

Title

Proration Analyst

Date

8-7-2000

**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

**Kerr-McGee Oil and Gas Corporation  
DIMS - Well Operations Log**

**Well Name: FEDERAL 28 #2 - From: 01-JAN-1999 To: 31-DEC-2000**

Event Description	Activity Date	From Time	To Time	Operation Description
Drilling	19-JUL-2000	06:00	20:00	STAKE & BUILD FEDERAL 28 #2 LOCATION @1900' FWL & 1750' FSL, SEC. 28, T21S, R23E / SET 40' OF 16" CONDUCTOR PIPE /MOVE IN UNITED DRILLING RIG 7 ON 07-03-2000 / UNITED DRILLING TURNKEY DRILLED SURFACE HOLE & SET & CMT 1320' OF 9 5/8" 36#/FT K-55 CASING / CS 1320' / FC 1273' /RELEASED UNITED ON 07-07-2000 / MIRU PATTERSON DRILLING RIG #78 ON 07-18-2000 / RKB - GND 19' AGL / GL 3985' ASL
		20:00	00:30	NIPPLE UP BOP, HYDRIL, KILL LINE, & CHOKE MANIFOLD / TEST BOP BLIND RAM 250 LOW - 3000 HIGH / TEST BOP PIPE RAM 250 LOW - 3000 HIGH / TEST HYDRIL 1500 PSI / TEST KILL LINE & CHOKE MANIFOLD TO 250 LOW - 3000 HIGH / TEST ALL VALVES & KELLY COCKS TO 3000 PSI
		00:30	01:00	INSTALL WEAR BUSHING IN SURFACE WELLHEAD
		01:00	02:45	PU BIT & DC'S
		02:45	03:00	WL SURVEY @ 253' - 1 DEG
		03:00	04:15	PU BHA
		04:15	04:30	WL SURVEY @ 502' - 1 1/2 DEG
		04:30	05:15	PU BHA
		05:15	05:30	WL SURVEY @ 746' - 2 1/4 DEG
		05:30	06:00	TIH W/BHA & DP TO 1050'
				NO ACCIDENTS OR POLLUTION REPORTED
	20-JUL-2000	06:00	07:00	PICKING UP DRILL PIPE
		07:00	07:15	WLS SURVEY @ 992' - 1 1/2 DEG
		07:15	07:30	PICKING UP DRILL PIPE / TAG CMT @ 1210' IN 9 5/8" CSG
		07:30	08:00	TEST CASING TO 1000 PSI / HELD OK
		08:00	12:00	DRILL OUT CMT, FC, & SHOE JOINT
		12:00	14:45	DRILLING 8 3/4" HOLE F-1300' T-1379'
		14:45	15:00	SERVICE RIG
		15:00	15:15	DRILLING F-1379' T-1388'
		15:15	17:30	TOH / PU PACKED BHA / TIH
		17:30	23:45	DRILLING F-1388' T-1636'
		23:45	00:00	WL SURVEY @ 1594' - 1 3/4 DEG
		00:00	01:00	RIG REPAIR - FIX ROTARY CHAIN
		01:00	06:00	DRILLING F-1636' T-1847' / 60-65K WOB / 50 RPM / 37' LAST HR PR
				NO ACCIDENTS OR POLLUTION REPORTED
	21-JUL-2000	06:00	08:00	DRILLING 8 3/4" HOLE F-1847' T-1915'
		08:00	08:15	SERVICE RIG
		08:15	15:45	DRILLING F-1915' T-2132'
		15:45	16:00	WL SURVEY @ 2090' - 1 3/4 DEG
		16:00	05:15	DRILLING F-2132' T-2634'
		05:15	05:30	WL SURVEY @ 2592' - 2 DEG
		05:30	06:00	DRILLING F-2634' T-2652' / 65K WOB / 50 RPM / 37' PH PR @ RPT TM /
				NO ACCIDENTS OR POLLUTION REPORTED
	22-JUL-2000	06:00	08:45	DRILLING 8 3/4" HOLE F-2652' T-2727'
		08:45	09:00	SERVICE RIG
		09:00	23:45	DRILLING F-2727' T-3133'
		23:45	00:00	WL SURVEY @ 3091' - 2 DEG
		00:00	06:00	DRILLING F-3133' T-3264' / 65K WOB / 50 RPM / 26' HR PR
				NO ACCIDENTS OR POLLUTION REPORTED
	23-JUL-2000	06:00	08:15	DRILLING 8 3/4" HOLE F-3264' T-3352'

**Kerr-McGee Oil and Gas Corporation**  
**DIMS - Well Operations Log**

**Well Name: FEDERAL 28 #2 - From: 01-JAN-1999 To: 31-DEC-2000**

Event Description	Activity Date	From Time	To Time	Operation Description
Drilling	23-JUL-2000	08:15	08:30	SERVICE RIG
		08:30	19:45	DRILLING F-3352' T-3634'
		19:45	20:15	WL SURVEY @ 3591' - 1 3/4 DEG
		20:15	06:00	DRILLING F-3634' T-3856' / 65K WOB / 50 RPM / 17' HR PR NO ACCIDENTS OR POLLUTION REPORTED
	24-JUL-2000	06:00	08:15	DRILLING 8 3/4" HOLE F-3856' T-3946'
		08:15	08:30	SERVICE RIG
		08:30	16:30	DRILLING F-3946' T-4132'
		16:30	16:45	WL SURVEY @ 4090' - 1 1/2 DEG
		16:45	06:00	DRILLING F-4132' T-4468' / 65K WOB / 50 RPM / 25' HR PR NO ACCIDENTS OR POLLUTION REPORTED
	25-JUL-2000	06:00	07:45	DRILLING 8 3/4" HOLE F-4468' T-4502'
		07:45	08:00	SERVICE RIG
		08:00	23:45	DRILLING F-4502' T-4625'
		23:45	00:15	WL SURVEY @ 4583' - 2 DEG
		00:15	06:00	DRILLING F-4625' T-5131' / 60-65K WOB / 50 RPM / 26' HR PR NO ACCIDENTS OR POLLUTION REPORTED
	26-JUL-2000	06:00	06:30	WIRELINE SURVEY @ 5083 = 2-3/4*
		06:30	11:45	DRILLING FROM 5131 TO 5310 = 179 FT @ 34 FPH
		11:45	12:15	WIRELINE SURVEY @ 5268 = 3-1/4* / RIG SERVICE
		12:15	17:30	DRILLING FROM 5310 TO 5404 = 94 FT @ 18 FPH
		17:30	18:00	WIRELINE SURVEY @ 5362 = 3-1/4*
		18:00	00:30	DRILLING FROM 5404 TO 5496 = 92 FT @ 14 FPH
		00:30	01:00	WIRELINE SURVEY @ 5454 = 2-3/4*
		01:00	06:00	DRILLING FROM 5496 TO 5587 = 91 FT @ 15 FPH NO ACCIDENTS OR POLLUTION REPORTED.
	27-JUL-2000	06:00	06:30	WIRELINE SURVEY @ 5545 = 2-1/4 DEGREE
		06:30	09:30	DRILLING FROM 5587 TO 5650 = 63 FT @ 21 FPH
		09:30	09:45	RIG SERVICE AND B.O.P. DRILL
		09:45	15:45	DRILLING FROM 5660 TO 5773 = 113 FT @ 18.8 FPH
		15:45	16:15	WIRELINE SURVEY @ 5731 = 3-1/4 DEGREES
		16:15	23:45	DRILLING FROM 5773 TO 5896 = 123 FT @ 16.4 FPH
		23:45	00:15	WIRELINE SURVEY @ 5854 = 3 DEGREE
		00:15	06:00	DRILLING FROM 5896 TO 6000 = 104 FT @ 18.1 FPH NO ACCIDENTS OR POLLUTION REPORTED.
	28-JUL-2000	06:00	07:45	DRILLING FROM 6000 TO 6035 = 35 FT @ 20 FPH
		07:45	08:15	WIRELINE SURVEY AT 5979 = 2-1/2 DEGREE
		08:15	09:00	DRILLING FROM 6035 TO 6052 = 17 FT @ 22 FPH
		09:00	12:30	DROP SURVEY AND TRIP FOR BIT #2
		12:30	13:45	CHANGE BITS AND T.I.H. W/ B.H.A.
		13:45	14:30	SLIP AND CUT DRILLING LINE
		14:30	16:00	FINISH T.I.H. W/ BIT #2
		16:00	23:45	DRILLING FROM 6052 TO 6208 = 156 FT @ 20 FPH
		23:45	00:15	WIRELINE SURVEY @ 6166 = 2-3/4 DEGREE

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Event Description	Activity Date	From Time	To Time	Operation Description
Drilling	28-JUL-2000	00:15	06:00	DRILLING FROM 6208 TO 6323 = 115 FT @ 20 FPH NO ACCIDENTS OR POLLUTION REPORTED
	29-JUL-2000	06:00	11:15	DRILLING FROM 6323 TO 6425 = 102 FT @ 19 FPH
		11:15	12:00	WIRELINE SURVEY @ 6383 = 2-1/4 DEGREE, AND RIG SERVICE
		12:00	16:15	DRILLING FROM 6425 TO 6504 = 79 FT @ 19 FPH
		16:15	17:15	REPAIR ROTARY CHAIN.
		17:15	00:45	DRILLING FROM 6504 TO 6642 = 138 FT @ 18 FPH
		00:45	01:15	WIRELINE SURVEY @ 6600 = 2-1/4 DEGREE
		01:15	06:00	DRILLING FROM 6642 TO 6731 = 89 FT @ 19 FPH NO ACCIDENTS OR POLLUTION REPORTED.
	30-JUL-2000	06:00	10:15	DRILLING FROM 6731 TO 6828 = 97 FT @ 23 FPH
		10:15	10:45	WIRELINE SURVEY @ 6786 = 2-1/4 DEGREE
		10:45	11:00	RIG SERVICE
		11:00	19:00	DRILLING FROM 6828 TO 7000 = 172 FT @ 22 FPH
		19:00	20:00	JET AND CLEAN PITS AND LOAD PITS W/ APHRONS MUD SYSTEM. RIG WENT TO DAYWORK @ 19:00 HRS DUE TO MUD UP.
		20:00	23:00	DRILLING FROM 7000 TO 7014 = 14 FT @ 5 FPH
		23:00	23:30	TRANSFER 100 BBLS FROM STORAGE TO COMPLETE FULL TRANSFER FO MUD.
		23:30	02:30	DRILLING FROM 7014 TO 7040 = 26 FT @ 8.7 FPH
		02:30	03:00	WIRELINE SURVEY @ 7003 = 2-1/4 DEGREE
		03:00	06:00	DRILLING FROM 7040 TO 7072 = 32 FT @ 10.7 FPH NO ACCIDENTS OR POLLUTION REPORTED.
	31-JUL-2000	06:00	09:15	DRILLING FROM 7072 TO 7107 = 35 FT @ 11 FPH
		09:15	09:30	RIG SERVICE
		09:30	20:00	DRILLING FROM 7107 TO 7228 = 121 FT @ 11.5 FPH
		20:00	20:45	LOST CIRCULATION DUE TO FRACTURES. T.O.H. 10 STDS
		20:45	21:45	MIX 100 BBLS OF MUD W/ 15#/BBL MAGNAFIBER.
		21:45	22:15	T.I.H. TO SPOT LCM PILL ON BOTTOM.
		22:15	23:00	SPOT 100 BBLS OF MUD W/ LCM ON BOTTOM. DISPLACED OUT OF PIPE W/ MUD FROM PITS.
		23:00	03:00	T.O.H. TO LAYDOWN STABILIZERS AND SQUARE D.C.
		03:00	05:00	LAYDOWN STABILIZERS AND SQ. D.C. AND T.I.H. TO 1300 FT.
		05:00	06:00	MIX MUD AND BUILD VOLUME IN PITS. NO ACCIDENTS OR POLLUTION REPORTED.
	01-AUG-2000	06:00	16:00	SHUT DOWN T.I.H. AT BOTTOM OF CASING @ 1320 FT. BUILD VOLUME IN PITS. PUMPED 160 BBLS WITH NO RETURNS. BUILD 100 BBLS OF 20# LCM / BBL PILL IN SLUG PIT. REBUILD VOLUME IN WORKING PITS WITH 5-6# LCM / BBL.
		16:00	02:00	REPAIR DRAWWORKS. LOW JACK SHAFT. INSTALLED NEW CHAINS AND BEARINGS.
		02:00	04:15	FINISH T.I.H. WITH SLICK B.H.A. TO DRILL.

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**DIMS - Well Operations Log**

**Well Name: FEDERAL 28 #2 - From: 01-JAN-1999 To: 31-DEC-2000**

Event Description	Activity Date	From Time	To Time	Operation Description
Drilling	01-AUG-2000	04:15	06:00	PUMPED LCM PILL AND STARTED CIRCULATING HOLE AFTER PUMPING 20 BBLs. LCM WAS NOT TO BOTTOM WHEN CIRCULATION STARTED. CONTINUE TO PUMP LCM PILL, FOLLOWED WITH MUD FROM WORKING PITS. CIRCULATE AND CONDITION MUD. NOT LOOSING ANY MUD AT REPORT TIME. TOTAL LOST TO DATE = 310 BBLs. NO ACCIDENTS OR POLLUTION REPORTED.
	02-AUG-2000	06:00	07:00	BUILD MUD VOLUME & CIRCULATE HOLE
		07:00	07:15	DRILLING 8 3/4" HOLE F-7228' T-7230' / LOST CIRCULATION
		07:15	08:30	MIX & SPOT 20#/BBL LCM PILL
		08:30	09:00	TOH W/5 STDS DP
		09:00	13:00	BUILD MUD VOLUME IN STEEL PITS ADDING 12#/BBL LCM TO SYSTEM / BREAK CIRCULATION
		13:00	13:15	TIH W/5 STDS DP
		13:15	06:00	DRILLING F-7230' T-7435' / PUMPED LCM PILLS EACH HOUR / MUD LOSSES DECREASE FROM 15 BPH TO 3 BPH / 50K WOB / 60 RPM / 750 PSI PMP / ROP 10 FPH / DRILLING 100% DOLOMITE / TRIP GAS 4838 UNITS ON BTMS UP / BG GAS 2200 UNITS @ 7285' / BG GAS AT RPT TIME 800 UNITS NO ACCIDENTS OR POLLUTION REPORTED
	03-AUG-2000	06:00	08:45	DRILLING 8 3/4" HOLE F-7435' T-7454'
		08:45	09:00	SERVICE RIG
		09:00	13:45	DRILLING F-7454' T-7515'
		13:45	14:00	BOP DRILL & CHECK WELL FOR FLOW AFTER DRLG BRK F-7502' T-7515'
		14:00	15:30	DRILLING F-7515' T-7547'
		15:30	16:00	WL SURVEY @ 7503' - 1 1/4 DEG
		16:00	04:15	DRILLING F-7547' T-7650' / TD @ 04:15 HRS ON 08-03-2000 / 50K WOB / 60 RPM / 800 PSI PMP / 8' HR PR / NO FLUID LOSSES TO HOLE
		04:15	06:00	CIRCULATE & CONDITION HOLE PRIOR TO TRIP OUT FOR OH LOGS NO ACCIDENTS OR POLLUTION REPORTED
	04-AUG-2000	06:00	06:15	CIRCULATING FOR OH LOGS
		06:15	06:30	DROP TOTCO PRIOR TO TOH FOR OH LOGS
		06:30	10:00	TOH (SLM) FOR OH LOGS
		10:00	12:30	RU SCHLUMBERGER TO LOG OH
		12:30	19:30	SCHLUMBERGER RAN PLATFORM EXPRESS F-7634' T-1343' / LOGGERS TD - 7642' / OUT OF HOLE @ 19:30 HRS 08-03-2000
		19:30	02:30	WAITING ON SCHLUMBERGER FMI LOGGING TOOL TO ARRIVE ON LOCATION
		02:30	06:00	RUNNING FMI LOG @ REPORT TIME NO ACCIDENTS OR POLLUTION REPORTED
	05-AUG-2000	06:00	07:00	RIG DOWN SCHLUMBERGER
		07:00	09:30	TIH AFTER LOGS
		09:30	11:30	CIRCULATE & CONDITION HOLE
		11:30	12:30	RIG UP LAY DOWN MACHINE
		12:30	18:15	LAY DOWN DRILL PIPE & DRILL COLLARS
		18:15	18:30	RIG UP CASING CREW
		18:30	00:00	RAN 7" CASING / TAG 32' HIGH
		00:00	01:30	WASH 32' TO BOTTOM / TD BY SLM 7642' / TD BY CSG 7642'

**Kerr-McGee Oil and Gas Corporation**  
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**Well Name: FEDERAL 28 #2 - From: 01-JAN-1999 To: 31-DEC-2000**

Event Description	Activity Date	From Time	To Time	Operation Description
Drilling	05-AUG-2000	01:30	06:00	CIRCULATING W/CASING ON BOTTOM WHILE WAITING ON BJ SERVICES TO REPAIR PUMP TRUCK ON LOCATION NO ACCIDENTS OR POLLUTION REPORTED
	06-AUG-2000	06:00	07:00	WAITING ON BJ CMT PMP TRK
		07:00	11:15	RU BJ PMP TRK / RAN & CMT'D 179 JTS 7" 23 & 26#-FT K-55 LT&C CSG / CS 7642' / FC 7553' / DV TOOL 6927' / BJ SERV CMT'D 1ST STG W/220 SX SUPER "C" MOD W/0.5% FL-52, 0.5% FL-25, 5#-SK GILSONITE, & 1#-SK SALT / FP 1250 - 2000 PSI / PD @ 08:15 HRS / DROP BOMB / SET ECP @ 1500 PSI / OPEN DV TOOL @ 1630 PSI / CIRC THRU DV TOOL 2 1/2 HRS / CIRC 40 SX CMT OFF TOOL
		11:15	12:30	BJ CMT'D 2ND STG W/350 SX 35:65:6 POZ "C" W/8#-SK GILSONITE / TIW 150 SX "H" NEAT / FP 1475 - 3100 PSI / CLOSE DV TOOL / HAD 100% CIRC THRU OUT BOTH JOBS
		12:30	18:00	ND BOP / SET SLIPS ON 7" CSG W/150,000#S / CUT OFF CSG / INST 2ND PKG / NU 7 1/16" X 3M - 11" X 3M TBG SPOOL W/DRY HOLE FLNG / TST WH TO 2500 PSI / HELD OK
		18:00	00:00	JET & CLN STEEL PITS / PRO WT & WL RAN TS / TOC @ 5740' / RELEASE RIG @ 00:00 HRS ON 08-05-2000 NO ACCIDENTS OR POLLUTION REPORTED