Form 3160-3 (July 1989) (formerly 9-331C)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR

CONTACT REC NG
OFFICE FOR NU R
OF COPIES REQUIRED (Other instructions on reverse side)

BLM Roswell District Modified Form No. NM060-3160-2

5. LEASE DESIGNATION AND SERIAL NO.

1a. TYPE OF WORK  DRILL DEEPEN PLUG BACK   5. UNIT  DEEPEN SINGLE ZONE TONE  7. UNIT  SINGLE ZONE  3a. AREA CODE & PHONE NO.	AGREEMENT NAME	
DRILL DEPEN PLUG BACK   b. TYPE OF WELL  OIL GAS WELL OTHER  SINGLE DEPEN MULTIPLE SINGLE CONE A PHONE NO.  8. FARI  3a. AREA CODE & PHONE NO.		
OIL K GAS WELL OTHER SINGLE ZONE 8. FARI  2. NAME OF OPERATOR 3a. AREA CODE & PHONE NO.	A OR LEASE NAME	
2. NAME OF OPERATOR 3a. AREA CODE & PHONE NO.		
	Huber "17" Federal	
Southland Royalty Company 915-686-5600 9. WEL		
	2 LD AND POOL, OR WILDCAT	
At surface 1980' FSL & 1980' FWL At proposed prod. zone	/est Corbin (Delaware) C., T., R., M., OR BLK. D SURVEY OR AREA	
	Sec. 17, T18S, R33E  INTY OR PARISH 13. STATE	
11 Miles southeast of Maljamar, NM.	Lea NM	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  16. NO. OF ACRES IN LEASE TO THIS WELL 320		
18. DISTANCE FROM PROPOSED LOCATION*  19. PROPOSED DEPTH  20. ROTARY OR CAR TO NEAREST WELL, DRILLING, COMPLETED.	ILE TOOLS	
	ally drilled w/rotary	
The second control of	PPROX. DATE WORK WILL START *	
3863.8' GR.  PROPOSED CASING AND CEMENTING PROGRAM	15 September 1990	
	T	
HOLE SIZE CASING SIZE WEIGHT/FOOT GRADE THREAD TYPE SETTING DEPTH	QUANTITY OF CEMENT 400 SX-Circ.	
12-1/4" 8-5/8" 24 K-55 STC 2925'	1800 sx-Circ.	
7-7/8" 5-1/2" 15.5 & 17 N80, J55, K55 STC 11,450	2500 sx	
	AESEIVED	
ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths any.  In a subsurface locations and measured and true vertical depths any.  In a subsurface locations and measured and true vertical depths any.  In a subsurface locations and measured and true vertical depths any.		
(This space for Federal or State office use)		
(This space for Federal or State office use)  PERMIT NO APPROVAL DATE	ATE 9-6-90	

## N MEXICO OIL CONSERVATION COMMISS WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-4-65

		All distances mu	at be from the outer boundaries	of the Section	
perater St	OUTHLAND ROYA	J.TY COMPANY	Lease HUBER	17 FEDERAL	### \ \ \ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>
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3863.8' DELAWARE		WEST CORBIN	WEST CORBIN		
			ct well by colored pencil	or hachure marks on	the plat below.
interest  3. If more t	and royalty). han one lease of	f different ownersh	p is dedicated to the wel		othereof (both as to working of all owners been consoli-
dated by	communitization	, unitization, force	pooling.etc?  ype of consolidation		
		ie owners and tract	descriptions which have	actually been consol	idated. (Use reverse side )
No allow	if necessary.)_able will be assibuling, or otherwis	gned to the well un selor until a non-st	til all interests have beer andard unit, eliminating s	consetidated (by couch interests, has be	ommunitization, unitization, en approved by the Commus
=	i		,		CERTIFICATION
	! !		, , , , , , , , , , , , , , , , , , ,	tained	by certify that the information con herein is true and complete to th f my knowledge and belief
	,	:	i !	- Polis	W. Bradehaw
	+			Robert	L. Bradshaw
	1		1		aff Env./Reg. Spec.
	Ì	:	 	Merid	ian Oil Inc.
	) í	i 		31 Aug	gust 1990
	<del>,,,,</del>		-		
	1980'			shown nates under	by certify that the well location on this plat was plotted from field of actual surveys made by me of my supervision, and that the same and carrect to the best of metage and belief.
		.0861		Pegister	ANUARY 22,1986 e: Errifessional Engineer and Surveyor  Um W///

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90 1320 1650 1980 2310 2640

## Huber 17 Federal #2 South Corbin (Wolfcamp) Field Lea County, New Mexico

## Workover Procedure

- 1. MIRU pulling unit. ND pumping tee. POOH with rod string and pump. Kill well with treated 2% KCl water. NU BOP. Release TAC and POOH with 2 7/8" production tubing.
- 2. RU electric line. RU packoff head on top of BOP. RIH with 5 1/2" CIBP and set at 9000'. POOH.
- 3. RU 3 1/2" x 40' dump bailer. RIH and dump bail 35' of cement on top of CIBP. POOH. Test casing to 1500 psi.
- 4. RU GR/CBL/CCL tool. RIH and log from 6000' to 4000' with 1500 psi being held on casing. POOH. Contact production engineer and discuss cement bond prior to perforating.
- 5. RU electric line to perforate. RIH with 4" casing guns and perforate the Delaware sand at:

Interval	Density	#Holes
5080'-5092'	2 spf	26
5140'-5150'	2 spf	22
5190'-5200'	2 spf	22
5209'-5220'	2 spf	24
Tota	94	

POOH and RD electric line.

- 6. RIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" tubing. Set packer below bottom perforation and test tubing to 3800 psi. Release packer. PU to 4980' and reset packer. NU stimulation valve.
- 7. MIRU stimulation company. RU surface lines and test to 4500 psi. Place 500 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump 2200 gallons of 7 1/2% NEFe HCl acid. Space out 140 RCNBS (sp gr =1.3) throughout the job. Displace acid to bottom perforation with treated 2% KCl water. If ballout occurs, surge balls off perfs and continue displacement.

Treating Rate = 4-5 bpm
Anticipated Treating Pressure = 2000 psi
Maximum Treating Pressure = 3800 psi

RDMO stimulation company.

- 8. Swab test well recording rates/volumes/cuts. If fluid entry is limited, continue with fracturing procedure.
- 9. ND stimulation valve. Release packer and RIH through perforations. POOH.
- 10. MIRU stimulation company. ND BOP. NU flanged frac valve. RU surface lines and test to 4500 psi. Fracture stimulate the Delaware sand perforations (5080'-5220', total 94 holes) according to the attached fracture stimulation.

Fracture Fluid Volume/Type = 51000 gallons 35# Borate

Proppant = 160,000 lbs 20/40 Ottawa sand

Treating Rate = 25 bpm
Anticipated Treating Pressure = 2000 psi
Maximum Treating Pressure = 3800 psi

Flush stimulation to top perforation with treated 2% KC1 water.

- 11. Shut well in to RD stimulation company and RU flowline. Leave well SI 2-3 hours. Flow well back on 8/64" choke to recover load water.
- 12. Kill well with treated 2% KCl water. ND frac valve. NU BOP. RIH with 4 3/4" bit and 2 7/8" tubing. Reverse out sand fill. POOH.
- 13. TIH with production tubing as follows:
  - Bull plugged MA
  - Perforated sub
  - Mechanical SN (2.25" ID)
  - 5 1/2 TAC
  - ±5000' of 2 7/8" 6.5# N-80 tubing

Set TAC with SN above perfs. ND BOP. NU pump tee. TIH with following rod string:

- 2 1/2" x 1 1/4" x 24' RHBM pump
- 3475' of 3/4" grade "D" steel sucker rods with FHSMC
- 1525' of 7/8" grade "D" steel sucker rods with FHSMC

NOTE: Verify rod design with actual test data prior to installation.

Hang rods on beam. Report production volumes to Midland office. Sheave unit as required to keep well pumped off if possible.

