Submit 5 Copies Appropriate District Office <u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION P.O. Box 2088

State of New Mexico

ergy, Minerals and Natural Resources Departr

Santa Fe, New Mexico 87504-2088

### REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Ι.	-	TO TRA	NSPORT O	IL AND NA	TURAL G				
Operator	······							-	
Southland Royalty Compa	iny					30-	-025-2209	96	
Address									
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	Calingoca								
and address of previous operator							<u>.                                    </u>		
• -	ANDIE	ASE							
		Well No.	Pool Name, Inclu	ding Formation	<u>_</u>	Kind	of Lease	L	ease No.
		2	West Corbin	n (Bone Sp	ring)	Fede	Federal or Federal	* NM-0	997
Location									
Linit Letter 1	, 1980		Feet From The S	outh <sub>Lin</sub>	e and 660	Fe	et From The	East	Line
				_					
Section 21 Townsh	ip 18 S	outh	Range 33 Eas	st , N	MPM,		Lea	<u></u>	County
		n en e-							
				Address (Cit	e address to wi	hick approved	com of this f	orm is to he w	ent)
	X		لينا		D O Dav	0496 46	lana Taw	70604	
		~TINATI [	how the	1000	w address to will	hick annumed	com of this fe	wan is to he w	ent)
Phillips 66 Natural Gas (	Rucadria F(	G₱₩₽:€8	15 Colpotal	Idu	4001 Peni	brook. Od	essa. Tex	as 79762	2
give location of tanks.		21		-	Yes				
Southand Royalty Company 30-025-22096   Addes 21 Desta Dr., Midland, TX 79705   Reading for Flag (Circl proper Mar) Charge in Transport of Circle (Please explain)   New Yeal Oli Dr Galge in Operation   Recomption Oli Dr Galge   Recomption Catage in Operation Catage in Operation   If datage of operator give same Catage in Operation Kind of Lase   It datage of operator give same Well No. Peol Name, Jacking Operator Peol Name, Jacking Operator   It datage of operator give same Well No. Peol Name, Jacking Operator Peol Name, Jacking Operator   It datage of operator give same Well No. Peol Name, Jacking Operator Mar-0837   Loake It datage of operator give same Well No. Peol Name, Jacking Operator Name-0837   Loake 1 1980 Feed From The South Lase d660 Peet From The East I   Loake 1 1980 Feed From The South Lase d660 Feed From The East I   Loake 1 21 Towashing Pol Chan South Lase King Deproved copy of Mar form is to be senon   Pride Pipeline <td></td>									
	10111 423 041								
[		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion	- (X)	İ×	İ			L	X	L	1
Date Spudded	Date Comp	al. Ready to I	Prod.	Total Depth			P.B.T.D.		
10/15/90 (Plug Back)		11/06/	/90					9,770'	
Elevations (DF, RKB, RT, GR, etc.)		÷		Top Oil/Gas	Pay		Tubing Dept		
	2r	nd Bone	Spring				D. A. C. J.		
	. 0	00 door	oo obooina	(100 holos	totol		Depin Casin	0	
9,550 - 9,600	•					<u> </u>	<u> </u>		
	1			CEMENT		<u> </u>		ACKS CEM	
	CAS			+			· · · · · · · · · · · · · · · · · · ·		
1-178									
V TEST DATA AND REOUE							1		
OIL WELL (Test must be after )	recovery of IO	tal volume of	load oil and mus	n be equal to or	exceed top allo	wable for this	depth or be f	or full 24 hou	rs.)
Date First New Oil Run To Tank				Producing M	ethod (Flow, pu	mp, gas lift, e	tc.)		
11/06/90		12/10/9	0			1-1/4" x		<u></u>	
Length of Test	Tubing Pres	sure		Casing Press	Ine		Choke Size		
			. <u> </u>			······	Gra MCE		
Actual Prod. During Test	Oil - Bbls.			Water - Bbis.			Gas-MCF	50	
		50		<u> </u>	10		L		<u> </u>
GAS WELL									
Actual Prod. Test - MCF/D	Length of T	Cest		Bbis. Conden	sate/MMCF		Gravity of C	ondensate	
Testing Method (pitot, back pr.)	Tubing Pres	saure (Shut-i	a) (a	Casing Press	ine (Shut-in)		Choke Size		
	<u> </u>			_					
VI. OPERATOR CERTIFIC	ATE OF	COMPL	JANCE					אואריר	
						ISERV/			//N D
Division have been complied with and	that the inform	mation given					DEC 1	7 199	Ų
is true and complete to the best of my	knowledge an	a belief.		Date	Approve	d	NEV		
50	$(x \hat{X})$			1	• •		819 1037 (F <sup>. 1</sup> . 1		J
- I della. IS	THOM XA	aw		By_	ORIGI	NAL SIGN	ED DY JER		*
Signature Robert L. Bradshaw		Env./Re	eg. Spec.	-, -		UDD PACE	+ <del>318/28141</del>	20 - <b>N</b>	
Printed Name	<u> </u>		litle	Title					
12 December 1990	=	915-68	36-5678	11.0					
Date		Telepi	none No.	11					

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Form 3160-5	UNITE_ S	TATES	CONTACT RECEIVING OFFICE FOR NUMBER OF COPIES REQUIRED	Modifie	swell District d Form No. -3160-4
(July 1989) (Formerly 9-331)	DEPARTMENT OF			s. LEASE DES	IGNATION AND SERIAL NO.
(Do not use this fo	RY NOTICES AND m for proposals to drill or to Use "APPLICATION FOR PERMIT-	deepen or plug back	N WELLS to a different reservoir.	6. IF INDIAN, A	ALLOTTEE OR TRIBE NAME
1. OIL X GAS WELL WELL			<u></u>	7. UNIT AGREE	MENT NAME
2. NAME OF OPERATOR		HAC LA	1	8. FARM OR L	
Southland Royalty	Company		3a. AREA CODE & PHONE NO.	Federal "	MA"
3. ADDRESS OF OPERATOR	lidland, TX 79705		915-686-5600	9. WELL NO.	
	port location clearly and in ac	cordance with any Sta		10. FIELD AND	POOL, OR WILDCAT
At surface	F E1			11. SEC., T., R	., M., OR BLK. AND
1980' FSL & 660'	FEL				T18S, R33E
14. PERMIT NO.	15. ELEVAT 3826' G	IONS (Show whether D	)F, RT, GR, etc.)	12. COUNTY OF	
16.			e Nature of Notice, R		Data
	TICE OF INTENTION TO:			BSEQUENT REPORT OF:	
	<b></b>				
TEST WATER SHUT-OFF	PULL OR ALTER MULTIPLE COMP		WATER SHUT-OFF		TERING WELL
FRACTURE TREAT	ABANDON*		SHOOTING OR ACIDIZING		ANDONMENT*
REPAIR WELL	CHANGE PLANS		(Other) Plugback-	Wolfcamp to Bo	ne Spring x
(Other)				sults of multiple comp ecompletion Report and	
posed work, if well work.)*	is directionally drilled, give a	ubsurface locations a	details, and give pertinent dates nd measured and true vertical o	, including estimated lepths for all markers	date of starting any pro- and zones pertinent to this
35' cmt on plug. Ran CBL/CCL/GR f 9802' 4 spf (8 hol RIH w/4" guns. F w/no communicati acid w/SB104 RA Began swabbing. Silicalite, 0.2 CFR- 5/8" annulus. Pui Drilled out retainer Perf from 9550'-9 Hybergel 35 carry Swabbed well. RI	rom 10,422'-8000' w es). Unable to pump Perf. 2nd Bone Spring on. Set RBP @9771' naterial. Flushed to Retrieved RBP & pkr. 2. Cmt @ 3BPM out p led up & reversed ou & cmt. Ran temp. s 575' (102 holes total ng 29,000# 20/40 Ot t w/ 2-7/8" production	y/150 psi on cs into perfs. 9550'-9600' 2 & packer @9304 bottom perf. N Set cmt retain perfs @ 9550'-9 t 3 sx cmt. urvey & found ). Acidize w/2 tawa sand & 85 on string. Set	ring. RIH w/5-1/2" CIE g. TOC @9900'. TIH w spf (102 holes). Load I'. Acdz w/2500 gallo o flow down from perf her @9480'. Pumped 6 600' and up annulus. TOC @ 4850'. Drilled cr 500 gal. 7-1/2% NEFe 5,800# HS sand. TAC in 10 pts. tension.	/4" csg gun. S led csg & press ns 7–1/2% NEFe s but uncertain 50 sx Premium f Had full returns nt from 9482'-9 HCl. Frac. w/ 3	Shot @ 9800'- sured to 2000 psi e HCI. Tagged about flow up. Plus 50-50 s out 5-1/2" x 8- 9615'. 31,000 gals.
18. I hereby certify that the SIGNED Certify that the SIGNED CONDITIONS OF APPROVED	l or State office use)		Sr. Staff Env./Reg. Sp	9CDATE DATE	08 November 1990
	r	<sup>*</sup> See Instruction	ns on Reverse Side		

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Form 3160-3 (July 1989) (formerly 9-3	331C)	UNITED S EPARTMENT O BUREAU OF LAND	F THE I		CONTAC OFFICEF( OF COPIE (Other instru reverse sin	DR NU R S REQUINED Ictions on		BLM Roswel Modified For NM060-316 <u>3</u> € 02. 5. LEASE DESIGN	m No. 5-2 らースス	ND SERIAL NO.		
APPLICA	TION FOR	PERMIT TO D	DRILL,	DEEPEN	, OR PLU	G BACK		5. IF INDIAN, AL	LOTTEE (	OR TRIBE NAME		
1a. TYPE OF WORK		DI	EEPEN [	]	PLUG B	ACK 🗵		7. UNIT AGREEM	MENT NAME			
DIL VELL	GAS WELL	OTHER		SINGLE ZONE			-	S. FARM OR LEA	ASE NAME	E		
2. NAME OF OPERAT					3a. AREA CODE	PHONE NO.		Fe	ederal	"MA"		
Southland	Royalty Comp	any			915-686-5	5600	-	3. WELL NO.				
3. ADDRESS OF OPE	RATOR								2			
21 Desta D	or., Midland, 1	FX 79705						10. FIELD AND F	POOL, OR	WILDCAT		
	ELL (Report locatio	n clearly and in accord	lance with a	iny State requir	ements.*)				rbin (B	one Spring)		
At surface 1980' ESL	& 660' FEL	unit I						11. SEC., T., R., M., OR BLK.				
At proposed pr		Unit -						AND SURVEY	UR AREA	<b>4</b>		
Same								Sec. 2	21. T18	8S, R33E		
14. DISTANCE IN MI	LES AND DIRECTION	FROM NEAREST TOWN	OR POST OF	ICE*			+	12. COUNTY OR		13. STATE		
12 miles so	outheast of M	aliamar, NM						Lea		NM		
15. DISTANCE FROM	PROPOSED*	660'		16. NO. OF A	RES IN LEASE			RES ASSIGNED		·		
PROPERTY OR L	EASE LINE, FT. t drig. unit line, if				960	тот	HIS V		40			
18. DISTANCE FROM				19. PROPOSED		20. BOT	ARY	OR CABLE TOOL		<u> </u>		
TO NEAREST WE	LL, DRILLING, COMI R, ON THIS LEASE,	PLETED,	<b>,</b> ,	10 403	' (Plug Bac			Pot	hanv			
21. ELEVATIONS (Sh		1050	J	10,403	Flug Bac	K)			ATE WOR	K WILL START *		
•	ow whether br, at	, un, 110.)										
3826' GR.									ASAP			
23.		PRUPUSE	ED CASING	AND CEM	ENTING PROC	aram						
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GR	DE	THREAD TYP	E SET	TING	DEPTH	QUANT	ITY OF CEMENT		
17-1/2"	13-3/8"	48#	Н	-40	STC		3	49'		300 sx		
11"	8-5/8"	32#	J	-55	STC		49	984'		900 sx		
7-7/8"	5-1/2"	20# & 17#	N	-80	LTC & Bu	tt 🔤	13	,461'	1	1000 sx		

Recomplete from the Wolfcamp to the Bone Spring according to the attached recompletion procedure.

# How 13 13 13 13 14 190

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Blint L. Brackhaw	TITLE	Sr. Staff Env./Reg. Spec.	DATE	08 November 1990
(This space for Federal or State office use)				
PERMIT NO.		APPROVAL DATE		
APPROVED BY	TITLE		DATE	11-16 96
CONDITIONS OF APPROVAL, IF ANY :				

#### \*See Instructions On Reverse Side

TITLE 18 U.S.C. SECTION 1001, 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.

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

#### State of New Mexico Energy, Minerals and Natural Resources Department

# **OIL CONSERVATION DIVISION**

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Well No.
SOUTHLAND	ROYALTY	COMPANY		FEDERAL	"MA"			2
Unit Letter	Section	Township		Range			County	
I		21	<u>18 SOUTH</u>	33	EAST	NMPM		LEA
Actual Footage Loca	ation of Well:							
1980	feet from the	<u>SOUTH</u>	line and		660	feet from	the E	AST line
Ground level Elev.	Рт	oducing Formation		Pool				Dedicated Acreage:
3825.9'		BONE SPRING			SOUTH CO		_	40 Acres
I. Outline	e me acreage of	dicated to the subject v	well by colored per	icit or hachure	marks on the p	biat below.		
2. If more	e than one lease	is dedicated to the we	il, outline each and	identify the ow	vnership thereo	of (both as to worki	ng interest an	d royaity).
3 If mon	e than one leave	of different ownership	is dedicated to the	well have the	interest of all	onmen been coneo	lidated by one	
	tion, force-pool			well, have the	mucrest of all	owners been couso		mmunuz <b>zuo</b> u,
	Yes	No If	answer is "yes" typ	e of consolidat	ion			
	is "no" list the if neccessary.	owners and tract descr	iptions which have	actually been of	consolidated.	(Use reverse side of	•	
		igned to the well until	all interests have b	een consolidate	d (by commun	itization, unitization	1. forced-pool	ing, or otherwise)
or until a	non-standard u	nit, eliminating such in	terest, has been app	proved by the I	vision.		· ·	
r	<u> </u>						OPERA	TOR CERTIFICATION
	ļ							y certify that the information
	1					c	ontained her	ein in true and complete to the
	ļ				1	4	est of my kno	wledge and belief.
					1	5	ignature	FL. Bradshaw
					l		U	L. BRADSHAW
					ļ	P	rinted Name	
					<u> </u>			AFF ENV/REG SPEC.
					ļ	P	osition	
	ļ				1		MER][I	AN OIL INC.
					1		ompany	
					1			EF 9, 1990
					1	E	)ate	
							SURVE	YOR CERTIFICATION
	1				I			
					I		hereby ceri	ify that the well location shown was plotted from field notes of
					‡			vs made by me or under my
					ŧ,			ind that the same is true and
						I I I		he best of my knowledge and
					Ŧ	<b>7</b>		PRJL_4, 1967
					Ŧ		Date Surveye	
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	1						Professional S	
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			1		1		Certificate No	).
					<u> </u>			
0 330 660	990 1320	1650 1980 2310	2640 20	00 1500	1000	500 0		

#### Federal MA Com. #2 South Corbin Field Lea County, New Mexico

#### Recompletion Procedure

- 1. MIRU pulling unit. ND pumping tee. POOH with rod string and pump. Kill well with 2% KCl water. ND tubing head. NU BOP. Release TAC and POOH with production tubing.
- RU electric line. RU pack-off head on top of BOP. RIH with junk basket/gauge ring for 5 1/2" casing to 10450'. POOH. RIH with 5 1/2" CIBP and set at 10450'. 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/CET/CCL tool. RIH and log from 10450' to 8000' with 1500 psi being held on casing. POOH. Contact production engineer with results.

If cement bond is adequate across pay zones, proceed with step 9.

If remedial cementing is required, proceed with step 5. This procedure assumes TOC @ 9950' as noted in well file. Modifications to cementing procedure may be required based on log results.

- 5. RU electric line to perforate. RIH with 2' 4" casing guns (4 SPF, 90° phasing). Perforate with top shot at 9850'. POOH.
- 6. RU reverse unit. Establish circulation down 5 1/2" casing taking returns on 5 1/2" x 8 5/8" annulus. Record rates/pressures.
- 7. TIH with 2 7/8" 6.5# N-80 tubing with 5 1/2" cement retainer. Set retainer at 9750'. Load 2 7/8" x 5 1/2" annulus. Test tubing to 6000 psi. Establish circulation through 2 7/8" tubing taking returns on 5 1/2" x 8 5/8" annulus. Record rates/pressures. Pump the following cement slurry as per the attached Halliburton recommendation:

Type: Class C Volume: 600 sx Additives: .5% HALAD-322 Yield: 1/18 ft/sk Density: 15.8 ppg Fluid Requirements: 5.2 gal/sk

Displace cement to retainer with recommended flush. Sting out of retainer and reverse out 1 1/2 tubing volumes or until clean. Circulate and condition hole with treated 2% KCl water. POOH.

Federal MA Com. #2 Procedure Page 2

8. WOC 24 hours. RU electric line. RU pack-off head on top of BOP. RIH with GR/CBL/CET/CCL tool. Log from PBTD to TOC with 1500 psi on 5 1/2" casing. POOH. Contact production engineer and discuss cement bond results. WOC an additional 24 hours. Load 5 1/2" x 8 5/8" annulus. Test 5 1/2" casing to 5000 psi.

#### 2nd Bone Spring Sand

- 9. RU electric line to perforate. RIH with 4" casing guns and perforate the 2nd Bone Spring sand at 9550'-9600' (2 spf, 90° phasing, total 102 holes). POOH and RD electric line.
- 10. TIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" 6.5# N-80 tubing. Set packer below perforations and test tubing to 5000 psi. Release packer. Pickle tubing with 250 gallons of 7 1/2% NEFe HCl acid. Reverse out pickling fluids. PU and set packer at 9450'. NU stimulation valve.
- 11. MIRU stimulation company. RU surface lines and test to 5000 psi. Place 1000 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump 2500 gallons of 7 1/2% NEFE HCl acid. Space out 150 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 with displacement.

Treating Rate	=	4-5 bpm
Treating Pressure	=	3500 psi
Maximum Treating Pressure	=	50 <b>0</b> 0 psi

RDMO stimulation company.

- 12. Swab test well recording rates/volumes/cuts. Send water samples to lab for full water analysis.
  - a. If zone is wet, set CIBP at 9500'.b. If zone is productive, continue with procedure.
- 13. ND stimulation valve. Release packer and RIH through perforations. POOH.
- 14. MIRU stimulation company. ND BOP. NU flanged frac valve. RU surface lines and test to 5000 psi. Fracture stimulate the 2nd Bone Spring sand perforations (9550'-9600') according to the attached fracture stimulation schedule. Radioactively tag the pad and sand stages with scandium and iridium isotopes respectively.

Fracture Fluid Volume/Type	=	34000 gal Hyborgel 40
Proppant	=	15300 lbs 20/40 Ottawa sand
	=	68000 lbs 20/40 Super HS sand
Treating Rate	=	35 bpm
Treating Pressure	=	3800 psi
Maximum Treating Pressure	=	5000 psi

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

- 15. Shut well in to RD stimulation company and RU flowline. Leave well SI overnight. Flow well back on 8/64" choke to recover load water.
- 16. 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.
- 17. TIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" 6.5# N-80 tubing. Set packer at ±9450'. Swab test well recording rates/volumes/cuts. If well does not flow, continue with procedure.
- 18.\* RU wireline. RIH with tandeum BHP gauges to 9400'. Record static BHP for a minimum 24 hrs. Monitor surface pressure with chart recorder. POOH making static gradient stops at 9000', 8000', 6000', 4000', 2000'. RD wireline.

#### 1st Bone Spring Sand

- 19. Release packer and POOH.
- 20. RU electric line. RU packoff head on top of BOP. RIH and set CIBP at 8900'. POOH.
- 21. RU electric line to perforate. TIH with 4" casing guns and perforate the lst Bone Spring sand at 8620'-8670' (2 spf, 90° phasing, total 102 holes). POOH and RD electric line.
- 22. TIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" 6.5# N-80 tubing. Set packer below perforations and test tubing to 5000 psi. Release packer. PU and set packer at 8520'. NU stimulation valve.
- 23. MIRU stimulation company. RU surface lines and test to 5000 psi. Place 1000 psi on 2 7/8" x 5 1/2" annulus. Monitor throughout the job. Pump 2500 gallons of 7 1/2% NEFe HCl acid. Space out 150 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 with displacement.

Treating Rate=4-5 bpmTreating Pressure=3300 psiMaximum Treating Pressure=5000 psi

RDMO stimulation company.

- 24. Swab test well recording rates/volumes/cuts. If fluid entry is limited, continue with fracturing procedure.
- 25. ND stimulation valve. Release packer and RIH through perforations. POOH.
- 26. MIRU stimulation company. ND BOP. NU flanged frac valve. RU surface lines and test to 5000 psi. Fracture stimulate the 1st Bone Spring sand perforations (8620'-8670') according to the attached fracture stimulation schedule. Radioactively tag the pad and sand stages with scandium and iridium isotopes respectively.

Federal MA Com. #2 Procedure Page 4

Fracture Fluid Volume/Type	=	36000 gal Hyborgel 40
Proppant	=	17600 lbs 20/40 Ottawa sand
	=	68000 lbs 20/40 Super HS sand
Treating Rate	=	35 bpm
Treating Pressure	=	3600 psi
Maximum Treating Pressure	=	5000 psi

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

- 27. Shut well in to RD stimulation company and RU flowline. Leave well SI overnight. Flow well back on 8/64" choke to recover load water.
- 28. 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.
- 29. TIH with 5 1/2" treating packer, 2.25" SN, and 2 7/8" tubing. Set packer at 8520'. Swab test well recording rates/volumes/cuts. If well does not flow, continue with procedure.
- 30.\* RU wireline. RIH with tandum BHP gauges to 8470'. Record static BHP for a minimum 24 hrs. Monitor surface pressure with chart recorder. POOH making static gradient stops at 8000', 7000', 6000', 4000', 2000'. RD wireline.
- 31. Release packer and POOH.
- 32. TIH with 4 3/4" bit and 2 7/8" tubing. Drillout CIBP at 8900'. Clean out to PBTD (9750'). POOH.
- 33. RU electric line. RU packoff head on top of BOP. TIH with 3 5/8" PRISM tool and log from PBTD to 8500'. POOH and RD electric line.
- 34. TIH with production tubing as follows (assuming both zones to be commingled):
  - Bull plugged MA
  - Perforated sub
  - Mechanical SN (2.25" ID)
  - 5 1/2" TAC
  - ±8500' 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 1/2" x 24' RHBM pump
- 5625' of 3/4" EL steel sucker rods with FHSMC
- 2875' of 7/8" EL steel sucker rods with FHSMC

645.7

Federal MA Com. #2 Procedure Page 5

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

Hang rods on beam. Report production volumes to the Midland office. Sheave well as required to keep well pumped off if possible. After 1-2 months, contact production engineer to discuss lowering pump setting depth.

Approved the E. Barnes For Date 10-8-90 T. J. Harrington 645.7 BHS





Submit 5 Copies	
Appropriate District Office	
Appropriate District Office DISTRICT I	
D.O. Dox 1080 Hobbs MM	21

# P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico ergy, Minerals and Natural Resources Depart.

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## **OIL CONSERVATION DIVISION**

Form C-104 Revised 1-1-89 See Instructions at Bottom of Page

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

#### REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

1.		10 In/	11101				TUTIAL			<u></u>	
Operator Southland Royalty Compa	anv							1	API No. 0-025-220	96	
Address	y				<u> </u>			30	020-220		<u>,</u>
21 Desta Dr., Midland, T	X 79705										
Reason(s) for Filing (Check proper box)						<u> </u>	er (Please expl				
New Well		Change in		-	er of:		nange oil ti				
Recompletion	Oil	×				ar	mended an	a produc	ction can g	jo to batt	ery.
Change in Operator	Casinghe	ad Gas	Cond	leasa	ite						
If change of operator give name and address of previous operator	·_ · _ · _ ·										
II. DESCRIPTION OF WELL	L AND LE	CASE									
Lease Name		Well No.	Pool	Nan	ne, Includ	ing Formation			of Lease		ease No.
Federal "MA"		2	We		Corbin	(Bone Sp	ring)	Fed	, Federal or Fe eral	e NM-C	
Location					6		660			Fact	
Unit Letter	. 1980		Feet	Fron	n The <u>So</u>	Lin	e and <u>660</u>	I	Feet From The	East	Line
Section 21 Townsh	hip 18	South	Rang	e 3	33 Eas	t, N	MPM,		Lea		County
III. DESIGNATION OF TRA	NSPORT	FR OF O	TT. A	ND	NATI	RAL GAS					
Name of Authorized Transporter of Oil		or Conder		<u>ر</u> ۲	<u></u>	Address (Giv	e address to wi	••			
Pride Pipeline						ļ			oilene, Tex		
Name of Authorized Transporter of Casi Phillips 66 Natural Gas		X	or Di	ry Ga	25	Address (Giv	e address to wi 4001 Peni	••	<i>d copy of this f</i> dessa, Te:		
If well produces oil or liquids,	Unit	Sec.	Twp.	-	Rge.		•	Whe	<b>n</b> ?		
give location of tanks.		21	18		33 E	1	Yes	00 767	-currently	boing am	ondod
If this production is commingled with tha IV. COMPLETION DATA	t from any ot	her lease or	pool, g	give	comming	ling order num	ber:	0-707	currentiy	being and	endeu.
		Oil Well		Ga	s Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Designate Type of Completion		pi. Ready to				Total Depth	l	<u> </u>	P.B.T.D.	l	<u> </u>
Date Spudded	Date Com	ipi. Keady u	Prod			Total Depai			r.b.1.D.		
Elevations (DF, RKB, RT, GR, etc.)	levations (DF, RKB, RT, GR, etc.) Name of Producing Formation					Top Oil/Gas	Pay		Tubing Dep	th	
Perforations			<u> </u>					<u> </u>	Depth Casir	g Shoe	
		TUBING,	CAS	SINC	G AND	CEMENTI	NG RECOR	D			
HOLE SIZE	CA	SING & TL	JBING	SIZ	Έ		DEPTH SET			SACKS CEM	ENT
								<u> </u>			
	_										
							<del></del>				· · <u>–</u>
V. TEST DATA AND REQUE						1					
OIL WELL (Test must be after	recovery of 1	otal volume	of load	d oil	and must					for full 24 hou	<b>vs</b> .)
Date First New Oil Run To Tank	Date of Te	st				Producing Me	ethod (Flow, pu	imp, gas lift,	elc.)		
Length of Test	Tubing Pr	essure			. <u> </u>	Casing Pressu	ire		Choke Size		
Actual Prod. During Test	Oil - Bbls					Water - Bbls.			Gas- MCF		
L <u></u>		··-								······································	<u></u>
GAS WELL	I amount of	Taet				Bbis. Conden	sate/MMCF		Gravity of C	londensate	
Actual Prod. Test - MCF/D	Length of	I COL									
Testing Method (pilot, back pr.)	Tubing Pr	essure (Shut	-in)			Casing Pressu	ire (Shut-in)		Choke Size		
L <u></u>						lr					<u> </u>
VI. OPERATOR CERTIFIC				NC	СE		DIL CON	ISERV		DIVISIC	)N
I hereby certify that the rules and regu Division have been complied with and				ve							
is true and complete to the best of my		-	с <b>д н</b> ОО	••		Data	Approve	d .			
	$\bigcirc$					Dale	Approve	u			
Kelent K. Br	what	au				By_			···. · ·		.1
Signature Robert L. Bradshaw	•	Env./R	lea.	Sor	ec.	<sup>Uy</sup> _		·····			4
Printed Name	<u> </u>		Title			Title					
15 November 1990		915-6			78					·····	
Date		Tele	phone	<b>NO</b> .		H					

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

4) Separate Form C-104 must be filed for each pool in multiply completed wells.