Submit to Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies		State of New Mexico Energy, Minerals and Natural Resources Department			Form C-101 Revised 1-1-89	
DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION P.O. Box 2088				API NO. (assigned by OCD on New Wells) 30-025-30504		
<u>DISTRICT II</u> P.O. Drawer DD, Artesia,		anta Fe, New Mexico	87504-2088	5. Indicate Type	of Lease STATE X FEE	
<u>DISTRICT III</u> 1000 Rio Brazos Rd., Azi	ec, NM 87410			6. State Oil & Ga	as Lease No. 14 - 15	
APPLICA	TION FOR PERMIT	O DRILL, DEEPEN, C	R PLUG BACK			
<ul> <li>Type of Work:</li> <li>DRII</li> <li>b. Type of Well:</li> </ul>	L 🗌 RE-ENTER	DEEPEN	PLUG BACK	7. Lease Name of	r Unit Agreement Name	
OL GAS WELL X WELL [ Name of Operator	OTHER	SINGLE ZONE	X ZONE	State	E - 744 - 15	
Marathon Oil	. Company			8. Well No.	1	
3. Address of Operator					9. Pool name or Wildcat	
P. O Box 552	Midland, Tex	as		Mescaler	to Escarpe (Bone Spr	
. Well Location Unit Letter]	: <u>2086</u> Feet F	rom The South	Line and55	4 Feet From	The East Line	
Section	15 Towns	hip 18-S Ran	ве 33-Е	NMPM I	ea County	
		10. Proposed Depth				
		9,537' PE		Formation ne Spring	12. Rotary or C.T. Rotary	
Elevations (Show wheth	er DF, RT, GR, etc.) 1	4. Kind & Status Plug. Bond	15. Drilling Contracto		Approx. Date Work will start	
	EXISTING PR	Blanket	T.O.T. Drill	ing Corp. C	Completed	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEN	MENT EST. TOP	
17 1/2"	13 3/8"	48#	450'	410	Circ. (Surf.)	
<u>12 1/4"</u> 8 3/4"	<u> </u>	<u>40 &amp; 36#</u> 15.5 & 17#	<u>3100'</u> 11,403'	1230 2575	Circ. (Surf.) 2500' (Est.)	
ductive, to t 1. MIRU Pu 2. ND Land 3. RU wire 4. RIH w/5 5. RIH w/2 psig. 6. POOH.	he Bone Spring of lling Unit. ing flange. NU line contractors 1/2" CIBP & set 7/8" workstring Held OK. RU wireline cont	DOP'S. BOP'S. . @ 9537'. Rd wi g to 9525'. Circ	owing is the r reline contrac ulated hole w/	ecompletion tors. 2% KCL. Tes	ted CIBP to 1000	
	INTER PROGRAM, IF ANY.	AM: IF PROPOSAL IS TO DEEPEN			ZONE AND PROPOSED NEW PRODUCTIVE	
DRE. GIVE BLOWOUT PREVI	nation above is true and complete	mu	Hobbs Product	ion Superint	endent 8-16-89	
hereby certify that the inform	ution above is true and complete	TITLE	Hobbs Product	ion Superint		
hereby certify that the inform KONATURE	J. R. Jenkins GINAL SIGNED BY JER DISTRICT I SUPERV	RY SEXTON	<del> </del>	ion Superint	Englenat 8-16-89 TELEPHONE NO. (915) 682- AUG 25 1984	

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Item 17 (continued) Recompletion Procedure

- Perforated Second Bone Spring Sand from 9434'-36', 9439'-43'; 8. 9451'-54'; 9456'-61'; 9469'-76' w/1 JSPF (total 26 holes).
- 9. RD wireline contractors.
- 10. RIH w/ 5 1/2" RTTS pkr. & SN on 2 7/8" Tbg. to 9476'. Dropped standing valve.
- 11. RU Acidizers
- Tested lines & Tbg. to 6000 psig. Held OK. Retrieved standing valve. 12.
- 13. Spotted 250 gals. 7 1/2% HCL. PU to 9350'.
- Reversed 6 BBLS. & set pkr. Pressured backside to 1000 psig. 14.
- 15. Broke down formation @ 4000 psig @ 3 BPM. Opened bypass & spotted acid to pkr. Closed bypass, holding 1000 psig on backside.
- 16. Acidized Second Bone Spring Sand perfs from 9434'-9476' w/ 1750 gals. 7 1/2% HCL using 50 frac balls for diversion. AIR 3 1/2 BBL/min @ 3500 psig. Had good ball action. Surged balls off. Flushed to bottom perfs.
- Released pressure, unset pkr. & RIH to 9490' to clear perfs. 17.
- 18. PU to 9320' & set pkr. Pressure backside to 1500 psig.
- Pumped 7000 gals. 2% KCL as prepad. Fractured Second Bone Spring Sand 19. down 2 7/8" workstring w/ 26,746 gals. of 20/40 sand @ concentrations from 1 PPG-3 PPG. Screened out w/ 4746 gals. of 3 PPG in formation.
- Flushed to top perfs. w/ 2% gelled KCL. AIR 12 1/2 BPM @ 4800 psig. 20. MAX. PRESS. 5000 psig.
- 21. RD Acidizers.
- 22. RU wireline contractors w/ full lubricator.
- 23. Ran temp. survey. Zone of entry 9370'-9470'.
- 24. POOH & RD wireline contractors.
- Opened well to frac tank on 12/64" choke. Well flowed 41 BW in 3 hrs. 25. Increased choke to 16/64". Well flowed 26 BW in 1 hr. @ 100 psig. FTP.
- Opened bypass on pkr. & killed well. Unseated pkr. & POOH. 26.
- 27. RU wireline contractors w/full lubricator.
- RIH w/ 3 1/8" casing gun. Tested lubricator to 1000 psig. Held OK. 28. 29.
- Perforated First Bone Spring Sand from 8626'-33' w/ 2 JSPF. (Total 15 holes.) 30.
- RD wireline contractors.
- RIH w/5 1/2" RBP, retrieving head, RTTS pkr. & SN on 2 7/8" Tbg. Set 31. RBP @ 8810'. Tested to 1500 psig. Held OK. Dump bailed 2 sx. sand onto RBP.
- 32. RU acidizers.
- 33. RIH to 8635'. Spot 150 gals. 7 1/2% HCL. PU to 8492'. Reversed out 3 BBLS. Set pkr. Pressured backside to 1000 psig.
- Broke down formation @ 3500 psig. @ 1 1/2 BBL/min. After breakdown 34. formation took 3 BPM @ 3300 psig.
- 35. Open bypass & spot acid to pkr.
- Acidized First Bone Spring Sand w/ 850 gals. 7 1/2% HCL using 30 frac 36. balls for diversion. AIR 3 BBL/min @ 3200 psig. Max. rate 3 BBL/min @ 5000 psig. Good ball action. Surged balls off perfs. Flushed to bottom perfs w/ 2% KCL water.
- 37. Released pressure, unseat pkr. & RIH to 8665' to clear perfs. PU to 8640' & set pkr. Pressured backside to 1500 psig. Pumped 7000 gals. 2% KCL as prepad @ 12 BBL/min @ 4600 psig. Fractured
- 38. First Bone Spring Sand down 2 7/8" workstring w/ 19,700 gals. of 20/40 sand @ concentrations from 1 PPG - 5 PPG. Flushed to top perfs w/ 2% KCL. AIR 12 BBL/min. @ 4600 psig.
- 39. Released backside pressure.
- 40. RD Acidizers.
- RU wireline contractors w/ full lubricator. Temp. survey tool did not 41. work. POOH.
- RD wireline contractors. 42.
- Opened well to frac tank on 12/64" choke. Well flowed 40 BW in 2 hrs. 43. Increased choke to 16/64". Flowed 5 BW in 1 hr. w/ FTP of 50 psig.
- 44. Opened bypass & unseated pkr. RIH & circ. sand from RBP. RIH w/RBP & set @ 9520'. PU to 8460' & set pkr. Load & test backside to 500 psig. Held OK.
- 45. RU swab lubricator. FL @ surface. Swabbed 55 BW & 10 BO in 3 hrs.

Attachment I Recompletion Procedure Page 2

- 46. Opened well to frac tank on 12/64" choke. Flowed 18 BO & 0 BW in 45 min. w/ FTP of 205 psig.
- 47. Open pkr. Bypass. Released pkr. RIH & latched onto RBP. POOH. Laying down 2 7/8" workstring.
- 48. Changed rams to 2 3/8" Tbg. RIH w/2 3/8" mud anchor (slotted), SN, 31 jts. 2 3/8" Tbg. TAC & remaining production string. Set TAC @ 8518' in 12K# tension.
- 49. Installed pumping tee & valves.
- 50. RIH w/ gas anchor, pump & combination steel & fiberglass rod string.
- 51. Set pumping unit. Hung well on. Spaced out pump.
- 52. Placed well on test. Pumping to battery. On 8-15-89 well pumped 55 BO, 7 BW & 30 MCFGPD in 24 hrs. (Potential test).