En Minerals & Natural Resources Department

District I PO Box 1980, Hobbs, NM 88241-1980 District II &11 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

								² OGR	² OGRID Number				
	¹ Operator name and Address									14001			
	Marathon Oil Company									<u>14021</u> 3 API Number			
P.O. Box 552													
Midland, TX 79702 ⁴ Property Code 5						roperty Name			<u>30-0 25-29469</u> 6 Well No.				
•	•									19			
	6488 ⁷ Surface Lo							DU WORTHAN					
TH an latera	Section	Township	Range Lot. Idn		Feet from the		outh Line	Feet from the	East/West line	County			
UL or lot no.			-	Don Iun	600	NC	ORTH	880	WEST	LEA			
D	11	22-5	<u>37-E</u>	Dettern l	680 Hole Locatio								
								Feet from the	East/West line	County			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from th	he North/South Line		I det nom die	Lust west into	<i>cc</i> ,			
	<u> </u>			<u> </u>	<u> </u>			10 Proposed P					
		9 Propose						Topologi					
	I	<u>BLINEBRY</u>	OIL, GAS										
U Work T	une Code	<u> </u>	12 Well Type (Tode	13 Cable/I	Rotary 14 Lease Type Code 15 Ground Level Elevation							
II WOIKI	ype Coue		2 wen Type Code						3368' G.L.				
	Р		0			A	19 Contractor		20 Spud Date				
16 Mu	ıltiple		17 Proposed Depth			18 Formation							
	NO				BLIN		RY POOL N/A						
				²¹ Propo	osed Casing	and Cemer	nt Progr	am					
Hole S	Size	C	asing Size Casing weight/foo			Setting Depth		Sacks of Cem	ent E:	t Estimated TOC			
	12.25"		9.625"		32	1200	•	700	CIRCULATED				
	8.75"		7"		26 740		0'1900						
0.7.													
								<u> </u>					
²² Describe the	proposed pro	ogram. If thi	s application is	to DEEPEN	or PLUG BACK	give the data or	the preser	nt productive zone a	ind proposed new j	productive zone.			
Describe the blo	wout preven	tion program	n, if any. Use a	iditional she	ets if necessary								
PPOPOSE -	TO ARANDO	ON EXIST	ING ABO PE	RFS AND	PLUG BACK TO) RECOOMPL	ETE IN	BLINEBRY.					
WELL IS /	A PROPOS	ED BLINE	BRY OIL WE	LL.									
the second se													
plue Rack													
	plug-Back												
					late to the best	[
²³ I hereby certi	²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.							OIL CONSERVATION DIVISION					
Signature: ()								Approved by:					
	$) \square (\square)$	Ilde-											
Printed name:	NGMIRE				Title:								
Title: DRILLING SUPERINTENDENT						Approval Date: Expiration Date:							

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State of New Mexico Energy Ainerals & Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Code			³ Pool Name					
30-025-29469				6660		BLINEBRY OIL, GAS						
⁴ Property	Code				⁵ Pro	perty Na	me		⁶ Well Number			
	6488		LOU WORTHAN							19		
⁷ OGRIE		⁸ Operator Name							⁹ Elevation			
14021							Company	<u>3368'_G.L.</u>				
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	n the	North/South Line	Feet from the	East/W	est line	County	
D	11	22-S	37-E		6	30 NORTH		880	WE	WEST LEA		
¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	or lot no. Section Township Range Lot. Idn		Feet from the		North/South Line	Feet from the East/V		'est line	County			
¹² Dedicated Acre		t or Infill ¹⁴ C	Consolidation	Code ¹⁵ Ord	der No.			L		4	· · · · · · · · · · · · · · · · · · ·	
40-NW/4,NW/										· —		
NO ALLO	NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NONSTANDARD UNIT HAS BEEN APPROVED BY THE DIVISION											
7/77	771		777	777	777							
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K	Ň						`				knowledge and belief.	
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K	#19						```	•				
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<u>· / / / / / / / / / / / / / / / / / / /</u>								Mid. V	ung	N_		
l`							\	Signature R.J.LONG	MIRF			
1							\	Printed Name				
ſ			1					DRILLING S	UPERIN	TENDE	NT	
ſ								Title				
			320 A	LEASE				<u>2/8/99</u> Date				
	114	111	1 4	1.1.1		4 4	11111					
								11			FICATION	
								was plotted from	field not supervisio	es of action, and	on shown on this plat tual surveys made by that the same is true	
										-		
						_		Date of Survey				
								Signature and Sea	l of Profes	sional Sur	veyer:	
								Certificate Numbe	er			

Lou Worthan #19 Drinkard Field 660' FNL and 880' FWL Section 11, T-22-S, R-37-E

AFE Number: 303299

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Date:	Janua	ƴ 29, 1999								
Purpose:	Recon	plete to the Bli	nebry formation							
Elevation:	Elevation: 3382'KB		3368'GL							
Estimated Co	st:		\$129,000							
Estimated Recompletion Duration:			9 days							
WI:	100%	NRI	87.5%							
Drillers TD:	7400'	PBTD	7050' CIBP							
Surface Casing:		9-5/8", 32# H-40 casing @ 1200'. Cemented w/ 400 sacks of "Lite" & 300 sacks of Class "C" w/ 2% CaCl $_{2}$.								
Production Casing:		7", 26# K-55 casing @ 7400' with float collar @ 7361' to a DV tool @ 3998'. 7", 23# K-55 casing from 3997' to surface. TOC approximately 2300' from CBL.								
Tubing Head:		(most likely) 11" 3M psi x 7 1/16" 3M psi Dual								
Tubing String:		207 jts of 2-3/8" 4.7# J-55 tubing, 7"x2-3/8" tubing anchor @ 6505', 16 jts of 2- 3/8" 4.7# J-55 tubing, 2-3/8" API seating nipple @ 7009', and a 16' 2-3/8" slotted mud anchor to a depth of 7027'.								
Rod String:		1-2' 7/8" rod sub, 1-8' 7/8" rod sub, 86-7/8" steel rods, 193-3/4" steel rods, and a 2" x 1-1/2" x 20' RHBC.								
Existing Perforations		: Abo (2 JSPF, 1997): 6546-56', 6574-94', 6611-16', 6615-28', 6631-34', 6650-64', 6675-82', 6692-95', 6698-6702', 6710-16', 6726-38', 6744-46', 6754-57', 6762- 68', 6772-78', 6782-85', 6794-97', 6802-12', 6818-24', 6834-40' (264 holes) Abo (1 JSPF, 1986): 6549', 75', 82', 88', 6605', 13', 26', 32', 63', 76', 6711', 65', 73', 95', 6808', 19', 35', 89', 6941', 58', 77', 98', 7010', 24' (24 holes)								
Abandoned Perfs:		Granite Wash (2 JSPF, 1986): 7069', ''2', 74', 76', 82', 89', 7107', 10' (18 holes), perfs open, CIBP @ 7050'.								
			5 casing – (80% Burst = 3488 psi) L-80 workstring – (80% Burst = 8128 psi)							
Anticipated Bottom Hole Pressure: Blinebry - 1500 psi										
Safety Consi	deration	is Run a	sufficient amount of killstring during any extended shut-in period.							

Safety Considerations: Run a sufficient amount of killstring during any extended shut-in period.

PROCEDURE:

- 1.) Notify Hobbs personnel of impending workover.
- 2.) MIRUPU. Kill well as necessary. Disconnect surface equipment. Lay down polish rod. POOH with rods and pump.
- 3.) ND tree. NU 7-1/16" 5M Hydraulic BOPE with 2-3/8" pipe rams and two valves below blind rams & DSA (Note: Check tubing spool and tubing hanger to insure hanger will pass through BOP's). Release tubing anchor. POOH and visually inspect tubing. RIH with packer-type RBP. Set RBP at ± 100'. Pressure test casing and pipe rams to 1500 psi. POOH with 2-3/8" tubing. Pressure test casing and blind rams to 1500 psi. RIH and latch onto RBP. Release RBP and POOH.
- 4.) RU electric line company with pack-off and RIH to ~6500' with gauge ring for 7", 26# casing. Wireline dump bail 35' of cement on CIBP at 7050'. RIH with 2-3/8" tubing set CIBP below a 7" packer. Set CIBP at ± 6500'. PUH one stand and set packer. Pressure test plug to 1500 psi. Spot 35' of cement down tubing onto CIBP. POOH.

- 6.) Change 2-3/8" pipe rams to 3-1/2" and test (while RIH with workstring, set packer at ± 100'). RU Hydrotesters. Pick up and RIH with a 7" treating packer and seating nipple on 3-1/2" 9.3# L-80 workstring to ± 5500' hydrotesting to 8200 psi. RD Hydrotesters. Set packer at ± 5500'. Load and test annulus to 1000 psi.
- 7.) RU acid company. Pressure test surface lines to 7500 psi and pressure annulus to 500 psi. Acidize with 2000 gals of 15% Ferchek SC with 100 1.3 SG ball sealers at 3 - 5 BPM. Flush to bottom perf with 2% KCl water. Surge the balls after acid job. Anticipated treating pressure = 2500 psi. RD acid company.
- 8.) RU swab equipment. Notify Midland New Mexico Engineering Department with results. RD swab equipment.
- 9.) RU flowback manifold. RU stimulation company and Protechnics. Install treating lines and frac valve. Pressure test lines to 9000 psi. Install pop off valves set at 1500 psi on casing valves and pressure annulus to ± 500 psi. Sand fracture stimulate the Blinebry as per attached recommendation. Anticipated treating pressure = 3850 psi. Maximum treating pressure limit = 8200 psi. Flush to top perf with linear gel. Flow back frac at 2-3 BPM. RD stimulation company and Protechnics.
- 10.) Flow well back to frac tank to recover load or until well dies.
- 11.) Install a 7-1/16" 3M valve. RU lubricator and RIH with sinker bar on sand line to check for fill. If sand is encountered in the workstring, RU coiled tubing and nitrogen unit and clean out to PBTD. Unset packer. POOH with 3-1/2" workstring and lay down. Kill well as necessary, minimizing load. Change out pipe rams to 2-3/8" and test. RIH with 7" packer and on/off tool with profile nipple on 2-3/8" tubing. Set packer at ± 5500'.
- 12.) RU swab equipment. Notify Midland New Mexico Engineering Department with results. RD swab equipment.
- 13.) RU Slickline Company. Install a 7-1/16" 3M valve. RU lubricator and pressure test to 1000 psi. RIH with sinker bar on wireline to check for fill. If necessary, release packer, TIH and circulate wellbore clean. Run Protechnics SpectraScan Imager log from 6100' to 5400'.
- 14.) If during swabbing the well kicks off flowing (if not, go to step 16), set blanking plug in On/Off tool. Release On/Off tool and space out tubing string. Displace casing with packer fluid and engage On/Off tool. Pressure test tubing and packer to 1000 psi.
- 15.) ND BOPE, NU flowing wellhead and test. RU lubricator and swab down tubing. Pull blanking plug. RD lubricator. Proceed to step 18.
- 16.) If well does not kick off flowing, unset packer and POOH with tubing. RIH with slotted mud anchor, seating nipple, 2-3/8" tubing, 7" x 2-3/8" TAC, and 2-3/8" production tubing. Set TAC at ± 5300'.
- 17.) ND BOPE. NU pumping wellhead and test. RIH with pump and rod string. Space out plunger and hang well on. Reconnect surface equipment.
- 18.) RDMOPU.
- 19.) Monitor production and producing fluid levels.
- Xc: D.K. Barker R.L. Kleiv T.P. Kacir W.S. Landon S.F. Millican

Wellfile

