District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

1 Operator name and Address	2 OGRID Number
Marathon Oil Company P. O. Box 552 Midland Tx. 79702	14021
	3 API Number 30-0 30-025-34067

4 Property Code	5 Property Name	6 Well No.
	LAUGHLIN	#2

7 Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
"G"	9	20-S	37-E		2310'	NORTH	2310'	EAST	LEA

8 Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

9 Proposed Pool 1	10 Proposed Pool 2
MONUMENT PADDOCK	

11 Work Type Code	12 Well Type Code	13 Cable/Rotary	14 Lease Type Code	15 Ground Level Elevation
A	O	N/A	F	3541 G.L.
16 Multiple	**17 Proposed Depth**	**18 Formation**	**19 Contractor**	**20 Spud Date**
NO	6700'	PADDOCK	NO	NO

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11" SURFACE	8-5/8"	24#	1268'	650	SURFACE
7-7/8"	5-1/2"	15.50#	7050'	1405	SURFACE

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

PROPOSE TO ISOLATE TUBB PERFS, FROM 6408' TO 6589' W/ RBP SET @ 6350'.
PERFORATE PADDOCK PERFS. 5166' TO 5206' 2-JSPF AND STIMULATE AS PER ATTACHED RECOMPLETION PROCEDURE.
PLAN TO ZONE TEST PADDOCK PERFS. AND POSSIBLY COMMINGLE TUBB AND PADDOCK .

* SURFACE AND PRODUCTION CSG. CEMENTED IN PLACE.

Permit Expires 1 Year From Approval Date Unless ~~Drilling Underway~~ Adding

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: Jerry Fletcher	Approved by:	
Printed name: JERRY FLETCHER	Title:	
Title: ENGINEER TECH.	Approval Date: 2-2-2000	Expiration Date:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 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

State of New Mexico
Energy, Minerals & Natural Resources Departm.

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-34067	47080	MONUMENT PADDOCK

[4] Property Code	[5] Property Name	[6] Well Number
	LAUGHLIN	# 2

[7] OGRID No.	[8] Operator Name	[9] Elevation
14021	Marathon Oil Company	3541 G.L.

[10] Surface Location

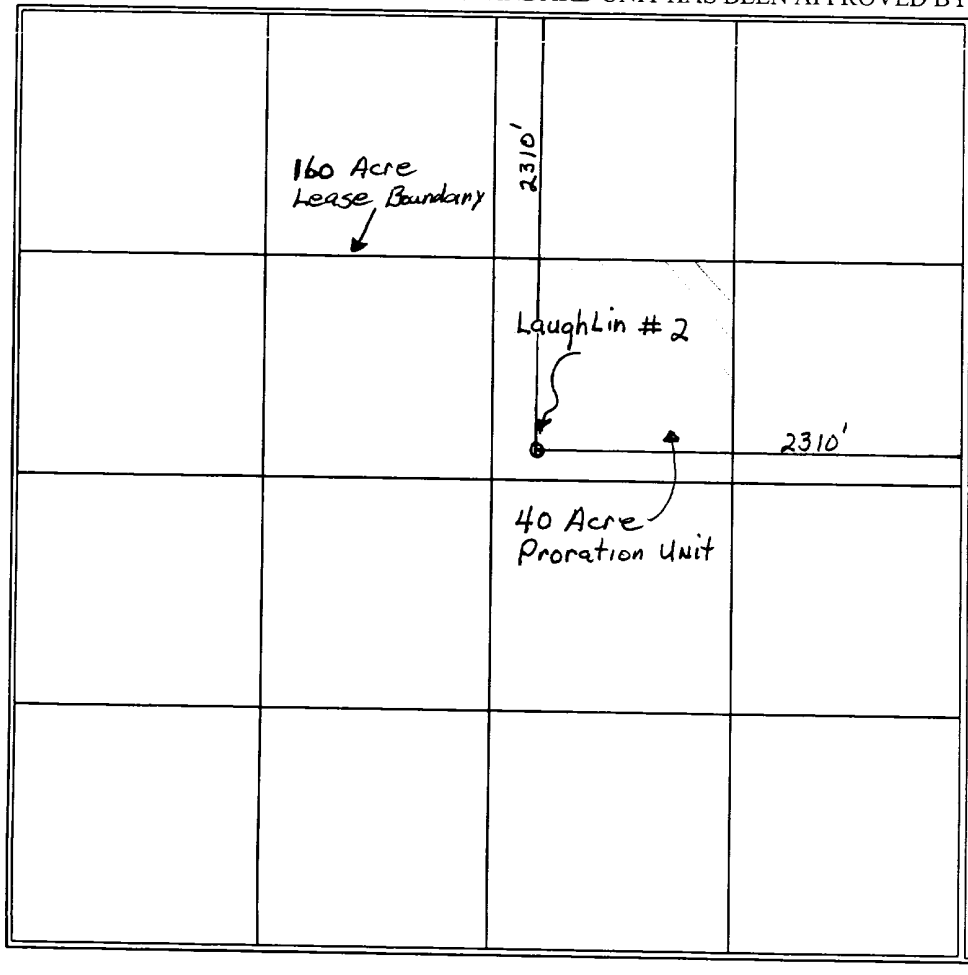
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
"G"	9	20-S	37-E		2310'	NORTH	2310'	EAST	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON--STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: Jerry Fletcher
JERRY FLETCHER
Printed Name
DRILLING ENGINEER TECH
Title
05-8-00
Date

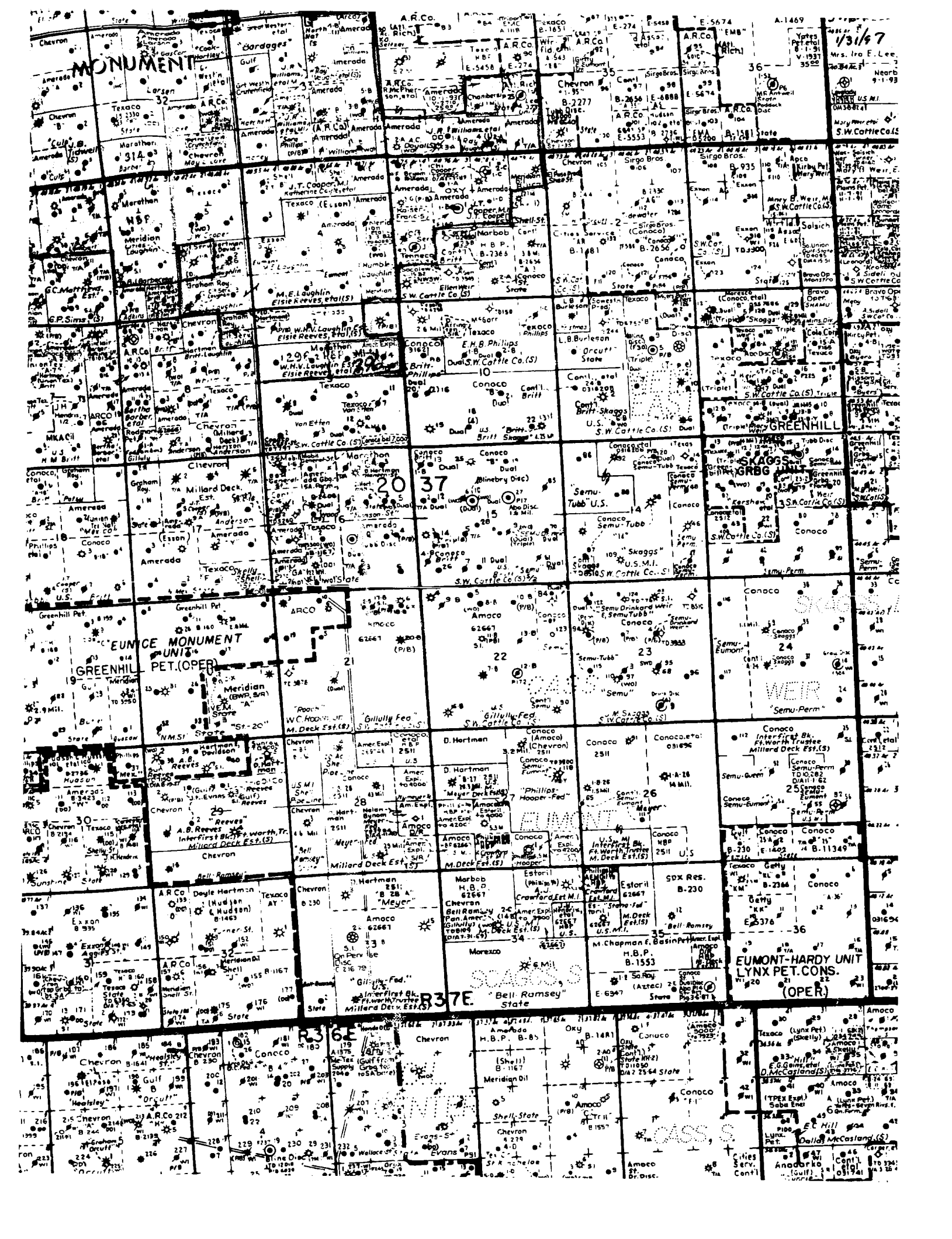
[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyer:

Certificate Number


MONUMENT
EUNICE MONUMENT UNIT
GREENHILL PET.(OPER)
SKAGGS GRBG UNIT
EUMONT-HARDY UNIT
LYNX PET.CONS.
(OPER.)
R37E
R36E
1/31/67

Workover Procedure

Laughlin No. 2

2310' FNL, 2310' FEL
Section 9, T20S & R37E, U/L "G"
Monument Field, Lea County, New Mexico

AFE NO.: **302400**

Date: May 8, 2000

Purpose: Re-complete well in the Paddock formation, and down-hole commingle with Tubb

Elevation: **KB:** 3557' **PBTD:** 6700'
GL: 3541' **TD:** 7050'

Estimated Cost: $63,000

Estimated Re-completion Duration: 8 days

WI: 100% **NRI:** 83%

Surface Casing: 8-5/8", 24#, J-55, 8rd ST&C, casing set to 1268'. Cemented w/ 450 sx. Class "C" w/ 4% gel, 2% $CaCl_2$ mixed at 13.5 PPG and 1.74 yield, tailed in w/ 200 sx. Class "C" w/ 2% $CaCl_2$. Circulated 100 sx. to pit.

Production Casing: 5-1/2", 15.5#, J-55, 8rd LT&C, casing set to 7050'. Cemented in two stages w/ DV tool at 4530'. 1st stage w/ 575 sx. Class "C" w/ 3% KCL, 0.2% Defoamer, 0.2% Dispersant, 0.2% FLA mixed at 14.8 PPG and 1.35 yield. Circulated 130 sx. to pit.

2nd stage w/ 630 sx. Class "H" w/ 16% gel, 3% salt, 0.2% Defoamer, 0.3% Dispersant, 0.3% FWC, ¼ #/sx. Celloflake mixed at 12 PPG and 2.77 yield. Tailed in w/ 200 sx. Class "C" w/ 3% KCL, 0.2% Defoamer, 0.2% Dispersant, 0.2% FLA, mixed at 14.8 PPG and 1.35 yield. Circulated 80 sx. to pit.
ID = 4.950" Drift = 4.825" Burst = (80% = 3848 psi)

Production Tubing: 194 jts. of 2-3/8", 4.7#, J-55 tubing with a 5-1/2" TAC at 6176', 12 jts. of 2-3/8", 4.7#, J-55 tubing, 2 jts. of 2-3/8", J-55 ceramic tubing, a seating nipple at 6554', a 4' perf sub at 6558', and an OE mud joint at 6590'

Rod String / Pump: 1-4', and 1-6' 7/8 pony rods, 97-7/8" grade "D" rods, 153-3/4" grade "D" rods, 12-3/4" guided grade "D" rods, 2"x1-1/2"x16'x4' RWBC Pump, and 1-8' Gas Anchor

Perforations: Existing (Tubb) 6408', 6425', 6441', 6448', 6450', 6452', 6458', 6462'-63', 6473' 6475', 6484' 6493'-95', 6502', 6513', 6524', 6530', 6532', 6540', 6565'-67', 6575', 6578', 6584', and 6589' w/ 1 SPF.

Abandoned (Drinkard) 6776'-84', 6814', 6817', and 6834'-42' w/ 2 SPF.

Squeezed (Abo) 6975'-82' w/ 2 SPF.

Latest Test: 5 BOPD, 50 MCFPD, and 5 BWPD.

Anticipated Bottom Hole Pressure: Paddock ~ 750 psi

Safety: Run sufficient amount of killstring during any extended shut-in period.
Install H_2S monitoring alarm and rescue equipment.
2-7/8", 6.5#, L-80 tubing – (80% Burst = 8456 psi)

PROCEDURE:

1. Notify Hobbs personnel of impending workover. Test safety anchors on location to 22,500#, if necessary.
2. MIRUPU. Disconnect surface equipment.
3. Hang off pumping unit. Lay down polish rod. POOH with 7/8" rods, 3/4" rods, and 1-1/2" insert pump.
4. ND wellhead. NU 7 1/16" 3M hydraulic BOP stack w/ 2-3/8" pipe rams on top and blind rams on bottom.

5. Release TAC at ±6176'. POOH with 2-3/8" production tubing.

6. Change pipe rams on BOPE to 2-7/8".

7. PU and RIH with 2-7/8", L-80 workstring and set a tension set BP at ±100'. Pressure test pipe rams to 1,000 psi. POOH with tubing and setting tool. Pressure test blind rams to 1,000 psi. RIH with BP retrieving tool, latch onto BP, and release. POOH with BP.

8. PU and RIH with 5-1/2" RBP and ball catcher on 2-7/8" workstring. Set RBP at ±6,350'. (Note: casing collars at 6331', and 6374'). Pressure test RBP to 1,500 psi. Circulate hole clean with 2% KCL water. Pickle tubing string with 750 gals. of 15% HCL acid at 1 BPM. Reverse circulate acid out with 2% KCL water. Spot 250 gal. of Double Inhibited Carbonate Completion Acid across perforations at 5,166'-5,206'. POOH with workstring.

9. RU electric line company and lubricator. Pressure test lubricator to 1,000 psi. RIH with a 4" slick gun. Gamma gun correlate on depth with Schlumberger OH log dated 9/21/97. Perforate Paddock formation top down with 2 JSPF, and 120 degree phasing at 5166'-5206' (82 holes). RD electric line company and lubricator.

10. RIH with a 5-1/2" treating packer on 2-7/8", L-80 production tubing. Hydrotest tubing while running in hole to 7000#. Set packer at ±5,100'.

11. RU acid company. Acidize Paddock formation perforations with 4,000 gals. of 15% Carbonate Completion Acid. Pump treatment at 5-7 bpm, dropping 125 – 1.3 SG ballsealers (anticipated WHTP – 3,000 psi). Flush to bottom perforation with 2% KCL water. RD acid company.

12. RU swab equipment. Swab test perforations. Notify Midland Engineering Department with results. RD swab equipment.

13. Release packer, and POOH laying down packer and workstring. Change out pipe rams from 2-7/8" to 2-3/8", and re-test to 1000 psi.

14. RIH with OE mud joint, perf sub, seating nipple, and a TAC on 2-3/8" J-55 production tubing. Space out tubing. Set TAC at ±4,843' with seating nipple at ±5,220'.

15. ND BOPE. NU wellhead. RIH with rod string and 1-1/2" IP pump. Space out plunger and hang well on.

16. Reconnect surface equipment. Start well pumping to test, and monitor production and fluid levels.

17. RDMOPU.

18. Funds are also included in the AFE to commingle the completed Paddock formation with the existing Tubb formation. Therefore, the well will be in test on the Paddock zone for approximately one month, while the filing for a commingling permit is processed. A commingling procedure will also be written at this time.

Xc:
D. Nordt
D. Arnst
M. Wiskofske
J. Lazzari
T. Kacir
B. Longmire
J. Chapman

Well File