

APPROVED BY: Gay W. Wink OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE: AUG 16 2007
Conditions of Approval, if any:

FORM	TOP																																																																
			<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; margin: 0;">STATE A A/C-1 #39</p> <p style="text-align: center; margin: 0;">WELLBORE DIAGRAM</p> <p style="text-align: center; margin: 0;">PETROHAWK OPERATING COMPANY</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">SU-T-R 17J-23S-36E</td> <td style="width: 70%;">API #: 30-025-09358</td> </tr> <tr> <td colspan="2">POOL: JALMAT; TAN-YATES-7 RVRs (PRO GAS)</td> </tr> <tr> <td>CO, ST: LEA, NEW MEXICO</td> <td>LAND TYPE: STATE</td> </tr> <tr> <td>STATUS: P&A</td> <td>ACREAGE 40.12</td> </tr> <tr> <td colspan="2">LATEST RIG WORKOVER:</td> </tr> <tr> <td colspan="2">DIAGRAM REVISED: 7/31/2007 BY C. Morro</td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>LOG ELEVATION: 3,461' KB</p> <p>GROUND ELEVATION: 3,446'</p> </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 20%;">CASING</th> <th style="width: 20%;">LINER</th> <th style="width: 20%;">TUBING</th> </tr> </thead> <tbody> <tr> <td>Hole</td> <td>12"</td> <td>7 7/8"</td> <td></td> </tr> <tr> <td>Pipe</td> <td>8 5/8"</td> <td>5 1/2"</td> <td></td> </tr> <tr> <td>Weight</td> <td>28#</td> <td>14#</td> <td></td> </tr> <tr> <td>Grade</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Thread</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Depth</td> <td>317'</td> <td>3,804'</td> <td></td> </tr> <tr> <td>Mud wt</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="margin-top: 10px;">Bad casing from 880' - 1500'. Squeezed w/335 sx class C. Could not drill out past 915' w/bit. Worked tbg to 1500'. Spotted 125 sx cement from 1500' - 300'. Tagged TOC at 751'. Perfed 50' below shoe. Squeezed w/40 sx. Tagged TOC at 200'. Spotted 25 sx plug of cement from 200' to surface. Plugs set per OCD (Buddy Hill) instructions.</p> <div style="margin-top: 20px;"> <p>DST 3705-3805' Gas in 6 min TSTM 530' sulphur wtr</p> <p style="margin-top: 10px;">Cored 3597-3806' L Yates</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">LOGS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Gamma Ray Neutron</td> <td style="width: 20%;">1957</td> </tr> <tr> <td>Laterolog</td> <td>1957</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">TAN-YATES-7 RVRs ZONE HISTORY</p> <p>9/59 Spud. 10/57 Initial Completion Frac 3,716-3,728' w/500 gal acid & 10,000 gal oil & 10,000# sand. Sqzd w/150 sx in 2 stages. Frac 3,634-44' w/500 gal acid & 10,000 gal oil & 10,000# sand. Frac 3,614-20' w/20,000 gal oil & 20,000# sand. 11/57 Frac 3,497-3,656' w/45,000 gal water & 45,000# sand. AOF 5600 MCFPD 9/66 Set Pkr @ 3,610'. Clean sand off pkr & Acidize w/500 gal 15% NE. Swab upper perms 1/93 T & A well. Tagged fill @ 2440, CO to 3450'.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">OPPORTUNITY</p> <p>Larger frac in Yates. Queen not produced.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center; margin: 0;">LANGLIE MATTIX (LWR 7RVRs-QUEEN) HISTORY</p> </div> <div style="margin-top: 20px;"> <p>TOC @ 3,105' by Temp Surv.</p> <p>PERFS: 3,497-3,605' 3,497-3,526, 3540-64, 3585-3,605' Pkr @ 3,610' on 9/66 PERFS: 3,614-20' Individual perms unknown PERFS: 3,634-3,644' Individual perms unknown PERFS: 3,650-56' Individual perms unknown Cmt Retainer 3,692-3,790' PERFS: 3,716-3,728'</p> </div> <div style="margin-top: 20px;"> <p>5 1/2" @ 3,804' w/200 sx Cmt</p> </div>	SU-T-R 17J-23S-36E	API #: 30-025-09358	POOL: JALMAT; TAN-YATES-7 RVRs (PRO GAS)		CO, ST: LEA, NEW MEXICO	LAND TYPE: STATE	STATUS: P&A	ACREAGE 40.12	LATEST RIG WORKOVER:		DIAGRAM REVISED: 7/31/2007 BY C. Morro			CASING	LINER	TUBING	Hole	12"	7 7/8"		Pipe	8 5/8"	5 1/2"		Weight	28#	14#		Grade				Thread				Depth	317'	3,804'		Mud wt				Gamma Ray Neutron	1957	Laterolog	1957														
SU-T-R 17J-23S-36E	API #: 30-025-09358																																																																
POOL: JALMAT; TAN-YATES-7 RVRs (PRO GAS)																																																																	
CO, ST: LEA, NEW MEXICO	LAND TYPE: STATE																																																																
STATUS: P&A	ACREAGE 40.12																																																																
LATEST RIG WORKOVER:																																																																	
DIAGRAM REVISED: 7/31/2007 BY C. Morro																																																																	
	CASING	LINER	TUBING																																																														
Hole	12"	7 7/8"																																																															
Pipe	8 5/8"	5 1/2"																																																															
Weight	28#	14#																																																															
Grade																																																																	
Thread																																																																	
Depth	317'	3,804'																																																															
Mud wt																																																																	
Gamma Ray Neutron	1957																																																																
Laterolog	1957																																																																
TANSILL	3,337' (file pick)																																																																
YATES	3,496'																																																																
7 RVRs	3,790'																																																																
QUEEN	NDE																																																																
		PBSD 3,690'																																																															
		TD 3,805'																																																															

☒ Well File

☒ OCD File

Current