

27 MINIMUM BLOWOUT PREVENTER REQUIREMENTS

3,000 psi Working Pressure

3 MWP

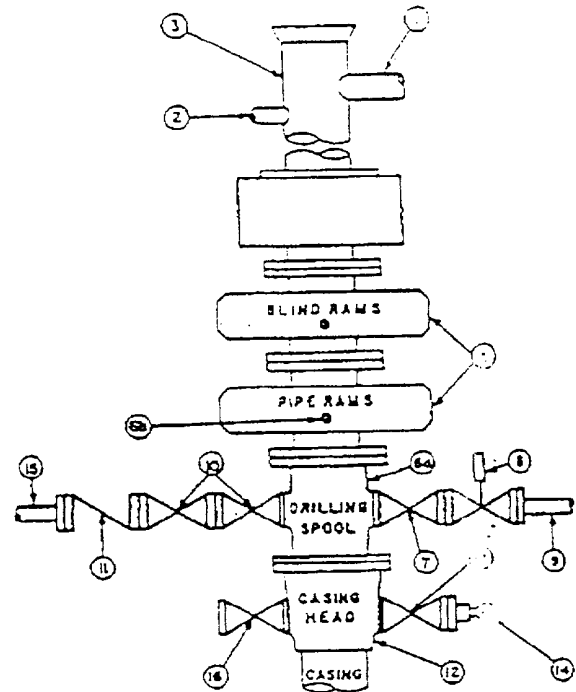
STACK REQUIREMENTS

No.	Item	Min. I.D.	Min. Nominal
1	Flowline		
2	Fill up line		2"
3	Drilling nipple		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above.)		
7	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/>	3-1/8"	
8	Gate valve—power operated	3-1/8"	
9	Line to choke manifold		3"
10	Valves Gate <input type="checkbox"/> Plug <input type="checkbox"/>	2-1/16"	
11	Check valve	2-1/16"	
12	Casing head		
13	Valve Gate <input type="checkbox"/> Plug <input type="checkbox"/>	1-13/16"	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"

OPTIONAL

16	Flanged valve	1-13/16"	
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CONFIGURATION A



CONTRACTOR'S OPTION TO FURNISH:

1. All equipment and connections above bradenhead of casinghead. Working pressure of preventers to be 3,000 psi minimum.
2. Automatic accumulator (80 gallon, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
3. BOP controls, to be located near drillers position.
4. Kelly equipped with Kelly cock.
5. Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
6. Kelly saver-sub equipped with rubber casing protector at all times.
7. Plug type blowout preventer tester.
8. Extra set pipe rams to fit drill pipe in use on location at all times.
9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

1. Bradenhead or casinghead and side valves.
2. Wear bushing, if required.

GENERAL NOTES:

1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through chokes. Valves must be full opening and suitable for high pressure mud service.
3. Controls to be of standard design and each marked, showing opening and closing position.
4. Chokes will be positioned so as not to hamper or delay changing of choke beans. Replaceable parts for adjustable choke, other bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.
5. All valves to be equipped with handwheels or handles ready for immediate use.
6. Choke lines must be suitably anchored.

7. Handwheels and extensions to be connected and ready for use.
8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
9. All seamless steel control piping (3000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
10. Casinghead connections shall not be used except in case of emergency.
11. Do not use kill line for routine fill-up operations.

Exhibit "E"

BOP Equipment

Shahara Oil, LLC

Grayburg Jackson PSU MA No. 3

2310' FSL & 2310' FEL, Unit J

Section 28, T17S, R30E

Eddy County, New Mexico

Lease No. NM-0467934

District I
PO Box 1960, Hobbs, NM 88241-1960
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-104
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator Name and Address AROC (Texas) Inc. 4200 E Skelly Drive, Suite 1000 Tulsa, OK 74135 918-491-1100		2 OGRID Number 187940
		3 Reason for Filing Code CH - Effective 05/01/00
4 API Number 30-015-21691	5 Pool Name Grayburg Jackson 7R-QN-GB-SA	6 Pool Code 28509
7 Property Code 43064 27155	8 Property Name Grayburg Jackson PSU MA	9 Well Number 3

II. 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
J	28	17S	30E		2310'	South	2310'	East	Eddy

11. Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet From the	North/South Line	Feet From the	East/West Line	County
J	28	17S	30E		2310'	South	2310'	East	Eddy
12 Lse Code F	13 Producing Method Code P	14 Gas Connection Date		15 C-129 Permit Number		16 C-129 Effective Date		17 C-129 Expiration Date	

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and Description
015694	Navajo Refining Company PO Box 159 Artesia, NM 88210	2085410	O	K - 27 - 17S - 30E Tank Battery
0119171	GPM Gas Corporation 4044 Penbrook Odessa, TX 79762	2821580	G	K - 27 - 17S - 30E Tank Battery

IV. Produced Water

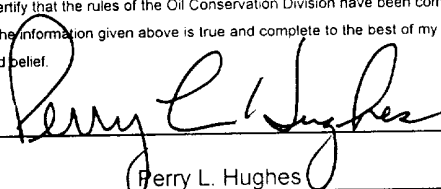
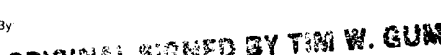
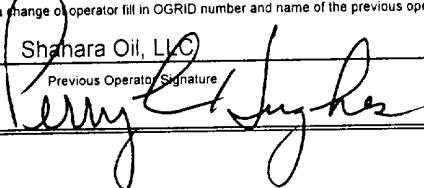
23 POD	24 POD ULSTR Location and Description
2085450	K - 27 - 17S - 30E Tank Battery

V. Well Completion Data

25 Spud Date	26 Ready Date	27 TD	28 PBTD	29 Perforations
30 Hole Size		31 Casing & Tubing Size		32 Depth Set
				33 Sacks Cement

VI. Well Test Data

34 Date New Oil	35 Gas Delivery Date	36 Test Date	37 Test Length	38 Tbg Pressure	39 Csg Pressure
40 Choke Size	41 Oil	42 Water	43 Gas	44 AOF	45 Test Method

46 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed Name: Perry L. Hughes Title: Project Manager Date: 01/09/01 Phone: 505-885-5433		OIL CONSERVATION DIVISION Approved By:  Title: DISTRICT II SUPERVISOR Approval Date: JAN 23 2001	
47. If this is a change of operator fill in OGRID number and name of the previous operator. Shahara Oil, LLC 143119 Previous Operator Signature:  Printed Name: Perry L. Hughes Title: Executive Officer Date: 01/09/01			