

DEC 21 1970

To Drilling Contract dated December 1st, 1970.

Owner Penroc Oil Corporation Contractor Rod Ric Corporation

Well Name and Number Abo State #1 STATE #2

SPECIFICATIONS AND SPECIAL PROVISIONS

1. CASING PROGRAM (See Par. 8)

	Size	Weight	Approx. Setting Depth	To Be Set By	Allowed Cement Time
Conductor	in.	lbs./ft.	ft.		hours
Surface	8 5/8" in.	lbs./ft.	600 each ft.	as required	hours
Protection	in.	lbs./ft.	ft.		hours
Oil String	5 1/2" in.	lbs./ft.	6200 ft.	as required	hours
Liner	in.	lbs./ft.	ft.		
Tubing	in.	lbs./ft.	ft.		

2. MUD CONTROL PROGRAM (See Par. 10.3)

Depth Interval (ft.)		Type Mud	Weight (lbs./gal.)	Viscosity (Secs)	Water Loss (cc)
From	To				
0'	T.D.	As required.			

It is understood that in the event it becomes necessary to discontinue drilling operations and to suddenly raise the mud weight - - - lb. per gallon above the weight currently being used OR to raise the mud weight at any time to - - - lbs. per gallon, it will conclusively constitute "Abnormal Pressure" as that term is employed in Paragraph 13.2 of the Contract. Operations will thereafter go forward under the terms of such provision (13.2) until such condition has been overcome; the well is under control and the mud system stabilized, so as to permit normal drilling operations to be resumed.

Other mud specifications: None.

3. STRAIGHT HOLE SPECIFICATIONS (See Par. 10.5)

Well Depth		Maximum Distance Between Surveys, Feet	Maximum Deviation from Vertical, Degrees	Maximum Change of Angle (or Over-All Angle) Between Any Two Surveys, Degrees ⁽¹⁾
From	To			
600'	T.D.	500'	3°	- - -

Location of well bore at - - - feet shall be - - -

- (1) a. Reduce proportionately for survey intervals less than 100 feet, but do not use intervals shorter than 30 feet.
b. If these limits are exceeded and the distance between surveys is more than 100 feet, Contractor shall take intermediate surveys no more than 100 feet apart. If such intermediate surveys show that above limits for any interval have been exceeded, Contractor shall correct hole deviation to within limits of above specifications.
c. When directional surveys are required, the change of angle shall be the change of over-all angle.

4. INSURANCE (See Par. 16)

- 4.1 Adequate Workmen's Compensation Insurance complying with State Laws applicable or Employers' Liability Insurance covering all of Contractor's employees working under this agreement.
- 4.2 Comprehensive Public Liability Insurance or Public Liability Insurance with limits not less than \$ 100,000 for the death or injury of any one person and \$ 300,000, for each accident.
- 4.3 Comprehensive Public Liability Property Damage Insurance or Public Liability Property Damage Insurance with limits of not less than \$ 100,000 for each accident and \$ 300,000 aggregate per policy.
- 4.4 Automobile Public Liability Insurance with limits of \$ 100,000 for the death or injury of each person and \$ 300,000 for each accident; and Automobile Public Liability Property Damage Insurance with limits of \$ 50,000 for each accident.
- 4.5
- 4.6