# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

I IN TRIPLICATE

FORM APPROVED
OMB No. 1004-0136

		Expires: November 30, 2000		
To the state of th		5. Lease Serial No.		
APPLICATION FOR PERMIT TO DI	RILL OR BEEPEN 5	PM 1: Is3r Indian, Alottee or Tribe Name		
/ V DRIII — -	EENTER			
/ / -		7. If Unit or CA, Agreement, Name and No.		
/ b. Type of Well OIL WELL GAS WELL Other	01110	NA		
2. Name of Operator	SINGLE ZONE MULTIP	8. Well Name and Well No. BLANCO		
Four Star Oil and Gas Co.	:2,001	1.7659		
o Address	131994	1B		
3300 N. Butler Ave, Ste Farmington NM 87401	one No. (include area code) 325-4397	O ADULU		
Location of Well (Report location clearly and in accordance with any State in     At Surface	323-4397	9. API Well No. 30-045-30603		
	equirements.*)			
Unit Letter H : 1940 Feet From The NORTH Line and 660	<b>.</b>	10. Field and Pool or Exploratory		
At proposed prod. zone	Feet From The EAST	Line BLANCO MESA VERDE		
MESA VERDE		11. SEC., T., R., M., or BLK. and Survey or Area		
4. Distance In Miles and Direction from Nearest Town or Post Office*		7.4		
6 MILES SOUTH FACT SOCIAL		12 County or Parish		
6 MILES SOUTH EAST FROM BLANCO.N		SAN JUAN		
Location to Nearest Property 16. No. of Act or Lease Line, Ft. (also to	cres in Lease			
nearest drig, unit line, if any) 660'		17. Spacing Unit dedicated to this well		
18. Distance (From Proposed	319.70	319.70 5		
Location* to Nearest Well Drilling 19, Proposed D	Pepth	LA		
Completed or Applied For, On This	į I	20. BLM/BIA Bond No.		
21. Elevations (Show whether DF,RT, GR, etc.) 22 Approx. Date		K02907914-F4072		
Approx. Date	e Work Will Start*	23. Estimated duration		
2923. CK	9/15/01	and the second s		
		6 DAYS		
The following completed :-	Attachments			
The following, completed in accordance with the requirements of Onshot.  1. Well plat certified by a registered sureyor.	ore Oil and Gas Ordon	1, shall be attached to this form		
Well plat certified by a registered sureyor.	4. Panel	1, shall be attached to this form		
2. A Drilling Plan.	Item 20 above).	ions unless covered by an existing bond on file (see		
	Operator Certification	The same of the sa		
<ol> <li>A Surface Use Plan (if location is on National Forest Systems Lands, the SUPO shall be filed with the appropate Forest Service Office).</li> </ol>	6 Such other site of	Charles Const.		
	authorized officer.	formation and/or plans as may be required by the		
25. Signature		- Laione an		
(lather ) Constitution NAME	(Printed, Typed)	DATE		
TITLE Arthur [	D. Archibeque	3/12/01		
Eng. Assistant		0/1201		
pproved by (Signature)	<del></del>			
NAM	IE (Printed, Typed)			
TITLE /s/ Joe! Farrell	-	Date		
Office				
		.1111 1 1		
Indication occurred to		UUL II		
oplication approval does not warrant or certify that the applicant holds legal or equita	the title to the			
oplication approval does not warrant or certify that the applicant holds legal or equita perations thereon.	able title to those rights in the sut	bject lease which would entitle the applicant to conduct		
pplication approval does not warrant or certify that the applicant holds legal or equita perations thereon.  Indicions of approval, if any are attached.				
pplication approval does not warrant or certify that the applicant holds legal or equita perations thereon.  Inditions of approval, if any are attached.  It is 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to an presentations as to any matter within its jurisdiction.				

This action is surject to technical and procedural review pursuant to 33 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

CREATED OFFICE, AS ASSESSMENT ATTACHED "GENERAL DEQUIREMENTS".



District I PC Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Appropriate District Office

District II PO Drawer DD. Antesia, NM 88211-0719

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

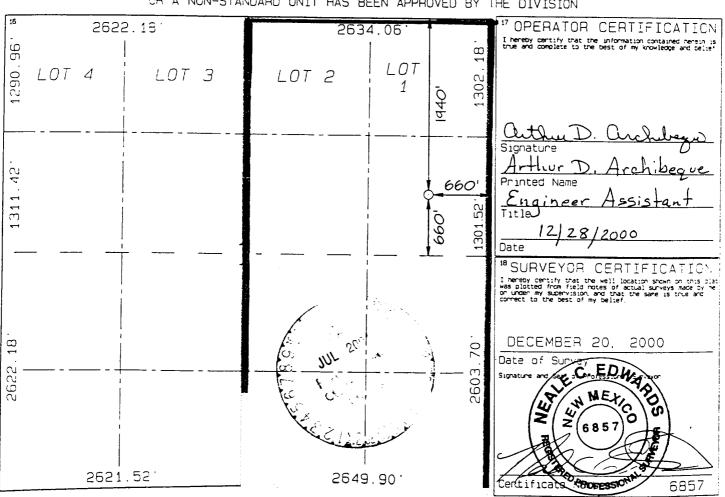
District III 1000 Rio Brazos Rd., Aztec. NM 87410 District IV PO Box 2088, Santa Fe. NM 87504-2088

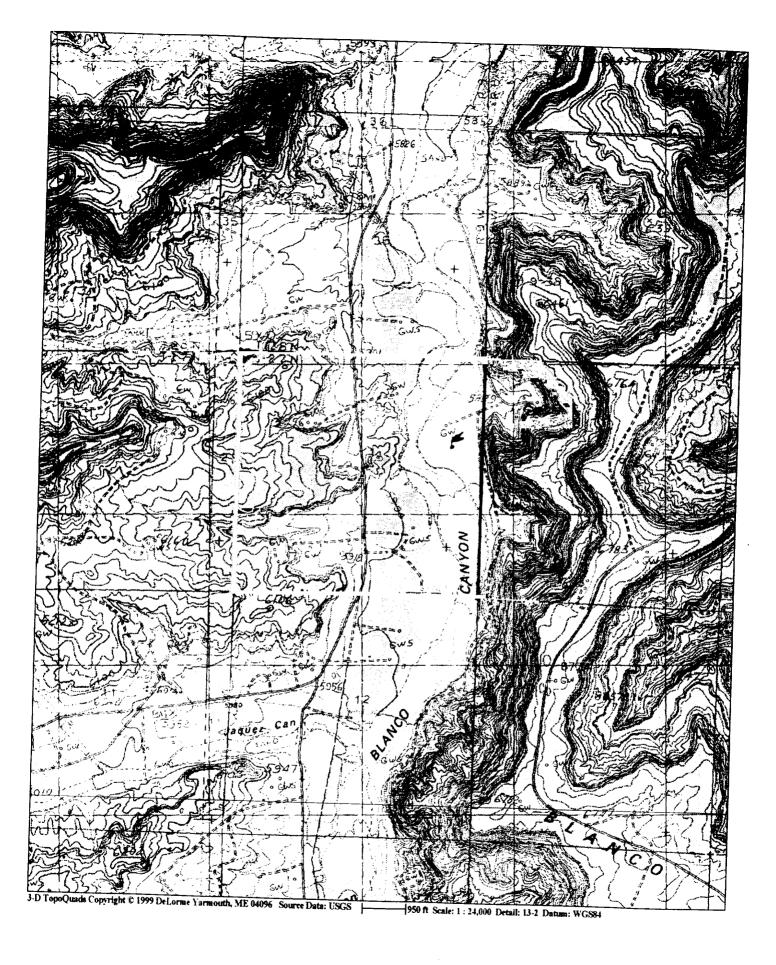
2001 MAR 15 PM 1: 43 AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

	PI NUMBE				e	'Pool Name				
36-045 Property	5-30	0603 72319				BLANCO MESAVERDE				
Property	Code	Property Name							*Well Number	
17659	7	BLANCO							1B	
'CGRID N	0.		*Cperator Name						'Elevation	
1319	94		FOUR STAR OIL & GAS COMPANY						5869 '	
<sup>10</sup> Surface Location										
Ut or lat no	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line County		
H	1	27N	9W		1940	NORTH	560	EAST	SAN JUAN	
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace	<del></del>	
UL on lat no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Cedicated Acres	7 66	Ducine on Inf	ill <sup>14</sup> Cons	olidation Code	<sup>15</sup> Order No.	<del></del>				
<u> </u>	1-/2	<u> </u>								

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





# DRILLING PROGRAM

OPERATOR:

FOUR STAR OIL & GAS Co.

LEASE NAME:

**BLANCO 1-B** 

LOCATION:

1940' FNL- 660' FEL SEC. 1 27N-9W SAN JUAN COUNTY, NEW MEXICO

## 1. ESTIMATED TOPS OF GEOLOGIC MARKERS.

THE ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS ARE AS FOLLOWS:

 FORMATION
 DEPTH 3684'
 SUBSEA 2197'

 T.D.
 4600'
 1390"

# 2. ESTIMATED DEPTHS OF ANTICIPATED OIL, GAS, WATER, OR OTHER MINERAL BEARING ZONES.

 FORMATION
 DEPTH 4400'
 SUBSTANCE GAS

 T.D. 4600'
 --

IF ANY UNEXPECTED WATER OR MINERAL BEARING ZONES ARE ENCOUNTERED DURING DRILLING, THEY WILL BE REPORTED, EVALUATED, AND PROTECTED AS CIRCUMSTANCES AND REGULATIONS REQUIRE.

#### BOP EQUIPMENT.

TEXACO'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT ARE AS FOLLOWS:

RAM TYPE: HYDRAULIC DOUBLE, 3000 PSI W.P.

RAM TYPE PREVENTERS AND ASSOCIATED EQUIPMENT SHALL BE TESTED TO APPROVED STACK WORKING PRESSURE IF ISOLATED BY TEST PLUG OR TO 70 PERCENT OF INTERNAL YIELD PRESSURE OF CASING. PRESSURE SHALL BE MAINTAINED FOR AT LEAST 10 MINUTES OR UNTIL REQUIREMENTS OF TEST ARE MET, WHICHEVER IS LONGER. IF A TEST PLUG IS UTILIZED, NO BLEED-OFF PRESSURE IS ACCEPTABLE. FOR A TEST NOT UTILIZING A TEST PLUG, IF A DECLINE IN PRESSURE OF MORE THAN 10 PERCENT IN 30 MINUTES OCCURS, THE TEST SHALL BE CONSIDERED TO HAVE FAILED. VALVE ON CASING HEAD BELOW TEST PLUG SHALL BE OPEN DURING TEST OF BOP STACK.

ANNULAR TYPE PREVENTERS (IF USED) SHALL BE TESTED TO 50 PERCENT OF RATED WORKING PRESSURE. PRESSURE SHALL BE MAINTAINED AT LEAST 10 MINUTES OR UNTIL PROVISIONS OF TEST ARE MET, WHICHEVER IS LONGER.

AS A MINIMUM, THE ABOVE TEST SHALL BE PERFORMED:

- A. WHEN INITIALLY INSTALLED;
- B. WHENEVER ANY SEAL SUBJECT TO TEST PRESSURE IS BROKEN
- C. FOLLOWING RELATED REPAIRS; AND
- D. AT 30 DAY INTERVALS

VALVES SHALL BE TESTED FROM WORKING PRESSURE SIDE DURING BOPE TESTS WITH ALL DOWNSTREAM VALVES OPEN.

WHEN TESTING THE KILL LINE VALVE(S), THE CHECK VALVE SHALL BE HELD OPEN OR THE BALL REMOVED.

ANNULAR PREVENTERS (IF USED) SHALL BE FUNCTIONALLY OPERATED AT LEAST WEEKLY.

PIPE AND BLIND RAMS SHALL BE ACTIVATED EACH TRIP, HOWEVER, THIS FUNCTION NEED NOT BE PERFORMED MORE THAN ONCE A DAY.

A BOP PIT LEVEL DRILL SHALL BE CONDUCTED WEEKLY FOR EACH DRILLING CREW.

PRESSURE TESTS SHALL APPLY TO ALL RELATED WELL CONTROL EQUIPMENT.

ALL OF THE ABOVE DESCRIBED TESTS AND/OR DRILLS SHALL BE RECORDED IN THE DRILLING LOG. TEST CHARTS, WITH INDIVIDUAL TEST RESULTS IDENTIFIED, SHALL BE MAINTAINED ON LOCATION WHILE DRILLING AND SHALL BE MADE AVAILABLE TO A BLM REPRESENTATIVE UPON REQUEST. PRESSURE TESTS SHALL APPLY TO ALL RELATED WELL CONTROL EQUIPMENT.

BOP SYSTEMS SHALL BE CONSISTENT WITH API RP53. PRESSURE TESTS WILL BE CONDUCTED BEFORE DRILLING OUT FROM UNDER CASING STRINGS WHICH HAVE BEEN SET AND CEMENTED IN PLACE. BLOWOUT PREVENTER CONTROLS WILL BE INSTALLED PRIOR TO DRILLING THE SURFACE CASING PLUG AND WILL REMAIN IN USE UNTIL THE WELL IS COMPLETED OR ABANDONED. PREVENTERS WILL BE INSPECTED AND OPERATED AT LEAST DAILY TO ENSURE GOOD MECHANICAL WORKING ORDER, AND THIS INSPECTION WILL BE RECORDED ON THE DAILY DRILLING REPORT. PREVENTERS WILL BE PRESSURE TESTED BEFORE DRILLING CASING CEMENT PLUGS.

THE REGULATORY OFFICE SHALL BE NOTIFIED, AT LEAST 24 HOURS PRIOR TO INITIATING THE PRESSURE TEST, IN ORDER TO HAVE A STATE REPRESENTATIVE ON LOCATION DURING PRESSURE TESTING.

- A. THE SIZE AND RATING OF THE BOP STACK IS SHOWN ON THE ATTACHED DIAGRAM.
- B. A CHOKE LINE AND A KILL LINE ARE TO BE PROPERLY INSTALLED. THE KILL LINE IS <u>NOT</u> TO BE USED AS A FILL UP LINE.
- C. THE ACCUMULATOR SYSTEM SHALL HAVE A PRESSURE CAPACITY TO PROVIDE FOR REPEATED OPERATION OF HYDRAULIC PREVENTORS.
- D. DRILL STRING SAFETY VALVE(S), TO FIT ALL TOOLS IN THE DRILL STRING, ARE TO BE MAINTAINED ON THE RIG FLOOR WHILE DRILLING OPERATIONS ARE IN PROGRESS.

# 4. CASING AND CEMENTING PROGRAMS.

- A. THE BLM OFFICE SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE RUNNING AND CEMENTING OF ALL CASING STRINGS, IN ORDER TO HAVE BLM REPRESENTATIVE ON LOCATION WHILE RUNNING AND CEMENTING ALL CASING STRINGS.
- B. THE PROPOSED CASING AND CEMENTING PROGRAM SHALL BE CONDUCTED AS APPROVED TO PROTECT AND/OR ISOLATE ALL USABLE WATER ZONES, POTENTIALLY PRODUCTIVE ZONES, LOST CIRCULATION ZONES, ABNORMALLY PRESSURED ZONES, AND ANY PROSPECTIVELY VALUABLE DEPOSITS OF MINERALS. ANY ISOLATING MEDIUM OTHER THAN CEMENT SHALL RECEIVE APPROVAL PRIOR TO USE. THE CASING SETTING DEPTH SHALL BE CALCULATED TO POSITION THE CASING SEAT OPPOSITE A COMPETENT FORMATION WHICH WILL CONTAIN THE MAXIMUM PRESSURE TO WHICH IT WILL BE EXPOSED DURING NORMAL DRILLING OPERATIONS. DETERMINATIONS OF CASING SETTINGS DEPTH SHALL BE BASED ON ALL RELEVANT FACTORS, INCLUDING; PRESENCE/ABSENCE OF HYDROCARBONS; FRACTURE GRADIENTS; USABLE WATER ZONES; FORMATION PRESSURES; LOST CIRCULATION ZONES; OTHER MINERALS; OR OTHER UNUSUAL CHARACTERISTICS. ALL INDICATIONS OF USABLE WATER SHALL BE REPORTED.
- C. ALL WAITING ON CEMENT TIMES SHALL BE ADEQUATE TO ACHIEVE A MINIMUM OF 500 PSI COMPRESSIVE STRENGTH AT THE CASING SHOE PRIOR TO DRILLING OUT
- D. ALL CASING EXCEPT THE CONDUCTOR CASING, SHALL BE NEW OR RECONDITIONED AND TESTED, USING CASING THAT MEETS OR EXCEEDS API STANDARDS FOR NEW CASING.

- E. THE SURFACE CASING SHALL BE CEMENTED BACK TO SURFACE EITHER DURING THE PRIMARY CEMENTING JOB OR BY REMEDIAL CEMENTING.
- F. ALL INDICATIONS OF USABLE WATER SHALL BE REPORTED TO THE AUTHORIZED OFFICER PRIOR TO RUNNING THE NEXT STRING OF CASING OR BEFORE PLUGGING ORDERS ARE REQUESTED. WHICHEVER OCCURS FIRST.
- THE SURFACE CASING SHALL HAVE CENTRALIZERS ON THE BOTTOM THREE JOINTS OF CASING G. (A MINIMUM OF ONE CENTRALIZER PER JOINT, STARTING WITH THE SHOE JOINT), THEN EVERY FOURTH JOINT OF CASING UP TO THE BOTTOM OF THE CELLAR.
- TOP PLUGS SHALL BE USED TO REDUCE CONTAMINATION OF CEMENT BY DISPLACEMENT FLUID. H. A BOTTOM PLUG OR OTHER ACCEPTABLE TECHNIQUE, SUCH AS A SUITABLE PREFLUSH FLUID. INNER STRING CEMENT METHOD. ETC. SHALL BE UTILIZED TO HELP ISOLATE THE CEMENT FROM CONTAMINATION BY THE MUD FLUID BEING DISPLACED AHEAD OF THE CEMENT SLURRY.
- ALL CASING STRINGS BELOW THE CONDUCTOR SHALL BE PRESSURE TESTED TO 0.22 PSI PER ١. FOOT OF CASING STRING LENGTH OR 1500 PSI, WHICHEVER IS GREATER, BUT NOT TO EXCEED 70 PERCENT OF THE MINIMUM INTERNAL YIELD. IF PRESSURE DECLINES MORE THAN 10 PERCENT IN 30 MINUTES, CORRECTIVE ACTION SHALL BE TAKEN.
- THE PROPOSED CASING PROGRAM WILL BE AS FOLLOWS: J.

PURPOSE	<u>DEPTH</u>	HOLE SIZE	<u>O.D.</u>	WEIGHT	GRADE	TYPE	NEW OR USED
SURFACE	0-350'	12-1/4"	8-5/8"	24#	K-55	LT&C	NEW
PRODUCTION	0-4600'	7-7/8"	4-1/2"	11.6#	J-55	LT&C	NEW

- CASING DESIGN SUBJECT TO REVISION BASED ON GEOLOGIC CONDITIONS ENCOUNTERED. K.
- THE CEMENT PROGRAM WILL BE AS FOLLOWS: L.

**SURFACE** TYPE AND AMOUNT 0-350'

CEMENT TO SURFACE WITH 260 SX CLASS G CEMENT 15.8 PPG.1.16 CU. FT /SK

**PRODUCTION** TYPE AND AMOUNT

CEMENT TO SURFACE WITH 550 SX CEMCRETE 0-4600'

(9.55 PPG, 2.5CU, FT/SK)

- THE BLM RESOURCE AREA OFFICE SHOULD BE NOTIFIED. WITH SUFFICIENT LEAD TIME. M. IN ORDER TO HAVE A BLM REPRESENTATIVE ON LOCATION WHILE RUNNING AND CEMENTING ALL CASING STRINGS.
- AFTER CEMENTING, BUT BEFORE COMMENCING ANY TEST, THE CASING STRING SHALL STAND N. CEMENTED UNTIL THE CEMENT HAS REACHED A COMPRESSIVE STRENGTH OF AT LEAST 500 PSI AT THE SHOE. WOC TIME SHALL BE RECORDED IN THE DRILLER'S LOG.
- 0 THE FOLLOWING REPORTS SHALL BE FILED WITH THE DISTRICT MANAGER WITHIN 30 DAYS. AFTER THE WORK IS COMPLETED.
  - 1, PROGRESS REPORTS, FORM 3160-5 "SUNDRY NOTICES AND REPORTS ON WELLS", MUST:

INCLUDE COMPLETE INFORMATION CONCERNING

A. SETTING OF EACH STRING OF CASING, SHOWING THE SIZE, GRADE, WEIGHT OF
CASING SET, HOLE SIZE, SETIING DEPTH, AMOUNTS AND TYPES OF CEMENT
USED, WHETHER CEMENT CIRCULATED OR THE TOP OF THE CEMENT BEHIND
THE CASING, DEPTH OF CEMENTING TOOLS USED, CASING TEST METHOD AND
RESULTS, AND THE DATE WORK WAS DONE. SHOW THE SPUD DATE ON THE
FIRST REPORT SUBMITTED.

B. TEMPERATURE OR BOND LOGS MUST BE SUBMITTED FOR EACH WELL WHERE THE CASING CEMENT WAS NOT CIRCULATED TO THE SURFACE.

## 5. MUD PROGRAM

A. THE PROPOSED CIRCULATING MEDIUMS TO BE EMPLOYED IN DRILLING ARE AS FOLLOWS:

INTERVAL	MUD TYPES MUE	WEIGHT	<u>VISC.</u>	F/L	<u>PH</u>
0-350'	FRESH WATER	8.5-8.9			
350'-TD	LSND	9.2			

B. HAZARDOUS SUBSTANCES SPECIFICALLY LISTED BY THE E.P.A. AS A HAZARDOUS WASTE OR DEMONSTRATING A CHARACTERISTIC OF A HAZARDOUS WASTE WILL NOT BE USED IN DRILLING, TESTING OR COMPLETION OPERATIONS. DUE TO POTENTIAL CONTAMINATION OF USABLE QUALITY WATER AQUAFERS, CHROMATES ARE BANNED FROM FEDERAL LEASES.

# 6. EVALUATION PROGRAM.

THE ANTICIPATED TYPE AND AMOUNT OF TESTING, LOGGING AND CORING ARE AS FOLLOWS:

- A. THE LOGGING PROGRAM WILL CONSIST OF A GR & NEUTRON TO SURFACE AND A CNL-LDT-AIT MIN & MNO FROM TD TO CASING.
- B. WELL WILL NOT BE CORED.
- D. WHETHER THE WELL IS COMPLETED AS A DRY HOLE OR AS A PRODUCER, "WELL COMPLETIO AND RECOMPLETION REPORT AND LOG" (FORM 3160-4) WILL BE SUBMITTED NOT LATER THAN 30
- E. DAYS AFTER COMPLETION OF THE WELL OR AFTER COMPLETION OF OPERATIONS PERFORMED, IN ACCORDANCE WITH 43 CFR 3164. TWO COPIES OF ALL LOGS, CORE DESCRIPTIONS, CORE ANALYSES, WELL-TEST DATA, GEOLOGIC SUMMARIES, SAMPLE DESCRIPTION, AND ALL OTHER SURVEYS OR DATA OBTAINED AND COMPILED DURING THE DRILLING, WORKOVER, AND/OR COMPLETION OPERATIONS, WILL BE FILED WITH FORM C-105. SAMPLES (CUTTINGS, FLUIDS, AND/OR GASES) WILL BE SUBMITTED WHEN REQUESTED BY THE AUTHORIZED OFFICER (AO).
- E. THE ANTICIPATED COMPLETION PROGRAM IS AS FOLLOWS:

SET 4-1/2" CASING, FRACTURE STIMULATE AND PRODUCE THROUGH 2-3/8" TUBING.

#### ABNORMAL PRESSURES AND H2S GAS.

- A. NO ABNORMAL CONDITIONS ARE ANTICIPATED.
- B. NO HYDROGEN SULFIDE GAS IS ANTICIPATED.