SUBMIT IN TRIPLICATE*

UNITED STATES
DEPARTMENT OF THE INTERIOR

(Other instructions on reverse side)

Form Budget	approved Bureau	No.	42-R142

(May 1903)	UNI [*] DEPARTMEN	TED STATE		Other instru reverse s		30.039		
.*		GICAL SURV		TION		5. LEASE DESIGNATI		
A DDL IC A TIO				EN OR RIVE	A CV	Contract 6. IF INDIAN, ALLOT		
	N FOR PERMIT	IO DRILL,	DEEP	EN, OR PLUG E	ACK_	- Jicarilla Apache		
a. TYPE OF WORK DR	ILL 🛛	DEEPEN		PLUG BA	CK 🗌	7. UNIT AGREEMENT	NAME	
OIL V C	A8 [RI	INGLE [MULTIP	LE 🗀			
	ELL OTHER			ONE ZONE		8. FARM OR LEASE NAME		
	leum Corporatio	on				Apache 9. WELL NO.		
ADDRESS OF OPERATOR						121		
	Center Bldg.,				80264	10. FIELD AND POOL	GấT TUPCAT	
At surface	eport location clearly and		th any 8	State requirements.*)		Dakota We	st ext	
	' FNL, 980' FEL			•		11. BEC., T., R., M., G AND SUEVEY OR	AREA	
At proposed prod. 201	ie .					Sec. 13-Ta	24N-K4W .M.P.M.	
DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	E *		12. COUNTY OR PARI		
						Rio Arriba	New Mexic	
DISTANCE FROM PROPO LOCATION TO NEAREST	r	480'	16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	100	
PROPERTY OR LEASE 1 (Also to nearest drig	g. unit line, if any)	480				IDU acres		
DISTANCE FROM PROP TO NEAREST WELL, D	RILLING, COMPLETED,			OPOSED DEPTH	1			
OR APPLIED FOR, ON THE	ether DF, RT, GR, etc.)		<u> </u>	7700'	l Ko	tary 22. APPROX. DATE WORK WILL STAI		
6853' GF						1-1-79		
	····	PROPOSED CASI	NG AND	CEMENTING PROGRA	······································	1		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	T00T	SETTING DEPTH	1	QUANTITY OF CEM	IENT	
12-1/4"	8-5/8"	24.0		300'	300 s	acks		
7-7/8"	4-1/2"	10.50 & 1	1.60	7700'	To be	determined		
It is propose	ed to drill thi	s well with	h rot	ary tools, and	drilli	ng mud as a c	circulation	
medium, thro	ugh the Dakota	Formation.	Pos	sible productio	on zone	s in the Gal	lup and	
Dakota Forma	tion will be co	mpleted an	d dow	nhole commingle	ed. Pr	oduction cas		
cemented in	such a manner a es before spudo	is to protection	Ct th	e rictured Cili	TS FOR	macion. rem	s e rese rve	
pre on 5 stu	es perore spuido	ing. Tenc	C 7 (II	Side Wileli Holk	•			
Estimated Fo	rmation Tops							
Pictured	Cliffs	2850'		Greenhorn		7000'		
Cliff Hou	se	4490'		Graneros		7055' s		
Gallup		6160'		Dakota	7075			
	Section 13 is d m this well is		o thi	s well. 160 ac	cres.	The natural (gas to be	
ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If i	proposal is to deep						
The state of the s	- 12	/						
SIGNED D. E.	Wank S	TIT	Di	vision Producti	on Man	ager _{DATE} 9-5-	78	
(This space for Feder	ral or State office use)	O				· The state of the	omea.	
PERMIT NO.				APPROVAL DATE			1	
						_ [IJ	
APPROVED BY	AT TPANY	TIT	'LE		SEI	8°1578	-	
CONDITIONS OF APPROVA								

U. C. GEOLOGICAL SURVEY LUCYLOO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

COTTON PETROLEUM CORPORATION A 13 From the production of Well: #80 Test from the North 100		14'all 14	·	bection.	deries of the			ences musi	All die		 	
Description	_	ľ				Lee		· ₹₩₩₩₩	RIM CODI	1 Danad 1	•	
Action Footage Locution at Well: 180												
Autor Decoupe Location of walls 180 Inea theorem Level Elev. Producting Formation Bake ta 160 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been dated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, uniforced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the sion. CERTIFICATION I hereby certify that the inform the well shown on this play was plotted and the play and play the play play the play play the play play the play pla			Arriba	•								
Description											age Location	
Dakota Lindrith Gallup-Dakota Western 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been dated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, uniforced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the sion. CERTIFICATION I beetly certify that the informationed have in its true and complements of our position of the posit			East	om the	feet fro	80	om d	line	North	t from the		
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Yes No If answer is "yes," type of consolidation		thereof (both as to w	ownership th	fy the a	and identi	line each	well, oi	d to the	is dedicate	one lease yalty). ie lease o	ore than orest and ro	2. If more interest 3. If more
this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, uniforced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the sion. CERTIFICATION I hereby certify that the inform to indeed herein is true and complete to my knowledge god before to my supervision, and that is true and correct to the be knowledge and belief. Dato Surveyed August 1 August 1 Horstond J. Market 1 Registered J. Market 1 Registered J. Market 2 August 1 Augu			. ·		·			_				
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I hereby certify that the inform to to the best of my knowledge and before the company to the co	IN	CERTIFICATION		1	777	77.	,,	1		1		
Position Division Production N Company Cotton Petroleum Corp Date September 5, 1978 I hereby certify that the wel shown on this plat was platted notes of actual surveys made under my supervision, and that is true and correct to the be knowledge and belief. Dato Surveyed August 1 Registered Production N Company Cotton Petroleum Corp Date September 5, 1978	omplete to the	erein is true and complete my knowledge and benefi.	best of my	1111	9801	1			ر از	 	· .	
Cotton Petroleum Corp Date September 5, 1978 I hereby certify that the wel shown on this plat was plotted notes of actual surveys made under my supervision, and that is true and correct to the be knowledge and belief. Date Surveyed August 1. 1978 1446 Hegistered Pythodomat 1. 1978	n Manager		Position Division		•	. .		11		1	•	
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August 1 1978 144 Registered Participal Francisco	tied from field ade by me or that the same	n this plot was plotted fro actual surveys made by supervision, and that th and correct to the best	shown on notes of c under my is true o					13		1 1 1 1 1 1 1 1 .	<u> </u>	
Fred B. Kerz Jr. 2 3950 Fred B. 2 3950		TOTAL STATE OF THE PARTY OF THE	August Registered I and or Lan Fred B. Certificate	T. F. T	T					 		

COTTON PETROLEUM CORPORATION APACHE NO. 121

Multi-Point Surface Use Plan

- 1. Existing Road Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
- 2. Planned Access Roads Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
- 3. Location of Existing Wells Please refer to Attachment No. 2.
- 4. Location of Tank Batteries Production facilities will be installed on location.
- 5. Location and Type of Water Supply Water for the proposed project will be obtained from a water hole located at Largo Wash, SW/4, Sec. 9, T24N, R4W.
- 6. Source of Construction Materials No additional materials will be required to build either the access road or the proposed location.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be put into a burn pit shown on Attachment No. 3. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3). If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located

on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. Ancillary Facilities No camps or airstrips will be associated with this project.
- 9. Wellsite Layout Please refer to Attachment No. 3.
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be left in such a condition that will enable reseeding operation to be carried out. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted.
- 11. Other Information The terrain is high sandstone ledges and sagebrush flats with pinon and cedar growing. Cattle graze the proposed project site.
- 12. Operator's Representatives Howard Davis

Farmington, New Mexico

Phone: (505) 325-2409 (Office)

(505) 327-6443 (Home)

Steve Zamets

Denver, Colorado

Phone: (303) 861-9202 (Office)

(303) 451-7115 (Home)

D. E. Wood

Denver, Colorado

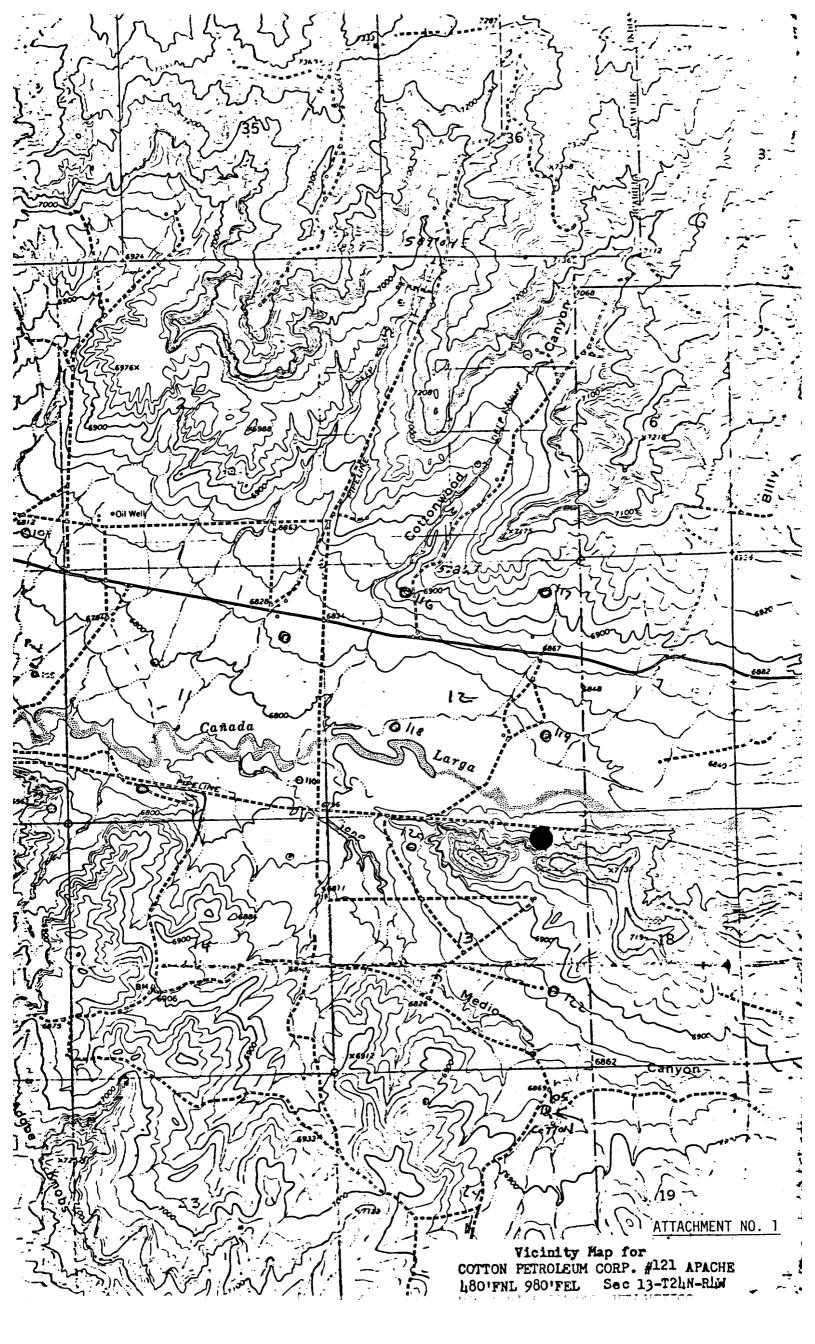
Phone: (303) 861-9202 (Office)

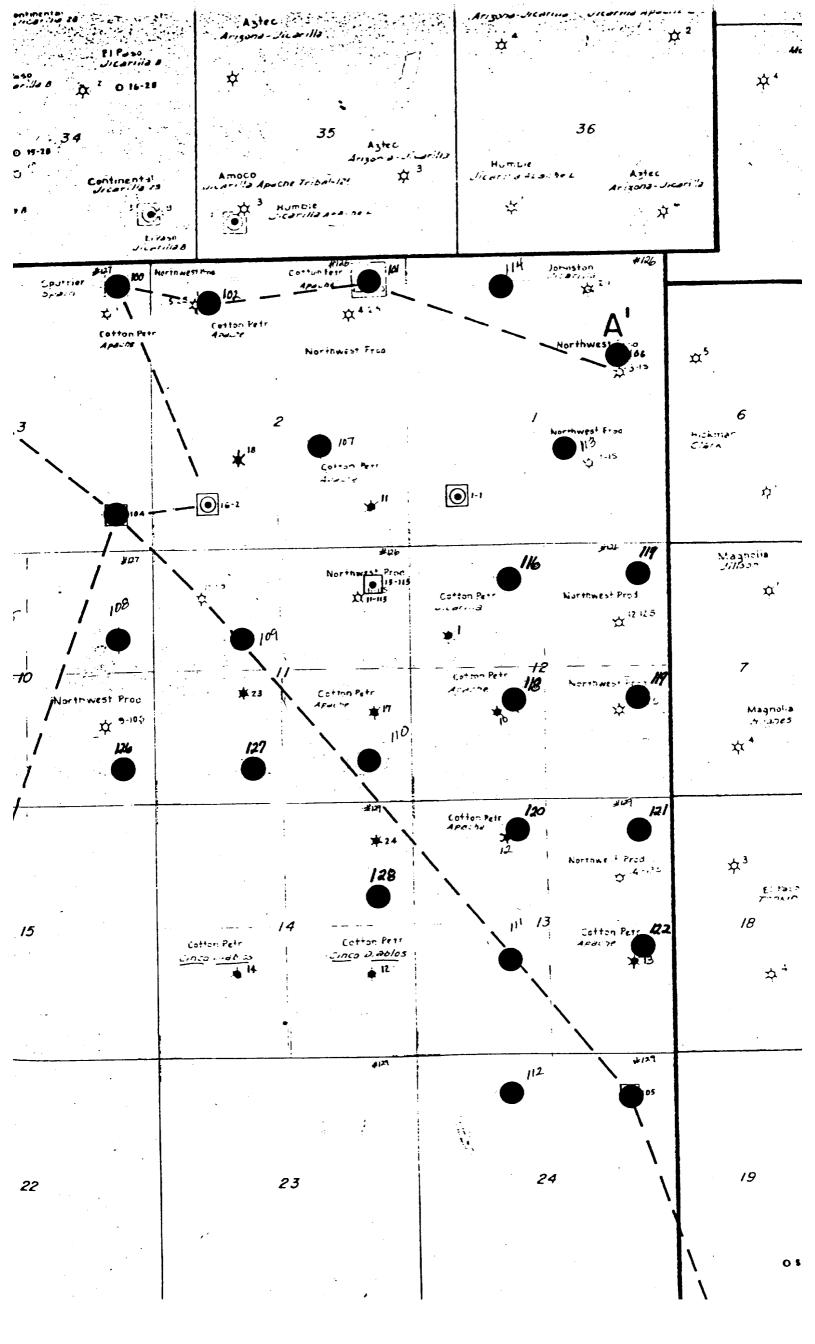
(303) 770-2177 (Home)

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Cotton Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

D. E. Wood, Division Production Manager





COLEMAN DRILLING CO. P. O. BOX 1915 FARMINGTON, N. M. 87401

PHONE BOD / 325-6892

DRILLING RIG INVENTORY

RIG # 2

RATED DEPTH CAPACITY 8,000 FEET WITH 4 1/2" DRILL PIPE

DERRICK: 127' LEE C. MOORE W/440,000 HOOK LOAD CAPACITY

SUBSTRUCTURE: LEE C. MOORE - 13' K.B.

DRAWWORKS: H-40 D IDECO

ENGINES: 2 EACH V-8 DETROIT DIESEL

MUD PUMPS: IDECO MM600 W/CATERPILLER D-379TA
555 MAX. HP AT 1100 RPM
500 INT. HP AT 1100 RPM
420 CONT. HP AT 1100 RPM

AUXILIARY MUD PUMP GARDNER-DENVER F X Z W/343TAC CATERPILLER

DESILTER: PIONEER 8 CONE CAPACI

CAPACITY 400 GPM

MUD TANK: 1 EACH 500 BBL. (42 GAL PER BBL.) WORKING CAPACITY

WATER STORAGE: 1 EACH 480 BBL. (42 GAL PER BBL.)

GENERATORS: 1 EACH 90 KW AC AND 1 EACH 30 KW AC

ROTARY TABLE: 23" IDECO

TRAVELING BLOCK: NATIONAL 430 - 150 TONS W/COMB. HOOK

SWIVEL: OILWELL PC 225

BLOW OUT PREVENTER: 10" SHAFFER LWS 3000 WP HYDRAULIC

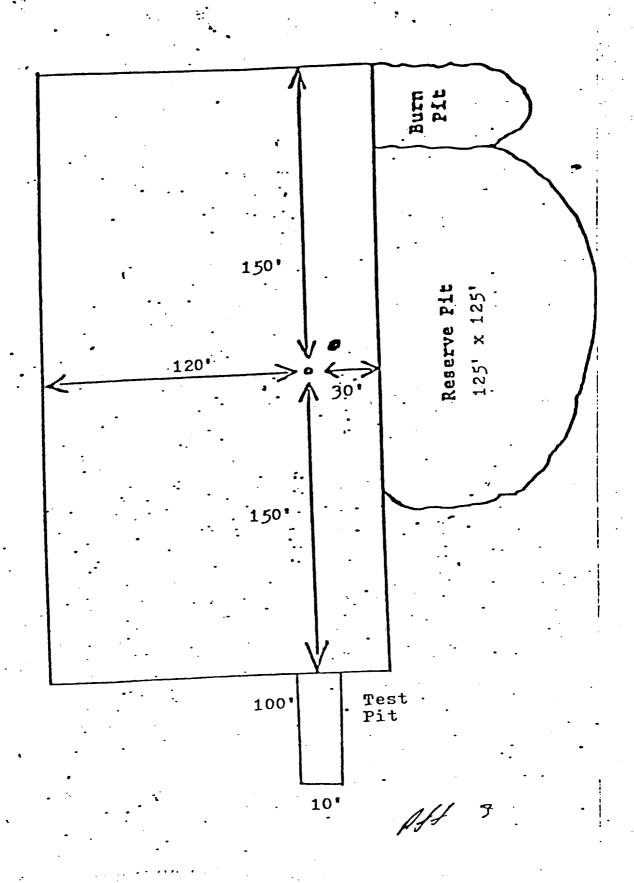
SPECIAL: CROWN-O-MATIC

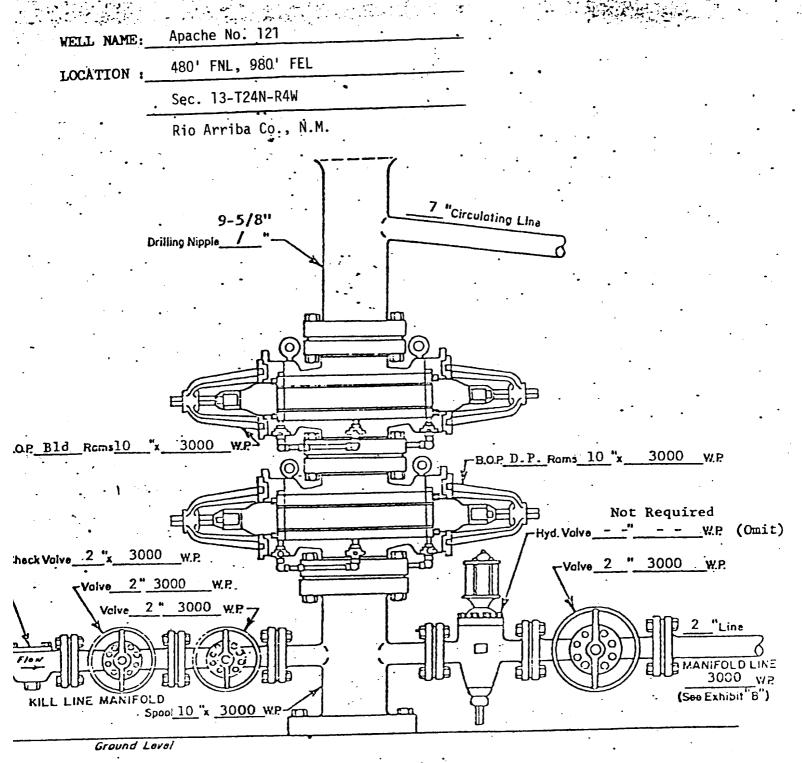
SATELITE AUTOMATIC DRILLER .

TONG TORQUE GAUGE

RATE OF PENETRATION RECORDER

SHALE SHAKER TRAILER HOUSE TWO-WAY RADIO





WELL HEAD B.O.P. 3000 #W.P.

COTTON PETROLEUM CORPORATION
APACHE NO. 121
480' FNL, 980' FEL
Sec. 13-T24N-R4W
Rio Arriba Co., N.M.

Seven Point Well Control Program

- 1. Surface Casing.
 See Application for Permit to Drill.
- 2. Spools and Flanges.
 - A. Surface Casing 10", Series 900, 3000 psi W.P.
 - B. Production, 10", Series 900, 3000 psi W.P.
 - C. Tubing Head Series 900, 3000 psi. W.P.
- Intermediate Casing.None
- Blowout Preventers
 Production Hole 10", 3000 psi
 Fill, kill and choke manifold 5000 psi. W.P.
- Additional Equipment (If necessary)
 - A. Kelly Cock

D. Pit Level Indicator

B. Bit Float

E. Sub with Valve for

C. Degasser

- drill pipe.
- 6. Anticipated Bottom Hole Pressure.
 3100 psi. Current mud program is for 9.2 lb./gal mud with hydrostatic head of 3600 psi at 7390 feet. Mud weight will be increased if necessary for higher pressures.
- Drilling Fluid.
 Oil Base Mud.