UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

Mi	AC	70)1	-04	-00	1	4
----	----	----	----	-----	-----	---	---

BUREAU OF LAND MANA	JEMENT			MDA 701-04-001	4
APPLICATION FOR PERMIT TO DE	RII L OR R	EENTER		6. If Indian, Allottee or T	ribe Name
			11 20	JICARILLA APACH	E NATION
la Time of Works 77 pays	700	U JUL ZU III	- 1 L a	7. If Unit or CA Agreeme	
la. Type of Work: DRILL REENTE	K	DEACH/E	n		
	_	RECEIVE		8. Lease Name and Well N	o.
1b. Type of Well: Oil Well Gas Well Other	<u>✓ </u> s	ingle Zone Multi	ple Zone	JAECO 28-3 No.	9B
2. Name of Operator JICARILLA APACHE ENERGY CORP				9. API Well No. 39-3	30008
3a. Address	3b. Phone No	o. (include area code)		10. Field and Pool, or Expl	oratory
P.O. Box 710 DULCE, New Mexico 87528	505-75	9-3224		BLANCO MESAVE	RDE
4. Location of Well (Report location clearly and in accordance with a	any State requi	rements. *)	, , , ,	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface 1735' FSL & 2155' FEL					-
At proposed prod. zone As ABOVE		•		(9, T28N, R3W, N	JMPM
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
27.5 MILES SSW OF DULCE, NM				RIO ARRIBA	NM
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of A	Acres in lease	17. Spacing	g Unit dedicated to this well	
(Also to nearest drig. unit line, if any) 1735	8863.	50	SOUT	H HALF - 320 ACRES	;
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose	d Depth	20. BLM/B	IA Bond No. on file	
1572'	6492		ON F	ILE	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date work will st	art*	23. Estimated duration	
7229' UGL	Осто	BER 15, 2006		15 Days	·
	24. Atta	chments			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1, shall be att	ached to this	form:	
1. Well plat certified by a registered surveyor.			e operations	unless covered by an exist	ing bond on file (see
2. A Drilling Plan.		Item 20 above). 5. Operator certification	ntion		
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	Lands, the	•	pecific info	rmation and/or plans as ma	ny be required by the
25. Signature	Name	(Printed/Typed)		Date	
Title Thurles Huley	СНА	RLES NEELEY		;	7/21/06
CONTRACT DRILLING ENGINEER					
Approved by (Signature)	Name	(Printed/Typed)		Date	e
Timbolab		,			3/15/02
Title And AFM Menerals	Office	•			 () ,
Application approval does not warrant or certify that the applicant holds loperations thereon. Conditions of approval, if any, are attached.	egal or equital	ole title to those rights in	the subject	lease which would entitle the	applicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it	a crime for a	ny person knowingly an	d willfully to	o make to any department or	agency of the United
States any false, fictitious or fraudulent statements or representations as to				, F,	J- J
*(Instructions on reverse)				PAIN MAG	21907

NOTIFY AZTEC OCD 14 hrs

NWOCD

3/22/07

DISTRICT : 1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II 1301 W. Grand Ave., Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

1220 South St. Francis Dr., Santa Fe, NM 87505

DISTRICT IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102

Revised October 12, 2005 Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-30008	² Pool Code 72319	³Pool Name BLANCO—MESAVERDE	
⁴ Property Code	⁵ Prope	erty Name	⁶ Well Number
36388	JAEC	28-3	9B
OGRID No.	⁸ Opero	ator Name	⁹ Elevation
11859	JICARILLA APACI	HE ENERGY CORP.	7229'

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	9	28-N	3-W		1735'	SOUTH	2155	EAST	RIO ARRIBA

Bottom Hole Location If Different From Surface

-1	UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
									RCVD MAR19'	07
i	¹² Dedicated Acres		13]	loint or Infill		¹⁴ Consolidation Co	de	15 Order No.	OIL CONS. DI	
	S/320	Acres		Y			·		DIST. 3	

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

			FD 2 1/2* BC 1917 GLO	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
			06-34 W	France Nume
·		1	4 00-06- 5283.3	18 SURVEYOR CERTIFICATION
LAT: LONG:	36.65165° N. (NAD 107.15439° W. (NAD	83) 83)	z ^(r) 2155'	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. APRIL 24, 2006
				Date of Survey A VUKOA Screyor:
		1735'		Cortificate Number
FD 2 1/2" BC 1917 GLO	N 89-59 5295.4'		FD 2 1/2" BC	Certificate Number

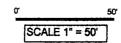
Submit 3 Copies To Appropriate District State of New Mexico	Form C-103
Office District I Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II 1201 W. Grand Ave. Admin NM 88210 OIL CONSERVATION DIVISION	WELL API NO 30-039 - 30068
1301 W. Grand Ave., Artesia, NM 88210 District III 1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505	or plants out to out plants its.
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	Jicarilla Apache MDA 701-04-0014
1. Type of Well: Oil Well Gas Well Other	8. Well Number JAECO 28-3 No. 9B
2. Name of Operator	9. OGRID Number
Jicarilla Apache Energy Corp 3. Address of Operator	11859 10. Pool name or Wildcat
P.O. Box 710, Dulce NM, 87528	Blanco Mesaverde
4. Well Location	
Unit Letter J: 1735 feet from the South line and 2155 feet from the East l	
Section 9 Township 28 North Range 3 West NMPM Ri	o Arriba County New Mexico
7229' UGL	
Pit or Below-grade Tank Application ⊠ or Closure ☐ Pit type Drilling Reserve Pit Depth to Groundwater <50 ft Distance from nearest fresh water well >10	200 6 Distance from record system water 200 ft
	Construction Material Location Dirt
12. Check Appropriate Box to Indicate Nature of Notice,	
NOTICE OF INTENTION TO:	SSEQUENT REPORT OF
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WOR	RK
OTHER: Application for New Drilling Reserve Pit OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and	nd give pertinent dates, including estimated date
of starting any proposed work). SEE RULE 1103. For Multiple Completions: A	ttach wellbore diagram of proposed completion
or recompletion.	
Drilling reserve pit to be located approximately 40 feet from well head. Pit to be accordance with NMOCD guidelines and BLM, BIA, Jicarilla Apache Oil & Gas	
accordance was taken of guidenness and BENG BILG Victoria Con Co. Co.	The same of the sa
I hereby certify that the information above is true and complete to the best of my knowledgerade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit	ge and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE / Lesling TITLE Contract Drilling	Engineer DATE 1-21-06
Type or print name. Charles Needay.	m com Talonhama No. 505 496 0011
Type or print name Charles Neeley E-mail address: neelece@ms For State Use Only	•
APPROVED BY: TITLE CONDITIONS OF Approval (if any):	SPECTOR, DIST. @9 DATE DATE

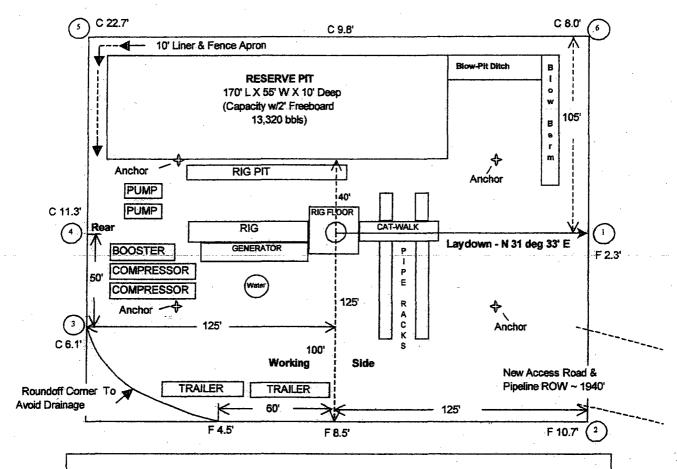
JICARILLA APACHE ENERGY CORP. LAT. = 36.65165° N. JAECO 28-3 No. 9B, 1735 FSL 2155 FEL SECTION 9, T28N, R3W, N.M.P.M., RIO ARRIBA COUNTY, N. M. LONG. = 107.15439° W NAD 83 GROUND ELEVATION: 7229', DATE: APRIL 24, 2006 C (6) C 8.0 PIPELINE AND ACCESS ① F 2.3 1940 FEET B C 9.8 c' ② F 10.7 105. 0.0 100. B' F 8.5 100 A (5) C 22.7 105 4 REAR C 11.3 C 6.1 DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. NEW MEXICO ONE CALL TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION. NOTE: C/L ELEV. A-A 7240 7230 7220 7210 C/L ELEV. B-B' 7240 7230 Surveying and Oil Fleid Services P. O. Box 15068 • Farmington, NM 87401 Phone (505) 325-1772 • Fax (505) 326-6019 7220 Daggett Enterprises, Inc 7210 C/L ELEV. C-C' 7240 7230 7220 7210 NOTE: CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.





Neeley Consulting Service, LLC 3001 Northridge Dr., Farmington, NM 505-486-0211





Construction Zone & Arche Buffer = 25' outside of location perimeter, all sides.

JAECO

Wellsite Layout Plat with Cut & Fills
JAECO 28-3 No. 9B
1735' FSL & 2155' FEL
Sec 9, T28N, R3W, NMPM
Rio Arriba Co., New Mexico
Elevation: 7229' UGL

Jicarilla Apache Energy Corp JAECO 28-3 No. 9B 1735' FSL & 255' FEL

Section 9, T28N, R3W, NMPM Rio Arriba County, New Mexico

TEN POINT DRILLING PLAN

1. Surface Formation: San Jose

2. Surface Elevation: 7229' UGL

Est **KB**, ft: 7241

3. Estimated Formation Tops:

	Top	Top		
Formation	MD (KB), ft	Subsea, ft	Rock Type	Comments
San Jose	Surface	Surface	Sandstone & Shale	Sticking
Nacimiento	2258	4983	Shale & Sandstone	Bit ballling, sticking & LC
Ojo Alamo	3523	3718	Sandstone	Gauge Hole
Kirtland	3663	3578	Shale w/Sandstone	
Fruitland	3753	3488	Coal, Shale, Sandstone	Gas, Water
Pictured Cliffs	3835	3406	Sandstone, Shale, Coal	Gas - Mud Loss
Lower PC	4028	3213	Sandstone & Shale	Gas - Mud Loss
Lewis	4318	2923	Shale	
Huerfanito	4702	2539	Shale	Bentonite
Cliff House	5940	1301	Sandstone	Gas
Menefee	5960	1281	Coal, Shale, Sandstone	Gas & Oil
Pt. Lookout	6211	1030	Sandstone & Shale	Gas
Mancos	6417	824	Shale	

Total Depth:

6492

749

4. Casing and Cementing Program:

Drill a 12 1/4" Hole to 320'. A string of new 9 5/8" 36# J-55 or K-55 ST&C casing will be set and cemented to the surface in a single stage with 180 sacks (212.5 cf) of Class "B" cement (yield = 1.18 cf/sk) containing 2% CaCl₂ and 1/4 lb/sack cellophane flake. Slurry volume assumes 100% excess over calculated hole volume. Clearance between couplings and hole is 1.625". If cement does not circulate to surface; cement will be topped off using 1" pipe down the 12 1/4" by 9 5/8" annulus.

Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb overpull whichever is greater.

Hole		Casi	ng Data	Collapse	Burst	Jt. Strength	
Dia	OD	Wt/FT	Grade	Thread	(psi)	(psi)	(Lbs.)
12 1/4"	9 5/8"	36	J-55	STC	2,020	3,520	394,000
		36	K-55	STC	2,020	3,950	452,000
							732

WOC 12 HOURS. Nipple up 11" 2000# BOPE. Install proper size test plug, calibrated test guage and recorder. Pressure test BOPE at 250 psi for 5 minutes and 2000 psi for 10 minutes. Pull test plug, drill wiper plug, float collar and cement to within 10' of casing shoe. Close pipe rams and pressure test surface casing to 1500 psi for 30 minutes.

Drilling Plan Jicarilla Apache Energy Corporation JAECO 28-3 No. 9B

4. Casing and Cementing Program: Continued

Drill an 8 3/4" hole to 4393' feet, approximately 70' feet into the Lewis Shale.

Run Induction and Compensated density/neutron logs from 4393' to the surface casing shoe.

A string of new 7" 20#, J-55, STC Intermediate casing will be set at 4393' with a mechanical DV tool set at 2313', 55' below Nacimiento top. Stage 1 (4493' - 2313', 2080') will be cemented with 189 sacks (355.1 cf) of 35/65 Poz/B + 6% Gel + 5#/sk Gilsonite and 1/4 #/sk cellophane flake mixed at 12.1 ppg, yield 1.88 cf/sk. Followed by 151 sacks (22.3 cf) Class B with 5#/sk Gilsonite, ½#/sk cellophane flake and mixed at 15.2 ppg, yield 1.26 cf/sk.

Circulate and WOC between stages for four (4) hours. Stage 2 (2313' - surface) will be cemented with 282 sacks (536.6 cf) of 35/65 Poz/B + 6% Gel + 10#/sk Gilsonite and 1/4 #/sk cellophane flake mixed at 12.5 ppg, yield 1.90 cf/sk. Followed by 50 sks (63cf) Class B with 5#/sk Gilsonite and 1/4 #/sk cellophane flake, mixed at 15.2 ppg, yield 1.26 cf/sk. Slurry volumes assume a 75% excess over gauge hole volume for stage 1 and 83% over gauge volume for stage 2 (consistant with our experience in the area). Cement volume is subject to change after review of open hole caliper logs.

Clearance between couplings and hole is 1.094 ". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Hole		Casi	ng Data	Collapse	Burst	Jt. Strength	
Dia	OD	Wt/FT	Grade	(psi)	(psi)	(Lbs.)	
8.75"	7.0"	20	J-55	STC	2,270	3,740	234,000

<u>WOC 12 Hours:</u> Nipple up BOP, tag cement & drill out DV, pressure test casing to 500 psi, drill out float collar and cement to within 10' of casing shoe, close pipe rams and pressure test casing/BOPE to 2000 psi for 30 minutes.

Air drill a 6 1/4" hole from 4393' to 6492' TD, approximately 75' feet into the Upper Mancos.

Run Dual Induction and Compensated density/neutron logs from TD to the intermediate casing.

A new 4 ½" 10.5#, J-55, STC production liner will be run from 6492' TD to a minimum overlap of 120 feet inside the 7" intermediate casing (6492' - 4273', 2219'). This string will be cemented in a single stage with 10 bbls POZ spacer w/4% gel, .2% Halad 9, .15# Fe & 3% KCl mixed at 11.0 ppg followed by 258 sacks (341.1 cf) 50/50 Poz/H containing 2% Gel, 5#/sk Gilsonite, 1/4 #/sk Flocele, 4% H-9 and 0.2% HR-5, mixed at 13.5 ppg, yield 1.32 cf/sk. Slurry volume assumes a 50% excess over gauge hole volume. Cement volume is subject to change after review of the open hole caliper log. Clearance between couplings and hole is 1.25". Safety factors utilized in the design of this casing string were burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb overpull, whichever is greater.

ſ	Hole		Casi	ng Data	Collapse	Burst	Jt Strength	
L	Dia	OD	Wt/FT	Grade	Thread	(psi)	(psi)	(Lbs.)
	6.25"	4.5"	10.5	J-55	STC	4,010	4,790	132,000

Drilling Plan
Jicarilla Apache Energy Corporation
JAECO 28-3 No. 9B

4. Casing and Cementing Program: Continued

Bits: 12 1/4" surface hole - MT class 115 or 116 to ~320 feet. 8 3/4" intermediate hole - TCI class 447 to ~4393'. 6 1/4" production hole - Air hammer and bit - to TD

Centralizers:

Surface string: 3 - 9 5/8" X 12 1/4": One centralizer run in middle of shoe joint with lock ring and one centralizer each on the next two joints of casing.

Intermediate string: 4 - 7" X 8 3/4" turbolizers will be spaced such that one is just below the Basal Fruitland Coal, three (3) across the Fruitland/Kirtland and one (1) into the Ojo Alamo. One centralizer will be run on the 1st jt of casing, the PC will be centralized, a centralizer will be run above and one centralizer will be run below the DV tool.

Production string: 7 - 4 1/2" X 6 1/4" bow spring centralizers will be run across all prospective pays; provided well control conditions permit.

Float Equipment:

Surface string: Texas pattern guide shoe w/insert float (1 jt above shoe).

Intermediate string: Cement nose guide shoe, float collar and DV tool with 2 cement baskets below DV tool.

Production string: Cement nose float shoe and a float collar (1 jt above shoe).

5. Pressure Control Equipment:

A 2,000 psi BOP well control system will be utilized. BOP's and choke manifold will be installed and pressure tested to a minimum of 2000 psig before drilling out of surface casing. Pipe rams will be operated daily. Pipe and blind rams will be operated on each trip. BOP's, intermediate casing and choke manifold will be pressure tested to 2000 psi prior to drill out of the 7" intermediate casing shoe.

7" & 4 ½" casing rams will be installed prior to running intermediate and production casing, respectfully.

A full opening internal blowout preventor or drill pipe safety valve (capable of fitting all connections) will be on the rig floor at all times.

An upper kelly cock will be utilized. The handle will be available on rig floor at all times. A BOPE pit level drill shall be conducted weekly for each drilling crew.

6. Mud Program:

The well will be spudded and drilled to surface casing depth with a high viscosity slurry of bentonite, lime and fresh water. A fresh water, low solids, non-dispersed mud system will be utilized to drill the well from surface casing to intermediate casing depth. Air will be used to drill from intermediate casing depth to total TD; Mud circulating equipment, water, and mud materials (not mixed) sufficient to maintain the capacity of the hole and circulating pits will be in place and operational during air drilling operations. Sufficient mud materials will be on location at all times to maintain mud properties and to

Sufficient mud materials will be on location at all times to maintain mud properties and to control any lost circulation problem or unforeseen abnormal pressures.

Mud volume markers will be in place and visually monitored and recorded on a routine basis.

Drilling Plan
Jicarilla Apache Energy Corporation
JAECO 28-3 No. 9B

6. Mud Program: Continued

Mud Property Guidelines:

Interval (ft)	Weight (ppg)	Vis (sec/qt)	pН	Fluid Loss (c	c/30 min)
0 – 320'	8.6 – 9.2	40 - 35	9 – 9.5	No Control	
320' - <u>4393</u>	8.6 – 9.2	30 – 35	8.0 - 8.5	< 10	
4393' - TD	Air	Air	Air	Air	

Note: Raise mud viscosity to 45-60 for logging. Thin mud viscosity to 40-45 to run casing. Lost Circulation: may occur anywhere from the Nacimiento formation to intermediate depth. Have a minimum of 10% LCM in mud prior to running and cementing intermediate casing. Mud pH will be maintained with lime at the recommended levels to assure drill pipe corrosion protection.

7. Auxiliary Equipment:

All applicable equipment defined in Onshore Order No. 2 will be in place and operational during **Air Drilling Operations**.

8. Logging Program:

Dual Induction with GR and Neutron / Density logs will be run from TD to surface casing shoe.

Coring and Drill Stem Testing Program:

No cores or drill stem tests are planned

9. Abnormal Pressure and/or Temperature:

Although not expected, abnormal pressures are possible in the Fruitland formation. Abnormal temperatures are not expected.

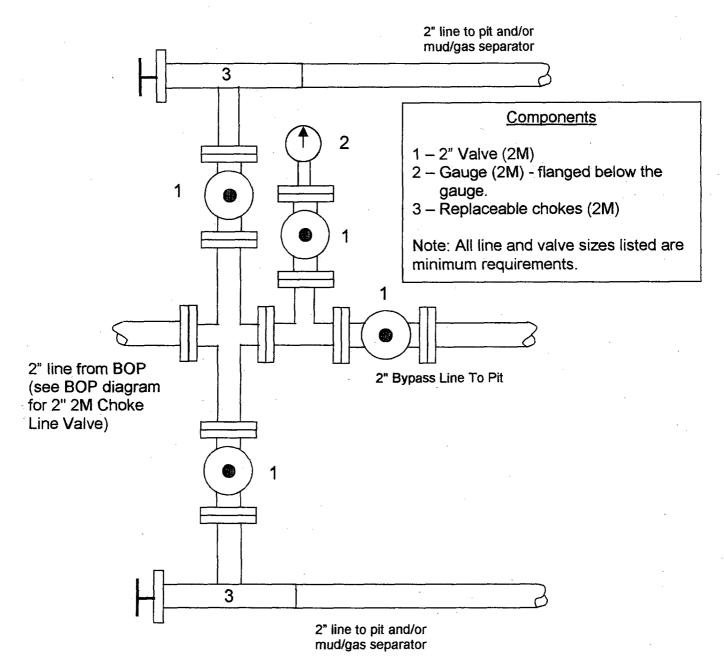
Estimated Bottom Hole, Pressure: 1970 psig BHT: 140 deg F

10. Anticipated Starting Date: October 15, 2006

Duration of Operations: It is estimated a total of 15 days will be required for drilling operations.

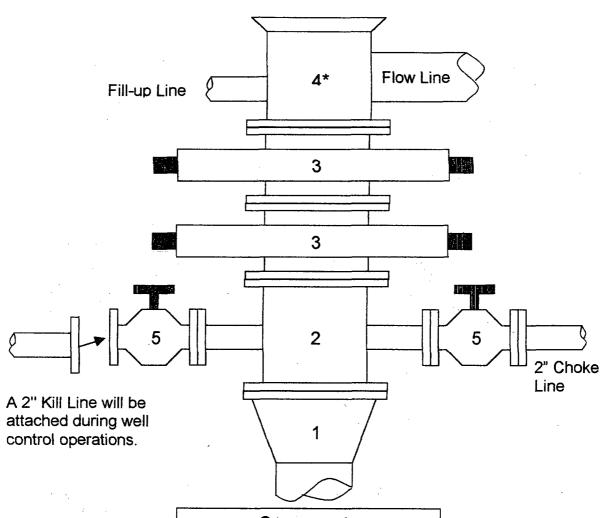
JAECO 28-3 No. 9B

2000 psi Choke Manifold Minimum Requirements



JAECO 28-3 No. 9B

2000 psi BOP Stack Minimum Requirements



Components

- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)
- 3 A double or two single rams with blinds on bottom 11" (2M)
- 4 Bell nipple*
- 5 2" Manual valves (2M)

*Note: A Rotating Head will replace the Bell nipple during air drilling operations.

All line and valve sizes listed are minimum requirements.