District I
1625 N French Dr, Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S First St, Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St Francis Dr, Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised October 25, 2012

☐ AMENDED REPORT

RCVD NOV 19 '12
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number
Huntington Energy, L.L.C. 908 N.W. 71st ST. Oklahoma City, OK 73116	208706
	[3] API Number 30-039-31152

[4] Property Code	[5] Property Name	[6] Well No.
32660	Canyon Largo Unit NP	516

[7] Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	36	25N	7W		665	North	665	West	Rio Arriba

[8] Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

[9] Pool Information

Additional Well Information

[11] Work Type	[12] Well Type	[13] Cable/Rotary	[14] Lease Type	[15] Ground Level Elevation
N	G	R	S	6827'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
	7400'	Morrison	N/A	12/15/2012

Depth to Ground water > 200'	Distance from nearest fresh water well > 1000'	Distance to nearest surface water > 300'

[21] Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12 ¼"	8 5/8"	24#	0-320'	265	Surface
Production	7 7/8"	4 ½"	11.6#	0-7400'	1600	

Casing/Cement Program: Additional Comments

[22] Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
See attached Operations Plan			

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐, if applicable
Signature: Catherine Smith

Printed name: Catherine Smith

Title: Regulatory

E-mail Address: csmith@huntingtonenergy.com

Date: 11/09/2012 Phone: 405-840-9876 ext. 129

OIL CONSERVATION DIVISION

Approved By: Deputy Oil & Gas Inspector, District #3

Title:

Approved Date: NOV 19 2012 Expiration Date: NOV 19 2014

Conditions of Approval Attached

NOTIFY AZTEC OCD 24 HRS
PRIOR TO CASING & CEMENT

NOV 19 2012 ca

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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 August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-31152	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
32661	CANYON LARGO UNIT NP	516

[7] OGRID No.	[8] Operator Name	[9] Elevation
208706	HUNTINGTON ENERGY, LLC.	6827'

[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
D	36	25-N	7-W		665	NORTH	665	WEST	RIO ARRIBA

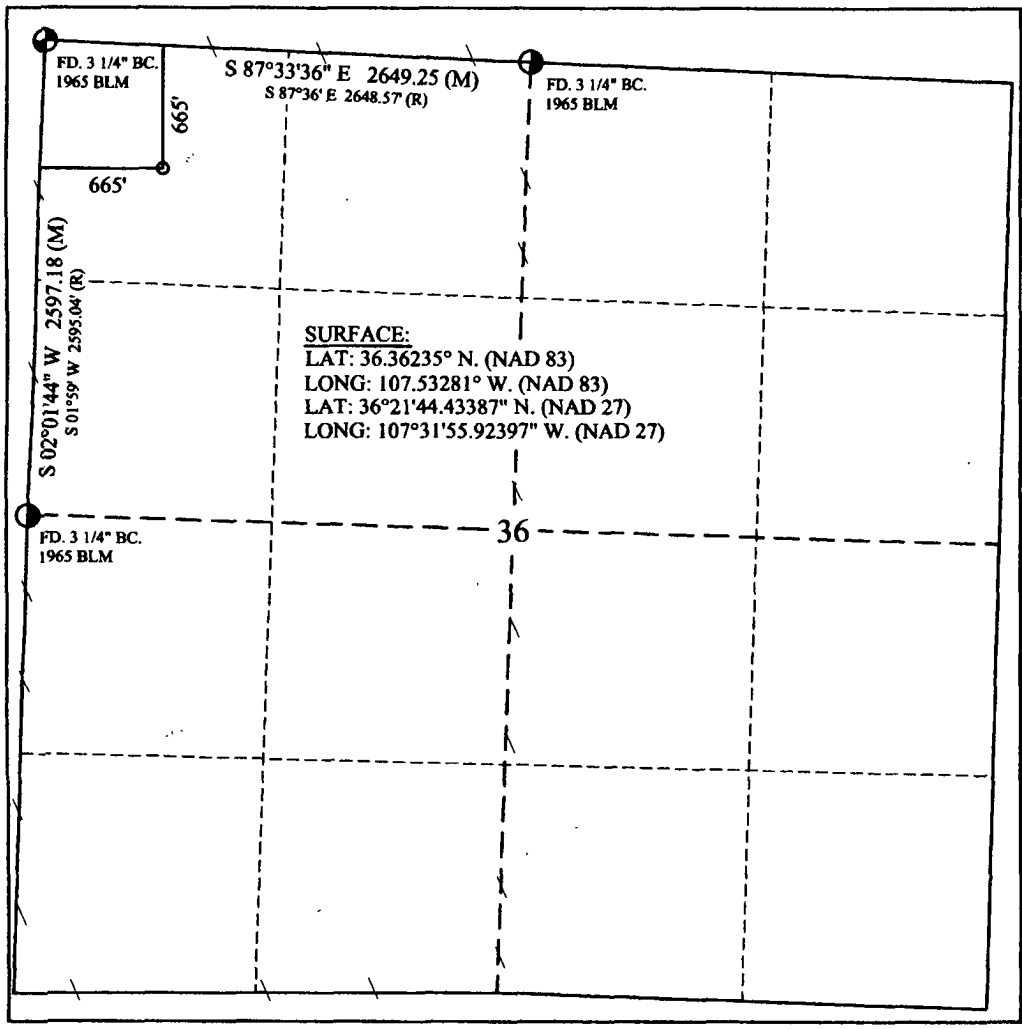
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
W/320			

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16



17

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.

Catherine Smith 11/09/2012
Signature Date

Catherine Smith
Printed Name

csmith@huntingtonenergy.com
E-mail Address

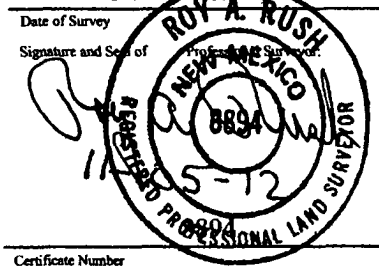
18

SURVEYOR CERTIFICATION

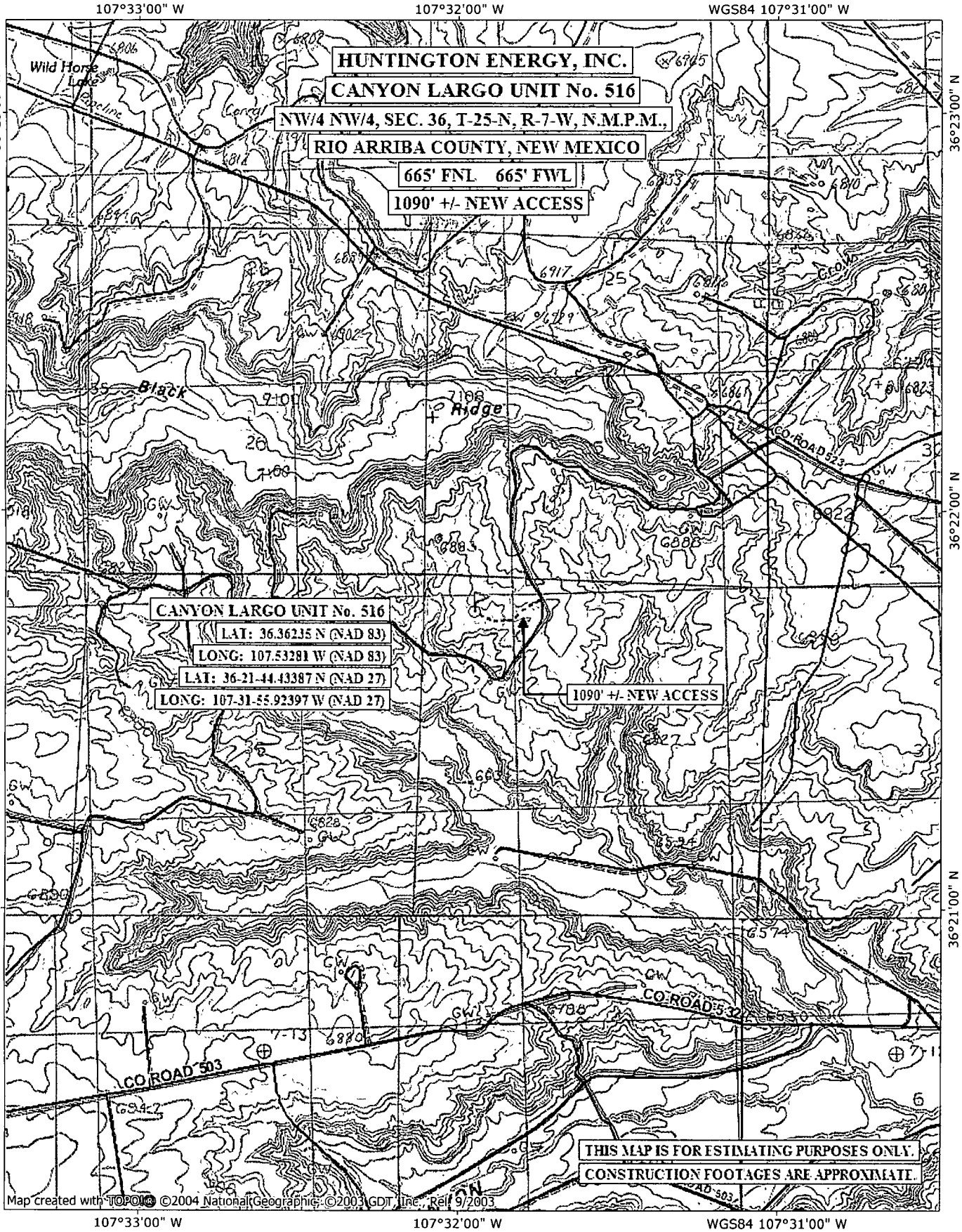
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 1, 2012
Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number


HUNTINGTON ENERGY, INC.
CANYON LARGO UNIT No. 516
NW/4 NW/4, SEC. 36, T-25-N, R-7-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
665' FNL 665' FWL
1090' +/- NEW ACCESS
CANYON LARGO UNIT No. 516
LAT: 36.36235 N (NAD 83)
LONG: 107.53281 W (NAD 83)
LAT: 36-21-44.43387 N (NAD 27)
LONG: 107-31-55.92397 W (NAD 27)
1090' +/- NEW ACCESS
THIS MAP IS FOR ESTIMATING PURPOSES ONLY.
CONSTRUCTION FOOTAGES ARE APPROXIMATE.
Map created with TOPO! ©2004 National Geographic, ©2003 GDT, Inc., Rel. 9/2003
107°33'00" W
107°32'00" W
WGS84 107°31'00" W
36°23'00" N
36°22'00" N
36°21'00" N
CO ROAD 503
CO ROAD 532
Black Ridge
Wild Horse Lake
NATIONAL GEOGRAPHIC
0.0 0.5 miles
0.0 0.5 1.0 km
TN MN
10½°
11/02/12

OPERATIONS PLAN

Well Name:	**Canyon Largo Unit #516**
Location:	665' FNL, 665' FWL, NWNW, Lot D, Sec 36, T25N, R7W Rio Arriba County, NM
Formation:	Basin Dakota
Elevation:	6827' GL

Formation Tops:	Measured Depth (Tops)
San Jose	Surface
Ojo Alamo	1906'
Kirtland	2090'
Fruitland	2419'
Picture Cliffs	2550'
Lewis Shale	2595'
Cliff House	4072'
Menefee	4143'
Point Lookout	4791'
Mancos	4832'
Gallup	5863'
Greenhorn	6752'
Dakota	6844'
Burro Canyon	7107'
Morrison	7350'
TD	7400'

Logging Program:

Mud log – 2000' to TD
Open hole logs– GR/Neutron, CBL/GR – TD to surface
Cores & DST's – none

Mud Program:

Interval	Type	Weight	Vis.	Fluid Loss
0 – 320'	Spud	8.4-8.9	40-50	no control
320 – 7400'	LSND	8.4-9.0	40-60	8-12

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program:

Hole Size	Depth Interval	Csg. Size	Wt.	Grade
12 ¼"	0' – 320'	8 5/8"	24.0#	J-55
7 7/8"	0' – 7400'	4 ½"	11.6#	N-80

Tubing Program:

	0' – 7400'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to TD –

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes. Drilling Spool may or may not be employed.

2" nominal, 3000 psi minimum choke manifold (Reference Figure #2).

Completion Operations:

6" 3000 psi double gate BOP stack (Reference Figure #1). After nipple-up prior to completion, pipe rams and casing top will be tested to 3000 psi for 15 minutes.

Surface to Total Depth:

2" nominal, 3000 psi minimum choke manifold (Reference Figure #2).

Wellhead:

8 5/8" x 4 ½" x 1 ½" x 1 ½" x 3000 psi tree assembly.

General:

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper Kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- A BOP pit level drill will be conducted weekly for each drilling crew.
- All of the BOP tests and drills will be recorded in the daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

8 5/8" surface casing –

Cement to surface w/265 sx Class "G" cement w/3% calcium chloride and ¼#/sx cellophane flakes (312 cu. ft. of slurry, 200% excess to circulate to surface).
WOC 8 hr. prior to drilling out surface casing. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

Production Casing – 4 ½"

Lead with 700 sx 65/35 Standard Poz w/6% gel, ¼# Flocele, 10# Gilsonite, 3/10% Halad 9, 1/10% HR5 (1.96 yld). Tail w/900 sx 50/50 Standard Poz w/35 Gel, 9/10% Halad9, 2/10% CFR 3, 5# Gilsonite, ¼# Flocele (1.47 yld).

Alternate Two-stage cement job as follows:

First Stage: Cement to circulate to stage tool @ 5066'. Lead with 700 sx Class "G" 50/50 poz (13#, 1.47 yd) w/3% gel, 0.25 pps Celloflake, 5 pps Gilsonite, 0.25 pps Fluid loss, 0.15% dispersant, 0.1% retarder. WOC 4 hours prior to pumping second stage. (Slurry volume: 1029 cu. ft. Excess slurry: 50%). DV Tool at 5000 ft.

Second Stage: Cement to circulate to surface. Cement with 700 sx Class "G" (12#, 2.9yd) TXI Liteweight cement w/2.5% sodium metasilicate, 2% calcium chloride, 10 pps Gilsonite, 0.5 pps Celloflake, 0.2% antifoam. WOC a minimum of 18 hours prior to cleanout. (Slurry volume: 1914 cu. ft. Excess slurry: 50%). Tail w/50 sx Class "B" w/1/4# Flocele (15.6#, 1.18 yd), (Slurry 59 cu. ft., Excess 50%).

Float shoe on bottom. Three centralizers run every other joint above shoe. Thirty-five centralizers - one every 4th joint to the base of the Ojo Alamo @ 2448'. Two turbolizing type centralizers – one below and one into the base of the Ojo Alamo @ 2448'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Additional Information:

The Dakota formations will be completed. If Dakota is non-commercial, Devils Fork Gallup will be completed.

- No abnormal temperatures or hazards are anticipated.
- Sufficient LCM will be added to the mud system to maintain well control, if lost circulation is encountered below the top of the Pictured Cliffs.
- The west half of the Section 36 is dedicated to this well.
- This gas is dedicated.
- Anticipated pore pressure

Fruitland Coal	300 psi
Pictured Cliffs	500 psi
Mesa Verde	700 psi
Dakota	3000 psi

HUNTINGTON ENERGY, L.L.C.
CANYON LARGO UNIT
RIO ARRIBA CO., NM

BOP STACK – 3000 PSI

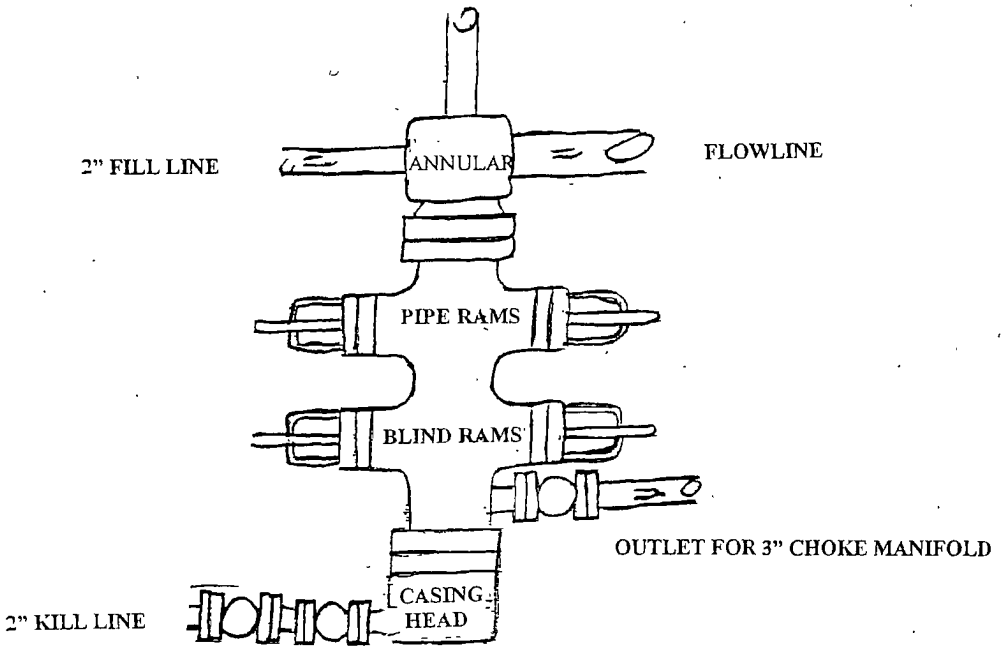


FIGURE 1

CHOKE MANIFOLD – 3000 PSI

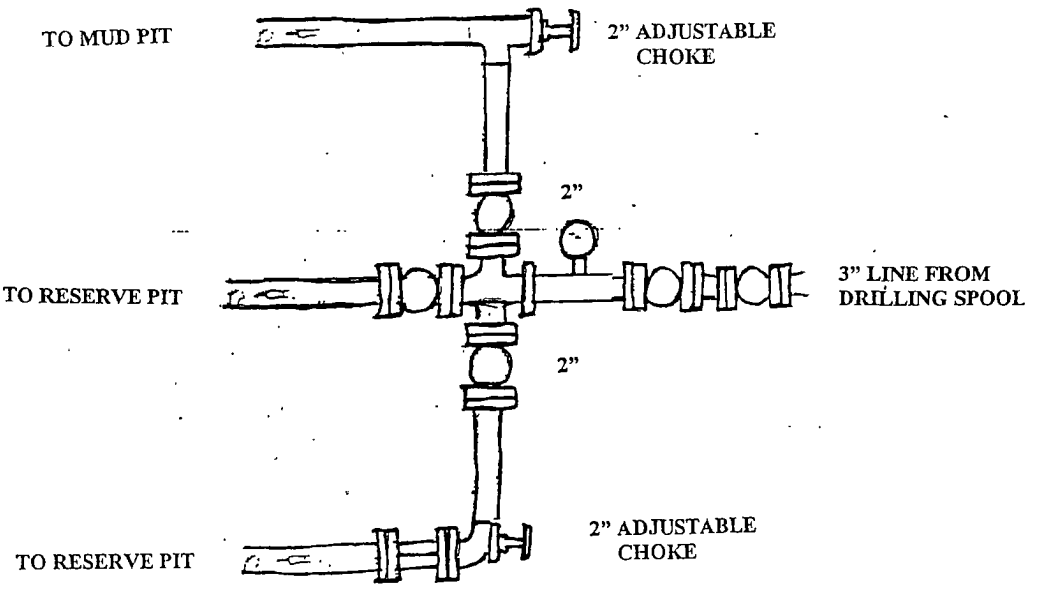


FIGURE 2