

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells) <u>30-045-27828</u>	
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil & Gas Lease No. E-5314	
7. Lease Name or Unit Agreement Name Santa Rosa 16	
8. Well No. 16-1 E/320	
9. Pool name or Wildcat Basin Fruitland Coal	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐	
b. Type of Well: OIL WELL ☐ GAS WELL ☒ OTHER ☐	
2. Name of Operator Robert L. Bayless	
3. Address of Operator P.O. Box 168, Farmington, NM 87494	

4. Well Location Unit Letter <u>B</u> : <u>1090</u> Feet From The <u>North</u> Line and <u>1710</u> Feet From The <u>East</u> Line
Section <u>16</u> Township <u>29N</u> Range <u>9W</u> NMPM San Juan County NM

10. Proposed Depth 2445'	11. Formation Fruitland Coal	12. Rotary or C.T. Rotary
13. Elevations (Show whether DF, RT, GR, etc.) 5841' GL 5851' RKB	14. Kind & Status Plug. Bond	15. Drilling Contractor Bayless Drilling
		16. Approx. Date Work will start ASAP

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24.0#	120'	90/106 ft ³	surface
7-7/8"	4-1/2"	10.5#	2445'	500/729 ft ³	surface/see longstring cementing

Will drill 12-1/4" hole to 120' and set 120' of 8-5/8" 24.0 #/ft J-55 used casing, cementing with 106 ft³ Class B cement, circulated to surface. Will drill 7-7/8" hole to 2445' and run 2445' of 4-1/2" 10.5 #/ft J-55 new casing and cement as per attached longstring cementing guidelines. Circulating medium while drilling will be clear water, natural mud and waterloss control additives. No abnormal pressures or temperatures are anticipated. Will run Induction and Density Logs. Blowout preventer and safety equipment schematics are attached. The gas from this formation is not dedicated to a gas contract.

RECEIVED
MAY 25 1990

ESTIMATED TOPS: Ojo Alamo - 1190'
Kirtland - 1337'
Fruitland - 2005'
Pictured Cliffs - 2356'
Total Depth - 2445'

OIL CON. DIV
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and correct to the best of my knowledge and belief.

SIGNATURE Kevin H. McCord TITLE Petroleum Engineer DATE 5/24/90
TELEPHONE NO. 505/326-21

(This space for State Use)

APPROVED BY Eric Bruck
CONDITIONS OF APPROVAL, IF ANY.

APPROVAL EXPIRES 11-30-90
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

DEPUTY OIL & GAS INSPECTOR, DIST. #1

DATE **MAY 30 1990**

RECEIVED
MAY 2 1930
OIL CON. DIV.
DIST. 3

MAY 3 0 1930

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10/10/02 BY 60322 UCBAW/STP

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Robert L. Bayless			Lease SANTA ROSA 16		Well No. 26-1
Unit Letter B	Section 16	Township 29 N	Range 9 W	County San Juan	NMPM
Actual Footage Location of Well: 1090 feet from the North line and 1710 feet from the East line					
Ground level Elev. 5841	Producing Formation Fruitland		Pool Basin Fruitland Coal		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated 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 side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

S89°59'W

79.65ch.

RECEIVED
MAY 25 1990
OIL CON. DIV.
DIST. 3

16

1090'

1710'

78.63 ch.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Kevin H. McCord*
Printed Name: Kevin H. McCord
Position: Petroleum Engineer
Company: Bayless Minerals, Inc.
Date: _____

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 knowledge and belief.

5-11-90

Date Surveyed: William E. Matthe II

Signature of Professional Surveyor

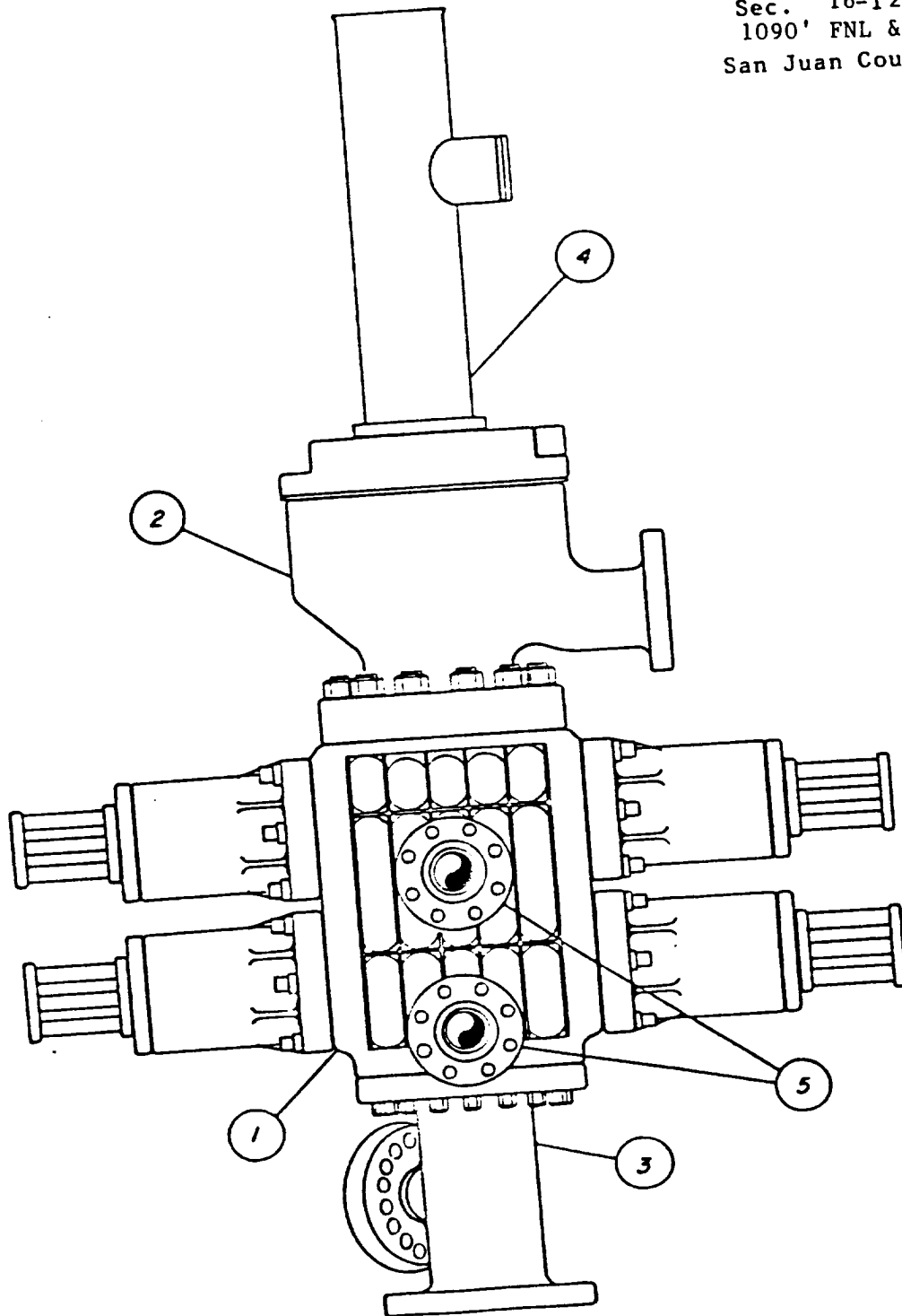
NEW MEXICO
#8466
Certified Professional Land Surveyor

S89°19'W 39.71ch.

S88°57'W 38.96ch.

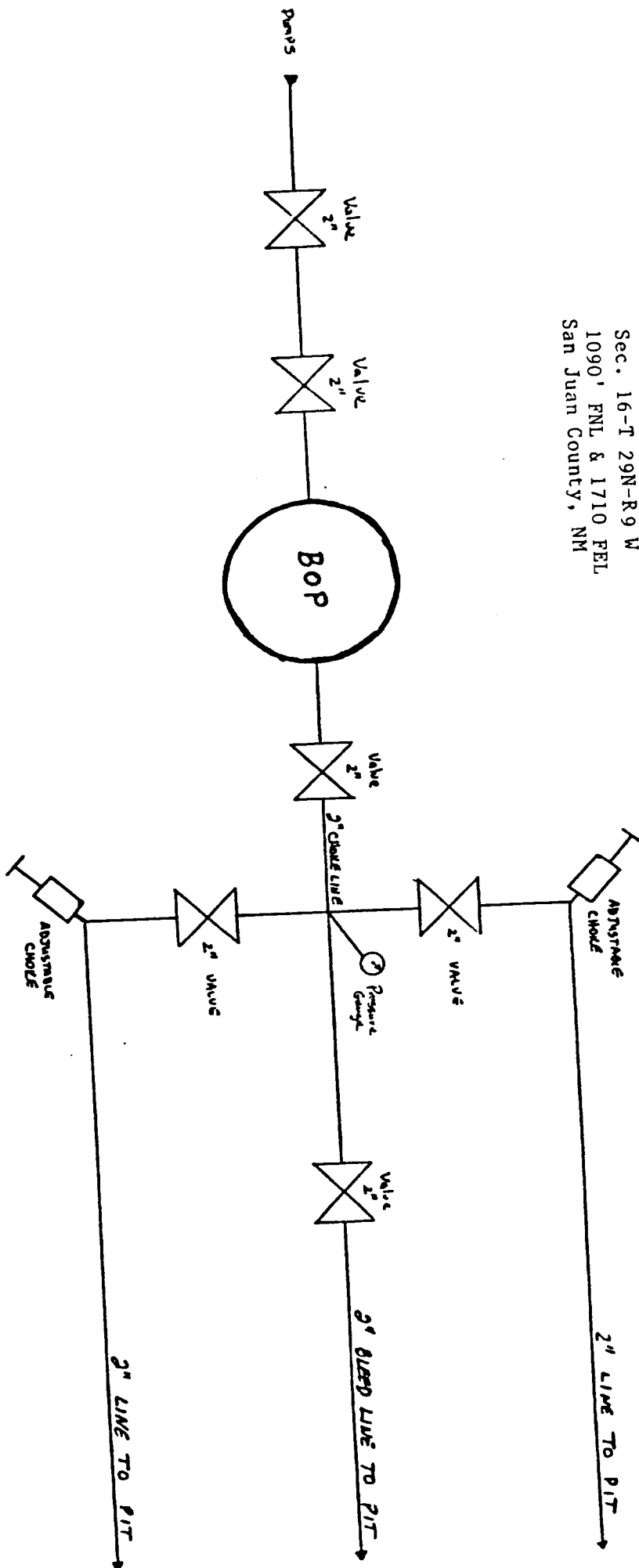
REGISTRATION
MAY 2 1960
JIC. COM. DIV.
DET. 3

Robert L. Bayless
 Santa Rosa 16-1
 Sec. 16-T29 N-R9 W
 1090' FNL & 1710' FEL
 San Juan County, NM



- ① SHAFER 11" 3000 LB MODEL LWS MANUAL LOCK RAM BLOWOUT PREVENTER
- ② GRANT 11" 3000 LB ROTATING DRILL HEAD, if conditions warrant, otherwise flow nipple above BOP
- ③ 11" SPOOL
- ④ 11" FLOW NIPPLE
- ⑤ 4" 3000 LB NOZZLE

Robert L. Bayless
 Santa Rosa 16-1
 Sec. 16-T 29N-R9 W
 1090' FNL & 1710 FEL
 San Juan County, NM



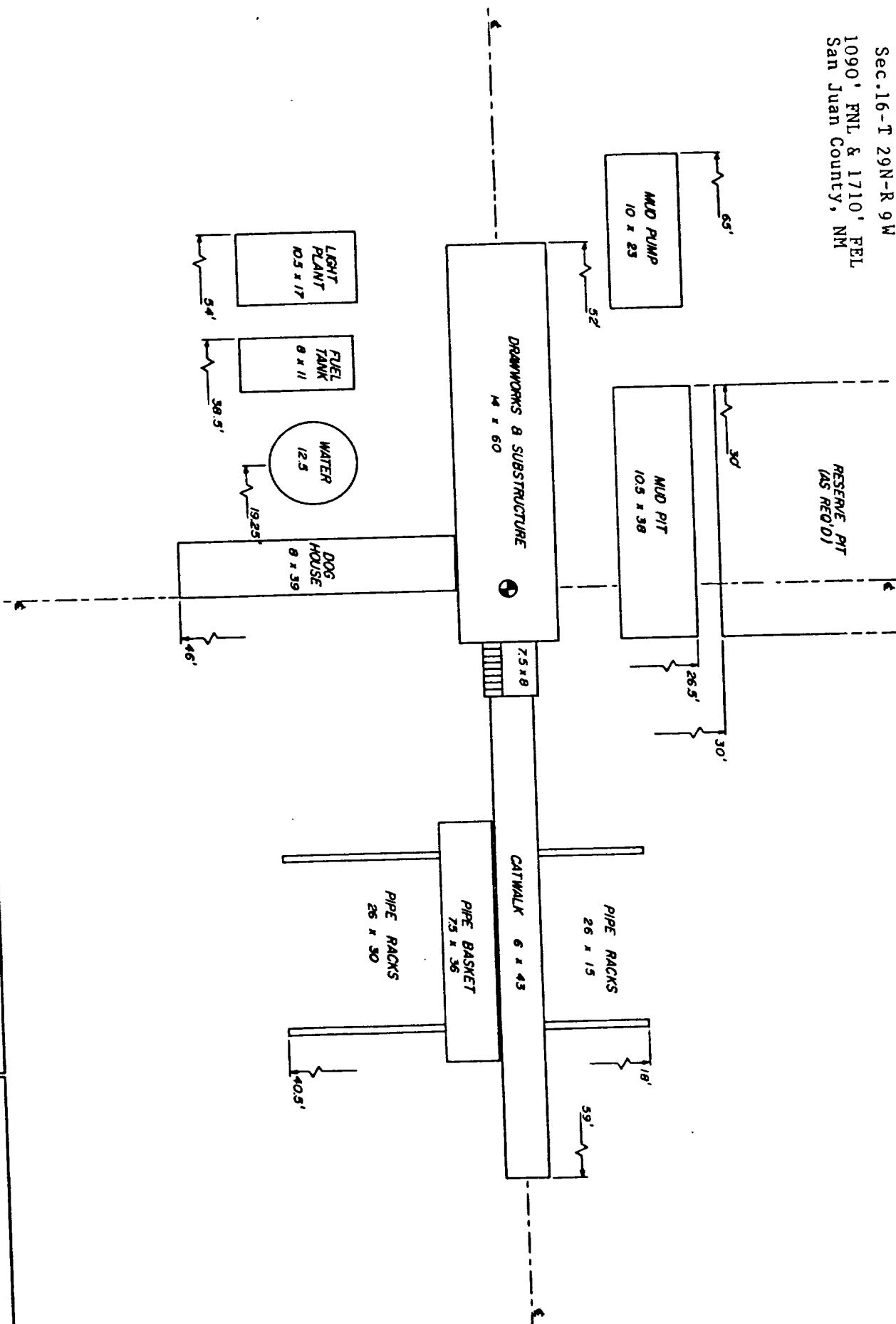
2000 PSI KILL LINE AND EQUIPMENT

The following safety equipment will also be present on location as part of the well control system:

- Safety valve and subs to fit all drill strings in use.
- Upper Kelly cock valve with handle available.

2000 PSI CHOKER MANIFOLD EQUIPMENT

Robert L. Bayless
 Santa Rosa 16-1
 Sec. 16-T 29N-R 9W
 1090' FNL & 1710' FEL
 San Juan County, NM



1.) GROUND LEVEL TO BOTTOM OF ROTARY
 BEAM : 75 II.
 2) GROUND LEVEL TO TOP OF KELLY
 BUSHING : 10 II.

RECOMMENDED LOCATION SIZE : 180 II. x 100 II.
 FROM CENTER OF HOLE TO : RESERVE PIT : 30 II.
 LOCATION EDGE : 70 II.
 FRONT : 100 II.
 BACK : 80 II.



RIG NO. 2

Robert L. Bayless
Santa Rosa 16-1
Sec. 16-T29N-R9W
1090 FNL & 1710 FEL
San Juan County, NM

Longstring Cementing Guidelines

1. The following estimated volumes of cement will be pumped on the longstring casing cementing job to provide a cement sheath from the end of production casing to the surface to protect useable water zones in this well. The exact cement pumped may vary slightly after examination of open hole logs.

lead slurry: 25 sx (30 ft³) Class B cement.
weight: 15.6 #/gal
yield: 1.18 ft³/sx

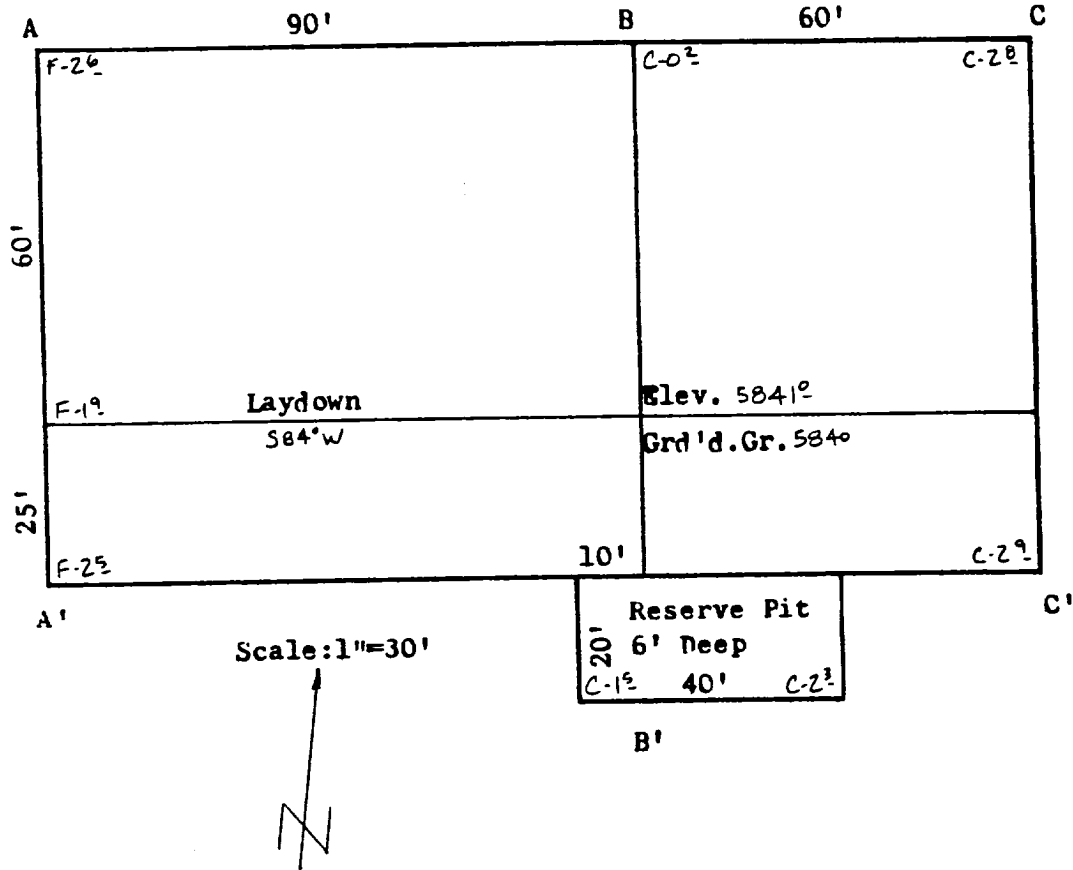
filler slurry: 125 sx (258 ft³) Class B cement with
2% econolite
weight: 12.5 #/gal
yield: 2.06 ft³/sx

tail slurry: 350 sx (441 ft³) 50/50 potmiz cement
with 2% gel and 10% salt
weight: 13.6 #/gal
yield: 1.26 ft³/sx

note: a 5 barrel spacer of clear water will be pumped ahead of the lead cement slurry to prevent mud contamination of the cement.

2. If cement does not reach the surface, a temperature and/or cement bond log will be run to determine the cement top.
3. The longstring production casing will be centralized through the Fruitland production interval and also through usable water zones. Turbulators (or centralizers that will impact a swirling action) will be placed just below and into the base of the lowest useable water zone.
4. A chronological log will be kept on the longstring cement job which will record pump rate, pump pressure, slurry density, and slurry volume. This log will be sent to the BLM after completion of the job.

Robert L. Bayless
 SANTA ROSA #16-1
 1090'FNL & 1710'FEL
 Sec.16, T29N, R9W
 San Juan Co., N.M.



A-A'	Vert.: 1"=30'	Horiz.: 1"=50'	C/L
5840			
5830			
B-B'	Vert.: 1"=30'	Horiz.: 1"=50'	C/L
5840			
5830			
C-C'	Vert.: 1"=30'	Horiz.: 1"=50'	C/L
5840			
5830			

