In Lieu of
Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT–" for such proposals

5. Lease Designation and Serial No.
SF-078767

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Rosa Unit

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Rosa Unit No. 149B

2. Name of Operator
Williams Production Company LLC

9. API Well No.

3. Address and Telephone No. **C/O Walsh Engineering & Production Corp.**
7415 East Main, Farmington, NM 87402 505-327-4892

10. Field and Pool, or Exploratory Area
Blanco Mesaverde/Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1440' FNL & 335' FWL Sec 12, T31N, R6W

11. County or Parish, State
Rio Arriba, NM

AUG 2001
RECEIVED
OIL CON. DIV
DIST. 3

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☒ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other See Below	☐ Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Williams Production Company LLC proposes to drill and complete the Rosa Unit 149B as a Mesaverde/Dakota dual well as per the attached drilling and completion procedure. The well is currently permitted as a stand alone Mesaverde well. No changes on the surface will occur from this proposed change of plans.

Attached: New plat showing Mesaverde/Dakota and new drilling & completion procedure.

14. I hereby certify that the foregoing is true and correct

Signed _____ (John C. Thompson) Title Agent/Engineer Date 07/25/01

(This space for Federal or State office use)

Approved by _____ Title _____ Date 8/2/01
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

NMOCD

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

District II
PO Drawer DD, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Dep

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

Form C-1
Revised February 21, 19
Instructions on Be
Submit to Appropriate District Offi
State Lease - 4 Copi
Fee Lease - 3 Copi

☐ AMENDED REPOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹API Number	²Pool Code	³Pool Name
	72319 / 71599	Blanco Mesaverde / Basin Dakota

⁴Property Code	⁵Property Name	⁶Well Number
17033	ROSA UNIT	149B

⁷OGRID No.	⁸Operator Name	⁹Elevation
120782	WILLIAMS PRODUCTION COMPANY	6421'

¹⁰ Surface Location

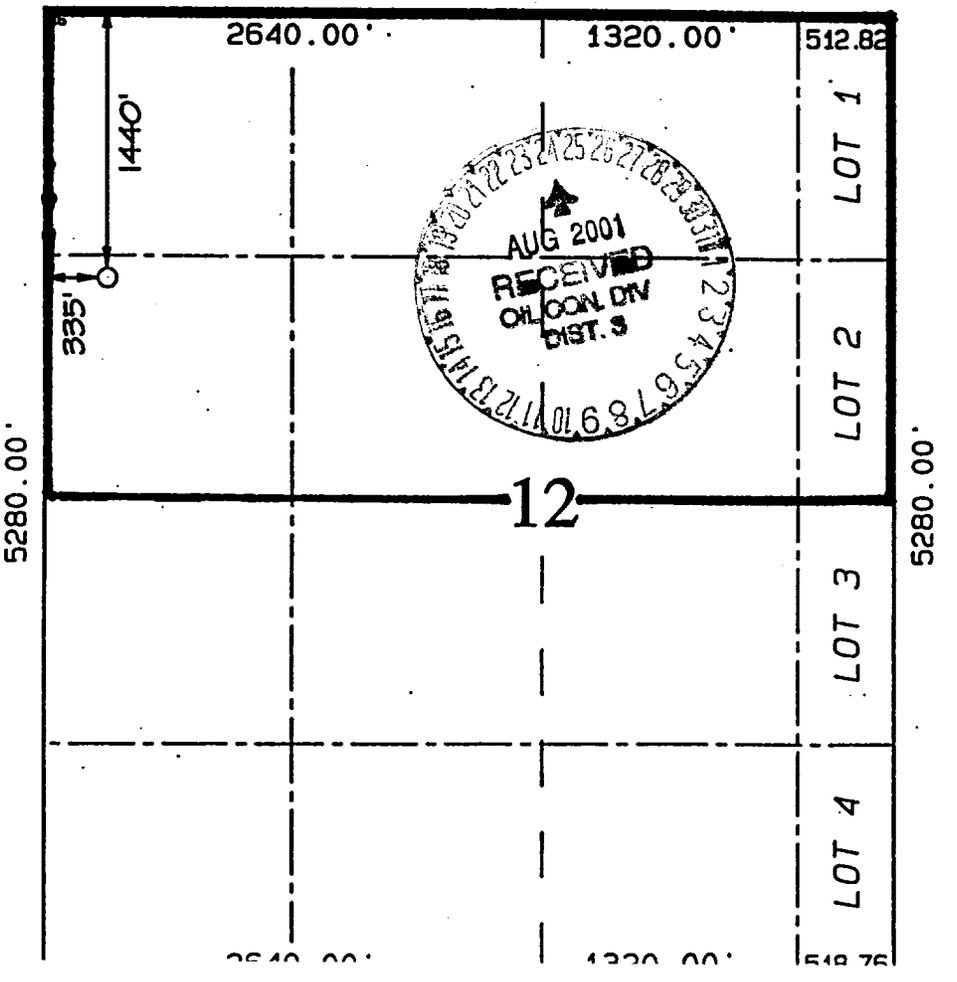
Ul. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	31N	6W		1440	NORTH	335	WEST	RIO ARRIBA

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

¹²Dedicated Acres	¹³Joint or Infill	¹⁴Consolidation Code	¹⁵Order No.
271.17-N/2	I	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



¹⁷ OPERATOR CERTIFICATIO

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

Signature

Steve Nelson
Printed Name

Agent, Nelson Consultin
Title

April 2, 2001
Date

¹⁸ SURVEYOR CERTIFICATIO

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

SEPTEMBER 25, 2000
Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number 6857

WILLIAMS PRODUCTION COMPANY

OPERATIONS PLAN

(Note: This procedure will be adjusted onsite based upon actual field conditions)

DATE:	7/26/2001		
WELL NAME:	**Rosa #149B**	**FIELD:**	Blanco MV/DK
SURFACE LOCATION:	SW/4 NW/4 Sec. 12- T31N-R6W Rio Arriba, NM	**SURFACE:**	BLM
ELEVATION:	6421" GR	**MINERALS:**	BLM
		LEASE #	SF-078767
MEASURED DEPTH:	**8218'**		

I. **GEOLOGY:** Surface formation - San Jose

A. **FORMATION TOPS:** (KB)

	MD		MD
Ojo Alamo	2493'	Mancos sh	6078'
Kirtland sh	2608'	Gallup ss	7043'
Fruitland cl	3088'	Greenhorn ls	7783'
Pictured Cliffs ss	3258'	Graneros sh	7838'
Lewis sh	3553'	Dakota ss	7968'
Cliff House ss	5468'		
Menefee	5518'		
Point Lookout ss	5743'	**Total Depth**	**8218'**

B. **LOGGING PROGRAM:** IND/GR/TEMP from TD to the Intermediate Casing Shoe. DEN/Neutron/GR (selected intervals by on-site Geologist). ***Subject to change as wellbore conditions dictate.***

C. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Guage well @ 5800' and before TOH for logs @ 7954'. Record all gauges in Tour book and on morning reports.

II. **DRILLING**

A. **MUD PROGRAM:** Clear water with benex to 7" casing point. LSND to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. **BOP TESTING:** While drill pipe is in use, the pipe rams will be function tested not less than once each day. The blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+/- 500'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-3733'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/-8218'	5-1/2"	17.0# N-80

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 10-3/4" notched regular pattern guide shoe. Run (1) Standard centralizer on each of the bottom (3) Joints.

2. INTERMEDIATE CASING: 7-5/8" cement nose guide shoe with a self- fill insert float. Place float one (1) joint above the shoe and five (5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1500' to the surface. Total centralizers (5 regular and 13 turbulent).

3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place 20' marker joint on top of 10 th joint and one above 5100'.

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: Use 345sx (451cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.

2. INTERMEDIATE: Lead: 615sx (1284cu.ft.)of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 230sx (320cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1604 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.

3. PRODUCTION STRING Lead: 310 sx (424 cu.ft.) of class 50/50, Poz/Class H with 4% gel, 2% kcl, 0.2% CD-32, 4.0% Phenoseal, 0.6% FL-50 and 1/4#/sk cello-flake. (Yield = 1.38 cu.ft./sk, Weight = 13.4 #/gal.). Tail: 100 sx (150 cu.ft.) of class "H" with 35% silica flour, 1.5% FL-62 ,0.3% CD-32, 0.2% A-2, and 1/4# cello-flake/sk, (Yield = 1.50 cu.ft./sk, Weight = 15.9 #/gal.) Batch mix tail slurry. Displace cement at a minimum of 8 BPM. Use 50% excess in lead and tail to bring cement top 150' into intermediate casing. Total volume 574 cuft. WOC 12 hours. cuft. WOC 12 hours.

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface..

B. PRESSURE TEST

1. Pressure test 7 5/8" & 5-1/2" casing to 3300# for 15 minutes.

C. STIMULATION

1. Stimulate Dakota with approximately 70,000# of 20/40 sand in x-link foam.
2. Isolate Dakota with a RBP.
3. Stimulate Point Lookout with approximately 80,000# of 20/40 sand in slick water.
4. Isolate Point Lookout with a RBP.
5. Perforate the Menefee/Cliff House as determined from the open hole logs.
6. Stimulate with approximately 80,000# of 20/40 sand in slick water.
7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. *Dakota*: Run 2-1/16", 3.25#, J-55, tubing with 1/2 mule shoe on bottom , SN with pump-out plug on top 6 bottom joint. Use production packer (w/ 5 Seal Units) to isolate Dakota from Mesaverde. Land tubing approximately 100' below top Dakota perf.

2. *Mesa Verde:* Run 2-1/16", 3.25#, J-55, tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.

John Thompson
Engineer

Walsh Engineering & Production

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

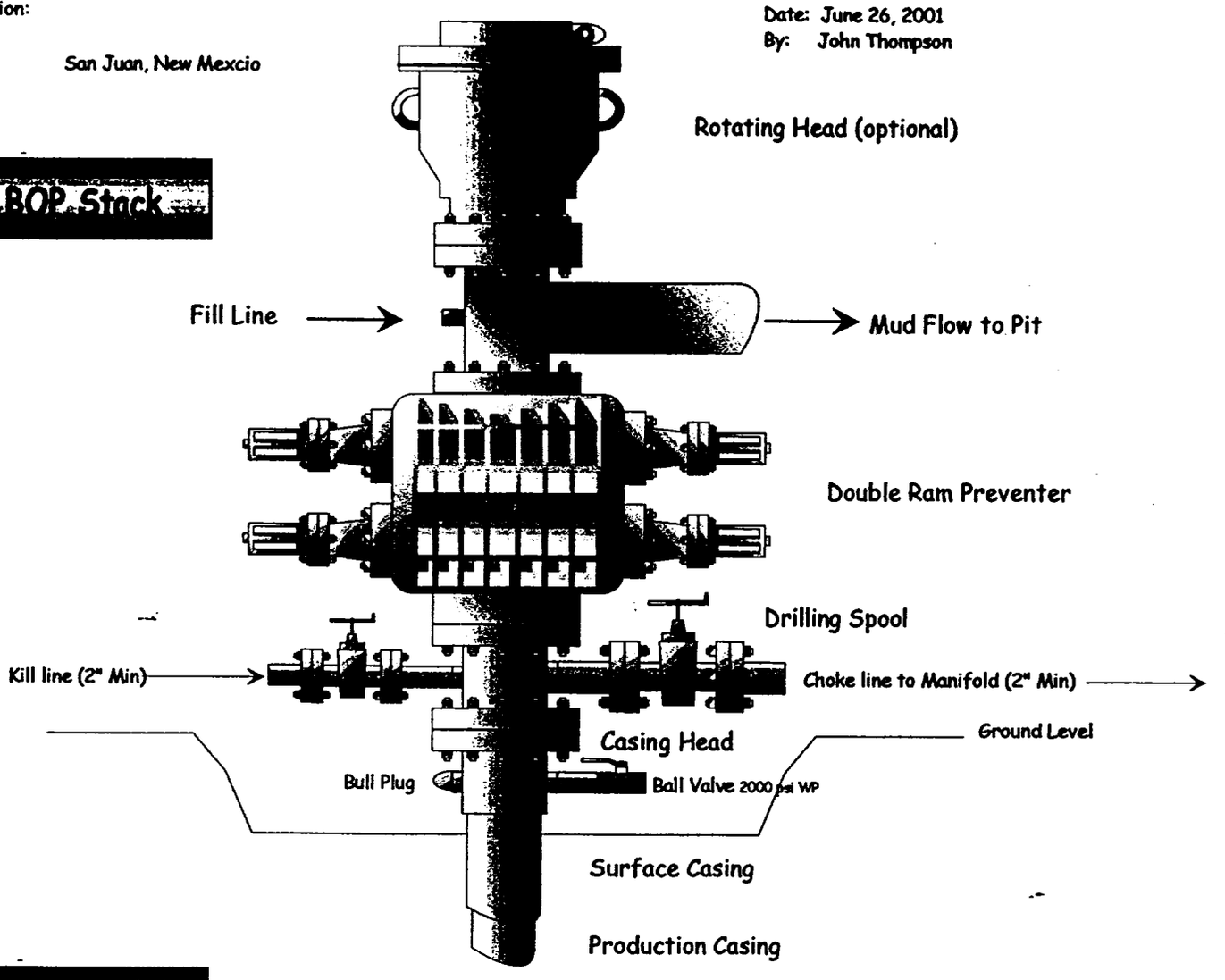
Typical Mesaverde/Dakota BOP setup

Location:

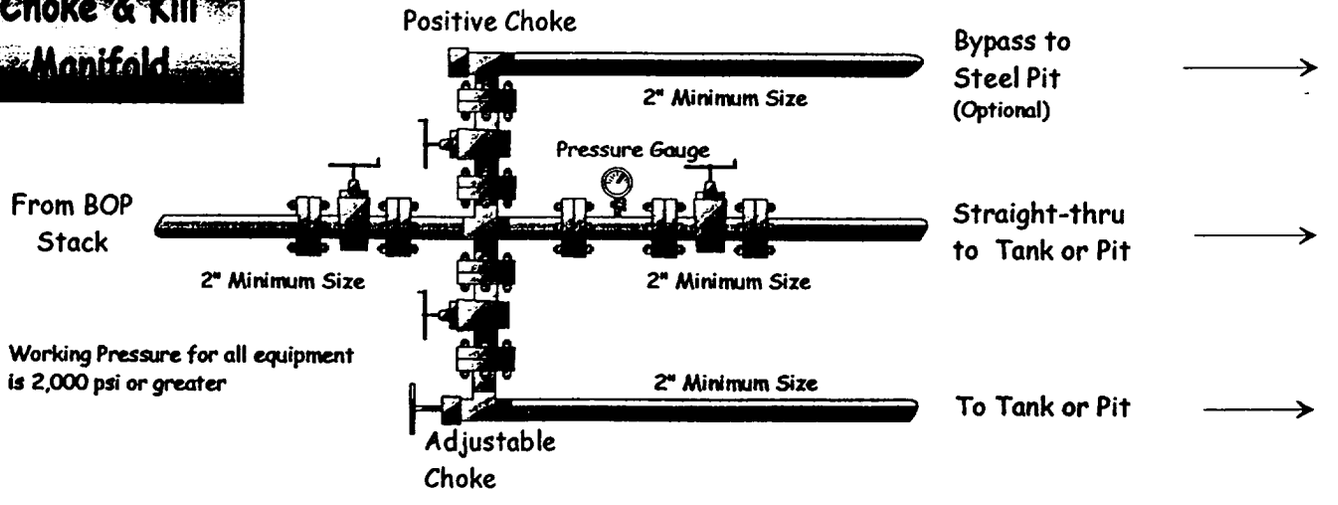
San Juan, New Mexcio

Date: June 26, 2001
By: John Thompson

BOP Stack



Choke & Kill Manifold



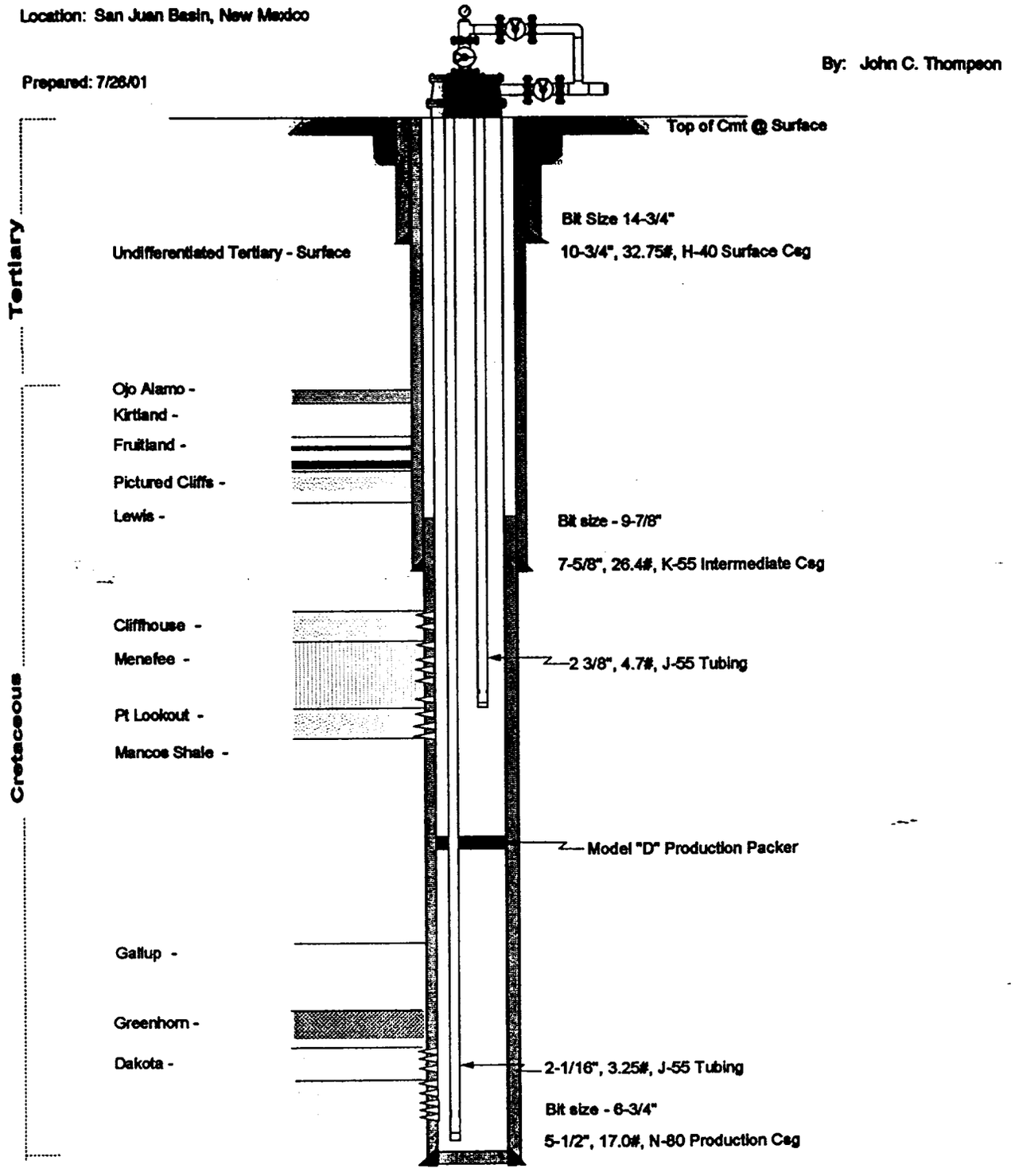
Williams Production Company LLC
Well Bore Schematic
Mesaverde - Dakota Dual Well

Typical Wellbore Configuration

Location: San Juan Basin, New Mexico

By: John C. Thompson

Prepared: 7/26/01



WELL DATA: