OIL CONS. DIV.

DIST. 3

Form 3160-3 (September 2001) UNITED STATES				FORM APPROVI OMB No. 1004-0 Expires January 31,	136	
DEPARTMENT OF THE IN	5. Lease Serial No.					
BUREAU OF LAND MANAC	,	A S S S S S S S S S S S S S S S S S S S	M 7: 1	NMSF-078764 6. If Indian, Allottee or Tribe	e Name	
APPLICATION FOR PERMIT TO DE	KILL OR RE	ENTER				
la. Type of Work: DRILL REENTEI		210 Multin	ple Zone	7. If Unit or CA Agreement, 1 Rosa Unit N M M 8. Lease Name and Well No. 182C		
2. Name of Operator				9. API Well No.		
Williams Production Company, LLC			j	30-039-30	0180	
3a. Address	3b. Phone No.	(include area code)		10. Field and Pool, or Explorat	ory	
P.O. Box 640 Aztec, NM 87410		34-4208		Blanco Mesaverde		
4. Location of Well (Report location clearly and in accordance with any	State requiremen	nts. *)		11. Sec., T., R., M., or Blk. an	d Survey or Area	
At surface 1095' FSL & 1115' FEL At proposed prod. zone 2310' FSL & 1650' FEL				Section 18, 31N, 5W		
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State	
approximately 33 miles northeast of Blanco, New Mexico	-			Rio Arriba	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1095	16. No. of Ac			ing Unit dedicated to this well 83, 31,88 – (S/2)		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50'	19. Proposed	Depth	20. BLM/E	BIA Bond No. on file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		mate date work will s		23. Estimated duration		
6,431' GR	April 1	. 2007		1 month		
	24. Attac	hments				
The following, completed in accordance with the requirements of Onsho	re Oil and Gas (Order No.1, shall be att	ached to this	form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		Item 20 above). 5. Operator certific	ation.	rmation and/or plans as may b	•	
25. Signature	Name ((Printed/Typed)		Date	21 07	
Lava Higgs		arry Higgins			3701	
Title						
Approved by (Signature)	Name	(Printed/Typed)		Date	1 1 =	
Approvedity (signature)	Name ((Friniea/Typea)		Date	3/9/8-	
Title AtM	Office	PHO			7.7.0	
Application approval does not warrant or certify that the applicant holds operations thereon.	legal or equitab	le title to those rights in	n the subject	lease which would entitle the ap	plicant to conduct	

*(Instructions on reverse)

Williams Exploration and Production Company, LLC, proposes to develop the Blanco Mesaverde formation at the above described location in accordance with the attached drilling and surface use plans.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

The well pad surface is under jurisdiction of the BLM, Farmington Field Office.

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Copies of their report have been submitted directly to the BLM and

No access road is needed, as this is a twinned location. A pipeline tie of 182.8 feet would be required for this location. The pipeline would be located on Public lands.

IN TIME TO WITNESS CSQ & committing

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

District I PO Box 1980, Hobbs, NM 88241-1980 State of New Mexico Energy, Minerals & Natural Resources Department Form C-102 Revised February 21, 1994 Instructions on back

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

Submit to Appropriate District Office State Lease - 4 Copies

District III 1000 Rio Brazos Rd., Aztec, NM 87,410 OIL CONSERVATION DIVISION
PO Box 2088 207 JAN 31 AM 7: 12
Santa Fe. NM 87504-2088

7: 12 Fee Lease - 3 Copies

District IV PO Box 2088, Santa Fe, NM 87504-2088 RECEIVED AMENDED REPORT
RCUD MAR12'07

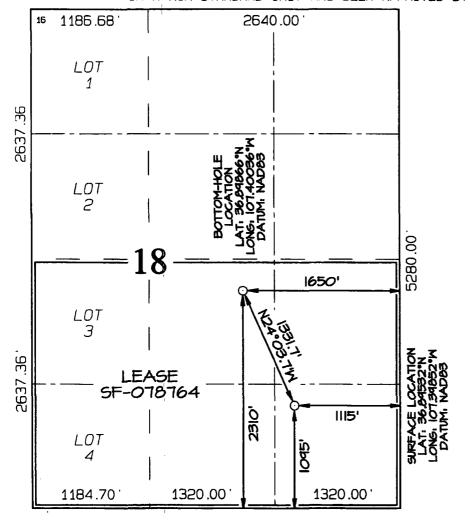
WELL LOCATION AND ACREAGE DEDICATION PLAT OIL CONS. DIV

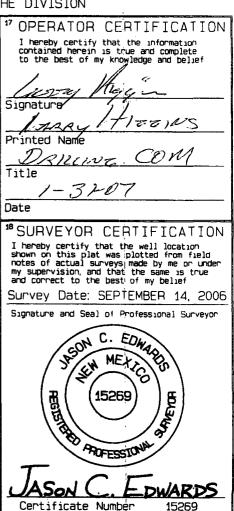
30-639 - 30180	*Pool Code 72319	PDOD NAME DIST. 3 BLANCO MESAVERDE
Property Code 17033	·	rty Name *Well Number 182C
'OGRID No. 120782		tor Name °Elevation DUCTION COMPANY 6431

10 Surface Location
Feet from the | North/South line | F

UL or lot no	Section 18	Townshap 31N	Range 5W	Lot Idn	Feet from the 1095	North/South line SOUTH	Feet from the 1115	East/West line EAST	County RIO ARRIBA
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	18	31N	5W		2310	SOUTH	1650	EAST.	RIO ARRIBA
12 Dedicated Acres		33			²³ Joint or Infill	¹⁴ Consolidation Code	²⁵ Order No.		
1	231.	83 Acre	es - (S	6/2)			N	5P-1816	

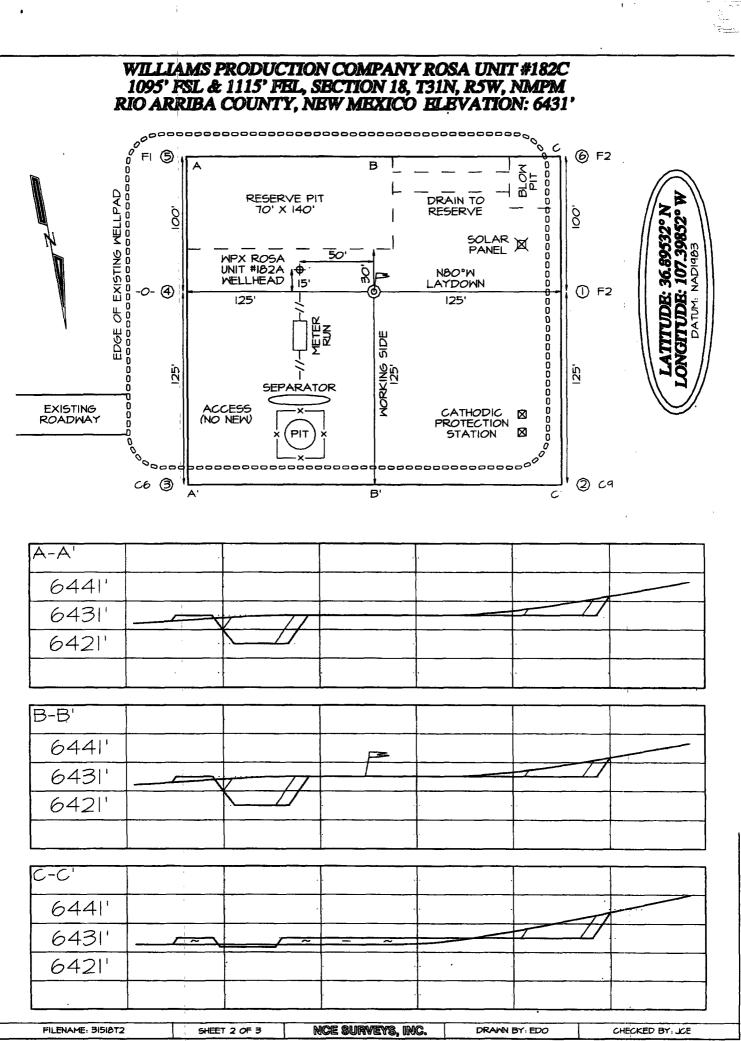
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION





Submit 3 Copies To Appropriate District	State of New	Mexico	Form C-103
Office District I	Energy, Minerals and N	latural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-039-30180
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease FEDERAL X
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. F		STATE FEE
District IV	Santa Fe, NM	1 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505			NMSF-078764
	ICES AND REPORTS ON WE	LLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI			Rosa
PROPOSALS.)	CATION FOR FERMIT (FORM C-10	I) FOR SUCH	8. Well Number
1. Type of Well: Oil Well	Gas Well 🛛 Other		182C
2. Name of Operator	Sunduction Commence II C		9. OGRID Number
3. Address of Operator	Production Company, LLC		120782
	. Box 640, Aztec, NM		Blanco Mesaverde
4. Well Location: Surface			
	feet from the	line and1115	feet from the E line
			County Rio Arriba
	11. Elevation (Show whether		······································
		31' GR	
Pit or Below-grade Tank Application			'
Pit typeDrig/Completion_Depth to G	roundwater_>100 ft_Distance from r	earest fresh water well_>1	000 ft_ Distance from nearest surface water_>500 ft_
Pit Liner Thickness: 12 m	il Below-Grade Tank: Volume	bbls; Consti	ruction Material
12. Check	Appropriate Box to Indicat	e Nature of Notice,	Report or Other Data
NOTICE OF IN	ITENTION TO:	l cup	SEQUENT DEDORT OF
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR	SEQUENT REPORT OF: K
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DR	
PULL OR ALTER CASING	<u></u>	CASING/CEMEN	
	_		_
OTHER:	eleted enemations (Clearly state	OTHER:	d give pertinent dates, including estimated date
			tach wellbore diagram of proposed completion
or recompletion.	ork). SZZ ROZZ 1103. TOT WI	nuple completions. 710	men wendere diagram of proposed completion
•			
D-200 - 10 1 - 1 - 1			
			it multi-use drilling and completion to avoid national to be constructed,
operated and closed in accordar			
• • • • • • • • • • • • • • • • • • • •	•	,	
T	 		
I hereby certify that the information	above is true and complete to the closed according to NMOCD guideli	ne best of my knowledg	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE LOOVING 1	TiggTITLI	E	DATE <u> </u>
Type or print name Larry Higg			om Telephone No. 505-634-4208
For State Use Only		ENGRY FOR & O R & GROWN	SECTION MAD 1
APPROVED BY:	t XI A TITLI	eputy or 8 bas insi E	PECTOR, DIST. 48 DATE MAR 1 4 2007.
Conditions of Approval (if any):			

WILLIAMS PRODUCTION COMPANY ROSA UNIT #182C 1095' FSL & 1115' FEL, SECTION 18, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6431'





WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE:

1/16/2007

FIELD:

Blanco MV

WELL NAME:

Rosa #182C

Rio Arriba, NM

SURFACE:

FED

BH LOCATION:

NWSE Sec 18-31N-5W

MINERALS:

FED

SURF LOCATION:

SESE Sec 18-31N-5W

ELEVATION:

6,431' GR

LEASE#

SF-078764

MEASURED DEPTH:

6,546

I. **GEOLOGY:**

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD	MD	
Ojo Alamo	2,550	2,807	Cliff House	5,485	5,801	
Kirtland	2,670	2,942	Menefee	5,535	5,851	
Fruitland	3,060	3,362	Point Lookout	5,755	6,071	
Pictured Cliffs	3,330	3,641	Mancos	6,075	6,391	
Lewis	3,590	3,590	TD	6,230	6,546	

B. MUD LOGGING PROGRAM: none

C. LOGGING PROGRAM: Cased Hole logs only

D. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING:

- A. <u>MUD PROGRAM</u>: Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7 in. csg.to TD.
- B. <u>BOP TESTING:</u> While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to 250 psi (Low) for 5 minutes and 1500 psi (High) for 10 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. All tests and inspections will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB) GRADE
Surface	12 1/4	300	9 5/8	36 K-55
Intermediate	8 3/4	4,121	7	20 K-55
Liner	6 1/4	4,021 6,546	4 1/2	10.5 J-55

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- 3. <u>PRODUCTION CASING:</u> 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

IV. <u>CEMENTING:</u>

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

- 1. <u>SURFACE</u>: Slurry: <u>150sx</u> (205 cu.ft.) of "Type III" + 2% CaCl₂ + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. <u>INTERMEDIATE:</u> Lead <u>525 sx</u> (1099) cu.ft.) of "Premium Light" with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 50 <u>sx</u> (70cu.ft.) of "Type III" with 1/4# cello-flake/sk (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 1,169 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION LINER: 10 bbl Gelled Water spacer. Cement: 155 sx (323 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 323 ft³. WOC 12 hours

V. 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 is not circulated to surface.

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to max 3300 psi, hold at 1500 psi for 30 minutes..

C. STIMULATION

- 1. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 3. Isolate Point Lookout with a CIBP.
- 4. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 5. Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Mesa Verde:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

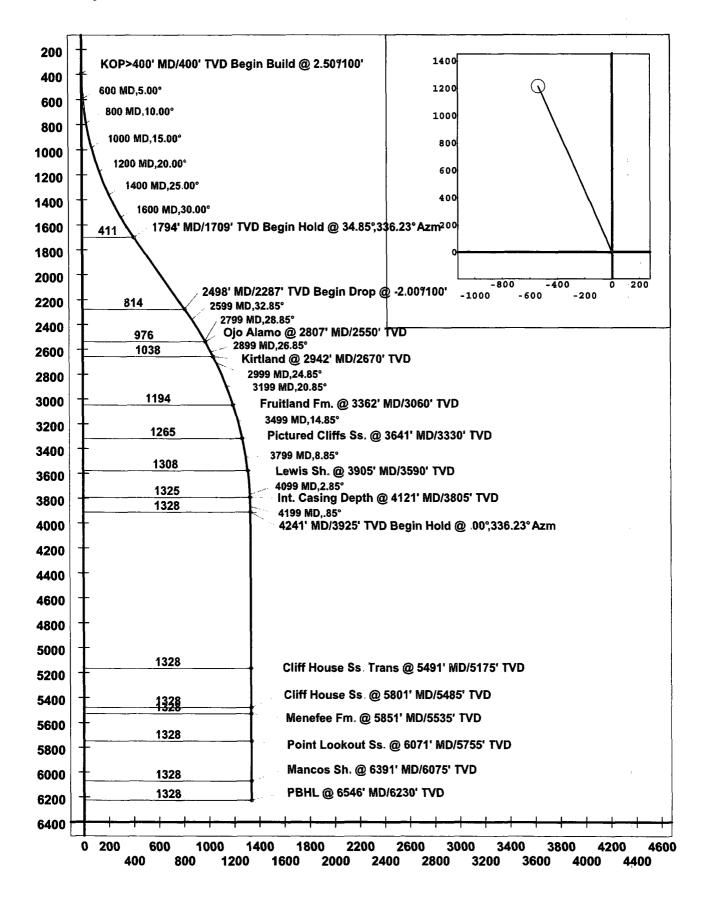
Gary Sizemore

Rosa #182C Dir Ops Plan.doc

Company: Williams Production Lease/Well: Rosa # 182-C Location: Rio Arriba County

State/Country: NM

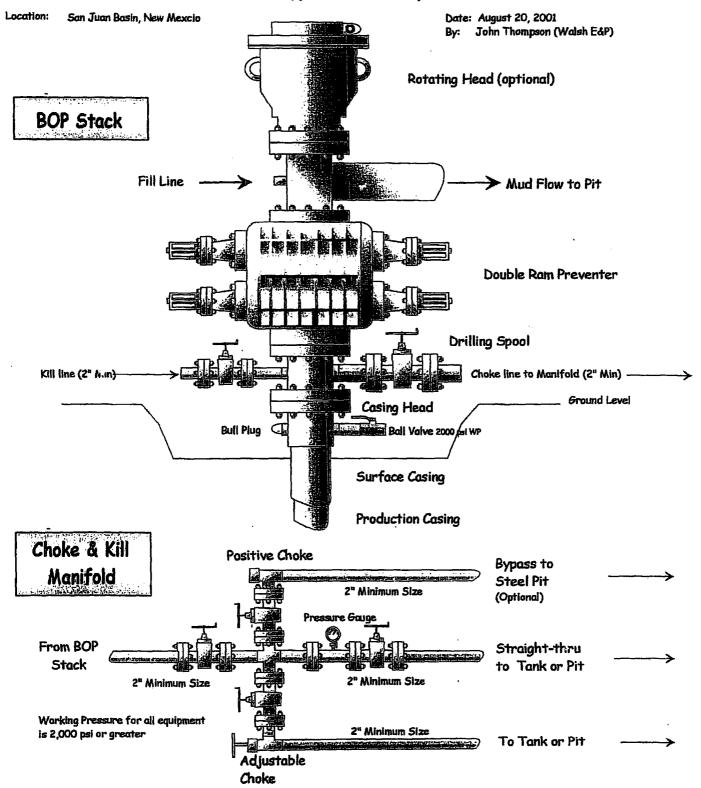




Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup



GENERAL ROSA DRILLING PLAN

Rosa Unit boundries:

T31N, R4W: all except sections 32-36 T31N, R5W: all except sections 1 & 2

T31N, R6W: all except sections 6,7,18,20, & 27-36

T32N, R6W: sections 32-36

FORMATION	LITHOLOGY	WATER	GAS	OIL/COND	OVER-PRES	LOST CIRC
Nacimiento	Interbedded shales, siltstones and	Possible	Possible	No	No	No
	sandstones	<u> </u>			1	
Ojo Alamo	Sandstone and conglomerates	Fresh	No	No	No	No
	with lenses of shale	i				
Kirtland	Shale W/Interbedded sandstones	No	Possible	No	No	No
Fruitland	Inter, SS, SiltSt, SH &Coals w/carb,	Yes	Yes	No	Possible	Possible
	SS, SiltSt, SH	<u> </u>				
Pictured	Massive Sandstone w/thin	Possible	Yes	Possible	No	Possible
Cliffs	interbedded shales					
Lewis	Shale w/thin interbedded sandstones	No	Possible	No	No	No
	and siltstones					
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
Menefee	Sandstones, carb shales and coal	Possible	Yes	No	No	No
Point	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
Lookout	sandstone					
Mancos	Marine shale and interbedded sandstone	No	Possible	Possible	No	Possible
Jpr Dadota	Marine sand and shales	No	Yes	Possible	No	Possible
wr Dakota	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

DRILLING

Potential Hazards:

- 1. There are no overpressured zones expected in this well.
- 2. No H2S zones will be penetrated while drilling this well.

Mud System:

- Surface The surface hole will be drilled with a low-solids, non-dispersed system with starch and lost circulation material as needed. Expected mud weights will be in the 8.4 to 9.0 lb per gal range. Viscosities will be in the 30 to 60 sec/qrt range as needed to remove drill cuttings.
- 2. Intermediate The intermediate hole will be drilled with clear water and Benex to TD where the well will be mudded up to log and run casing. The mud system will be low-solids, non-dispersed with mud weights in the 9 to 10 lb per gal range as needed to control the well. Viscosities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.
- Production The well will be drilled using air from the intermediate casing point to TD. For Fruitland Coal wells, the coal section will be drilled with air/mist.