UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	APPLICATION FOR PERMIT TO DRILL, DE	EPEN,	OR PLUG BACK	PM	13	2
1a.	Type of Work	5	. Lease Number			
ıu.	DRILL		NMSF-0781	341VE)	
			Unit Reporting Nu	mhem T	011 1	134
			070 FAN	MITTER !	UH	,,,
1b.	Type of Well	6	i. If Indian, All. or Tri	ibe		
15.	GAS		. II maian, An Oi III			ব্যস্ত নি বিভ
	OAD				153	2 19 0
2.	Operator		. Unit Agreement Na	mo (R	- Teg. 2	-
۷.	BURLINGTON	•	. One Agreement in		ب. ۱۱	75
	DURLING TOIN			100	fy	1AY 20
	RESOURCES Oil & Gas Company, LP			PCT	W.	<u>.</u>
	A No. 10 Physical December 10 Communication			10		100 m
3.	Address & Phone No. of Operator	8	3. Farm or Lease Nar	· · · · ·	f n	dian-
	PO Box 4289, Farmington, NM 87499	_	Pierce SR	C ``{{{C}'}	*= ;	in na (
	/	9). Well Number	16	ί.	
	(505) 326-9700		#7	1	₹. ³ c.	7 : n3
					· de .	-(1)
4.	Location of Well		0. Field, Pool, Wildo	at		
	Unit B (NWNE), 680' FNL & 1935' FEL,	E	Basin Dakota			
	- F2 4062/W		1. Sec., Twn, Rge, M		PM)	
	Latitude 360 52.4962'N	ß	Sec. 30, T31N,	R10W		
	Longitude 107° 55.2498'W Lat 6	••	0.7	ر د-	-	
		-	API# 30-045- 33	77.(
				, , ,		
14.	Distance in Miles from Nearest Town	1	2. County	13.	State	
		5	San Juan	NM		
	·					
15.	Distance from Proposed Location to Nearest Property or Leas	se Line				
	690′					
16.	Acres in Lease	1	7. Acres Assigned t	o Well		
			DK - _320 :			
			<u> </u>	74		_
18.	Distance from Proposed Location to Nearest Well, Drlg, Comp	pl, or A	pplied for on this Lea	ise		
	Twinned with the Pierce SRC #1B					
19.	Proposed Depth	2	0. Rotary or Cable T	ools		
	7292' Ro	otary	•			
		_				
21.	Elevations (DF, FT, GR, Etc.)	2	2. Approx. Date Wo	rk will S	Start	
	5988'					
23.	Proposed Casing and Cementing Program			**		•
	See Operations Plan attached					
	See operations from accounted		/	,		
			ii/n	nla	1.	
24	Authorized by: Talky Cluston		7/2	U/U	$\boldsymbol{\wp}$	
24.	7		\ 			
	Sr. Regu $m{J}$ atory Specialist	L	Date			
						===
DERM	UT NO - APPROVE					
PEKIN	IIT NO. APPROVAL	LUATE			-/-	-/
ADDD	OVED BY AND THE ARE	U	B	~	//	XX.
AFFR	OVED BY () / (((Cee) TITLE THE	7	DATE		7	
	('			•		
A == ==	valeried Deport etterled					
	neological Report attached					
	Itened and Endangered Species Report attached					
Title 19	: This format is issued in lieu of U.S. BLM Form 3160-3 B U.S.C. Section 1001, makes it a crime for any person knowingly and willfully	to make	to any department or on	anov of th	o Haite	od.
States	any false, fictitious or fraudulent statements or presentations as to any matter	r within ite	s jurisdiction	ericy Of th	ie Unite	z u
J.4103	any management of the second o	* *************************************	gariaulotion.	-		

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 OFR 3165.3 and appeal pursuant to 43 OFR 3165.4



District I PO 80x 1980. Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

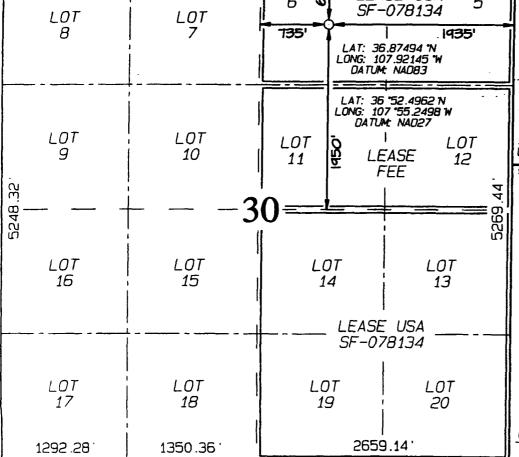
Form C-102 Revised February 21, 1994 Instructions on back

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

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District III 1000 A10 Brazos Ad., Aztec, NM 87410 PO Box 2088 Santa Fe, NM 87504-2088 PR 20 PM 1 32 AMENDED REPORT

District IV PO Box 208 8 ,	Santa Fe.	NM 87504-2		I OCAT	TON AND	-	RECEIVER O FARMINGT	ON NM	NDED REPOR	
	API Numbe 045-3	3715	T	'Pool Coo 71599		Basin Dakota	³Pool Nam			
'Property Code 18601				 	Property Name PIERCE SRC				Well Number 7	
'OGRID No.				NGTON F	"Operator Name TON RESOURCES OIL & GAS COMPANY, LP				*Elevation 5988	
						Location				
U. or lot no.	Section 30	Township 31N	Pange 10W	(G)	Feet from the	North/South line NORTH	Feet from the 1935	East/West line EAST	SAN JUAN	
			ottom		ocation	If Different	From Surf	ace		
UL or lot no. B	Section	Township	Range	Lot Ion	Feet from the	North/South 11/18	Feet from the	East/West line	County	
Oedicated Acres		2.74			¹³ Joint or Infill	⁵⁶ Consolidation Code	²⁵ Order No.		1	
NO ALLOW	IABLE W	ILL BE AS	SSIGNED NON-ST) TO THI ANDARD	IS COMPLET UNIT HAS	ION UNTIL ALL BEEN APPROVED	INTERESTS H BY THE DIVIS	AVE BEEN C	ONSOL IDATED	
1291.6 <i>LOT</i>		1337 LO	7.16 '	L07	LE	74.32 ASE USA LO 1-078134 5	T I hereby contained	ATOR CERT certify that the d herein is true est of my knowler	IFICATION information and complete dige and belief	
8 7			735	LAT: 1 LONG:	LAT: 36.87494 N LONG: 107.92145 W DATUM: NAO83 Patsy Clu		Clugston	higston		
L0T		L0		LO	LONG: 1 DAT	36 "52.4962"N 107 "55.2498"W UM: NAD27 LOT FASE 12	Printed N Sr. Reg Title 4/12/0 Date	gulatory Sp	pecialist	



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. Date of Survey: MARCH 3, 2006 Signature and Seal of Professional Surveyor SEON C. EDWARD EN METIC AND ESSION

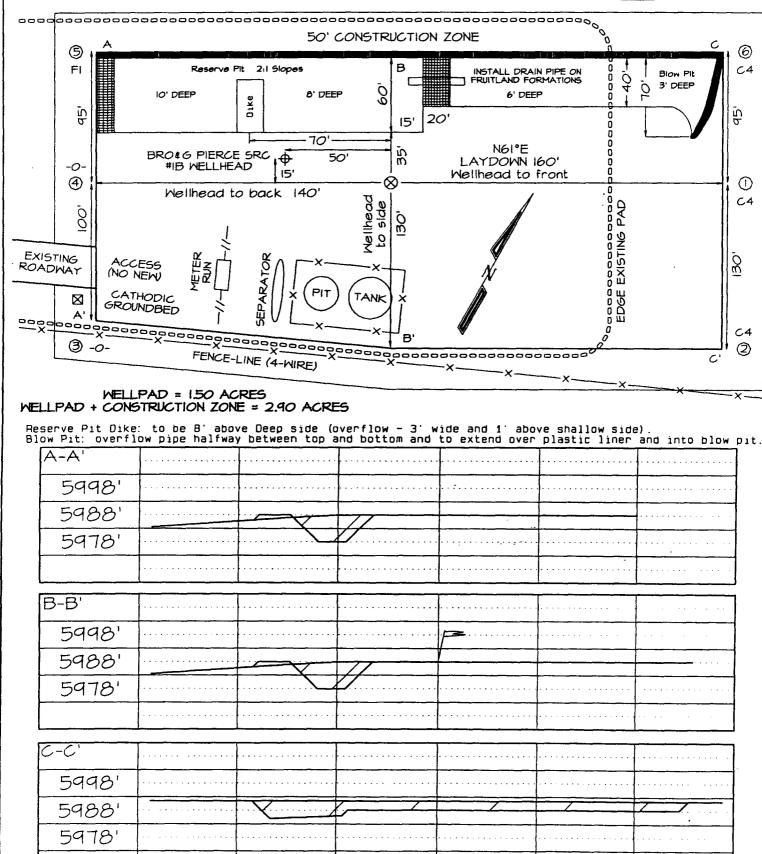
Certificate Number

15269

Office District I	State of New Mexico	Form C-103
District	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 337/5
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV	·	SF-078134
1220 S. St. Francis Dr., Santa Fe, NM 8750 SUNDRY NOTIC	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	, seaso mane or one regression realis
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS"	N FOR PERMIT" (FORM C-101) FOR SUCH	Pierce SRC
PROPOSALS.) 1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	#7
2. Name of Operator		9. OGRID Number
3. Address of Operator	URCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
•	EET, FARMINGTON, NM 87402	Basin Dakota
4. Well Location		
Unit Letter B : Section 30	680' feet from the North line and Township 31N Rng 10W	1935' feet from the <u>East</u> line NMPM County San Juan
	Elevation (Show whether DR, RKB, RT, GR, etc.)	NIVI County San Juni
	5988' GL	
Pit or Below-grade Tank Application	or Closure	>200'
Pit type New Drill Depth to Groundw		>1000' Distance from nearest surface water
Pit Liner Thickness: n/a	mil Below-Grade Tank: Volume	bbls; Construction Material
	Appropriate Box to Indicate Nature of Not	- · ·
NOTICE OF IN		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	PLUG AND ABANDON REMEDIAL COMMENCE	L WORK ALTERING CASING CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	₩ \	EMENT JOB
OTHER: New	Drill X OTHER:	. –
	Drill X OTHER: d operations. (Clearly state all pertinent details, and g	rive pertinent dates including estimated date
	SEE RULE 1103. For Multiple Completions: Attac	
or recompletion.		
New Drill, Unlined:		
	istruct a new drilling pit and an associated vent/flare r	oit. Based on Burlington's interpretation of the
Burlington Resources proposes to co	nstruct a new drilling pit and an associated vent/flare p new drilling pit and vent/flare pit will be an unlined p	
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office.
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the portion will be unlined, as per the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office.
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover I hereby certify that the information abo grade tank has been/will be constructed or clos	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover	new drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria. The control of the procedure dated August 2, 2004 on file the risk ranking criteria.	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office.
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover I hereby certify that the information abo grade tank has been/will be constructed or clos SIGNATURE	rnew drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the late of the procedure dated August 2, 2004 on file the late of the lat	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office. I further certify that any pit or below- or an (attached) alternative OCD-approved plan egulatory Specialist DATE 4/18/2006
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover I hereby certify that the information abo grade tank has been/will be constructed or clos SIGNATURE	rnew drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the late of the procedure dated August 2, 2004 on file the late of the lat	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
Burlington Resources proposes to co Ecosphere's risk ranking criteria, the Workover Pit Construction / Operati designed to manage fluids, and that p according to the Drilling / Workover I hereby certify that the information abo grade tank has been/will be constructed or clos SIGNATURE Type or print name Patsy	rnew drilling pit and vent/flare pit will be an unlined pon Procedures dated November 11, 2004 on file at the portion will be unlined, as per the risk ranking criteria. Pit Closure Procedure dated August 2, 2004 on file the last set according to NMOCD guidelines, a general permit	oit as detailed in Burlington's Revised Drilling / NMOCD office. A portion of the vent/flare pit will be Burlington Resources anticipates closing these pits at the NMOCD office. I further certify that any pit or below- or an (attached) alternative OCD-approved plan egulatory Specialist DATE 4/18/2006

BURLINGTON RESOURCES OIL & GAS COMPANY, LP PIERCE SRC #7, 680' FNL & 1935' FEL SECTION 30, T31N, R10W, NMPM, SAN JUAN COUNTY, NM GROUND ELEVATION: 5988' DATE: MARCH 3, 2006

LATITUDE: 36.87494° N LONGITUDE: 107.92145° W DATUM: NADI983



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

OPERATIONS PLAN

Well Name: Pierce SRC #7

Location: Unit B (NWNE), 680' FNL & 1935' FEL, Sec. 30, T31N, R10W

San Juan County, New Mexico

Formation: Basin Dakota

Elevation: 5988'

Surface	San Jose	•	
Surface	San Jose	1245'	
Ojo Alamo	1245'	1318'	aquifer
Kirtland	1318'	2281'	gas
Fruitland	2281'	2681'	gas
Pictured Cliffs	2681'	2845'	gas
Lewis	2845'	3386'	
Huerfanito Bentonite	3386'	3738'	
Chacra	3738'	4288'	gas
Massive Cliff House	4288'	4495'	gas
Menefee	4495'	4924'	gas
Massive Point Lookout	4924'	5309'	gas
Mancos Shale	5309'	6226'	
Upper Gallup	6226'	6944'	gas
Greenhorn	6944'	6994'	gas
Graneros	6994'	7049'	gas
Two Wells	7049'	7142'	gas
Paguate	7142'	7184'	gas
Cubero	7184'	7303'	gas
Encinal	7303'	7292'	gas
Total Depth:	7292'		gas

Logging Program:

Mud Logs/Coring/DST

Mud logs - none Coring - none

DST - none Open hole - none

Cased hole - Gamma Ray, CBL - surface to TD

Mud Program:

<u>Interval</u>	Type	Weight	<u> Vis.</u>	Fluid Loss
0 - 120'	Spud MUD/Air/Air Mist	8.4 - 9.0	40 - 50	no control
120 - 2945'	LSND	8.4 - 9.0	30 - 60	no control
2945 - 7292'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 120'	9 5/8"	32.3#	H-40
8 3/4"	0' - 2945'	7"	20/23#	J-55
6 1/4"	0' ~ 7292'	4 1/2"	10.5#/11.6#	J-55

Tubing Program:

<u>Depth Interval</u>	<u>Csg.Size</u>	<u>Wt.</u>	<u>Grade</u>
0' - 7292'	2 3/8"	4.7#	J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, BOPE and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 2000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, BOPE and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

Completion Operations -

7 1/16" 2000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, BOPE, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 4 $\frac{1}{2}$ " x 2 3/8" x 2000 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.
- BOP pit level drill will be conducted weekly for each drill crew.
- All BOP tests & drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing

Pre-Set Drilled - Cement with 23 sx Type I, II cement with 20% flyash mixed at 14.5 ppg, 1.61 cu ft per sack yield. (38 cu ft of slurry, bring cement to surface) Wait on cement for 24 hours for pre-set holes before pressure testing or drilling out from under surface.

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake 2% CaCl

Conventionally Drilled - Cement with 88 sx Type III cement with 0.25 pps Celloflake, 2% CaCl. (113 cu ft of slurry, 200% excess, bring cement to surface) Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60 degrees F. prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface. 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.

7" intermediate casing -

Lead with 251 sacks Premium Lite cement with 3% calcium chloride, 0.25 pps Celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate mixed at 12.1 ppg, 213 cf per sack yield. Tail w/90 sacks Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss mixed at 14.6 ppg, 1.38 cf ft per sack yield (124 cu ft 50% excess to circulate to surface). WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC. Test casing to 1500 psi for 30 minutes.

7" intermediate casing alternative two stage -

Stage collar set 300' above the top of the Fruitland. First stage: Lead w/44 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss mixed at 12.1 ppg, 2.13 cu ft per sack yield. Tail w/90 sxs Type III cmt w/1% calcium chloride, 0.25 pps Celloflake, 0.2% fluid loss. Second stage: 207 sacks Premium Lite cement with 3% calcium chloride, .25 pps celloflake, 5 pps LCM-1, 0.4% fluid loss, 0.4% sodium metasilicate mixed at 12.1 ppg, 2.13 cu ft per sack yield (659 cu ft - 50% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo @ 1318'. Two turbolating centralizers at the base of the Ojo Alamo @ 1318'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Pump 284 sxs Premium Lite HS FM w/0.25 pps celloflake, 0.3% CD-32, 6.25 pps LCM-1, 1% fluid loss, 6% gel, 7 pps CSE, mixed at 12.5 ppg, 1.98 cu ft per sack yield (553 cu.ft., 30% excess to achieve 100' overlap in 4-1/2" x 7" annulus). WOC a minimum of 18 hrs prior to completing.

Cementing: Continued

Cement float collar stacked on top of float shoe.

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

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. The liner hanger will have a rubber packoff.

• If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Air/Mist Drilling):

The following equipment will be operational while air/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- The rotating head will be properly lubricated and maintained.
- * A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.

Additional Information:

- The Dakota formation will be completed.
- No abnormal temperatures or hazards are anticipated.
- Anticipated pore pressures are as follows:

Drilling Engineer

Fruitland Coal 300 psi Pictured Cliffs 600 psi Mesa Verde 700 psi Dakota 2000 psi

• 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.

4/20/06

- * The East half of Section 30 is dedicated to the Dakota formation.
- This gas is dedicated.

10-02-9