Form 3160-3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004

5.	Lease	Serial No.	
		A	

NM Ø99731				
6. If Indian,	Allottee or	Tribe	Name	

la. Type of Work: 🛛 DRILL 🔲 REENTER		237	JM 27	AM IO:	279 If Unit or CA Agreeme	ent, Name and No.
. Ib Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other	5 7 .	V	BEOS	YEO	Federal 21-6-19 8. Lease Name and Well N	Vo.
To: Type of Work		Single Zone	Multi		3	
Name of Operator SG Interests I, LTD c/o NIKA Energy Operating		210	FAPidi	PETONI	30-043	-21047
3a. Address	3b. Phone N	o. (include a	rea code)		10. Field and Pool, or Exp	loratory
P.O. Box 2677 Durango, CO 81302	(970)	259-2701			Basin Fruitland Co	al
4. Location of Well (Report location clearly and in accordance with any S	State requiren	nents. *)			11. Sec., T., R., M., or Blk	and Survey or Area
At surface 713' FSL & 743' FWL						
At proposed prod. zone					M Section 19, 21N, 6	w.,
14. Distance in miles and direction from nearest town or post office*					12. County or Parish	13. State
approximately 15 miles south of Counselors, New Mexico					Sandoval	NM
15. Distance from proposed* location to nearest	16. No. of	Acres in leas	se	17. Spacing	g Unit dedicated to this well	
property or lease line, ft.					220 1/2	
18. Distance from proposed location*	1,319.0			S/2	320.40	
to nearest well, drilling, completed,	19. Propos	ed Depth		20. BLM/B	IIA Bond No. on file	
applied for, on this lease, ft. See attached map	900'			P IR O	003277 NM 255	:9
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	ximate date	work will st		23. Estimated duration	,
6,745 GR	as so	on as perm	nitted		1 month	
	24. Atta	chments				
The following, completed in accordance with the requirements of Onshore	e Oil and Gas	Order No.1	, shall be atta	ched 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 I SUPO shall be filed with the appropriate Forest Service Office). 	ands, the	5. Opera	i 20 above). ator certifica	ntion. pecific info	unless covered by an exist	`
25. Signature	Name	e (Printed/Ty)		**	Dh	te 1
Ma)		William Sc	•		اما	7505/15
Title						
President NIKA Energy Operating/ Agent for SG Interests I,	LTD					
Approved by (Signature)	Nam	e (Printed/Ty _j	ped)		Dat	8/2/07
Fichma Dan Mussala	Offic	ee				,
Application approval does not warrant or certify that the applicant holds to operations thereon.	egal or equita	ble title to th	nose rights in	the subject l	ease which would entitle the	applicant to conduct
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to				d willfully to	make to any department or	agency of the United
*(Instructions on reverse)					,	
SG Interests I, LTD. proposes to drill a well to develop the Basin Fruitland Coal formation at the above described location in accordance with the attached drilling and surface use plans.						
The surface is under jurisdiction of the Bureau of Land Manageme	nt, Farming	ton Field O	ffice.		OIL (.0115. DIV.
This location has been archaeologically surveyed by Aztec Archae	ological Co	nsultants. C	Copies of th	eir report ha	ave been submitted direct	ly to the BLM.
			يعجون نوال	~	integra)ST. 3
NOTICY ATTA		(0.0) 24	4 hth	5 .		

PRIOR TO CASING & CEMENT

RCVD AUG3'07

NMOCD 08:00-07

Revised June 10, 2003 1625 N. French Dr., Hobbs, NM 88240 Energy, Minerals & Natural Resources Department Submit to Appropriate District Office OIL CONSERVATION DIVISION 1301 W. Grand Avenue, Ariesia, NM 89210 State Lease - 4 Copies 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 District IV AMENDED REPORT 1220 S. St. Francis Dr. Sauta Fc, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PL Pact Code API Numi 71629 . Well Number Property Name Property Code 3 36638 FEDERAL 21-6-19 Elevation Operator Name OGRID No. 6745 SG INTERESTS I. LTD 20572 Surface Location Count East/West line Feet from the North/South Rac Ruge Lot ide Feet from the UL or lot no. Section Township Sandoval West 743 South 19 21N 6W 713 Bottom Hole Location If Different From Surface County East/West line North/South line Feet from the ot Ide UL or lot no. Section Township "Octer No. Consolidation Code Dedicated Acres "Joint or Infill 320.46 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL DITERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION 39.98 Ch. 19.99 Ch. OPERATOR CERTIFICATION 19.84 Ch. N 88°53' W I hereby certify that the information contained herein is true and complete to the best of my knowledge and See correct plat on next page 80 76 Ch દ Lot 2 Sec. 18SURVEYOR CERTIFICATION 19 I hereby certify that the well lacation shown on this plat was plotted from field notes of actual surveys made by Lot 3 sion, and that the same is true 0°12' Lot 4 Lat.36.03125° N Long.107.51719° W 743 N 89°07' W 39.95 Ch resulmit

State of New Mexico

District I

Form C-102

District f

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztoc, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

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 October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code API No Pool Name 71629 FRUITLAND COAL Property Code Property Name Well Number 3 FEDERAL 21-6-19 OGRID No. Operator Name 020572 SG INTERESTS I, LTD 6745 10 Surface Location UL or let no. East/West lin County Let Ide Feet from the Township 21N 6W 4 19 South 743 West Sandoval ¹¹ Bottom Hole Location If Different From Surface

UL or lot so. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County

"Dedicated Acres Joint or Infill Consolidation Code Order No.

"Order No.

OIL CONS. DIV.

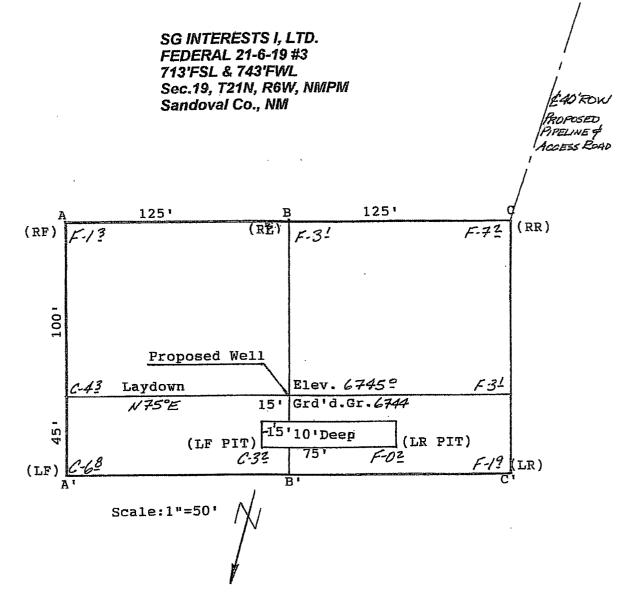
DIST. 3

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.

16 19.84 Ch. Lot 1 40 92 08	19.99 Ch. N 88°53'	W 39.	80.51 Ch.	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 argentization either owns a working interest or unleased interest in the land including the proposed bottom hale location or has a right to drift this well at this location pursuant to a contract with an owner of such a interest or working interest, or to a voluntary pooling agreement or a compulsory pooling order hebetofore entered by the division.
Lot 2	Sec.			Signature Deter William Shumbar
0°05′ E Fot 3		19	0°12'W	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 corregt to the bast of my belief.
Z Lot 4 743' m	Lat.36.03125° N Long.107.51719° W 19.97 Ch. N 89°07'	' <i>W</i> 39	95 Ch.	Signature and Scalaf People and Survivor. Signature and Scalaf People and Survivor. Certificate Number 8466

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	State of New Me	X1CO	Form C-	
Office <u>District I</u>	Energy, Minerals and Natur	ral Resources	May 27,	2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-043-21647	,
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of Lease	
District III	1220 South St. Fran	icis Dr.	STATE FEE FED 2	x
1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>	Santa Fe, NM 87	7505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM	· ·		Federal NMNM 099731	ļ
87505 SUNDRY NOTI	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name	ne
	SALS TO DRILL OR TO DEEPEN OR PLU		Fodoral 21/6 10ED	1
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	CATION FOR PERMIT" (FORM C-101) FO	OR SUCH	PECIFIAL AT-U-19	
	Gas Well Other	•	8. Well Number #3	İ
2. Name of Operator SG Inter	ests I, Ltd		9. OGRID Number '	
			10 D 1 WY11	_
3. Address of Operator	DO D. 2/22 D	01202	10. Pool name or Wildcat	
	PO Box 2677, Durango, CO,	81303	Basin Fruitland Coal	
4. Well Location		N C + C + A + XXI		
	et from theSouth_ line and743	_	· 	
Section 19 Towns	ship 21N Range 6W	NMPM	County Sandoval	. 27 . 24 %
	11. Elevation (Show whether DR, 6.745'	KKB, K1, GK, etc.)	1.0	
Pit or Below-grade Tank Application 🛛 o				
		ater well >1,000 ft Di	stance from nearest surface water_>500 ft	
Pit Liner Thickness: 12 mi	*		nstruction Material <u>Synthetic</u>	
12. Check A	Appropriate Box to Indicate N	ature of Notice,	Report of Other Data	
NOTICE OF IN	ITENTION TO:	SUBS	SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🔲	REMEDIAL WORK		
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB	
OTHER: Pit Application	×	OTHER:		П
	Ban-1		give pertinent dates, including estimated	d date
	ork). SEE RULE 1103. For Multipl	le Completions: Att	ach wellbore diagram of proposed comp	letion
or recompletion.				
Drilling/Completion nit to be least	tod approximately 15 feet from w	ell head. Dit multi	-use drilling and completion to avoid	
			tubing set. Pit to be 75 feet long by	
			tabiling cot. I it to be 10 lock long by	15
	be constructed, operated and clo	sed in accordance		15
procedures	pe constructed, operated and clo	sed in accordance	with NMOCD guidelines and SGI	15
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,			e with NMOCD guidelines and SGI	
I hereby certify that the information	above is true and complete to the be	est of my knowledge		elow-
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the be closed according to NMOCD guidelines [2]	est of my knowledge ☑, a general permit □	e with NMOCD guidelines and SGI e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved plan	elow-
I hereby certify that the information	above is true and complete to the be closed according to NMOCD guidelines [2]	est of my knowledge	e with NMOCD guidelines and SGI e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved plan	oelow-
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I hereby certify that the information grade tank has been/will be constructed or SIGNATURE Type or print name William Schw	above is true and complete to the beclosed according to NMOCD guidelines TITLE A	est of my knowledge ☑, a general permit ☐ Agent for SG Inte pp@nikaenergy.com	e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved planerests, Ltd. DATE Telephone No. 970-259-270	oelow- ı 🗀.
I hereby certify that the information grade tank has been/will be constructed or SIGNATURE	above is true and complete to the beclosed according to NMOCD guidelines TITLE A ab III E-mail address: trip	est of my knowledge Agent for SG Interpop@nikaenergy.com	e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved planerests, Ltd. DATE To Tool Tool Tool Tool Tool Tool Tool	oelow- ı 🗀.
I hereby certify that the information grade tank has been/will be constructed or SIGNATURE Type or print name William Schw For State Use Only APPROVED BY:	above is true and complete to the beclosed according to NMOCD guidelines TITLE A	est of my knowledge ☑, a general permit ☐ Agent for SG Inte pp@nikaenergy.com	e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved planerests, Ltd. Telephone No. 970-259-270 as Inspector,	relow- 1 🔲.
I hereby certify that the information grade tank has been/will be constructed or SIGNATURE Type or print name William Schw For State Use Only	above is true and complete to the beclosed according to NMOCD guidelines TITLE A ab III E-mail address: trip	est of my knowledge Agent for SG Interpop@nikaenergy.com	e and belief. I further certify that any pit or bor an (attached) alternative OCD-approved planerests, Ltd. DATE To Tool Tool Tool Tool Tool Tool Tool	oelow- ı 🗀.



A-A'	Vert.: I" = 30' Horiz.: I" = 5.0 ' C/L
6750	
6740	
B-B'	
6750	 - - - -
6740	
	F+
C-C'	
6750	
670	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NIKA ENERGY OPERATING, LLC SG INTERESTS I, LTD.

WELL NAME:

Federal 21-6-19#3

FIELD NAME:

Basin Fruitland Coal

LOCATION:

Sec 19, T21N, R7W

UL

Sandoval County, New Mexico

PROPOSED TD:

6/5' 900'

DRILLING SKELETON:

<u>Interval</u>	Hole <u>Size</u>	Casing <u>Size</u>	<u>Depth</u>	
Surface	12-1/4"	8-5/8"	180'	
Production	7-7/8"	4-1/2"	900'	

MUD PROGRAM:

<u>Interval</u>	Mud	Mud	Funnel	Water
	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Loss</u>
0 - 150'	Native	8.5 - 9.1	30 - 50	N/ <i>C</i>
150'-1000' 900'	Native/LSND	8.5 - 9.1	30 - 50	8 - 10

CORE PROGRAM: None

ELECTRICAL LOGGING PROGRAM: Openhole logs will include a GR/Caliper and a Formation Density log from TD to the surface casing shoe.

Fruitland Drilling Program - Federal 21-6-19#3 Page 2

CASING AND CEMENTING PROGRAM:

<u>Interval</u>	Size, Wt, Grade, Thread	<u>Depth</u>	<u>Cement</u>
Surface	8-5/8", 24#, J-55, ST&C	180'	127 sx Class B. 2% CaCl, ¼#sx celloflake
Production	4-1/2", 10.5#, J-55, ST&C	TD	260 sx Class B. \frac{1}{4}#sx celloflake, 3# gilsonite

WELLHEAD:

3000# Independent Style

BLOWOUT PREVENTION EQUIPMENT REQUIREMENTS:

Description	<u>Rating</u>
Double Ram Type Preventer	2000 psi
Rotating Head	2000 psi

BOPE testing will be done by third party testers in accordance with Onshore Order No. 2. The test must be performed and recorded using a test pump, calibrated test gauges and properly calibrated strip or chart recorder. The test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. The test must be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for 5 minutes and a high pressure test requirement held for 10 minutes. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the test.

Fruitland Drilling Program - Federal 21-6-19#3 Page 3

GEOLOGIC PROGNOSIS:

Elevations:

GL ~ 6745'

Formation Tops:

<u>Formation</u>	<u>Depth</u>
Ojo Alamo	150'
Kirtland	300'
Fruitland	475'
Coal Top	675'
PC	700'
Total Depth	900'

Note: TD will be 200' below the lowest coal. The company man will be on location once coals are penetrated until TD to monitor drilling breaks and to insure that 200' of rathole is drilled. When the hole is logged, if a coal zone is indicated within 150' of bottom, additional hole is to be drilled to provide 200' of rathole.

MUD PROGRAM:

A fresh water native mud (using lime, benex & gel additions) will be used to drill the surface hole. The 7-7/8" hole should be drilled with native mud and a LSND mud as necessary for hole stability just before the top of the Fruitland formation is encountered.

At the top of the Fruitland formation mud weights should be sufficient to control pressures; viscosity should be in the 30 - 50 sec range with a water loss of 8 - 10 cc, as needed.

The Fruitland Coals are expected to be under-pressured to normal-pressured and may encounter lost circulation. LCM should be stored on location and used as needed in the event of lost circulation. Barite should also be on location in the event an over-pressured zone is encountered and a kick is taken.

Fruitland Drilling Program - Federal 21-6-19#3 Page 4

CASING AND CEMENTING PROCEDURE:

Note: Notify BLM 24 hours prior to spud and testing of BOP's and cementing. 505-599-8907. Note the new (June 1, 2005) Federal (BLM) requirements for the testing and test recording of the Blow-out Preventer Equipment. A copy is attached to the approved APD.

Surface Casing:

- 1. Drill to a minimum of 180' to accommodate tallied 8 5/8" casing plus 3'. Casing tally to be taken on location.
- 2. Use a landing joint of 8 5/8" casing to set casing at ground level. Guide shoe on casing should be not more than 2 feet off bottom. Casing head flange to be set at ground level.
- 3. Displace hole with casing volume of fresh water ahead of cement.
- 4. Pump Class B cement with 2% CaCl at 5-7 barrel per minute.
- 5. Drop top plug and displace with fresh water when preflush returns are observed at the surface. Do not over-displace.
- 6. If plug does not bump, hold pressure for a minimum of three hours.
 - a. Wait on cement a minimum of 8 hours or until surface samples are hard *, whichever is longer <u>before</u> nippling up the BOP. Pressure test casing and BOP to 1500 psig for 30 minutes. Low pressure test BOP and Casing 250# for 10 minutes.
 - 1. * Note: The BLM requirement is a minimum of 250 psi @ 60degrees F compressive strength <u>before</u> BOP may be nippled up.
 - 2. Notes: Use a standard 8 5/8" guide shoe, an 8 5/8" insert float, 3 centralizers and 1 stop ring. Set insert on top of first joint. Bakerlok shoe, float collar and bottom two joints of casing.

<u>Production Casing:</u>

- 1. Roll casing off truck with thread protectors in place.
- 2. Visually inspect, rabbit, number, and tally casing on racks. Remove thread protectors and clean threads. Use quick release protectors while running casing. Do not move or roll casing without thread protectors in place.
- 3. Change out pipe rams to accommodate 4-1/2" casing.
- 4. Bakerlok 4-1/2" float shoe to bottom of first joint of casing.
- 5. Bakerlok 4-1/2" differential float collar to top of first joint of casing. Bakerlok second joint of casing into top of float collar. Run "marker joint" 100' above top coal as per openhole logs.
- 6. Casing should be made up to proper torque (1320 ft-lb for 10.5# or 1540 ft-lb for 11.6#) using an API thread compound.
- 7. Casing should be run no faster than 2 feet per second (20 seconds per 40 foot joint). At the first indication of mud loss, the running time should be doubled to 40 seconds per joint (1 foot per second).
- 8. Break circulation at 500 feet and one joint above TD. Circulate a minimum of 15 minutes. Make sure that the hole is not flowing. Adjust mud properties as necessary. Circulate the last joint of casing to TD. Kick pumps in slowly to minimize surge pressures.
- 9. Turbolizing centralizers should be run on each of the first 10 joints and joint 12, 14, and 16. A stop-ring should be used to hold the first centralizer in place. Place the remaining centralizers on collars.
- 10. After casing is landed at TD, circulate hole until mud properties measured at the flowline are within the ranges given in the "Mud Program" of this drilling prognosis.
- 11. Rig up rotational cementing head and return lines. Chixson should be long enough to allow 25'-30' reciprocation.
- 12. Pump 10 barrels of fresh water. Pump 20 barrel chemical wash. Pump cement slurry. Wash lines.
- 13. Drop top plug and displace with water. Do <u>not</u> over-displace. Pipe should be rotated at 10-20 RPM or reciprocated at least 20 feet every two to three minutes throughout displacement.
- 14. Bump plug with 500 psi over final displacement pressure. Hold pressure for 5 minutes. If plug does not bump, hold initial shut down pressure on casing for 5 minutes. Then check to see that float is holding (flow back into cement pump tank).

SG Interests I, Ltd. (Agent: Nika Energy Operating, LLC) PO Box 2677 Durango, CO 81302 (970) 259-2701

Federal 21-6-19 #3 SW Sec 19-21N-R6W 713' FSL & 743' FWL Sandoval County, New Mexico

EIGHT POINT DRILLING PROGRAM

1. Estimated Formation Tops:

2.

Ojo Alamo	150'
Kirtland	300'
Fruitland	475'
Coal Top	675'
PC	700'
Total Depth	900'

3. Estimated Depth of Anticipated Minerals:

Fruitland (Gas)

675'

4. Minimum Specifications for Pressure Control Equipment:

BOP equipment and accessories will meet or exceed BLM requirements outlined in 43 CFR Part 3160.

A 2000 psig double ram hydraulic BOP will be used (see attached diagram). Accessories to the BOP will meet BLM requirements for a 2000 psig system. The accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill line, kill line and line to choke manifold will be 2". BOP's will be function tested every 24 hours and will be recorded on IADC log.

Surface casing will be tested to 1500 psig for 30 minutes.

Eight Point Drilling Program - Federal 21-6-19 #3 Page 2

Accessories to BOPE will include upper and lower Kelly cocks with handles, stabbing valve to fit drill pipe on floor at all times, string float at bit, 2000 psig choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge.

5. Casing and Cementing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>Csg Size</u>	<u>Wt, Grd, Jt</u>
12-1/4"	0-180′	8-5/8"	24#, J-55, STC
7-7/8"	0-8Ø0' 400'	4-1/2"	10.5#, J-55, STC

Surface Casing will be cemented with 127 sx (150 cu ft) class B w/2% CaCl and 1/4#/sx of celloflake (Yield = 1.18 cuft/sx, Weight = 15.6 #/gal). Cement volumes include excess to circulate cement to surface. A guide shoe, insert float and three (3) centralizers will be used. WOC time is 8 hours. The casing will be pressure tested to 1500 psig.

Production Casing will be cemented with 260 sx (307 cu ft) class B w/2% CaCl and 1/4#/sx celloflake (Yield = 1.18 cuft/sx, Weight = 15.6 #/gal). Cement volume includes excess to circulate cement to surface. In the event cement is not circulated a temperature survey will be run to determine the actual cement top. Cementing equipment will include a guide shoe, float collar and 7 centralizers. Class G or H cement may be used depending on availability of Class B.

6. Mud Program:

A native water based mud system (FW) will be used initially followed by a low-solids, non-dispersed gel system (LSND) as needed to condition the hole for logs. Adequate amounts of lost circulation and weighting material will be on location if needed as well as sorbitive agents to handle potential spills of fuel or lubricants.

<u>Depth</u>	Type	Wt (ppg)	<u>Vis (sec)</u>	Wtr loss
0-180'	FW	± 8.5	30-33	NC
180'-TD	FW & LSND	± 8.7-9.1	30-50	8-10 cc

Eight Point Drilling Program - Federal 21-6-19 #3 Page 3

7. Testing, Coring and Logging Program:

No DSTs or cores are planned. Openhole logs will include GR, Induction, Density and Caliper Logs. The GR-Density logs will be run from TD to the top of the Fruitland formation. GR-Induction-Caliper logs will be run from TD to the bottom of the surface casing.

8. Anticipated Abnormal Pressures and Temperatures:

No abnormal pressures or temperatures are expected in this well. Maximum anticipated Fruitland reservoir pressure is 300 psig with a normal temperature gradient.

9. Operations:

Anticipated spud date is July 2007 or as soon as permits are received and work can be scheduled. Estimated drilling time is 4 - 5 days. The Fruitland will be completed as a cased hole completion, perforated and hydraulically fracture stimulated. Completion operations are expected to take 5 - 7 days and will commence as soon after completion of drilling operations and scheduling allow.

