Form 3160-3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR

APPLICATION FOR PERMIT TO DRILL OR REENTER Ia. Type of Work: DRILL	BUREAU OF LAND MANAGEMEN I				(Gill	HAHO,
In Type of Work: DRILL	APPLICATION FOR PERMIT TO DR	7.0	ibe Name			
1b. Type of Well: Oil Well Gas Well Other Single Zofe: Multiple Zone S. Lease Name and Well No.				_m_		
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10. Type of Well: Oil Well	ia. Type of Work: 🔯 DRILL 🔲 REENTER		n m n	رود ده و ر و سود این	\ \frac{1}{2}	2/2 02 CI SI 100
10. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone 2. Name of Operator S.G. Interests L. TD. c/o NIKA Energy Operating S.G. Interests L. TD. c/o NIKA Energy Operations S.G. Interests L. TD. c/o NIKA Energy Operation			MEU	SELACO.		A COLON
3a. Address 3a. Address P.O. Box 2677 Durango, CO 81302 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1980' FNL & 660' FWL At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* approximately 17 miles southeast of Corrales, New Mexico 15. Distance from proposed* location to nearest property or lease line, ft. (Als to nearest drig, unit line, if any) 16. No. of Acres in lease location to nearest mell, drilling, completed, applied for, on this lease, ft. See attached map 19. Proposed Depth 20. BLM/BIA Bond No. on file 19. Proposed Depth 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 15. months 24. Attachments 16. No. of Acres in lease 17. Spacing Unit dedicated to this well 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. on file 19. Proposed Depth 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments 24. Attachments 25. Vengture/ Printe//Twold 18. Distance from proposed location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).	1b. Type of Well: Oil Well Gas Well Other	×	Single Zone [O Multip	le Zone	2	•
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25. Signature Name (Printed/Typed) Date 1.28/0/2						be required by the
[1]28/da	25. Signature	Nan	ne (Printed/Tyned)		Date	
William Schwah III	Wid Thursbury	. 1001	William Schwab III_			28/00

Title

Approved by (Signature)

Name (Printed/Typed) Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease 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 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

operations thereon.

Title

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 Management, Farmington Field Office.

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

Expires

5. Lease Serial

^{*(}Instructions on reverse)

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1361 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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 June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

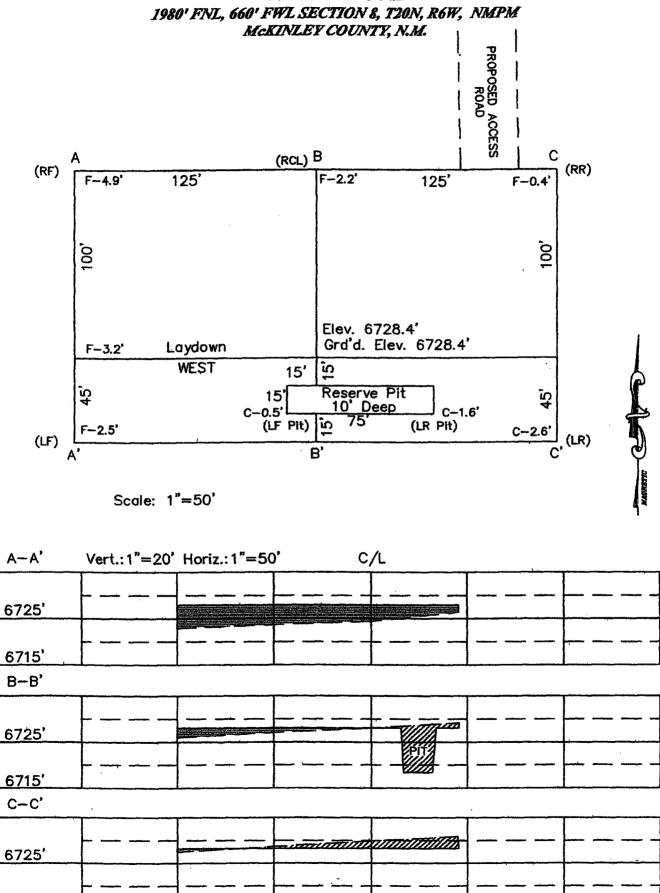
Fee Lease - 3 Copies

1220 S. St. Francis	Dr., Santa F	e, NM 87505						LIAM	ENDED KELOKI
		V .	ELL LO	CATIO	N AND ACR	EAGE DEDIC	ATION PLAT		
30-0	APT Number	71093	,	1001 Code 71626		Basin fru	Pool Name	oal	
3591	Dode 2				EDERAL 2	tame 20-6-8			Well Number 2
2057	No.		'Operator Name 'Revation 6728'						
10 Surface Location									
UL or lot no. E	Section 8	Township 20N	Range 6W	Let lds	Feet from the 1980	North/South line NORTH	Feet from the 660	Elest/West like WEST	McKINLEY
				ottom Ho	le Location I	Different Fron	n Surface		
UL er lot no.	Section	Township	Range		Fect from the	North/South line	Feet from the	East/West lies	e County
"Dedicated Acres	Joint or	r Infill "C	onsolidation	Code 18 On	der No.				
NO ALLOWA	BLE WI	LL BE ASS	IGNED T	O THIS C	OMPLETION U	NTIL ALL INTE	RESTS HAVE B	EEN CONSOLI	DATED OR A N

N-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION **OPERATOR CERTIFICATION** 80.08 ch. N 89'57' W I hereby certify that the information contained herein is 80.0 ch. LAT. 35.98115" N 107.50281" W 660' 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat N OODS, M was platted from field nates of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. WILLIAM E MAHNKE I 8466 79.96 ch N 89'58' W

Submit 3*Copies To Appropriate District Office District I	State of New Me Energy, Minerals and Natu		Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM	OIL CONSERVATION 1220 South St. Fra Santa Fe, NM 8	ncis Dr.	WELL API NO. 30-031-21093 5. Indicate Type of Lease STATE FEE FED X 6. State Oil & Gas Lease No. Federal NM 113428
(DO NOT USE THIS FORM FOR PROPOSITION OF THE PROPOSALS.) 1. Type of Well: Oil Well		UG BACK TO A	7. Lease Name or Unit Agreement Name Federal 20-6-8 8. Well Number #2 9. OGRID Number
3. Address of OperatorC/O Nika Energy Operating,4. Well Location	PO Box 2677, Durango, CO,	81303	10. Pool name or Wildcat Basin Fruitland Coal
Section 8 Townsh		NMPM , RKB, RT, GR, etc.)	County McKinley
Pit Liner Thickness: 12 mi	Below-Grade Tank: Volume	1000 Bbls; Co	onstruction Material <u>Synthetic</u>
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING OTHER: Pit Application	Appropriate Box to Indicate NITENTION TO: PLUG AND ABANDON □ CHANGE PLANS □ MULTIPLE COMPL □		SEQUENT REPORT OF: K
13. Describe proposed or comp	leted operations. (Clearly state all	pertinent details, and	d give pertinent dates, including estimated date tach wellbore diagram of proposed completion
Drilling Pit application for New We	11.		
	closed according to NMOCD guidelines		e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan erests, Ltd. DATE
Type or print name For State Use Only William Schw	- /	pp@nikaenergy.con	Alig 0 3 2006
APPROVED BY: Conditions of Approval (if any):	TITLE	Trung are coan in	DATE DATE

SG INTERESTS I, LTD. FEDERAL 20-6-8 #2



6715'

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

Federal 20-6-8 #2 SWNW Sec 8-20N-R6W 1980' FNL & 660' FWL McKinley County, New Mexico

EIGHT POINT DRILLING PROGRAM

1. Estimated Formation Tops:

Ojo Alamo surface
Kirtland 105'
Fruitland 280'
PC 505'
Total Depth 655'

2. Estimated Depth of Anticipated Minerals:

Fruitland (Gas)

480'

3. 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 20-6-8 #2 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.

4. Casing and Cementing Program:

<u>Hole Size</u>	<u>Interval</u>	<u>Csg Size</u> ኢ"	Wt, Grd, Jt
12-1/4"	0-150'	大" 名号(8")	20#, J-55, STC
7-7/8"	0-655'	4-1/2"	10.5#, J-55, STC

Surface Casing will be cemented with 140 sx (165 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 80 sx (118 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.

5. 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
0-150'	FW	± 8.5	30-33	NC
150'-TD	FW & LSND	± 8.7-9.1	30-50	8-10 cc

NIKA ENERGY OPERATING, LLC SG INTERESTS I, LTD.

WELL NAME:

Federal 20-6-8 #2

FIELD NAME:

Basin Fruitland Coal

LOCATION:

Sec 8-T20N-R6W

UL E; 1980' FNL & 660' FWL McKinley County, New Mexico

PROPOSED TD:

655'

DRILLING SKELETON:

Interval	Hole <u>Size</u>	Casing <u>Size</u>	<u>Depth</u>
Surface	12-1/4"	8-5/8"	150'
Production	7-7/8"	4-1/2"	655'

MUD PROGRAM:

Interval	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' - TD	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 DIL/Formation Density log from TD to the surface casing shoe

CASING AND CEMENTING PROGRAM:

Interval	Size, Wt, Grade, Thread	<u>Depth</u>	Cement
Surface	8-5/8″, 20# , J-55, ST&C	150'	140 sx Class B w/2% CaCl + 1/4#/sx celloflake
Production	4-1/2", 10.5#, J-55, ST&C	TD	80 sx Class B. Both slurries to contain 1/4#/sx celloflake.

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.

GEOLOGIC PROGNOSIS:

Elevations:

GL ~ 6728', KB ~ 6733'

Formation Tops:

<u>Formation</u>	<u>Depth</u>
Ojo Alamo	surface
Kirtland	105'
Fruitland	280'
Coal Top	480'
PC	505'
Total Depth	655'

Note: TD will be 150' 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 150' 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 150' of rathole. Log of offset well(s) (Federal 20-6-4 #4, Federal 20-6-3 #3) are enclosed for correlation.

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.

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 150' 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. Install test plug in casing head and pressure test stack to 2000 psig for 30 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, a 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.

Production Casing:

- 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 300 feet and 550 feet and 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 7 joints. 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).

<u>Production Casing cont.</u>

15. Set slips, cut off casing and nipple down BOP. A thread protector or some other appropriate obstruction should be place on the top of the casing stub to prevent loss of material downhole

Cement Slurry Designs and Notes

Slurry	Cement & Additives	Water <u>Requirements</u>	<u>Weight</u>	<u>Yield</u>
Production cu.ft/sk	Class B + 1/4#/sx celloflake	5.2 gals/s×	15.6 ppg	1.18

Figure slurry volume as follows: Calculate slurry using caliper volume + 50% excess.

Cement volume shown in this prognosis is based on hole and casing size and surface/long string annular volumes plus percentage excess shown above.

NOTES:

- 1. Pump rates should be a minimum of 4 BPM through displacement.
- 2. Slurry weights should be measured using a mud balance at least every 10 minutes during mixing.
- 3. At least two samples of the tail should be caught and monitored at room temperature for thickening time.
- 4. Run Temperature Log if cement does not circulate.

