RCVD JUL 15'08 A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED OIL CONS. DIV. LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO DIST. 3 NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS. FORM APPROVED OMB NO. 1004-0136 Expires: January 31,2004 UNITED STATES DEPARTMENT OF THE INTERIOR RECE **BUREAU OF LAND MANAGEMENT** NOG-0203-1570 APPLICATION FOR PERMIT TO DRILL OR REENTER r If Indian, Allottee or Tribe Name NAVAJO ALLOTMENT If Unit or CA Agreement, Name and No. DRILL REENTER Lease Name and Well No. NAVAJO 20-6-5 #2_ Oil Well X Gas Well Other Single Zone Multiple Zone API Well No. SG Interest I, LTD 3b. Phone No. (include area code) P.O. Box 2677, Durango, CO 81302 (970) 259-2701 **Basin Fruitland Coal** Location of well (Report location clearly and In accordance with any State requirements.*) 11. Sec., T., R., M., or Blk. And Survey or Area 670' FNL & 1017' FWL Lot 4, Section 5, T-20-N, R-6-W, NMPM, 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. County or Parish 13. State **McKinley** NM 16. No. of Acres in lease 17. Spacing Unit dedicated to this well

Approximately 19.2 miles southwest of Counselor Trading Post, NM off US Highway 550. 15. Distance from proposed* location to nearest property or lease line, ft. 670' 136.65 Acres W1/2, 269.63 Acres (Also to nearest drlg unit line, if any) 19. Proposed Depth 18. Distance from proposed location* 20. BLM/ BIA Bond No. on file to nearest well, drilling, completed, applied for, on this lease, ft. See Attached map BIA Bond Number-LPM 8842198 21. Elevations (Show whether DF. RT, GR, etc.) 22. Aproximate date work will start* 23 Estimated Duration 6714 GR as soon as permitted 1 month

24. Attachments

Form 3160-3 ""-

(September 2001)

1a. Type of Work

1b. Type of Well

3a. Address

At surface

At proposed prod. zone

Name of Operator

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached 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 Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by existing bond on file(see item 20 above).
- Operator certification.
- 6. Such other site specific information and/ or plans as may be required by the a authorized officer

25. Signature Title

Name (Printed/ Typed)

Juan E. Betoni

6-13-07

Land Consultant

Approved By (Signature) Original Signed: Stephen Masch Name (Printed/ Typed)

Date

JUL 1 4 2003

Title

operations thereon.

Office

Application approval does not warrant or certify that the applicant holds legal or equitable titled those ments in the projective warrant or certify that the applicant to c PRIOR TO CASING & CEMENT

Conditions of approval, if any, are attached.

itle 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 Unite

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

^{* (}Instructions on reverse)

District I

1625 N. French Dr., Hobbs, NM 88240

Taisteict.II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

Dedicated Acres

293.51

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

Joint or Infill

Consolidation Code

"Order No.

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

2(Submit to Appropriate District Office

/ 3 State Lease - 4 Copies Fee Lease 3 Copies

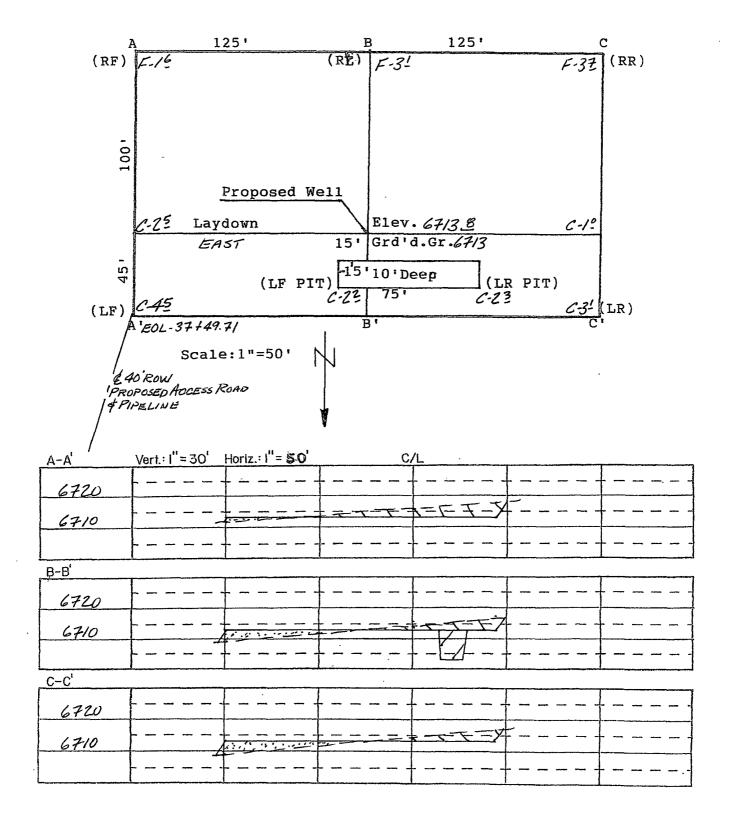
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number *30-031-211*00 Well Number ¹Property Name **Property Code** 2 NAVAJO 20-6-5 Operator Name
SG INTERESTS I, LTD. Elevation OGRID No. 6714 10 Surface Location UL or lot co. Lot Ida Feet from the East/West line County Section Township Range Feet from the North/South line McKinley 6W 1017 West 4 5 20N 670 North ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line East/West line Section Township Range Feet from the County

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		-			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is	
1017;— © L	Lot 3 Lot 3 et.35.99808° N ong.107.50167° W	80.0 Lot 2 ⁻	7 Ch. Lot 1	(12.94) 72.94 Ch.	true and complete to the best of my knowledge and belief. Signature S. M. 4 188 Printed Name According to the best of my knowledge and belief.	0050° 18
(20,00)	Sec.			(20.00)	Agent-hax libby @donellis- Titleand E-mail Address June 13, 2007 Date 18 STIPLY EVOR CERTIFICATION	Co
03' W 0.00)		5		0.00) 03' 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 correct to the best of my boliefs	
	°57' W			(40.00) N 0 ¹ 03'	Signature and Scal of Professional Surveyor. Signature and Scal of Professional Surveyor. Williams En Mahnike II	
V / / / N 69	31 44	80.	08 Ch.	1	8466	

SG INTERESTS I, LTD. NAVAJO 20-6-5 #2 670'FNL & 1017'FWL Sec.5, T20N, R6W, NMPM McKinley Co., NM



Access Description for Navajo 20-6-5 #2

From Counselor Trading Post on U.S. Hwy. 550, travel south on US 550 \pm 0.1 miles, turn right on dirt road with sign "Star Lake Compressor-26 miles". This is the 0 miles point for this description. Follow dirt road.

- 4.3 miles- Turn left at "Ojo Encino School" sign,
- 11.0 miles- Transition to pavement with sign "N 474",
- 14.5 miles- Turn right off pavement through cattle guard onto dirt road,
- 19.2 miles- Turn left off road through Federal 21-6-32 #3 well and follow flagged access road ±3800 feet southerly to location.

NIKA ENERGY OPERATING, LLC SG INTERESTS I, LTD.

WELL NAME:

Navajo 20-6-5 #2

FIELD NAME:

Basin Fruitland Coal

LOCATION:

Sec 5, T20N, R6W

Lot 4

McKinley County, New Mexico

PROPOSED TD:

1000'

DRILLING SKELETON:

<u>Interval</u>	Hole <u>Size</u>	Casing <u>Size</u>	<u>Depth</u>
Surface	12-1/4"	8-5/8"	1 50'
Production	7-7/8"	4-1/2"	1000'

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'-1000'	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.

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& <i>C</i>	180'	130 sx Class B. 2% CaCl, ¼#sx celloflake
Production	4-1/2", 10.5#, J-55, ST&C	TD	330 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.

GEOLOGIC PROGNOSIS:

Elevations:

GL ~ 6714'

Formation Tops:

<u>Depth</u>
275′
400'
600'
800'
825'
1000'

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.

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 **before** 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.

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 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 emough 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).

Production Casing cont.

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

<u>Slurry</u>	Cement & Additives	Water <u>Requirements</u>	<u>Weight</u>	<u>Yield</u>
Production	Class B or G + 1/4#/sx Celloflake, and 3# gilsonite	5.2 gals/sx	15.6 ppg	1.18 cu. ft / sk

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.

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

Navajo 20-6-5 #2 NW Sec 5-20N-R6W 670' FNL & 1017' FWL McKinley County, New Mexico

EIGHT POINT DRILLING PROGRAM

1. Estimated Formation Tops:

2.

Ojo Alamo	275′
Kirtland	400′
Fruitland	600′
Coal Top	800'
PC	825'
Total Depth	1000

3. Estimated Depth of Anticipated Minerals:

Fruitland (Gas)

800'

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 - Navajo 20-6-5 #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.

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"	29 20#, J-55, STC
7-7/8"	0-1000'	4-1/2"	10.5#, J-55, STC

Surface Casing will be cemented with 130 sx ($\frac{130}{100}$ 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 330 sx (280 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.

Depth	Type	<u> Wt (ppg)</u>	<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 - Navajo 20-6-5 #2 Page 3

7. Testing, Coring and Logging Program:

No DST's 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.

