

# CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

RECEIVED  
AUG 02 1990

DIVISION OF  
OIL, GAS & MINING

July 24, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Application for Permit to Drill - Runway 10 E 2

Gentlemen:

Enclosed you will find for your examination and approval the original and two copies of the above-referenced Application for Permit to Drill.

Please advise if you require any additional information concerning this. We will appreciate your prompt consideration.

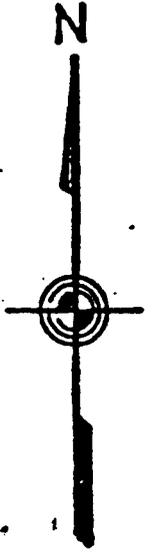
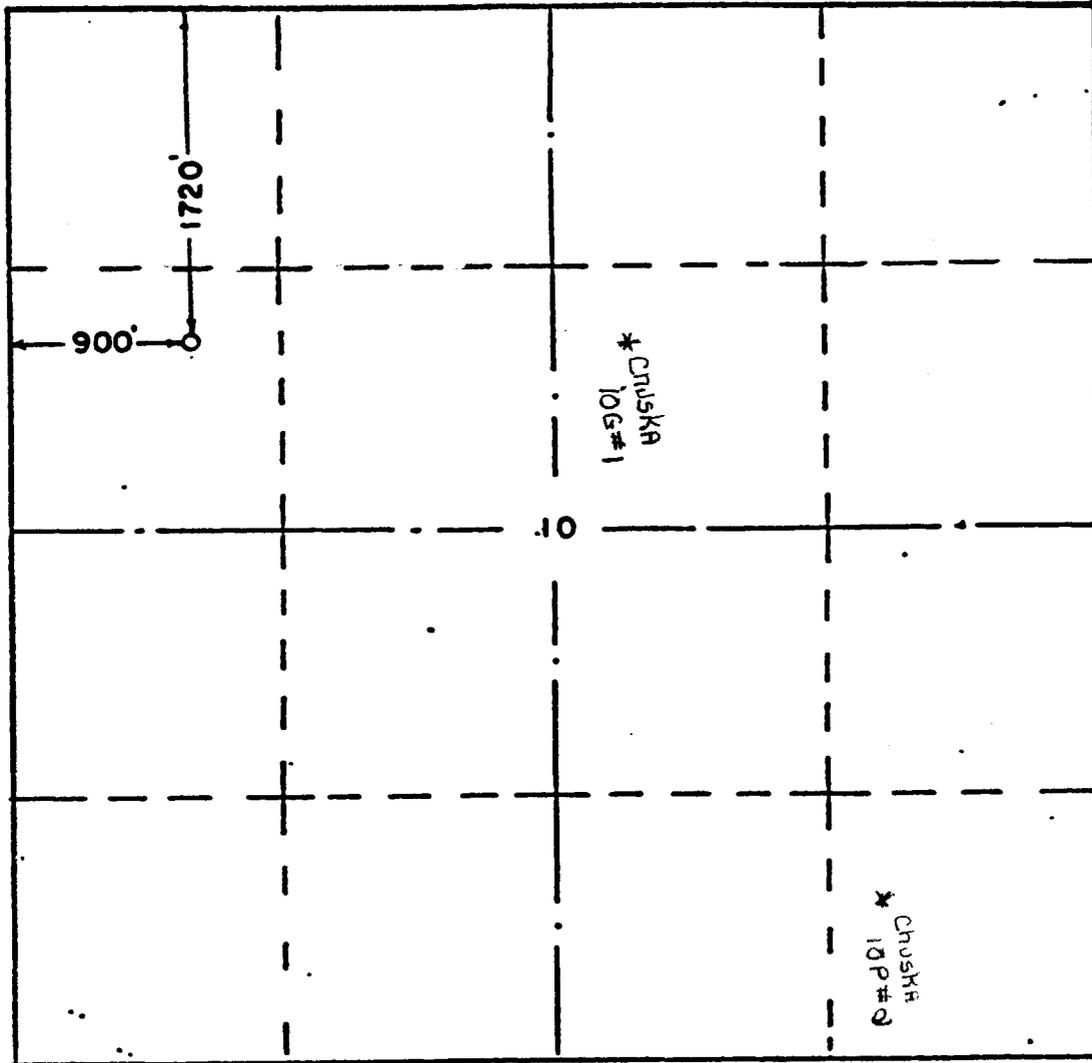
Sincerely,

ROBERT R. GRIFFEE  
Operations Engineer

RRG:bnp  
Enclosures  
File:RRG\APDRUNWY.10E



WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Runway 10 - E - 2

1720'FNL & 900'FWL

Section 10, T.40 S., R.25 E., SLM

San Juan, UT.

5043' ground elevation

State plane coordinates from seismic control:

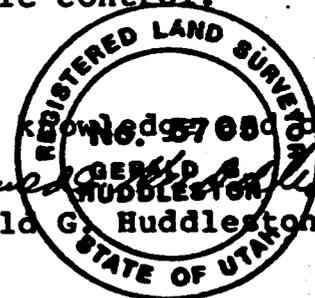
x = 2,679,072

y = 248612

The above plat is true and correct to my knowledge and belief.

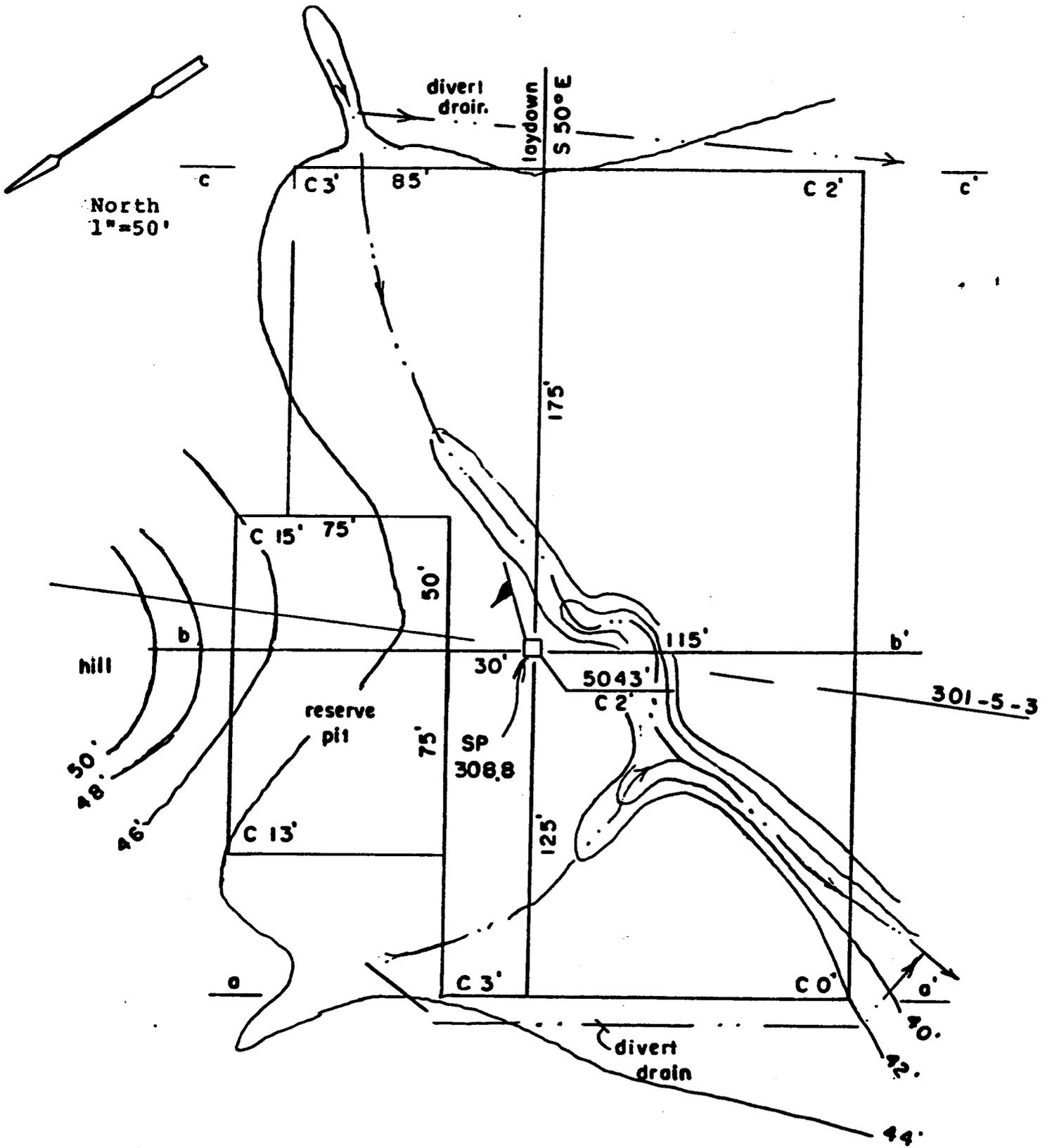
29 June 1990

Gerald G. Huddleston, LS



Plan View Sketch

Runway 10 - E - 2

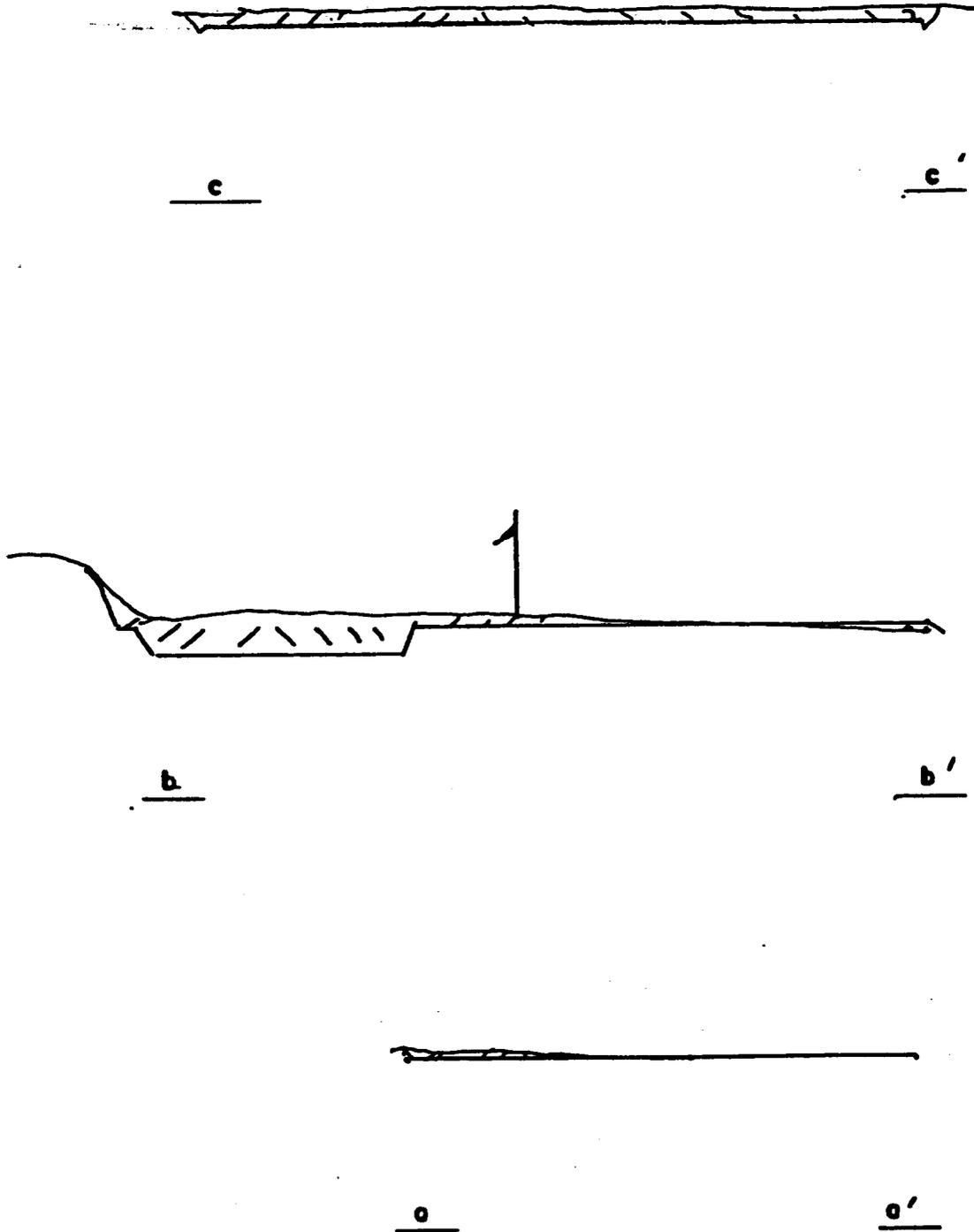


Cross Section

Runway 10 - E - 2

Cut ////  
Fill —, o

1"=50' Horz. & Vert.



**CHUSKA ENERGY COMPANY**

**10 POINT DRILLING PLAN**

Runway 10E Well No. 2  
1720' FNL, 900' FWL  
Section 10, Township 40S, Range 25E  
San Juan County, Utah

**1. SURFACE FORMATION**

Surface formation: Morrison

**2. ELEVATION**

Surface elevation is 5,043' GR, 5,057' KB.

**3. ESTIMATED FORMATION TOPS**

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>
Surface	Morrison	+ 5043
1097'	Navajo	+ 3960
1722'	Chinle	+ 3335
2822'	DeChelly	+ 2235
2947'	Organ Rock	+ 2110
3632'	Cedar Mesa	+ 1425
4747'	Hermosa	+ 310
5657'	Upper Ismay	- 600
5772'	Lower Ismay	- 715
5847'	Desert Creek	- 790
6027'	Akah	- 970
6077'	TD	- 1020

**4. PROPOSED CASING/CEMENTING PROGRAM**

	<u>Interval</u>	<u>OD</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface:	0-500	10 3/4"	40.5 ppf	K-55	STC
Production:	6077-5535	7 5/8"	29.7 ppf	N-80	LTC
	5535-4612	7 5/8"	26.4 ppf	N-80	LTC
	4612-40	7 5/8"	26.4 ppf	K-55	LTC
	40-0	7 5/8"	29.7 ppf	N-80	L T C

### Surface Cementing:

183 sks (210 ft<sup>3</sup>) Class 'G' with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Slurry volume calculated at 100% excess over annular volume.

### Production Cementing:

#### First Stage

TD to 3500' (stage collar @ ± 3500'). Lead with 155 sks Class 'G' 65/35 Poz with 6% gel and 1/4 lb/sk Celloflake (weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk). Tail with 314 sks Class 'G' with 2% CaCl<sub>2</sub> (Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Total of 480 ft<sup>3</sup>. Bring top of Class 'G' slurry 500' above top of Upper Ismay.

#### Second Stage

3500' to surface. Lead with 400 sks Class 'G' 65/35 Poz with 6% gel and 1/4 lb/sk Celloflake (Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk). Tail with 100 sks Class 'G' with 2% CaCl<sub>2</sub> (weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Total of 607 ft<sup>3</sup>.

Note: Exact slurry volumes for the production string will be adjusted after analysis of the caliper log to be run prior to cementing. Special adjustments may be made to the Stage 1 slurry if significant amounts of salt are drilled. The slurry volumes given above are calculated with a 15% excess factor over open hole caliper volume.

### 5. BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per the attached Exhibits "A" and "B". This is to consist of a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

### 6. PROPOSED MUD PROGRAM

#### Surface to 500'

Fresh water, gel, lime and native solids. Weight 8.3 - 9.5 ppg. Gel/lime sweeps as necessary for hole cleaning.

500' to 5100'

Fresh water. Sweep with gel/lime and anionic polymer sweeps as necessary to clean the hole. Weight 8.5 - 9.2 ppg.

5100' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 10.2 ppg. Sweep with gel/lime and or anionic polymer sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 20 cc or less. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

The open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD to 4000'.

Drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 5100' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H<sub>2</sub>S gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 25 days. Anticipated spud date is 11-1-90.

EXHIBIT A

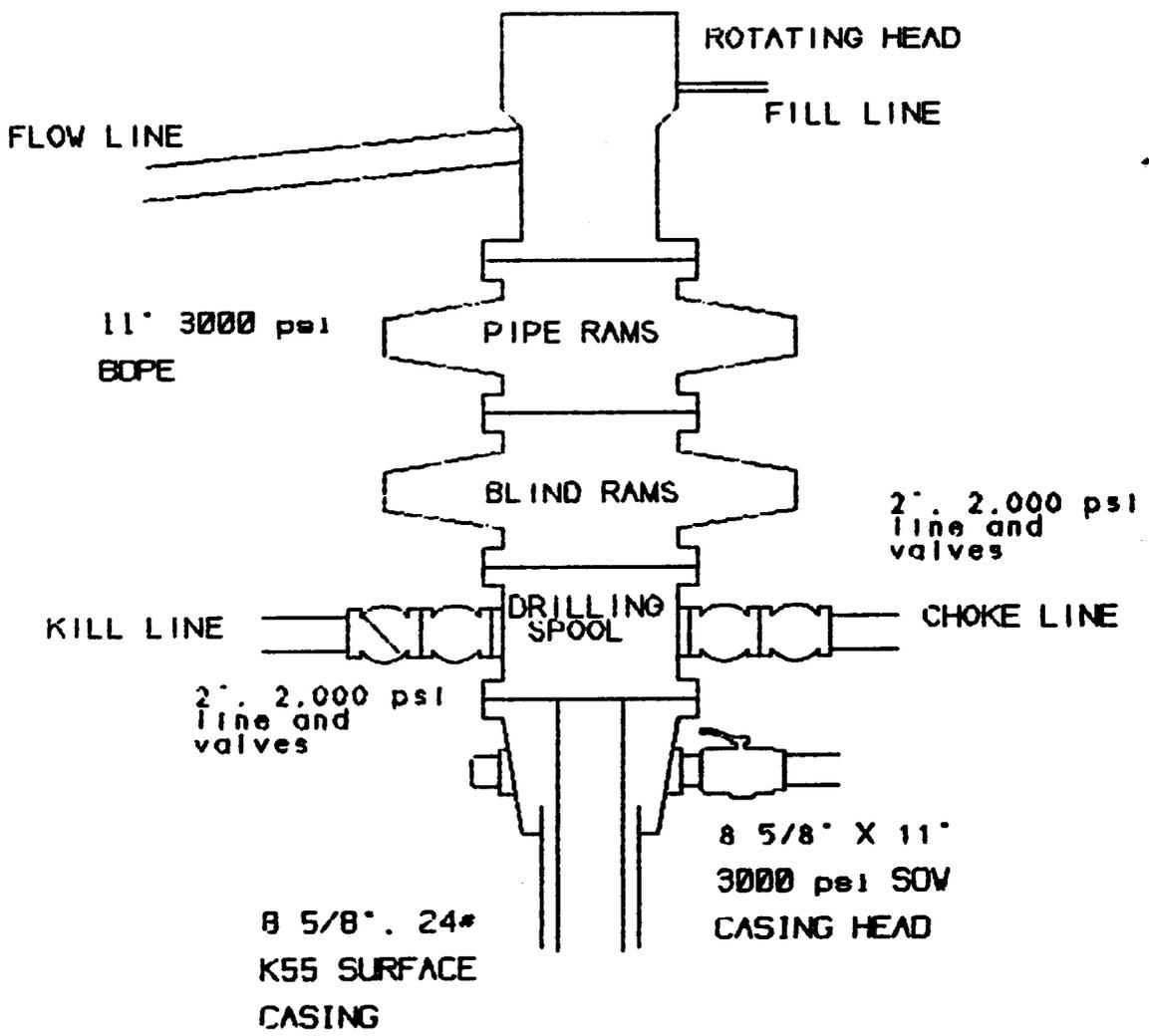
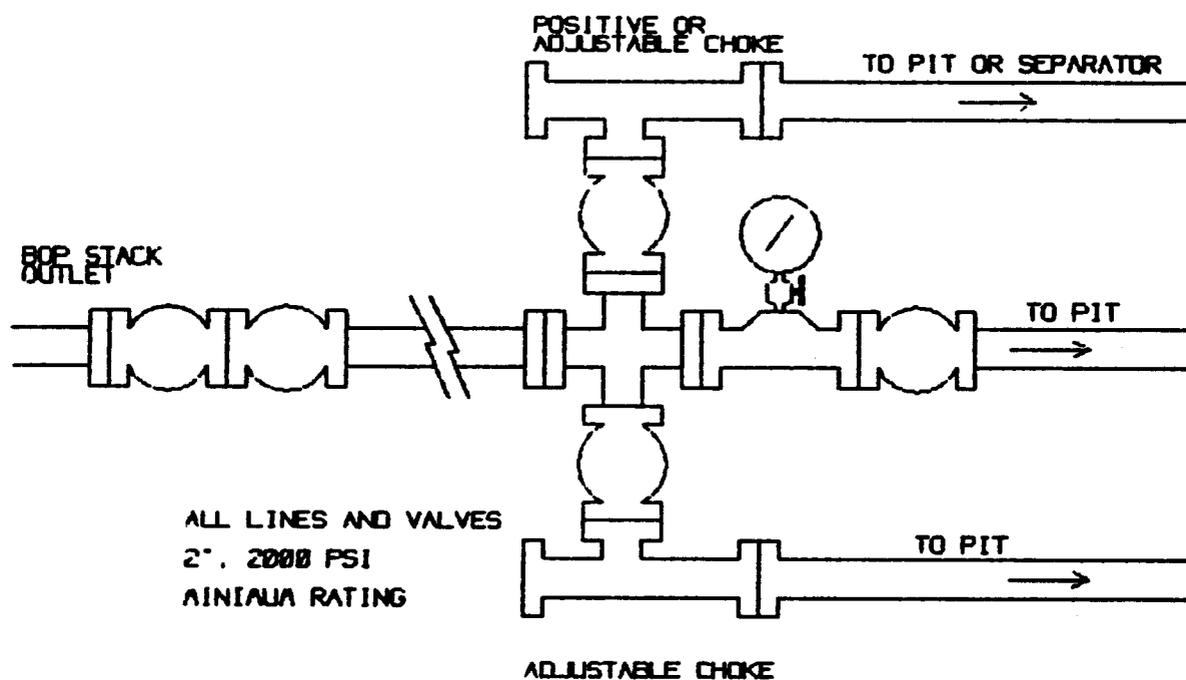


EXHIBIT B - CHOKE MANIFOLD



## DETAILED DRILLING PROGRAM

DATE: July 23, 1990

WELL NAME: Runway 10E WELL NO.: 2

LOCATION: 1720' FNL, 900' FWL  
Section 10, Township 40S, Range 25E  
San Juan County, Utah

ELEVATION: 5,043' GR, 5,057' KB.

TOTAL DEPTH: 6,077'

PROJECTED HORIZON: Primary objectives are the Upper Ismay at 5,657' and the Desert Creek at 5,847'.

### DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to  $\pm$  500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 10 3/4", 40.5 ppf, K-55, STC casing to TD. Cement with 183 sks (210 ft<sup>3</sup>) Class 'G' with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Slurry volume calculated at 100% excess over annular volume.
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Insure that the cement has been static a minimum of 8 hours before proceeding with pressure testing operations. Pressure test BOP to 2,000 psi for 30 minutes. Pressure test manifold and all related equipment to 2,000 psi. Pressure test casing to 1,500 psi for 30 min.
7. Drill out surface casing with 9 7/8" bit. Drill 9 7/8" hole with fresh water (sweep as necessary with gel/lime/polymer sweeps). Mud up, as hole conditions dictate (or by 5100'), with fresh water, low solids non dispersed, gel, lime, anionic polymer mud system. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at TD, with the maximum allowable rate of change to be 1°/100'.

8. Run open hole logs and evaluate. Drill stem testing will be as per the wellsite geologist's recommendation.
9. If the well is determined to be productive, run 7 5/8" casing as follows:

<u>Interval</u>	<u>OD</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
6077-5535	7 5/8"	29.7 ppf	N-80	LTC
5535-4612	7 5/8"	26.4 ppf	N-80	LTC
4612-40	7 5/8"	26.4 ppf	K-55	LTC
40-0	7 5/8"	29.7 ppf	N-80	LTC

Set stage cementing collar at  $\pm 3,500'$ .

10. Cement in two stages as follows:

First Stage

TD to 3500' (stage collar @  $\pm 3500'$ ). Lead with 155 sks Class 'G' 65/35 Poz with 6% gel and 1/4 lb/sk Celloflake (weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk). Tail with 314 sks Class 'G' with 2% CaCl<sub>2</sub> (Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Total of 480 ft<sup>3</sup>. Bring top of Class 'G' slurry 500' above top of Upper Ismay.

Second Stage

3500' to surface. Lead with 400 sks Class 'G' 65/35 Poz with 6% gel and 1/4 lb/sk Celloflake (Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk). Tail with 100 sks Class 'G' with 2% CaCl<sub>2</sub> (Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk). Total of 607 ft<sup>3</sup>.

Note: Exact slurry volumes for the production string will be adjusted after analysis of the caliper log to be run prior to cementing. Special adjustments may be made to the Stage 1 slurry if significant amounts of salt are drilled. The slurry volumes given above are calculated with a 15% excess factor over open hole caliper volume.

11. Nipple down BOPE. Set 7 5/8" casing slips and cut off or back off casing. Install well head. Release drilling rig and move rig off location.
12. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Runway 10E Well No. 2  
1720' FNL, 900' FWL  
Section 10, Township 40S, Range 25E  
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Runway 10-E-2  
1720' FNL, 900' FWL  
Section 10, Township 40S, Range 25E  
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Aneth, following the Hovenweep Road (exhibit 1). Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road as shown on the attached topographic map will exit from the Runway 10G-1 location. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Approximately 3,111 ft of new road will be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The Runway 10G-1 is located 1,930' east of the proposed 10E-2 location. As of the date of this application, the 10G-1 tank battery has not been installed, however, the battery should be installed within 2 weeks of the application date on the 10G-1 site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

As detailed in #3 above, a tank battery for the Runway 10G-1 is to be installed. If productive, facilities for the Runway 10E-2 will be installed on the 10G-1 location site.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River. The water will be hauled via Chuska Energy water trucks permitted under Utah Division of water rights permit 09-1722, (T64794).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill requirements and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on an northeast/southwest trend requiring 3' of cut on the north corner and 2' of cut on the south corner. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

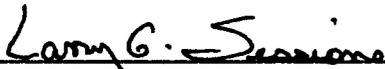
11.

OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY  
315 NORTH BEHREND AVENUE  
FARMINGTON, NEW MEXICO 87401  
LARRY G. SESSIONS  
(OPERATIONS MANAGER)

12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.

  
\_\_\_\_\_  
LARRY G. SESSIONS  
Operations Manager



STATE ACTIONS

Mail to:  
RDCC Coordinator  
116 State Capitol  
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY  
OIL, GAS AND MINING  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:  
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:  
November 1, 1990
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:  
(to be sent out by agency in block 1)  
Southeastern Utah Association of Governments
5. TYPE OF ACTION:  Lease  Permit  License  Land Acquisition  
 Land Sale  Land Exchange  Other \_\_\_\_\_
6. TITLE OF PROPOSED ACTION:  
Application for Permit to Drill
7. DESCRIPTION:  
Chuska Energy Company proposes to drill a wildcat well, the Runway 10 E #2, on Navajo Tribal lease number NOG 8702-1116 in San Juan County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management or the Bureau of Indian Affairs is the primary administrative agency in this case and must issue approval to drill before operations can commence.
8. LAND AFFECTED (site location map required) (indicate county)  
SW/4, NW/4, Section 10, Township 40 South, Range 25 East, San Juan County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?  
Unknown
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:  
No significant impacts are likely to occur
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT: John Baza  
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL  
DATE: 8-7-90 *John R. Baza*  
Petroleum Engineer

N-9090

OPERATOR Chuska Energy Company DATE 8-7-90  
WELL NAME Runway 10-E #0  
SEC SWW 10 T 40S R 05E COUNTY San Juan

43-037-31550  
API NUMBER

Indian (0)  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD  
SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 900' radius. (See 10)  
Water Permit 09-1700 (TW4794)  
ROCC 8-7-90  
Ejection Location

APPROVAL LETTER:

SPACING:

R615-2-3

N/A  
UNIT

R615-3-2

N/A  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

10 September, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: Tammy Searing

Ref: Application for Permit to Drill - Runway 10E-2

Dear Ms Searing

Chuska Energy Company hereby makes application for exception to the general State Spacing rules for the subject well. Although the location falls outside the guidelines for State of Utah spacing requirements, it has been sited so as to allow the well bore to penetrate, optimally, geological structures which have been identified by seismic interpretation. Chuska Energy controls the acreage surrounding the proposed well site, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Christopher S.W. Hill  
Petroleum Engineer

CSWH/csw  
File: C:\WP\RUNWAY.10E\EXCEPT



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

September 17, 1990

Chuska Energy Company  
P. O. Box 780  
Farmington, New Mexico 87499

Gentlemen:

Re: Runway 10-E #2 - SW NW Sec. 10, T. 40S, R. 25E - San Juan County, Utah  
1720' FNL, 900' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

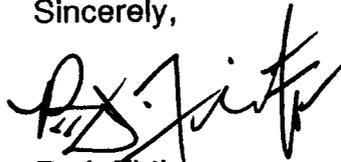
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Chuska Energy Company  
Runway 10-E #2  
September 17, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

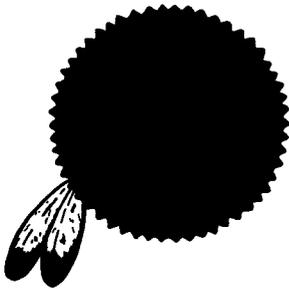
The API number assigned to this well is 43-037-31550.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
J. L. Thompson  
WE14/1-6



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

17 September, 1990

**RECEIVED**  
SEP 20 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL, GAS & MINING

Ref: Sundry Notice: Runway 10E-2 Well - Change Plans

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\CSGCGSUN.CVR

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.  
NOG 8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal

RECEIVED  
SEP 20 1990

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Chuska Energy Company

3. ADDRESS OF OPERATOR  
P.O. Box 780, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface 1,720' FNL, 900' FWL  
At proposed prod. zone Same

7. UNIT AGREEMENT NAME  
FARM OR LEASE NAME  
Runway 10E  
WELL NO.  
2

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., H., OR BLK. AND SURVEY OR AREA  
S10 T40S R25E

14. PERMIT NO.  
43-027-31550

15. ELEVATIONS (Show whether DF, RT, GR etc.)  
5,043' GR

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)   
PULL OR ALTER CASING   
MULTIPLE   
ABANDON\*   
CHANGE PLANS

APPROX. DATE WORK WILL START 11-1-90

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form

DATE OF COMPLETION

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

After re-evaluation of the prospect, casing program has been revised as follows:

Surface Casing:  
Hole Size 12 1/4"  
Casing O.D. 8 5/8"  
Weight/ft 24.0 lb  
Setting Depth 500 ft  
Cement 371 sx 'G' + 2% CaCl<sub>2</sub>

OIL AND GAS  
DFN RJF  
JFB GLH  
DIS SLB  
1-TAS  
2- MICROFILM ✓  
3- PEE

Production Casing:  
7 7/8"  
5 1/2"  
15.5 lb  
6,077 ft  
842 sx 'G':  
65:35 Poz + 6% Gel

18. I hereby certify that the foregoing is true and correct

SIGNED Christopher S. Hill

TITLE Petroleum Engineer

DATE 17 September, 1990

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS AND MINING

DATE: 9/28/90

BY: [Signature]

See Instructions On Reverse Side

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31550

DRL

SPUDDING INFORMATION

NAME OF COMPANY: Chuska Energy Company

WELL NAME: Runway 10E #2

SECTION SWNW 10 TOWNSHIP 40S RANGE 25E COUNTY SAN JUAN

DRILLING CONTRACTOR ENERGY SEARCH

RIG # 2

SPUDDED: DATE 10-26-90

TIME 6:00 p.m.

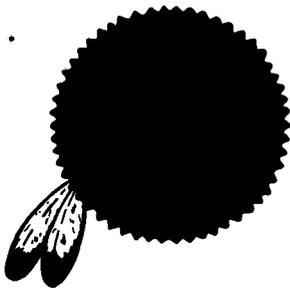
HOW ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Larry Sessions

TELEPHONE # 505-326-5525

DATE 10-30-90 SIGNED TAS



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

29 October, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED

NOV 1 1990

DIVISION OF  
OIL, GAS & MINING

Ref: Sundry Notice/Entity Action Form: Runway 10E-2 Well  
Spud/Set Surface Casing

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice and Entity Action Form.

Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\SUNCOVER

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements. See also space 17 below.) At surface 1,720' FNL, 900' FWL At proposed prod. zone Same		8. FARM OR LEASE NAME Runway 10E
14. PERMIT NO. 43-037-31550 <i>DR</i>		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR etc.) 5,043' GR		10. FIELD AND POOL, OR WILDCAT Runway/Paradox
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA S10 T40S R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(other) <u>Spud/Surface Casing</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION <u>10-26-90</u>	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

\* Must be accompanied by a cement verification report.

Spudded well at 2030 hrs, 10-26-90, with Energy Search Rig #2. Verbal notification of spud to BLM and State of Utah was given at approximately 1400 hrs, 10-26-90, by Larry G. Sessions.

Drilled 12 1/4" hole to 515'. Circulated and conditioned. POOH. Rigged and ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing, fitted with guide shoe and float collar and landed at 502'. Cemented with 375 sx Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Circulated 29 bbl cement to pit. Bumped plug with 900 psig. Float did not hold. Held pressure and WOC 5 hrs. Cement fell 30'. Topped up cement with 20 sx Class 'G'.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Petroleum Engineer DATE 29 October, 1990

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

OPERATOR Chuska Energy Company  
ADDRESS P.O. Box 780, Farmington, New Mexico 87499

OPERATOR ACCT. NO. N9290

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11128	43-037-31550	Runway 10E #2	SW/NW	10	40S	25E	San Juan	10-26-90	

WELL 1 COMMENTS:  
Cased well at 2030 hrs, 10-26-90, with Energy Search Rig #2.

WELL 2 COMMENTS:  
Indian-Lesse Proposed Zone- Akah  
Field- Wildcat (New entity 11128 added 11-2-90) fep  
Unit- N/A

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

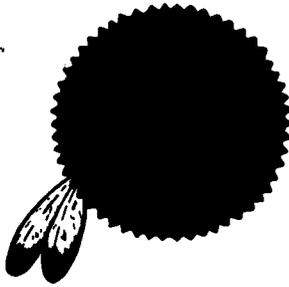
NOTE: Use COMMENT section to explain why each Action Code was selected.

**RECEIVED**  
NOV 1 1990

DIVISION OF  
OIL, GAS & MINING

*[Signature]*  
Signature

Petroleum Engineer 10-290  
Title Date  
Phone No. (505) 326 5525



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

12 November, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED  
NOV 15 1990

DIVISION OF  
OIL, GAS & MINING

Ref: Sundry Notice: Runway 10E-2 Well  
Run Production Casing

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\SUNCOVER

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME Runway 10E
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1,720' FNL, 900' FWL		8. FARM OR LEASE NAME Runway 10E WELL NO. 2
At proposed prod. zone Same		9. FIELD AND POOL, OR WILDCAT Runway/Paradox
14. PERMIT NO. 43-037-31550	15. ELEVATIONS (Show whether OF, RT, OR etc.) 5,043' GR	10. FIELD AND POOL, OR WILDCAT S10 T40S R25E
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

**RECEIVED**  
NOV 15 1990  
DIVISION OF OIL, GAS & MINING

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(other) Production Casing <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION 11-11-90	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled 7 7/8" hole to T.D. of 6,034' KB. After log evaluation, ran and cemented production casing as follows:

141 joints 5 1/2", 15.5 lb/ft, K-55, STC casing.  
Stage collar at 3,483'. Float at 5,983'. Landed at 6,026' KB.

Stage 1: 510 sx Class 'G', 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tailed with 230 sx Class 'G' with 1/4 lb/sk Celloflake. Displaced with 143 bbl water. Bumped plug with 1m500 psig. Float held. Dropped bomb and opened DV tool. Circulated 21 bbl cement to pit.

Stage 2: 880 sx Class 'G', 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tailed with 100 sx Class 'G' with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Displaced with 83 bbl water. Bumped plug with 2,600 psig OK. Circulated 29 bbl cement to pit.

Rig released 1400 hrs, 11-11-90.

18. I hereby certify that the foregoing is true and correct.

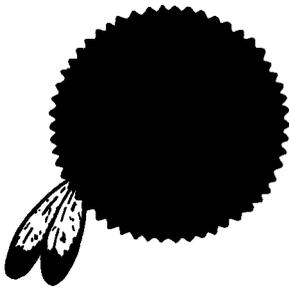
SIGNED *[Signature]* TITLE Petroleum Engineer DATE 12 November, 1990

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side



# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

NOV 29 1990

26 November, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

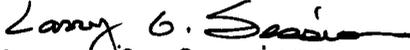
Ref: Sundry Notice: Runway 10E-2 Well  
First Sale of Oil

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

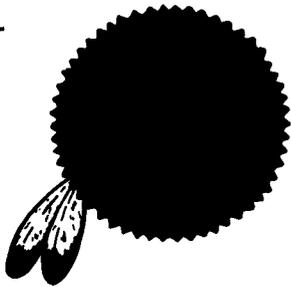
Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\10ILSUN.CVR

encl.





# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

5 December, 1990

**RECEIVED**  
DEC 11 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL, GAS & MINING

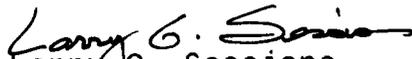
Ref: Sundry Notice: Runway 10E-2 Well  
First Sale of Gas

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

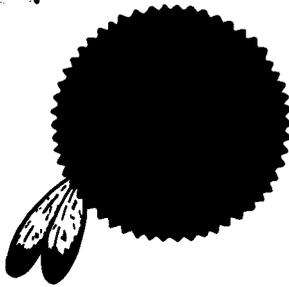
Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\SUNCOVER

encl.





# CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

RECEIVED  
DEC 14 1990

10 December, 1990

State of Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

DIVISION OF  
OIL, GAS & MINING

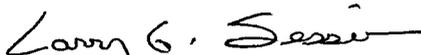
Ref: Completion Report: Runway 10E-2 Well

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Completion Report.

Please advise if you require additional information concerning this submission.

Sincerely,

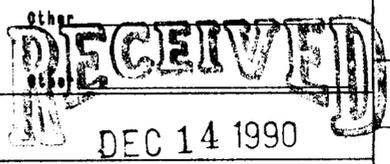
  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\RUNWAY.10E\CRCOVER

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG



1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY   
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR

2. NAME OF OPERATOR  
Chuska Energy Company

3. ADDRESS OF OPERATOR  
P.O. Box 780, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)  
 At Surface 1,720' FNL, 900' FWL  
 At top prod. interval reported below Same  
 At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.  
NOG 8702-1116  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal  
 7. UNIT AGREEMENT NAME  
 8. FARM OR LEASE NAME  
Runway 10E  
 9. WELL NO.  
2  
 10. FIELD AND POOL, OR WILDCAT  
Runway/Paradox  
 11. SEG., T., R., N., OR BLOCK AND SURVEY OR AREA  
S10 T40S R25E

14. API NO. *pow* 43-037-31550 DATE ISSUED 17 September, 1990  
 12. COUNTY San Juan 13. STATE Utah

15. DATE SPUNDED 10-26-90 16. DATE T.D. REACHED 11-10-90 17. DATE COMPL. (Ready to prod.) 12-2-90 (Plug & Abd.)  
 18. ELEVATIONS (OF, RKB, RT, GR ETC.) 5,043' GR 19. ELEV. CASINGHEAD 5,043' GR

20. TOTAL DEPTH, MD & 6,033' KB 21. PLUG BACK T.D., MD & TVD 5,970' KB 22. IF MULTIPLE COMPL., HOW MANY -  
 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTON, NAME (MD AND TVD)  
 5,877' - 5,904': Desert Creek  
 5,924' - 5,940': Desert Creek  
 5,962' - 5,968': Desert Creek

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MSFL/GR/CAL ✓ LDT/GNL/GR/CAL ✓ BHCS/GR/CAL ✓ 11-30-90  
 27. WAS WELL CORED YES  NO  (Submit analysis)  
 DRILL STEM TEST YES  NO  (See reverse side)

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	500'	12 1/4"	375 sx 'G'. 29 bbl to surface.	
5 1/2"	15.5	6026'	7 7/8"	S1: 510 sx 'G' 35:65 Poz/6% Gel + 230 sx 'G' S2: 880 sx 'G' 35:65 Poz/6% Gel + 100 sx 'G'	
				Circulated 29 bbl cement to pit	

29. LINER RECORD

SIZE	TOP (MD)	BOTTON (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	5865'	5805'	5775'

31. PERFORATION RECORD (Interval, size and number)

5962'-5968': 0.46": 2 spf: 12 holes	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
5924'-5940': 0.46": 2 spf: 32 holes	
5877'-5904': 0.46": 2 spf: 54 holes	
5782'-5788'/5795'-5798': 0.46": 2 spf: 18 holes * * squeezed off	

33. PRODUCTION  
 DATE FIRST PRODUCTION 12-2-90 PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing WELL STATUS (Producing or shut in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
12-3-90	24	24		629	664	0	1056
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY-API (CORR.)	
420	280		629	664	0	45.2	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY Kiva Measurement

35. LIST OF ATTACHMENTS

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED *Christopher E.W. Hill* TITLE Petroleum Engineer DATE 12-10-90

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

### 37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

### 38. GEOLOGIC MARKERS

Formation	Top	Bottom	Description, contents, etc.	Name		Top	
						Meas. Depth	True Vert. Depth
Desert Creek	5962	5968	Limestone with trace Anhydrite	Navajo		1114	1732
Desert Creek	5924	5940	Predominantly Limestone with Dolomite and trace Shale	Chinle		1732	2954
Desert Creek	5877	5904	Dolomite with trace Anhydrite	DeChelly		2954	3184
Lower Ismay	5782	5788	Limestone with Anhydrite	Organ Rock		3184	3650
	5795	5798	Limestone	Cedar Mesa		3650	4831
			Core #1: 5891' - 5922' Desert Creek. Recovered 27'. Core #2: 5922' - 5953' Desert Creek. Recovered 31'.	Hermosa		4831	5661
				Upper Ismay		5661	5771
				Lower Ismay		5771	5846
				Desert Creek		5846	6008
				Akah		6008	6033

**JAN 15 1990**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. <b>NOG 8702-1116</b>	
2. NAME OF OPERATOR <b>Chuska Energy Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>Navajo Tribal</b>	
3. ADDRESS OF OPERATOR <b>P.O. Box 780, Farmington, New Mexico 87499</b>		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1,720' FNL, 900' FWL</b>		8. FARM OR LEASE NAME <b>Runway 10E</b>	
14. PERMIT NO. <b>43-037-31550</b>		9. WELL NO. <b>2</b>	
15. ELEVATIONS (Show whether DF, RT, GR etc.) <b>5,043' GR</b>		10. FIELD AND POOL, OR WILDCAT <b>Runway/Paradox</b>	
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA <b>S10 T40S R25E</b>	
		12. COUNTY OR PARISH <b>San Juan</b>	13. STATE <b>Utah</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING BELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR BELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(other) <u>First Sale of Oil</u> <input checked="" type="checkbox"/>	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

First sale of oil from this well was made on 11-21-90, to Gary Energy.

**RECEIVED**  
**JAN 18 1991**  
DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Petroleum Engineer DATE 26 November, 1990  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ **ACCEPTED FOR RECORD**  
CONDITIONS OF APPROVAL, IF ANY:

**JAN 08 1991**

**OPERATOR**  
\*See Instructions On Reverse Side  
FARMINGTON RESOURCE AREA

BY [Signature]  
Title 18 U.S.C. Section 1001, makes 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.

*Larry*

RECEIVED  
FORM 3160-5  
(November 1990)  
BUREAU OF LAND MANAGEMENT  
9-331

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. WELL TYPE OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116
2. NAME OF OPERATOR Chuska Energy Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499	7. UNIT AGREEMENT NAME Runway 10E
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 above.) at surface 1,720' FNL, 900' FWL	8. FARM OR LEASE NAME Runway 10E
9. PERMIT NO. 43-037-31550	9. WELL NO. 2
10. ELEVATIONS (Show whether OP, RT, GR etc.) 5,043' GR	10. FIELD AND POG., OR WILDCAT Runway/Paradox
11. PERMIT NO. 43-037-31550	11. SEC., T., R., H., OR B.L. AND SURVEY OR AREA S10 T40S R25E
12. COUNTY OR PARISH San Juan	12. COUNTY OR PARISH San Juan
13. STATE Utah	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
WATER SHUT-OFF	<input type="checkbox"/>	REPAIR NG WELL	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>	(Other)	<input checked="" type="checkbox"/>

(NOTE: Report results of wellbore completion or re-completion or recompletion reports and log form)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Include a sketch of pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directional or drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First sale of gas from this well was made on 12-4-90.

RECEIVED  
JAN 18 1991

OFFICE OF THE  
GENERAL COUNSEL

I hereby certify that the foregoing is true and correct

SIGNED *Christopher Hill* TITLE Petroleum Engineer DATE 5 December, 1990

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE JAN 08 1991

CONDITIONS OF APPROVAL, IF ANY:

OPERATOR

\*See Instructions On Reverse Side

FARMINGTON RESOURCE AREA

BY *PT*

(November 1983)  
REG-1133  
JAN 15 1990

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

.SUBMIT IN DUPLICATE\*  
Budget Bureau No. 1004-0137  
Expires August 31, 1985 *Jamy*

(See instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other   
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR  Other

RECEIVED  
JAN 18 1991

5. LEASE DESIGNATION AND SERIAL NO.  
NOG 8702-1116  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal  
UNIT AGREEMENT NAME  
7. FARM OR LEASE NAME  
Runway 10E

2. NAME OF OPERATOR  
Chuska Energy Company  
3. ADDRESS OF OPERATOR  
P.O. Box 780, Farmington, New Mexico 87499

DIVISION OF OIL, GAS & MINING  
RECEIVED

9. BELL NO.  
2  
10. FIELD AND POOL, OR WILDCAT  
Runway/Paradox  
11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA  
S10 T40S R25E

4. LOCATION OF BELL (Report location clearly and in accordance with any State requirements)\*  
At Surface 1,720' FNL, 900' FWL  
At top prod. interval reported below Same  
At total depth Same

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

14. PERMIT NO. 43-037-31550  
DATE ISSUED 17 September, 1990  
12. COUNTY OR PARISH San Juan  
13. STATE Utah

15. DATE SPUNDED 10-26-90  
16. DATE T.D. REACHED 11-10-90  
17. DATE COMPL. (Ready to prod.) 12-2-90  
18. ELEVATIONS (OF, RKB, RT, OR ETC.)\* 5,043' GR  
19. ELEV. CASINGHEAD 5,043' GR

20. TOTAL DEPTH, HD & 6.033' KB  
21. PLUG BACK T.D., HD & TVD 5.970' KB  
22. IF MULTIPLE COMPL., HOW MANY? -  
23. INTERVALS DRILLED BY Rotary  
24. ROTARY TOOLS  
25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (HD AND TVD)  
5,877' - 5,904': Desert Creek  
5,924' - 5,940': Desert Creek  
5,962' - 5,968': Desert Creek  
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLL/MSFL/GR/CAL  
LDT/CNL/GR/CAL, BHCS/GR/CAL  
27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (HD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	500'	12 1/4"	375 sx 'G', 29 bbl to surface.	
5 1/2"	15.5	6026'	7 7/8"	S1: 510 sx 'G' 35:65 Poz/5% Gel + 230 sx 'G' S2: 880 sx 'G' 35:65 Poz/6% Gel + 100 sx 'G'	
				Circulated 29 bbl cement to pit	

29. LINER RECORD

SIZE	TOP (HD)	BOTTOM (HD)	SACKS CEMENT	SCREEN (HD)	30. TUBING RECORD	SIZE	DEPTH SET (HD)	PACKER SET (HD)
						2 7/8"	5865'	5805'
								5775'

31. PERFORATION RECORD (Interval, size and number)

5962'-5968': 0.46": 2 spf: 12 holes	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
5924'-5940': 0.46": 2 spf: 32 holes	DEPTH INTERVAL (HD)	AMOUNT AND KIND OF MATERIAL USED
5877'-5904': 0.46": 2 spf: 54 holes	5962'-5968'	600 gal 15% MSR-100 acid
5782'-5788'/5795'-5798': 0.46": 2 spf: 18 holes	5924'-5940'	3200 gal 28% MSR-100 acid
* Squeezed off	5877'-5904'	5400 gal 28% MSR-100 acid
	5782'-88/95-98	1800 gal 28% MSR-100 acid

33. PRODUCTION  
DATE FIRST PRODUCTION Lower Zone 11/16/90  
12-2-90  
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing  
WELL STATUS (Producing or shut in) Producing

DATE OF TEST 12-3-90  
HOURS TESTED 24  
CHOKE SIZE 24  
PROD'N. FOR TEST PERIOD  
OIL - BBL. 629  
GAS - MCF. 664  
WATER - BBL. 0  
GAS-OIL RATIO 1056

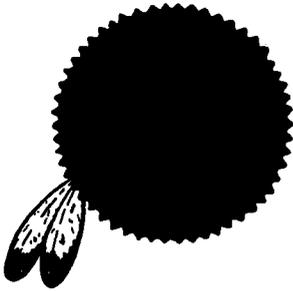
FLOW. TUBING PRESS. 420  
CASING PRESSURE 280  
CALCULATED 24-HOUR RATE  
OIL - BBL. 629  
GAS - MCF. 664  
WATER - BBL. 0  
OIL GRAVITY-API (CORR.) 45.2

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented  
TEST WITNESSED BY  
ACCEPTED FOR RECORD  
Kiva Measurement

35. LIST OF ATTACHMENTS  
OPERATOR  
JAN 08 1991

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available resources.  
SIGNED *Christopher S.W. Hill* TITLE Petroleum Engineer BY *PT* DATE 12-10-90

(See instructions and spaces for additional data on reverse side)  
Title 18 U.S.C. Section 1001, makes 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.



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021  
FAX #: (303) 863-7210

May 17, 1991

Ms. Vicki Kearney  
Utah Oil & Gas Commission  
355 West North Temple  
Three Triad Center  
Suite 350  
Salt Lake City, Utah  
84180-1203

Dear Ms. Kearney:

Please keep all Chuska Energy Company data confidential until further notice.

Thanks,

A handwritten signature in cursive script, appearing to read "Herb".

Herbert P. Mosca  
Chuska Staff Geologist

**RECEIVED**

MAY 20 1991

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1720' FN1 & 900' FWL  
Section 10-Township 40S-Range 25E

8. Well Name and No.

Runway 10E-2

9. API Well No.

43-037-31550

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Workover
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Converted flowing well to pumping well on 7-28-93.

**RECEIVED**

OCT 13 1993

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DIVISION OF  
OIL, GAS & MINING

DATE: 10-14-93

BY: [Signature]

14. I hereby certify that the foregoing is true and correct

Signed [Signature]

Title Operations Manager

Date 8-15-93

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Tax credit 10/29/93.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**NOG 8702-1116**

6. If Indian, Allottee or Tribe Name

**Navajo Tribal**

7. If Unit or CA, Agreement Designation

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**Chuska Energy Company**

3. Address and Telephone No.

**3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1720' FNL & 900' FWL  
Section 10-Township 40S-Range 25E**

8. Well Name and No.

**Runway 10E-2**

9. API Well No.

**43-037-31550**

10. Field and Pool, or Exploratory Area

**Wildcat**

11. County or Parish, State

**San Juan County, Utah**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <b>Workover</b>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Propose to convert flowing well to pumping well on or about 7-28-93.

**RECEIVED**  
OCT 13 1993  
ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 10-14-93  
BY: [Signature]  
DIVISION OF  
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Operations Manager

Date 5/10/93

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LARRY G SESSIONS  
 CHUSKA ENERGY COMPANY  
 3315 BLOOMFIELD HWY  
 FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N9290

REPORT PERIOD (MONTH/YEAR): 12 / 93

AMENDED REPORT  (Highlight Changes)

Well Name API Number      Entry      Location	Producing Zone	Well Status	Days Oper	Production Volumes		
				OIL(BBL)	GAS(MCF)	WATER(BBL)
✓ RUNWAY 10-E #2 4303731550 11128 40S 25E 10	DSCR					
MONUMENT 17E #2 4303731547 11139 40S 25E 17	DSCR					
NAVAJO CANYON 331 #1 4303731546 11145 39S 25E 33	IS-DC					
✓ LONE MOUNTAIN CREEK 12F #1 4303731545 11148 42S 24E 12	DSCR					
RUNWAY 10C-5A 4303731597 11152 40S 25E 10	DSCR					
BLUE HOGAN 1J #1 4303731562 11161 42S 23E 1	DSCR					
ASAZI 5L #3 4303731572 11207 42S 24E 5	PRDX					
✓ NW CAJON 11 #1 4303731510 11210 40S 24E 1	DSCR					
BROWN HOGAN 1A #2 4303731573 11215 42S 23E 2	PRDX					
✓ STERLING 36L #1 4303731595 11224 41S 23E 36	PRDX					
MULE 31-K-1 4303731617 11326 41S 24E 31	DSCR					
✓ NORTH HERON 35C 4303731616 11479 41S 25E 35	DSCR					
BURRO 311 4303731708 11496 41S 24E 31	DSCR	No Cardex / DTS NO FILE		✓ done / 10/93		
<b>TOTALS</b>						

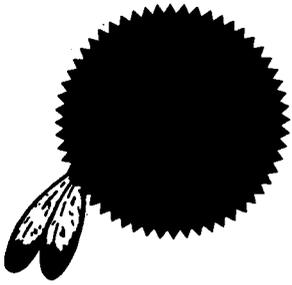
COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

We are pleased to announce that effective January 18, 1994, Chuska Energy Company, has changed its name to Harken Southwest Corporation. This is in line with the February 1993 merger with Harken Exploration Company.

Harken Southwest Corporation is still located at 3315 Bloomfield Highway, Farmington, New Mexico, 87401. You may still contact us at (505) 326-5525.

Please reflect this name change as necessary on all future correspondence.

Thank you for your assistance in this matter and we look forward to working with you as Harken Southwest Corporation.

Sincerely,

Barry A. Wieland  
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF  
OIL, GAS & MINING

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

**Well File** \_\_\_\_\_  
(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) \_\_\_\_\_

**Suspense**  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

**Other**  
*Open Nm. Change*  
\_\_\_\_\_  
\_\_\_\_\_

1. Date of Phone Call: 2-9-94 Time: 12:29

2. DOGM Employee (name) Y. Cordova (Initiated Call )  
Talked to:

Name Wayne Townsend (Initiated Call ) - Phone No. (505) 599-8900  
*(or Ken Townsend)*  
of (Company/Organization) Btm / Farmington N.M.

3. Topic of Conversation: Chuska Energy Co. to Harken Southwest Corp.

4. Highlights of Conversation: \_\_\_\_\_  
They have not rec'd doc. of name change. When they do receive doc. they  
will most likely keep "Chuska" as operator yet mail any correspondence  
% Harken, until BIA approval. (BIA approval may take a while!)

\* 940210 Per Admin. OK to change.

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1-REC	7-SJ
2-DTS	8-FILE
3-VLC	
4-RJP	
5-TR	
6-PL	

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                               Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-18-94)

TO (new operator) HARKEN SOUTHWEST CORPORATION FROM (former operator) CHUSKA ENERGY COMPANY  
 (address) 3315 BLOOMFIELD HWY (address) 3315 BLOOMFIELD HWY  
FARMINGTON NM 87401 FARMINGTON NM 87401  
 phone ( 505 ) 326-5525 phone ( 505 ) 326-5525  
 account no. N 9290 account no. N9290

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>037 31550</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 2-7-94)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) yes If yes, show company file number: #096704.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (2-10-94)
- See 6. Cardex file has been updated for each well listed above. (2-10-94)
- See 7. Well file labels have been updated for each well listed above. (2-10-94)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

**BOND VERIFICATION (Fee wells only)**

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no)   . Today's date    19  . If yes, division response was made by letter dated    19  .

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A OTS 3/12/94 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated    19  , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

**FILMING**

- 1. All attachments to this form have been microfilmed. Date: March 7 1994.

**FILING**

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

**COMMENTS**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 07 1995  
OIL, GAS & MIN

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No.
2. Name of Operator Harken Southwest Corporation	6. If Indian, Allottee or Tribe Name NAVAJO
3. Address and Telephone No. P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Attached List	8. Well Name and No. See Attached List
	9. API Well No. 43-037-31550 See Attached List
	10. Field and Pool, or Exploratory Area
	11. County or Parish, State San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other <u>Flaring during plant shut-down</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Pursuant to the attached notice from Elkhorn Operating, Harken Southwest request permission to vent/flare all non-lease use gas from September 18, 1995 thru September 22, 1995 or until the Aneth Plant resumes operation.

Attached is a list of wells which will be affected by the plant shut down. The list is compiled in API number order.

Should any questions arise, please contact Mr. Richard Cottle, Farmington, New Mexico @ (505) 327-5531 or the undersigned.

cc: Navajo Nation  
State of Utah

14. I hereby certify that the foregoing is true and correct

Signed Richard Cottle Title Production Administrator Date Sept 6, 1995

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

## HARKEN SOUTHWEST CORPORATION

Request permission to flare/vent gas production on the following wells during the shut-down of the Aneth Plant Monday, September 18 thru Friday, September 22, 1995.

<u>Well Name</u>	<u>Sec-Twnshp-Rng</u>	<u>API Number</u>
Navajo Tribal 23-13	13-40S-24E	43-037-30971
Navajo Tribal 41-2	02-42S-24E	43-037-31041
Sahgzie #1	05-42S-24E	43-037-31472
Anasazi #1	05-42S-24E	43-037-31478
Cajon Mesa 8D-1	08-40S-25E	43-037-31497
Monument 8N-2	08-40S-25E	43-037-31509
Runway 10G-1	10-40S-25E	43-037-31515
Monument 17E	17-40S-25E	43-037-31547
Runway 10E-2	10-40S-25E	43-037-31550
Blue Hogan 1J-1	01-42S-23E	43-037-31562
Anasazi 5L-3	05-42S-24E	43-037-31572
Brown Hogan 1A-2	01-42S-23E	43-037-31573
Runway 10C-5A	10-40S-25E	43-037-31597
North Heron 35C	35-41S-25E	43-037-31616
Burro 31-I	31-41S-24E	43-037-31708
Jack 31G	31-41S-24E	43-037-31709
Mule 31M	31-41S-24E	43-037-31710
Big Sky 6E (6L)	06-42S-25E	43-037-31714
Hillside 6C-1	06-42S-25E	43-037-31721



ELKHORN OPERATING COMPANY  
ANETH PLANT  
P.O. BOX 70  
MONTEZUMA CREEK, UTAH 84534  
**Memorandum**

**To:** See Distribution List  
**From:** Gene Gruette  
**Date:** August 18, 1995  
**Subject:** ANETH PLANT SHUTDOWN

---

Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

We plan to have the plant started back up the afternoon of Friday, September 22, 1995.

Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

Should you have questions, call the writer at (801)631-3254.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

**NOG 8707-1190**

6. If Indian, Allottee or Tribe Name

**Navajo**

7. If Unit or CA, Agreement Designation

**N/A**

8. Well Name and No.

**Runway 10E-2**

9. API Well No.

**43-037-31550**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan, Utah**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**Harken Southwest Corporation**

3. Address and Telephone No.

**P.O. Box 612007, Dallas, Texas 75261-2007 (972)753-6900**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/NW Section 10-40S-25E  
1720' FNL & 900' FWL**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

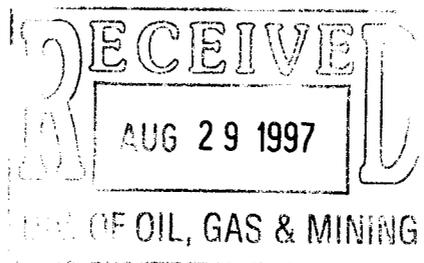
- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Venting
- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Elkhorn experienced a line leak; verbal permission to vent gas was obtained from the Farmington District BLM office. In order to continue production, it was necessary to vent 18 MCF of gas August 12, 1997.

CC: State of Utah  
Navajo Nation  
BIA - Gallup



14. I hereby certify that the foregoing is true and correct

Signed

*[Signature]*

Title Production Administrator

Date 08/26/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

43-037-31550

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
**Harken Southwest Corporation**

3. Address and Telephone No.  
**P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**40,41 & 42S - 23,24 & 25S  
 Various Sections**

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name  
**Navajo Nation**

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**See attached**

9. API Well No.  
**See attached**

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**San Juan County, UT**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

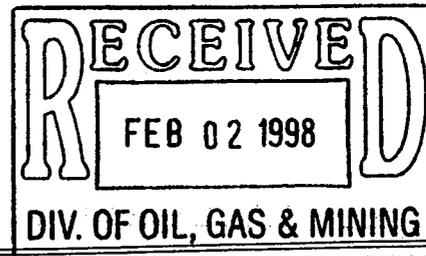
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Gas venting</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the summary sheet for the gas vented by Harken Southwest during December, 1997 and January, 1998 due to the explosion and subsequent problems at the Aneth Gas Plant.

If additional information is required, please contact the undersigned at (972) 753-6900.

CC: State of Utah  
 Navajo Nation - Minerals Dept  
 BIA - Gallup, NM



14. I hereby certify that the foregoing is true and correct

Signed *Sachelle Montgomery* Title Production Administrator Date 01/29/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

**IARKEN SOUTHWEST CORPORATION**  
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 1 of 3

Anasazi #1 43-037-31478 SW/NW Sec 5-42S-24E	Anasazi 5L-3 43-037-31572 NW/SW Sec 5-42S-24E	Sahgzie 1 43-037-31472 SW/NW Sec 5-42S-24E	Anasazi 6H-1 43-037-31744 SE/NE Sec 6-42S-24E	Navajo Tribal 41-2 43-037-31041 NE/NE Sec 2-42S-24E	Navajo Tribal 23-13 43-037-30971 NE/SW Sec 13-40S-24E	Runway 10C-5A 43-037-31597 NE/NW Sec 10-40S-25E	Runway 10G-1 43-037-31515 SW/NE Sec 10-40S-26E
---	---	--	---	--	--	---	--

**Vented Gas (MCF) December 1997**

						12	84	158
25-Dec	88	58	29	14		12	84	157
26-Dec	88	58	28	15		12	84	157
27-Dec	82	61	24	15		12	84	157
28-Dec	85	61	30	14		12	84	157
29-Dec	90	58	25	16	8	12	84	162
30-Dec	88	57	30	16		12	84	157
31-Dec	79	52	26	16		12	84	1105
<b>Dec Total</b>	<b>600</b>	<b>405</b>	<b>192</b>	<b>106</b>	<b>8</b>	<b>84</b>	<b>588</b>	

**Vented Gas (MCF) January 1998**

					7	12	84	162
1-Jan	79	57	29	16	7	12	84	162
2-Jan	89	57	30	15		12	84	162
3-Jan	87	52	30	16		12	84	162
4-Jan	86	50	29	16		12	84	162
5-Jan	107	47	29	16	7	12	84	162
6-Jan	76	75	28	21		10	84	157
7-Jan	84	72	29	22		11	84	157
8-Jan	79	75	30	22		9	84	147
9-Jan	77	70	29	21	11	12	84	136
10-Jan	0	0	0	0	0	2	0	0
11-Jan	0	0	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0	0	0
17-Jan	0	0	0	0	0	0	0	0
18-Jan	81	67	28	22		5	99	0
19-Jan	81	67	28	22	0	2	12	0
20-Jan	80	64	30	21	0			
<b>Jan Total</b>	<b>1006</b>	<b>753</b>	<b>349</b>	<b>230</b>	<b>25</b>	<b>111</b>	<b>867</b>	<b>1569</b>
<b>Grand Total</b>	<b>1606</b>	<b>1158</b>	<b>541</b>	<b>336</b>	<b>33</b>	<b>195</b>	<b>1455</b>	<b>2674</b>

**HARKEN SOUTHWEST CORPORATION**  
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 2 of 3

<b>Runway 10E-2</b>	<b>Momentum 8N-2</b>	<b>Momentum 17E-2</b>	<b>Cajon Mesa 8D-1</b>	<b>Blue Hogan 1J-1</b>	<b>Brown Hogan 1A-2</b>
<b>43-037-31550</b>	<b>43-037-31509</b>	<b>43-037-31547</b>	<b>43-037-31497</b>	<b>43-037-31562</b>	<b>43-037-31573</b>
<b>SW/NW Sec 10-40S-25E</b>	<b>SE/SW Sec 8-40S-25E</b>	<b>SW/NW Sec 17-40S-25E</b>	<b>NW/NW Sec 8-40S-25E</b>	<b>NW/SE Sec 1-42S-23E</b>	<b>NE/NE Sec 1-42S-23E</b>

**Vented Gas (MCF) December 1997**

25-Dec	64	22		22	32	20
26-Dec	64	22	23	22	32	20
27-Dec	64	22		22	32	20
28-Dec	64	22		22	32	22
29-Dec	64	22	22	22	32	22
30-Dec	64	22		25	22	20
31-Dec	64	19		25	22	20
<b>Dec Total</b>	<b>448</b>	<b>151</b>	<b>45</b>	<b>160</b>	<b>204</b>	<b>144</b>

**Vented Gas (MCF) January 1998**

1-Jan	64	20	22	25	22	21
2-Jan	64	22		25	20	20
3-Jan	64	22		25	20	20
4-Jan	64	22		25	22	20
5-Jan	64	21	15	25	22	20
6-Jan	64	21		25	22	22
7-Jan	64	21		25	22	22
8-Jan	64	21		25	22	22
9-Jan	64	22	22	25	22	22
10-Jan	8	0	0	22	40	4
11-Jan	0	0	0	0	0	0
12-Jan	0	0	0	0	0	0
13-Jan	0	0	0	0	0	0
14-Jan	0	0	0	0	0	0
15-Jan	0	0	0	0	0	0
16-Jan	0	0	0	0	0	0
17-Jan	0	0	0	0	44	21
18-Jan	0	0	0	21	44	21
19-Jan	69	23	14	5	10	23
20-Jan	13	4				
<b>Jan Total</b>	<b>666</b>	<b>219</b>	<b>73</b>	<b>273</b>	<b>332</b>	<b>256</b>
<b>Grand Total</b>	<b>1114</b>	<b>370</b>	<b>118</b>	<b>433</b>	<b>536</b>	<b>400</b>

**HARKEN SOUTHWEST CORPORATION**  
**Gas Vented during Aneth Plant Shut-Down (12/97 & 1/98)**

Page 3 of 3

<b>Mule 31M</b>	<b>Big Sky 6E(6L)</b>	<b>Mule 31-K(N)</b>	<b>DAILY TOTALS</b>
<b>43-037-31710</b>	<b>43-037-31714</b>	<b>43-037-31617</b>	
<b>SW/SW Sec31-41-24E</b>	<b>NW/SW Sec 6-42S-25E</b>	<b>NE/SW Sec 31-41S-24E</b>	

**Vented Gas (MCF) December 1997**

25-Dec	25	62	25	715
26-Dec	25	94		744
27-Dec	20	94	21	730
28-Dec	19	90	21	735
29-Dec	28	62	29	753
30-Dec	22	62		686
31-Dec	23	62		661
<b>Dec Total</b>	<b>162</b>	<b>526</b>	<b>96</b>	<b>5024</b>

**Vented Gas (MCF) January 1998**

1-Jan	22	62		704
2-Jan	23	63		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
<b>Jan Total</b>	<b>276</b>	<b>779</b>	<b>107</b>	<b>7891</b>
<b>Grand Total</b>	<b>438</b>	<b>1305</b>	<b>203</b>	<b>12915</b>



**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

**MONTHLY OIL AND GAS PRODUCTION REPORT**

OPERATOR NAME AND ADDRESS

Susan Herrera  
 RIM SOUTHWEST CORPORATION  
 C/O HOLCOMB OIL AND GAS, INC.  
 PO BOX 2058  
 FARMINGTON, NM 87499-2058

UTAH ACCOUNT NUMBER: N9290  
 REPORT PERIOD (MONTH/YEAR): 02/2001  
 AMENDED REPORT  (Highlight Changes)

WELL NAME			Producing Zone	Well Status	Well Type	Days Oper	Production Volumes			
API Number	Entity	Location					OIL (BBL)	GAS (MCF)	WATER (BBL)	
✓	BLUE HOGAN 1J-1									
4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36	
✓	ANASAZI 5L-3									
4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0	
✓	BROWN HOGAN 1A-2									
4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0	
✓	STERLING 36L-1									
4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0	
✓	MULE 31K (N)									
4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73	
✓	NORTH HERON 35C									
4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0	
✓	BURRO 31I									
4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0	
✓	JACK 31G									
4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0	
✓	MULE 31M									
4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120	
✓	BIG SKY 6E (6L) 1									
4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0	
✓	CLAY HILL CANYON 32D									
4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0	
✓	ANASAZI 6H-1									
4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0	
							<b>TOTALS</b>	4622	4101	229

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: April 13, 2001

Signature

*Susan M. Herrera*  
 Susan M. Herrera

**RECEIVED**

Telephone Number (505) 326-0550

APR 17 2001

DIVISION OF  
 OIL, GAS AND MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>SEE ATTACHED</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo</b>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u>		7. UNIT or CA AGREEMENT NAME: <b>SEE ATTACHED</b>
2. NAME OF OPERATOR: <b>RIM Southwest Corporation</b>		8. WELL NAME and NUMBER: <b>SEE ATTACHED</b>
3. ADDRESS OF OPERATOR: P.O. Box 145    CITY <b>Farmington</b> STATE <b>NM</b> ZIP <b>87499</b>		9. API NUMBER: <b>SEE ATTACH</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>SEE ATTACHED</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		COUNTY: <b>San Juan</b>
		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Corporate Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
**Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.**

**RECEIVED**

APR 27 2001

DIVISION OF  
OIL, GAS AND MINING

NAME (PLEASE PRINT) <u>W. J. Holcomb</u>	TITLE <u>Vice-President</u>
SIGNATURE <u><i>W. J. Holcomb</i></u>	DATE <u>4/23/2001</u>

(This space for State use only)

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

- |         |
|---------|
| 1. GLH  |
| 2. CDW  |
| 3. FILE |

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change**

Merger

The operator of the well(s) listed below has changed, effective:

**12/1/2000**

<b>FROM:</b> (Old Operator): N9290-Harken Southwest Corporation 5 Inverness Drive, East Denver, CO 80112  Phone: (303) 799-9828	<b>TO:</b> ( New Operator): N1715-Rim Southwest Corporation PO Box 145 Farmington, NM 87499  Phone: (505) 327-5531
--	---

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	220E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	230E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	240E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	250E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	250E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	250E	4303731714	11722	Indian	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/2001
- The new company was checked on the Department of Commerce, Division of Corporations Database on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143
5. If **NO**, the operator was contacted on: \_\_\_\_\_
6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: not given

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003
3. Bond information entered in RBDMS on: n/a
4. Fee wells attached to bond in RBDMS on: n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: n/a

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: RLB0001937

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

Because this was a merger, all LA and PA wells belong to Rim Southwest also. However, they are still on our computer as Harken Southwest because no list was provided to move them.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.  
**See Attached**

6. If Indian, Allottee or Tribe Name  
**Navajo Nation**

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County  
Utah**

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

**RIM SOUTHWEST CORPORATION**

3. Address and Telephone No.

**P. O. Box 145, Farmington, NM 87499 (505)327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Vent/Flare Gas

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Please be advised that RIM Southwest Corporation is requesting approval to vent gas until September 14, 2001. After September 14, we request permission to flare the gas until the Aneth Plant is back on line.

Attachment

cc: State of Utah  
Navajo Nation-Minerals  
Navajo Nation EPA - Air Quality  
BIA - Gallup, NM

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/17/01  
By: [Signature]

Ext. Oct 15, 2001

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR  
Date: 9-17-01  
Initials: CHD

RECEIVED

SEP 18 2001  
DIVISION OF  
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct

Signed

Title

W. J. Holcomb, Vice President Date 8/29/01

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS
			VENTED MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19
NOC 14205297			
(NMNM 5756)	Monument 8N-2	08-40S-25E	18
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23
	Navajo Tribal 14-10	10-40S-24E	1
	Navajo Tribal 41-2	02-42S-24E	8
	Navajo Tribal 32-26	26-40S-22E	8
NOG 8707-1162	Sahgzie #1	05-42S-24E	16
	Anasazi #1	05-42S-24E	67
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI
	Runway 10C-5A	10-40S-25E	SI
NOG 8707-1190	Runway 10E-2	10-40S-25E	17
NOG 8707-1191	Monument 17E-2	17-40S-25e	0
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27
	Brown Hogan 1A-2	01-42S-23E	18
NOG 8707-12321	Burro 31-1	31-41S-24E	1
	Jack 31G	31-41S-24E	SI
	Mule 31K (N)	31-41S-24E	7
	Mule 31M	31-41S-24E	24
<b>TOTAL AVERAGE</b>			<b>254</b>

-43-037-31714  
 -43-037-31509  
 -43-037-31497  
 -43-037-30971  
 -43-037-30977  
 -43-037-31041  
 -43-037-31060  
 -43-037-31472  
 -43-037-31478  
 -43-037-31515  
 -43-037-31597  
 -43-037-31550  
 -43-037-31547  
 -43-037-31562  
 -43-037-31573  
 -43-037-31708  
 -43-037-31709  
 -43-037-31617  
 -43-037-31710



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC80013  
 CUST. NO. 33500- 10095

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	MULE 31M	<b>PRESSURE</b>	25 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	76 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	6/30/98
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E412018	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.332	0.0000	0.00	0.0129
CO2	0.112	0.0000	0.00	0.0017
METHANE	57.114	0.0000	578.17	0.3164
ETHANE	19.739	5.2802	350.11	0.2049
PROPANE	11.863	3.2694	299.17	0.1806
I-BUTANE	1.498	0.4900	48.83	0.0301
N-BUTANE	4.080	1.2864	133.41	0.0819
I-PENTANE	1.011	0.3699	40.54	0.0252
N-PENTANE	1.215	0.4401	48.82	0.0303
HEXANE PLUS	2.036	0.8883	104.67	0.0655
<b>TOTAL</b>	<b>100.000</b>	<b>12.0243</b>	<b>1,603.72</b>	<b>0.9494</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,614.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,586.4
REAL SPECIFIC GRAVITY		0.9559

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,605.7
DRY BTU @ 14.696	1,610.7
DRY BTU @ 14.730	1,614.5
DRY BTU @ 15.025	1,646.8

CYLINDER #	SJ99
CYLINDER PRESSURE	10 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC80012  
 CUST. NO. 33500- 10015

### WELL/LEASE INFORMATION

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	MULE 31K	<b>PRESSURE</b>	24 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	84 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	6/30/98
<b>FORMATION</b>	DESERT CREEK	<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E340052	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.925	0.0000	0.00	0.0186
CO2	0.133	0.0000	0.00	0.0020
METHANE	63.617	0.0000	643.99	0.3524
ETHANE	16.771	4.4862	297.47	0.1741
PROPANE	9.543	2.6301	240.66	0.1453
I-BUTANE	1.205	0.3942	39.28	0.0242
N-BUTANE	3.315	1.0452	108.39	0.0665
I-PENTANE	0.794	0.2905	31.84	0.0198
N-PENTANE	0.944	0.3419	37.93	0.0235
HEXANE PLUS	1.753	0.7648	90.12	0.0564
<b>TOTAL</b>	<b>100.000</b>	<b>9.9529</b>	<b>1,489.68</b>	<b>0.8829</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0056
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,498.0
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,472.0
REAL SPECIFIC GRAVITY		0.8877

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,489.9
DRY BTU @ 14.696	1,494.6
DRY BTU @ 14.730	1,498.0
DRY BTU @ 15.025	1,528.0

CYLINDER #	048A
CYLINDER PRESSURE	24 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	CHELLE DURBIN



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC80009  
 CUST. NO. 33500- 10080

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	JACK 31G	<b>PRESSURE</b>	28 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN	<b>SAMPLE TEMP</b>	76 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	6/30/98
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E410005	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.975	0.0000	0.00	0.0191
CO2	0.062	0.0000	0.00	0.0009
METHANE	70.488	0.0000	713.55	0.3904
ETHANE	13.388	3.5813	237.46	0.1390
PROPANE	7.057	1.9449	177.97	0.1075
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.613	0.8239	85.44	0.0524
I-PENTANE	0.750	0.2744	30.08	0.0187
N-PENTANE	0.920	0.3332	36.97	0.0229
HEXANE PLUS	1.735	0.7570	89.20	0.0558
<b>TOTAL</b>	<b>100.000</b>	<b>8.0458</b>	<b>1,403.66</b>	<b>0.8271</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0049
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,410.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,386.0
REAL SPECIFIC GRAVITY		0.8311

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,402.9	CYLINDER #	004
DRY BTU @ 14.696	1,407.3	CYLINDER PRESSURE	12 PSIG
DRY BTU @ 14.730	1,410.5	DATE RUN	7/1/98
DRY BTU @ 15.025	1,438.8	ANALYSIS RUN BY	DAVE MARTIN



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00018  
 CUST. NO. 33500- 10035

**WELL/LEASE INFORMATION**

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	BIG SKY 6E	PRESSURE	17 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	21 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/23/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E430640	FOREMAN/ENGR.	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
<b>TOTAL</b>	<b>100.000</b>	<b>9.0422</b>	<b>1,408.36</b>	<b>0.8260</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0048
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,415.4
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,390.8
REAL SPECIFIC GRAVITY		0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7
DRY BTU @ 14.696	1,412.2
DRY BTU @ 14.730	1,415.4
DRY BTU @ 15.025	1,443.8

CYLINDER #	007
CYLINDER PRESSURE	17 PSIG
DATE RUN	12/28/00
ANALYSIS RUN BY	GINA HANON

## CQM, INC. ON-SITE GAS ANALYSIS

UNIT 2

1427 W. AZTEC BLVD. #3

AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:48:14  
 Station #: 78-153 Sample Date: 06/13/2001  
 Station Name: BLUE/BROWN HOGAN Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_15306.2

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	3.577	0.000	0.035	
Methane	55.640	563.264	0.308	
CO2	0.033	0.000	0.001	
Ethane	17.739	314.636	0.184	4.744
H2S (APPROX)	0.000	0.000	0.000	
Propane	11.983	302.202	0.182	3.302
i-Butane	1.627	53.031	0.033	0.532
n-Butane	4.370	142.892	0.088	1.378
i-Pentane	1.194	47.881	0.030	0.437
n-Pentane	1.465	58.866	0.036	0.531
Hexanes	1.955	93.193	0.058	0.804
Heptanes	0.373	20.572	0.013	0.172
Octanes	0.044	2.756	0.002	0.023
Nonanes	0.000	0.000	0.000	
Ideal Total	100.000	1599.293	0.969	11.922
Unnormalized Total	111.244			

Gross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1610.156

Sat. = 1583.743

Actual = 1610.156

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.302

Butane GPM = 1.910

Gasoline GPM = 1.966

26# Gasoline GPM = 3.344

Total GPM = 11.922

Real Relative Density Calculated = 0.9755

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00010  
 CUST. NO. 33500- 10090

**WELL/LEASE INFORMATION**

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MONUMENT 17-E-2	PRESSURE	20 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	47 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311659	FOREMAN/ENGR.	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
<b>TOTAL</b>	<b>100.000</b>	<b>9.0934</b>	<b>1,470.45</b>	<b>0.8593</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0054  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,479.5  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,453.8  
 REAL SPECIFIC GRAVITY 0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650 1,471.5  
 DRY BTU @ 14.696 1,476.1  
 DRY BTU @ 14.730 1,479.5  
 DRY BTU @ 15.025 1,509.2

CYLINDER # 005  
 CYLINDER PRESSURE 22 PSIG  
 DATE RUN 12/22/00  
 ANALYSIS RUN BY AMY JUSTICE



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00014  
 CUST. NO. 33500- 10120

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	RUNAWAY 10E2	<b>PRESSURE</b>	21 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	60 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E311617	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.534	0.0000	0.00	0.0052
CO2	0.053	0.0000	0.00	0.0008
METHANE	50.326	0.0000	509.45	0.2788
ETHANE	23.092	6.1771	409.58	0.2397
PROPANE	14.269	3.9325	359.85	0.2173
I-BUTANE	1.588	0.5194	51.76	0.0319
N-BUTANE	4.428	1.3961	144.79	0.0889
I-PENTANE	0.988	0.3615	39.62	0.0246
N-PENTANE	1.348	0.4882	54.17	0.0336
HEXANE PLUS	3.374	1.4721	173.46	0.1086
<b>TOTAL</b>	<b>100.000</b>	<b>14.3471</b>	<b>1,742.68</b>	<b>1.0292</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0082
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,758.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,728.2
REAL SPECIFIC GRAVITY		1.0390

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,749.3
DRY BTU @ 14.696	1,754.8
DRY BTU @ 14.730	1,758.8
DRY BTU @ 15.025	1,794.1

CYLINDER #	AZT035
CYLINDER PRESSURE	26 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00013  
 CUST. NO. 33500- 10115

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	RUNAWAY 10C 5-A	<b>PRESSURE</b>	9 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	69 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E308719	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.794	0.0000	0.00	0.0077
CO2	0.109	0.0000	0.00	0.0017
METHANE	56.637	0.0000	573.34	0.3137
ETHANE	18.737	5.0121	332.34	0.1945
PROPANE	11.185	3.0826	282.07	0.1703
I-BUTANE	1.296	0.4239	42.24	0.0260
N-BUTANE	3.814	1.2026	124.71	0.0765
I-PENTANE	1.035	0.3787	41.51	0.0258
N-PENTANE	1.558	0.5643	62.60	0.0388
HEXANE PLUS	4.835	2.1095	248.57	0.1556
<b>TOTAL</b>	<b>100.000</b>	<b>12.7737</b>	<b>1,707.38</b>	<b>1.0106</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0080
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,723.7
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,693.7
REAL SPECIFIC GRAVITY		1.0203

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,714.3
DRY BTU @ 14.696	1,719.7
DRY BTU @ 14.730	1,723.7
DRY BTU @ 15.025	1,758.2

CYLINDER #	A002
CYLINDER PRESSURE	14 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

COM, INC.  
1427 W.AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE	Report Date: 06/19/2001 12:58:11
Station #: 78-138	Sample Date: 06/13/2001
Station Name: RUNWAY 10-G-1	Flowing Pressure: 0 psig
Field: RIM SOUTHWEST	Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13806.1

### Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.082	0.000	0.010	
Methane	59.728	604.648	0.331	
CO2	0.074	0.000	0.001	
Ethane	18.511	328.328	0.192	4.951
H2S (approx)	0.000	0.000	0.000	
Propane	12.402	312.769	0.189	3.417
i-Butane	1.191	38.820	0.024	0.390
n-Butane	3.539	115.720	0.071	1.116
i-Pentane	0.926	37.134	0.023	0.335
n-Pentane	1.239	49.785	0.031	0.453
Hexanes	0.834	39.756	0.025	0.343
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.050	3.132	0.002	0.026

Ideal Total	100.000	1553.477	0.914	11.227
Unnormalized Total	92.627			

Gross BTU/Real Cu. Ft.  
(@ 60 deg F, 14.730)

Dry = 1563.024  
Sat. = 1537.392

Actual = 1563.024

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.417

Butane GPM = 1.505

Gasoline GPM = 1.353

26# Gasoline GPM = 2.469

Total GPM = 11.227

Real Relative Density Calculated = 0.9190

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

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CQM, INC. ON-SITE GAS ANALYSIS T 2  
 1427 W. AZTEC BLVD. #3  
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:53:04  
 Station #: 78-148 Sample Date: 06/13/2001  
 Station Name: SAGEEZIE/ANASAZI Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14806.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.266	4.814
i-Butane	2.367	77.151	0.048	0.774
n-Butane	5.635	184.256	0.113	1.777
i-Pentane	1.485	59.551	0.037	0.543
n-Pentane	1.729	69.474	0.043	0.626
Hexanes	1.947	92.812	0.058	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1819.096	1.080	15.891
Unnormalized Total	113.650			

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00012  
 CUST. NO. 33500- 10105

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	NAVAJO TRIBAL 32-26	<b>PRESSURE</b>	17 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	30 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202A-52531	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.934	0.0000	0.00	0.0090
CO2	0.050	0.0000	0.00	0.0008
METHANE	71.878	0.0000	727.62	0.3981
ETHANE	15.057	4.0277	267.07	0.1563
PROPANE	6.531	1.7999	164.71	0.0994
I-BUTANE	0.770	0.2519	25.10	0.0155
N-BUTANE	1.958	0.6174	64.02	0.0393
I-PENTANE	0.510	0.1866	20.45	0.0127
N-PENTANE	0.663	0.2401	26.64	0.0165
HEXANE PLUS	1.649	0.7195	84.78	0.0531
<b>TOTAL</b>	<b>100.000</b>	<b>7.8431</b>	<b>1,380.39</b>	<b>0.8007</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY  
 \*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0046  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,387.6  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,363.5  
 REAL SPECIFIC GRAVITY 0.8049

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,380.1	CYLINDER #	KFL148
DRY BTU @ 14.696	1,384.4	CYLINDER PRESSURE	23 PSIG
DRY BTU @ 14.730	1,387.6	DATE RUN	12/22/00
DRY BTU @ 15.025	1,415.4	ANALYSIS RUN BY	AMY JUSTICE

## CQM, INC. ON-SITE GAS ANALYSIS

UNIT 2

1427 W. AZTEC BLVD. #3  
AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICES Report Date: 06/19/2001 13:59:32  
 Station #: 78-145 Sample Date: 06/13/2001  
 Station Name: NT41-2 Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S 1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14506.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.152	0.000	0.011	
Methane	56.788	574.886	0.315	
CO2	0.085	0.000	0.001	
Ethane	19.719	349.755	0.205	5.274
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.656	319.174	0.193	3.487
i-Butane	1.519	49.511	0.030	0.497
n-Butane	4.167	136.255	0.084	1.314
i-Pentane	1.029	41.265	0.026	0.377
n-Pentane	1.297	52.116	0.032	0.470
Hexanes	1.366	65.116	0.041	0.562
Heptanes	0.196	10.810	0.007	0.090
Octanes	0.026	1.628	0.001	0.013
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1600.514 0.945 12.084  
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)  
 Dry = 1611.115  
 Sat. = 1584.601  
 Actual = 1611.115  
 ( 0.000 lbs. water/MMCF)

Gasoline Content  
 Propane GPM = 3.487  
 Butane GPM = 1.811  
 Gasoline GPM = 1.512  
 26# Gasoline GPM = 2.826  
 Total GPM = 12.084

Real Relative Density Calculated = 0.9508  
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9934

COM, IN ON-SITE GAS ANALYSIS UPT 2  
 1427 W. AZTEC BLVD. #3  
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:32:41  
 Station #: 78-146 Sample Date: 06/14/2001  
 Station Name: NT #23-13 Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14606.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.159	0.000	0.011	
Methane	56.655	573.539	0.314	
CO2	0.136	0.000	0.002	
Ethane	19.548	346.722	0.203	5.228
H2S (APPROX)	0.000	0.000	0.000	
Propane	12.674	319.628	0.193	3.492
i-Butane	1.537	50.097	0.031	0.503
n-Butane	4.064	132.887	0.082	1.281
i-Pentane	0.965	38.698	0.024	0.353
n-Pentane	1.172	47.093	0.029	0.424
Hexanes	1.532	73.029	0.046	0.630
Heptanes	0.424	23.385	0.015	0.196
Octanes	0.134	8.393	0.005	0.069
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1613.471	0.954	12.177
Unnormalized Total	107.575			

Gross BTU/Real Cu. Ft.  
 (@ 60 deg F, 14.730)

Dry = 1624.438  
 Sat. = 1597.782

Actual = 1624.438

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.492

Butane GPM = 1.784

Gasoline GPM = 1.672

26# Gasoline GPM = 2.953

Total GPM = 12.177

Real Relative Density Calculated = 0.9603

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00009  
 CUST. NO. 33500- 10085

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	MONUMENT 8N2	<b>PRESSURE</b>	12 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	55 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E311589	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.139	0.0000	0.00	0.0110
CO2	0.064	0.0000	0.00	0.0010
METHANE	60.307	0.0000	610.49	0.3341
ETHANE	15.875	4.2466	281.57	0.1648
PROPANE	11.057	3.0473	278.85	0.1684
I-BUTANE	1.628	0.5325	53.06	0.0327
N-BUTANE	5.194	1.6377	169.83	0.1042
I-PENTANE	1.202	0.4398	48.20	0.0299
N-PENTANE	1.620	0.5868	65.09	0.0404
HEXANE PLUS	1.914	0.8351	98.40	0.0616
<b>TOTAL</b>	<b>100.000</b>	<b>11.3257</b>	<b>1,605.49</b>	<b>0.9480</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0067
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,617.3
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,589.2
REAL SPECIFIC GRAVITY		0.9551

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,608.5	CYLINDER #	050
DRY BTU @ 14.696	1,613.6	CYLINDER PRESSURE	15 PSIG
DRY BTU @ 14.730	1,617.3	DATE RUN	12/22/00
DRY BTU @ 15.025	1,649.7	ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00010  
 CUST. NO. 33500- 10090

### WELL/LEASE INFORMATION

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	MONUMENT 17-E-2	<b>PRESSURE</b>	20 PSIG
<b>COUNTY/STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	47 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E311659	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

### REMARKS

### ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.958	0.0000	0.00	0.0093
CO2	0.071	0.0000	0.00	0.0011
METHANE	67.968	0.0000	688.04	0.3765
ETHANE	14.933	3.9946	264.87	0.1550
PROPANE	8.159	2.2486	205.76	0.1242
I-BUTANE	0.965	0.3157	31.45	0.0194
N-BUTANE	2.976	0.9383	97.31	0.0597
I-PENTANE	0.754	0.2759	30.24	0.0188
N-PENTANE	1.118	0.4049	44.92	0.0279
HEXANE PLUS	2.098	0.9154	107.86	0.0675
<b>TOTAL</b>	<b>100.000</b>	<b>9.0934</b>	<b>1,470.45</b>	<b>0.8593</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0054
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,479.5
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,453.8
REAL SPECIFIC GRAVITY		0.8647

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5
DRY BTU @ 14.696	1,476.1
DRY BTU @ 14.730	1,479.5
DRY BTU @ 15.025	1,509.2

CYLINDER #	005
CYLINDER PRESSURE	22 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00008  
 CUST. NO. 33500- 10000

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	CAJON 8D1	<b>PRESSURE</b>	12 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	42 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/21/00
<b>FORMATION</b>	ISMAY	<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E311625	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	0.802	0.0000	0.00	0.0078
CO2	0.070	0.0000	0.00	0.0011
METHANE	58.781	0.0000	595.04	0.3256
ETHANE	18.008	4.8171	319.41	0.1870
PROPANE	12.630	3.4808	318.52	0.1923
I-BUTANE	1.567	0.5126	51.07	0.0314
N-BUTANE	4.747	1.4967	155.22	0.0953
I-PENTANE	0.925	0.3385	37.09	0.0230
N-PENTANE	1.207	0.4372	48.50	0.0301
HEXANE PLUS	1.263	0.5510	64.93	0.0406
<b>TOTAL</b>	<b>100.000</b>	<b>11.6339</b>	<b>1,589.78</b>	<b>0.9341</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

\*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR	(1/Z)	1.0065
BTU/CU.FT (DRY) CORRECTED FOR	(1/Z)	1,600.8
BTU/CU.FT (WET) CORRECTED FOR	(1/Z)	1,573.0
REAL SPECIFIC GRAVITY		0.9408

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,592.1
DRY BTU @ 14.696	1,597.1
DRY BTU @ 14.730	1,600.8
DRY BTU @ 15.025	1,632.9

CYLINDER #	AZT047
CYLINDER PRESSURE	15 PSIG
DATE RUN	12/26/00
ANALYSIS RUN BY	AMY JUSTICE

CQM, INC. N-SITE GAS ANALYSIS T 2  
 1427 W. AZTEC BLVD. #3  
 AZTEC, NM 87410 505-333-2003

Source: ELKHORN FIELD SERVICE Report Date: 06/19/2001 14:36:40  
 Station #: 78-144 Sample Date: 06/14/2001  
 Station Name: MON/CAJON MESA Flowing Pressure: 0 psig  
 Field: RIM SOUTHWEST Flowing Temp.: 0 F

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14406.1

## Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	0.799
Heptanes	0.514	28.348	0.018	0.237
Octanes	0.143	8.957	0.006	0.073
Nonanes	0.000	0.000	0.000	

Ideal Total 100.000 1546.420 0.908 10.332  
 Unnormalized Total 108.337

## Cross BTU/Real Cu. Ft.

(@ 60 deg F, 14.730)

Dry = 1555.948

Sat. = 1530.436

Actual = 1555.948

( 0.000 lbs. water/MMCF)

## Gasoline Content

Propane GPM = 2.703

Butane GPM = 1.533

Gasoline GPM = 1.890

26# Gasoline GPM = 3.037

Total GPM = 10.332

Real Relative Density Calculated = 0.9133

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



2030 AFTON PLACE  
 FARMINGTON, N.M. 87401  
 (505) 325-6622

ANALYSIS NO. HSC00018  
 CUST. NO. 33500- 10035

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	BIG SKY 6E	<b>PRESSURE</b>	17 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN UT	<b>SAMPLE TEMP</b>	21 DEG.F
<b>LOCATION</b>	ANETH	<b>WELL FLOWING</b>	Y
<b>FIELD</b>		<b>DATE SAMPLED</b>	12/23/00
<b>FORMATION</b>		<b>SAMPLED BY</b>	FGM
<b>CUST.STN.NO.</b>	202E430640	<b>FOREMAN/ENGR.</b>	STEVEN J. MANSUR

**REMARKS**

**ANALYSIS**

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR *
NITROGEN	1.658	0.0000	0.00	0.0160
CO2	0.037	0.0000	0.00	0.0006
METHANE	66.226	0.0000	670.41	0.3668
ETHANE	17.222	4.6069	305.47	0.1788
PROPANE	9.526	2.6254	240.24	0.1450
I-BUTANE	1.012	0.3310	32.99	0.0203
N-BUTANE	2.724	0.8589	89.07	0.0547
I-PENTANE	0.496	0.1815	19.89	0.0124
N-PENTANE	0.553	0.2003	22.22	0.0138
HEXANE PLUS	0.546	0.2382	28.07	0.0176
<b>TOTAL</b>	<b>100.000</b>	<b>9.0422</b>	<b>1,408.36</b>	<b>0.8260</b>

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY  
 \*\* @ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z) 1.0048  
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z) 1,415.4  
 BTU/CU.FT (WET) CORRECTED FOR (1/Z) 1,390.8  
 REAL SPECIFIC GRAVITY 0.8302

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7	CYLINDER #	007
DRY BTU @ 14.696	1,412.2	CYLINDER PRESSURE	17 PSIG
DRY BTU @ 14.730	1,415.4	DATE RUN	12/28/00
DRY BTU @ 15.025	1,443.8	ANALYSIS RUN BY	GINA HANON

CQM, INC.  
1427 W. AZTEC, BLVD. #3 AZTEC, NM 87410  
505-333-2003

Source: ELKHORN FIELD SERVICE      Report Date: 06/19/2001 12:14:41  
Station #: 78-132      Sample Date: 06/13/2001  
Station Name: HILLSIDE 6-C *Big Sky*      Flowing Pressure: 0      psig  
Field: RIM SOUTHWEST      Flowing Temp.: 0      F

Method: c:\mti\ezchrom\200\methods\sour2.met  
File: c:\mti\ezchrom\200\chrom\78\_13206.1

### Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	1.876	0.000	0.018	
Methane	65.826	666.381	0.365	
CO2	0.039	0.000	0.001	
Ethane	16.765	297.360	0.174	4.484
H2S (approx)	0.000	0.000	0.000	
Propane	9.827	247.829	0.150	2.708
i-Butane	0.865	28.194	0.017	0.283
n-Butane	2.514	82.204	0.050	0.793
i-Pentane	0.633	25.384	0.016	0.229
n-Pentane	0.787	31.623	0.020	0.288
Hexanes	0.689	32.844	0.021	0.283
Heptanes	0.166	9.155	0.006	0.077
Octanes	0.013	0.814	0.001	0.007

Ideal Total	100.000	1421.788	0.837	9.151
Unnormalized Total	94.894			

Gross BTU/Real Cu. Ft.  
(@ 60 deg F, 14.730)  
Dry = 1428.837  
Sat. = 1405.444  
Actual = 1428.837  
( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 2.708
Butane GPM = 1.076
Gasoline GPM = 0.884
26# Gasoline GPM = 1.676
Total GPM = 9.151

Real Relative Density Calculated = 0.8408  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9951

---

Division of Oil, Gas and Mining  
**PHONE CONVERSATION DOCUMENTATION FORM**

Route original/copy to:

Well File \_\_\_\_\_

Suspense

Other

(Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng. \_\_\_\_\_

(Return Date) \_\_\_\_\_

(API No.) \_\_\_\_\_

(To-Initials) \_\_\_\_\_

1. Date of Phone Call: 9/12/01 Time: 9:50

2. DOGM Employee (name) DUSTIN DOUCET ( Initiated Call)

Talked to:

Name Wayne Townsend ( Initiated Call) - Phone No. (505) 599 6359  
of (Company/Organization) BLM

3. Topic of Conversation: Gas Flaring in Aneth area - bad western  
Gas Resources Pipeline

4. Highlights of Conversation: Wayne has had several meetings with  
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,  
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the  
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from  
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires  
2005 western's renegotiation with Navajo to extend Row was denied [main choice] 1 month  
to rebuild once OK given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]  
c) Use 6" Conoco Line - convert to gas and truck liquids from plant - talks broke down 9/7/01.  
Everyone in agreement to keep wells producing - some verbal complaints from public, nothing  
in writing yet. Red Mesa & Aneth chapters wanted full shut-in. Current plan: EPA sending  
letter today to flare gas thru plant (gas will be metered). The gas will be counted as  
cost gas - no royalty due - because out of control of companies (producers). H<sub>2</sub>S and other  
safety monitors will be set up around plant and monitor health risks, etc. BLM  
has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably  
won't be back into operation before then though.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**RIM SOUTHWEST CORPORATION**

3a. Address **87499**  
**P.O. Box 145, Farmington, NM**

3b. Phone No. (include area code)  
**(505) 327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.  
**See Attached**

6. If Indian, Allottee or Tribe Name  
**Navajo Nation**

7. If Unit or CA/Agreement, Name and/or N

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**San Juan county**  
**Utah**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Vent/Flare</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Gas</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Please be advised that RIM Southwest Corporation is requesting additional approval to continue to vent/flare gas from the attached wells until December 1, 2001 or until the Aneth plant is put back on line, whichever occurs first. Please reference our previous sundry notice dated 8/29/01 which gave approval for this action through October 15, 2001.

Attachment

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

COPY SENT TO OPERATOR

Date: 11/19/01  
Initials: CHD

cc: State of Utah  
 Navajo Nation-Minerals  
 Navajo Nation EPA-Air  
 Quality  
 BIA - Gallup, NM

Date: 11/19/01

By: [Signature]  
 Dec 1, 2001

Federal Approval of This  
Action Is Necessary

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**W. J. Holcomb**

Title **Vice President**

Signature

[Signature]

Date **11/01/01**

**RECEIVED**

NOV 09 2001

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**DIVISION OF  
OIL, GAS AND MINING**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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 operations thereon.	Office	

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.

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS	
			VENTED	MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1162	Sahgzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
<b>TOTAL AVERAGE</b>			<b>254</b>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FILE**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**RIM SOUTHWEST CORPORATION**

3a. Address **87499**  
**P.O. Box 145, Farmington, NM**

3b. Phone No. (include area code)  
**(505) 327-5531**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

5. Lease Serial No.  
**See Attached**

6. If Indian, Allottee or Tribe Name  
**Navajo Nation**

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
**San Juan County**  
**Utah**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Flare Gas</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

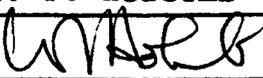
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Please be advised that as of approximately 3:00 p.m. Thursday, November 15, 2001 the attached wells were put back on line for gas sales through the Aneth pipeline/plant.**

**CC: State of Utah**  
**Navajo Nation-Minerals**  
**Navajo Nation EPA - Air Quality**  
**BIA - Gallup, NM**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) **W. J. Holcomb** Title **Vice President**

Signature  Date **11/19/01**

**RECEIVED**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date **NOV 23 2001**

Conditions of approval, if any, are attached. Approval of this notice 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 operations thereon. Office **DIVISION OF OIL, GAS AND MINING**

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.

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS	
			VENTED	MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19	43-037-31714
NOC 14205297				
(NMNM 5756)	Monument 8N-2	08-40S-25E	18	43-037-31509
(NMNM 5757)	Cajon Mesa 8D-1	08-40S-25E	0	43-037-31497
NOG 8308-1033	Navajo Tribal 23-13	13-40S-24E	23	43-037-30971
	Navajo Tribal 14-10	10-40S-24E	1	43-037-30977
	Navajo Tribal 41-2	02-42S-24E	8	43-037-31041
	Navajo Tribal 32-26	26-40S-22E	8	43-037-31060
NOG 8707-1182	Sahzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25e	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
<b>TOTAL AVERAGE:</b>			<b>254</b>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 02 2 008

FORM APPROVED  
OMB No. 1004-0135

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 RIM Southwest Corporation

3a. Address  
 5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)  
 303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 SW NW sec 10 T 40S R 25E

5. Lease Serial No. 1190  
 NOG-8707-4470-8

6. If Indian, Allottee, or Tribe Name  
 The Navajo Nation

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
 Runway 10E-2

9. API Well No.  
 43-037-31550

10. Field and Pool, or Exploratory Area  
 Greater Aneth

11. County or Parish, State  
 San Juan Co., Utah

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	<u>Return to production</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to sales on Friday, August 29, 2008.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) Kenneth J Kundrik Title Operations Engineer

Signature [Handwritten Signature] Date 9/2/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**ACCEPTED FOR RECORD**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date SEP 09 2008

Conditions of approval, if any are attached. Approval of this notice 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 operations thereon.

Office FARMINGTON FIELD OFFICE

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 any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

*Utah-OCD*  
**FARMINGTON**

**RECEIVED**  
**SEP 25 2008**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0135  
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

Bureau of Land Management  
Farmington Field Office

5. Lease Serial No.  
NOG 8707-1170

6. Indian, Allottee, or Tribe Name  
The Navajo Nation

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
Runway 10E-2

9. API Well No.  
43-037-31550

10. Field and Pool, or Exploratory Area  
Greater Aneth

11. County or Parish, State  
San Juan Co., Utah

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
RIM Southwest Corp.

3a. Address  
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)  
303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW NW Sec 10 T 40S R 25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	Returned to sales
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to sales on Friday, February 27, 2009.

RECEIVED

MAR 12 2009

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Name (Printed/ Typed) **Kenneth J Kundrik** Title **Operations Engineer**

Signature *Kenneth J Kundrik* Date **3/2/2009**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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Office \_\_\_\_\_

ACCEPTED FOR RECORD

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(Instructions on reverse)

MAR 09 2009

FARMINGTON FIELD OFFICE  
BY *CM*

IOCD

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0135 Expires: July 31, 2010
5. Lease Serial No. NOG 8707-1190
6. If Indian, Allottee, or Tribe Name The Navajo Nation
7. If Unit or CA. Agreement Designation
8. Well Name and No. Runway 10E-2
9. API Well No. 43-037-31550
10. Field and Pool, or Exploratory Area Greater Aneth
11. County or Parish, State San Juan Co., Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
RIM Southwest Corp.

3a. Address  
5 Inverness Drive East, Englewood CO 80112

3b. Phone No. (include area code)  
303-799-9828

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SWNW sec 10 T 40S R 25E

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	Returned to production
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to production on Friday, May 15, 2009 at 3:00 p.m.

RCVD MAY 28 '09

OIL CONS. DIV.

DIST. 3

RECEIVED

JUN 2 2 2009

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/ Typed) **Kenneth J Kundrik** Title **Operations Engineer**

Signature *Kenneth J. Kundrik* Date **5/18/2009**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

DIV. OF OIL, GAS & MINING

ACCEPTED FOR RECORD

MAY 26 2009

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any are attached. Approval of this notice 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 operations thereon.  
 Office \_\_\_\_\_ BY *MB*

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 any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

**NMOC**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**8/1/2012**

<b>FROM:</b> (Old Operator): N1715- RIM Southwest Corp P.O. Box 2058 Farmington, NM 87499  Phone: 1 (505) 327-5531	<b>TO:</b> ( New Operator): N2550- Navajo Nation Oil & Gas Company 1675 Broadway, Suite 1000 Denver, CO 80202  Phone: 1 (303) 534-8300
---	---

**CA No.** **Unit:** **N/A**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/19/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/19/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/11/2012
- 4a. Is the new operator registered in the State of Utah:            Business Number: 7407010-0147
- 5a. (R649-9-2)Waste Management Plan has been received on:            Requested
- 5b. Inspections of LA PA state/fee well sites complete on:            N/A
- 5c. Reports current for Production/Disposition & Sundries on:            12/11/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on:            BLM            BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:            N/A
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on:            N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:            N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on:            12/11/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on:            12/11/2012
- Bond information entered in RBDMS on:            12/11/2102
- Fee/State wells attached to bond in RBDMS on:            N/A
- Injection Projects to new operator in RBDMS on:            12/11/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on:            N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number:            N/A
- Indian well(s) covered by Bond Number:            RLB0006712
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number            N/A
- 3b. The **FORMER** operator has requested a release of liability from their bond on:            N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:            N/A

**COMMENTS:**

RIM Southwest Corp (N1715) to Navajo Nation Oil Gas Company (N2550)  
Effective 8/1/2012

Well Name	Sec	TWP	RNG	API Number	Entity	Lease	Well Type	Well Status
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	S
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	S

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>11128</b>
2. NAME OF OPERATOR: <b>Navajo Nation Oil and Gas Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo</b>
3. ADDRESS OF OPERATOR: <b>P. O. Box 5069 Window Rock STATE AZ ZIP 86515</b>		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1720 FNL &amp; 900 FWL</b>		8. WELL NAME and NUMBER: <b>Runway 10E #2</b>
QTR/GTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SW NW sec. 10 T40S R25E</b>		9. API NUMBER: <b>43-037-31550</b>
COUNTY: <b>San Juan</b>		10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
STATE: <b>UTAH</b>		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

**Navajo Nation Oil and Gas Company certifies that it is authorized by the proper lease interest owners to conduct operations associated with this application. Bond coverage pursuant to 43CFR3104 for lease activities is being provided by Navajo Nation Oil and Gas Company with their BIA Bond RLB0014524.**

**RIM Southwest Corporation the previous operator, hereby names Navajo Nation Oil and Gas Company as successor operator effective August 1, 2012**

**RIM SOUTHWEST CORPORATION**

  
**RENE MORIN, VICE-PRESIDENT**

Bond No. **RLB0006712**

NAME (PLEASE PRINT) <u>Lauren Germinario</u>	TITLE <u>Land Manager</u>
SIGNATURE <u>Lauren Germinario</u>	DATE <u>8/1/12</u>

(This space for State use only)

**APPROVED**

DEC 11 2012

DIV. OIL GAS & MINING -  
BY: Rachel Medina

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> NOG-8707-1190
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> NAVAJO NATION OIL & GAS CO		<b>8. WELL NAME and NUMBER:</b> RUNWAY 10E-2
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 4439 , Window Rock, AZ, 86515		<b>9. API NUMBER:</b> 4303731550000
<b>PHONE NUMBER:</b> 303 534-8300 Ext		<b>9. FIELD and POOL or WILDCAT:</b> RUNWAY
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1720 FNL 0900 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 10 Township: 40.0S Range: 25.0E Meridian: S		<b>COUNTY:</b> SAN JUAN
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/10/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Well is S/I, went on vent December 10, 2012 due to operational issues to sales line.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
December 31, 2012**

<b>NAME (PLEASE PRINT)</b> Lauren Germinario	<b>PHONE NUMBER</b> 303 534-8300	<b>TITLE</b> Land Manager
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/26/2012	

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**8/1/2010**

<b>FROM:</b> (Old Operator): N2550- Navajo Oil & Gas Cp. 1625 Broadway, Suite 1100 Denver, CO 80202  Phone: 1 (303) 534-8300	<b>TO:</b> ( New Operator): N3930- NNOGC Exploration & Production, LLC 1625 Broadway, Suite 1000 Denver, CO 80202  Phone: 1 (303)534-8300
---	--

**CA No.**                      **Unit:**                      **N/A**

WELL NAME	SEC TWN RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List						

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/19/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/19/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/31/2012
- Is the new operator registered in the State of Utah: \_\_\_\_\_ Business Number: 8399948-0165
- (R649-9-2)Waste Management Plan has been received on: Not Yet
- Inspections of LA PA state/fee well sites complete on: 12/31/2102
- Reports current for Production/Disposition & Sundries on: 12/31/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM                      BIA                      8/1/2012
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/1/2010
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/31/2102
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/31/2012
- Bond information entered in RBDMS on: 12/31/2012
- Fee/State wells attached to bond in RBDMS on: 12/31/2012
- Injection Projects to new operator in RBDMS on: 12/31/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: 12/31/2012

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: N/A
- Indian well(s) covered by Bond Number: RLB0006712
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

Navajo Nations Oil Gas Co. (N2550) to NNOGC Exploration Production, LLC (N3930)  
Effective 8/1/2012

Well Name	Sec	TWP	RNG	API	Entity	Lease	Well Type	Well Status
TOHONADLA 26-OSCAR	26	410S	210E	4303750022		Indian	OW	APD
TOHONADLA 35-F	35	410S	210E	4303750024		Indian	OW	APD
TOHONADLA 2-G	02	420S	210E	4303750027		Indian	OW	APD
TOHONADLA 2-B	02	420S	210E	4303750028		Indian	OW	APD
TOHONADLA 1-C	01	420S	210E	4303750029		Indian	OW	APD
TOHONADLA 2-BRAVO	02	420S	210E	4303750030		Indian	OW	APD
TOHONADLA 1-F	01	420S	210E	4303750031		Indian	OW	APD
TOHONADLA 2-H	02	420S	210E	4303750032		Indian	OW	APD
TOHONADLA 1-Delta	01	420S	210E	4303750033		Indian	OW	APD
TOHONADLA 35-INDIGO	35	410S	210E	4303750034		Indian	OW	APD
TOHONADLA 35-J	35	410S	210E	4303750035		Indian	OW	APD
UTE CANYON 25G-O	25	410S	210E	4303731913	18823	Indian	OW	DRL
TOHONADLA 35-B	35	410S	210E	4303750023	18824	Indian	OW	DRL
UTE CYN 23-INDIGO	23	410S	210E	4303731880		Indian	OW	LA
TOHONADLA 35-P	35	410S	210E	4303731886		Indian	OW	LA
TOHONADLA 1-E	01	420S	210E	4303731887		Indian	OW	LA
TOHONADLA 1-D	01	420S	210E	4303731888		Indian	OW	LA
TOHONADLA 26-O	26	410S	210E	4303731896		Indian	OW	LA
UTE CYN 23-INDIGO	23	410S	210E	4303731911		Indian	OW	LA
NAVAJO TR 23-1	02	420S	210E	4303715540	6230	Indian	OW	P
DESERT CREEK 2	35	410S	230E	4303715868	6270	Indian	OW	P
TOHONADLA 1	35	410S	210E	4303715872	11202	Indian	OW	P
TOHONADLA 23-35	35	410S	210E	4303715874	11202	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	240E	4303730971	9420	Indian	OW	P
NAVAJO TRIBAL 14-10	10	400S	240E	4303730977	10130	Indian	OW	P
SAHGZIE 1	05	420S	240E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	240E	4303731478	11042	Indian	OW	P
CAJON MESA 8D-1	08	400S	250E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	250E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	250E	4303731515	11105	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	240E	4303731545	11148	Indian	OW	P
RUNWAY 10E-2	10	400S	250E	4303731550	11128	Indian	GW	P
BLUE HOGAN 1J-1	01	420S	230E	4303731562	11161	Indian	OW	P
TOHONADLA 2-35	35	410S	210E	4303731568	11202	Indian	OW	P
ANASAZI 5L-3	05	420S	240E	4303731572	11207	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	230E	4303731573	11215	Indian	OW	P
MULE 31K (N)	31	410S	240E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	240E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	240E	4303731710	11498	Indian	OW	P
ANASAZI 6H-1	06	420S	240E	4303731744	11773	Indian	OW	P
TOHONADLA 35-P	35	410S	210E	4303750005	11202	Indian	OW	P
TOHONADLA 1-E	01	420S	210E	4303750006	6230	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	240E	4303731041	9437	Indian	OW	PA
MONUMENT 17E-2	17	400S	250E	4303731547	11139	Indian	OW	S
RUNWAY 10C-5A	10	400S	250E	4303731597	11152	Indian	OW	S
UTE CYN 23-P	23	410S	210E	4303731881	17282	Indian	OW	S

**NAVAJO NATION OIL & GAS COMPANY**

**EXPLORATION & PRODUCTION LLC**

1675 Broadway, Suite 1100 • Denver, Colorado • 80202

Telephone (303) 534-8300 • FAX (303) 534-1405



September 18, 2012

Utah Division of Oil, Gas and Mining  
c/o Rachel Medina  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

RECEIVED  
SEP 19 2012  
DIV. OF OIL, GAS & MINING

RE: Change of Operator Name and Address for Wells

Dear Rachel,

I am including with this letter several original FORM 9 to change the operator on wells. This probably will be done in two steps.

1. (16 wells) Change of Operator from RIM Southwest Corporation to Navajo Nation Oil & Gas Co.
2. (Same 16 wells) Change of Operator from Navajo Nation Oil & Gas Co. to NNOGC Exploration and Production, LLC.

We have recently registered our LLC with the State of Utah. The Utah Entity Number for NNOGC Exploration and Production, LLC is: 8399948-0165. Also, a new DOGM No. has been applied for for the LLC.

The name and address change is as follows:

OLD: Navajo Nation Oil & Gas Co.  
1675 Broadway, Suite 1100  
Denver, CO 80202  
(DOGM Operator No. N2550)

NEW: NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

Should you require any additional information please contact me at 303-534-8300.

Sincerely,

A handwritten signature in black ink, appearing to read "Katie Hynes". The signature is fluid and cursive.

Katie Hynes  
Associate Landman

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached
2. NAME OF OPERATOR: Navajo Nation Oil & Gas Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo Nation
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1100 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached List		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: Various
COUNTY: San Juan		10. FIELD AND POOL, OR WILDCAT: Various
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil and Gas Co. has registered its new entity with the State of Utah. The Operator Name and Address change applies to all wells currently operated by DOGM No. N2550 (see attachment).

The Utah Entity Number for the LLC is: 8399948-0165.

The new Entity is:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

NEW DOGM No. : 3930

Bond No. RLB0006712

Effective: July 10, 2010

NAME (PLEASE PRINT) Lauren Germinario TITLE Land Manager  
SIGNATURE Lauren Germinario DATE 9/14/12  
**APPROVED**

(This space for State use only)

DEC 3 1 2012

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DIV. OIL GAS & MINING  
BY: Rachel Medina

SEP 17 2012

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

<b>1. TYPE OF WELL</b> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> See Attached
<b>2. NAME OF OPERATOR:</b> Navajo Nation Oil & Gas Co		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Navajo Nation
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 5069                      CITY Window Rock                      STATE AZ                      ZIP 86515		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: _____		<b>8. WELL NAME and NUMBER:</b> See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		<b>9. API NUMBER:</b> Various
COUNTY: <b>San Juan</b>		<b>10. FIELD AND POOL, OR WILDCAT:</b> Various
STATE: <b>UTAH</b>		

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS.** Clearly show all pertinent details including dates, depths, volumes, etc.

The Navajo Nation Oil & Gas Co. has registered its new entity with the State of Utah. The name and address change applies to all the wells that have recently changed from RIM Southwest Corporation to Navajo Nation Oil & Gas Co. (DOGM No. N2550)

The Utah Entity Number for the LLC is: 8399948-0165

Note: A new DOGM No. has been applied for NNOGC Exploration and Production, LLC

Please see the attached list of wells that will now be operated by:

NNOGC Exploration and Production, LLC  
1625 Broadway, Suite 1000  
Denver, CO 80202

All of these work wells are covered by Bond No. RLB0006712

Effective: Aug 1, 2012

NAME (PLEASE PRINT) <u>Lauren Germinario</u>	TITLE <u>Land Manager</u>
SIGNATURE <u><i>Lauren Germinario</i></u>	DATE <u>9/18/2012</u>

**APPROVED**

**DEC 31 2012**

DIV. OIL GAS & MINING

BY: Rachel Medina (See Instructions on Reverse Side)

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SEP 19 2012  
DIV. OF OIL, GAS & MINING