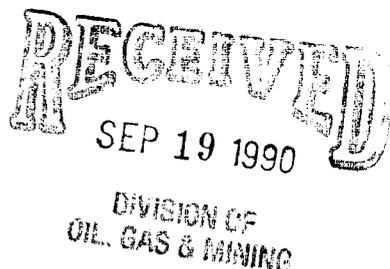


# CHUSKA ENERGY COMPANY

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

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

14 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

Ref: Application for Permit to Drill  
Blue Hogan 1J-1 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Blue Hogan 1J Well No. 1 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the location has been sited so as to allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements. Chuska Energy either controls the acreage surrounding the proposed 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,

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

LGS/csw  
File: C:\WP51\BLUHOGAN.1J\APDCOVER

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL  DEEPEN  PLUG BACK

b. Type of Well: 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.):  
At Surface: 2220' FSL, 1975' FEL  
At proposed prod. zone: 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: Blue Hogan 1J

9. Well No.: 1

10. Field and Pool, or Wildcat: Wildcat Desert Creek 350

11. QQ, Sec., T., R., N., S., or Bk. and Survey or Area: S1 T42S R23E

12. County or Parish: San Juan

13. State: Utah

14. Distance in miles and direction from nearest town or post office: 7 miles South of Montezuma Creek Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 665'

16. No. of acres in lease: 49,997

17. No. of acres assigned to this well: 110

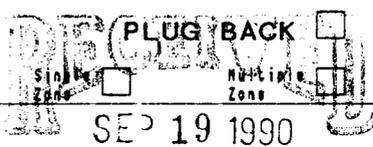
18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.: 5264'

19. Proposed depth: 5,646' CR AKAH

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 4,996' GR

22. Approx. date work will start: 12-14-90



DIVISION OF OIL, GAS & MINING

NWSE

23. PROPOSED CASING AND CEMENTING PROGRAM

| Size of Hole | Size of Casing | Weight per Foot | Setting Depth | Quantity of Cement                |
|--------------|----------------|-----------------|---------------|-----------------------------------|
| 12 1/4"      | 8 5/8"         | 24 lb           | 500'          | 371 sx 'G' + 2% CaCl <sub>2</sub> |
| 7 7/8"       | 5 1/2"         | 15.5 lb         | 5,646'        | 787 sx 'G', 65:35 Poz + 6% Gel    |

Refer to attached 10-Point Drilling Plan etc.

| OIL AND GAS |     |
|-------------|-----|
| DFN         | DF  |
| JFB         | GIH |
| DIS         | SLS |
| I-TAS       |     |
| MICROFILM   |     |
| FILE        |     |

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

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

Signed: Christopher W. Hill Title: Petroleum Engineer APPROVED BY: THESE DATE: 12/15/90

(This space for Federal or State office use) OF UTAH DIVISION OF OIL, GAS, AND MINING

API NO. 13-037-31560 Approval Date: 12/15/90

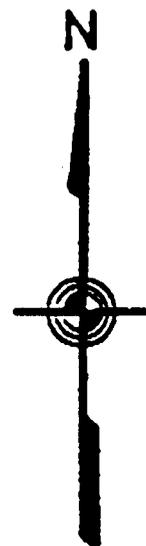
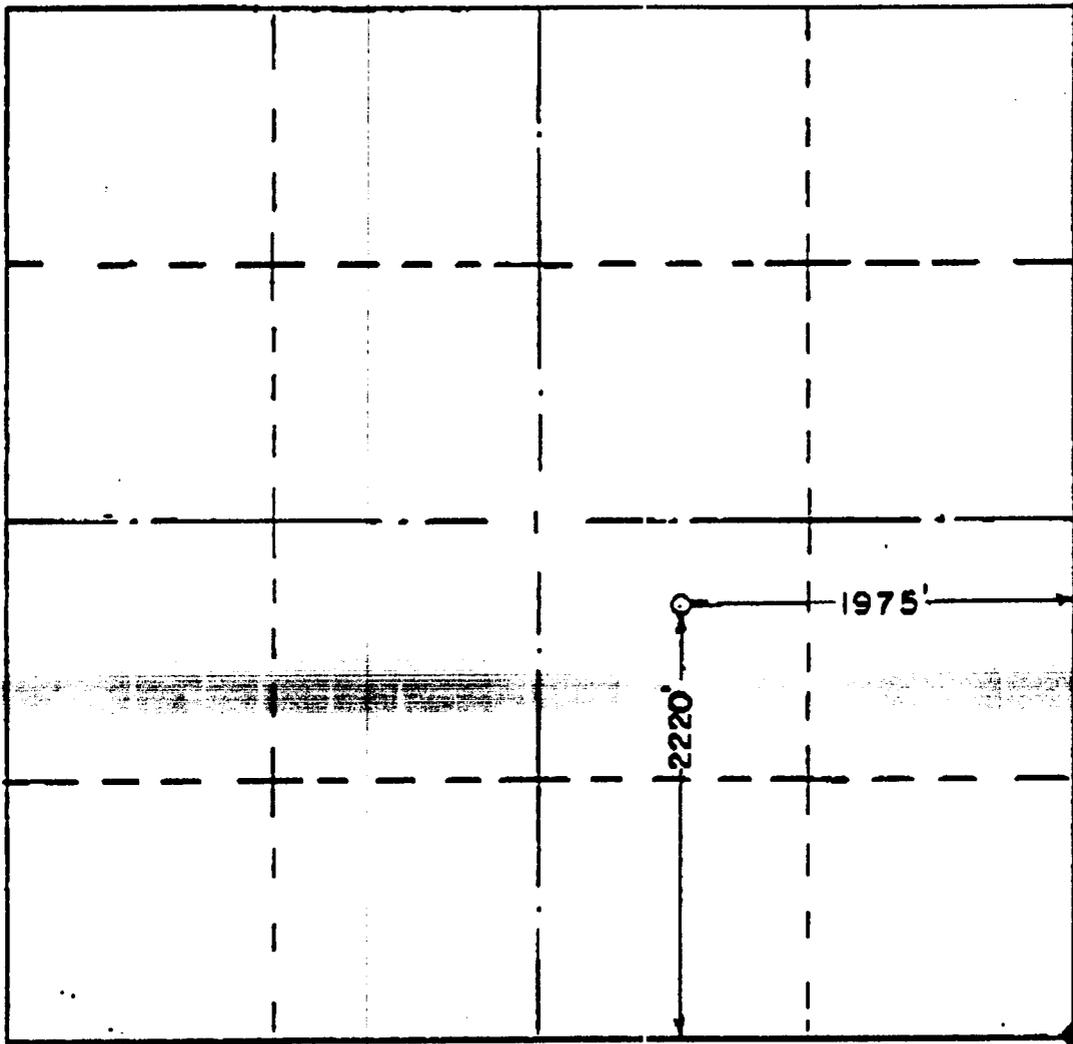
Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ BY: [Signature]

Conditions of approval, if any: WELL SPACING: R15-33

\*See Instructions On Reverse Side

Change no. 17  
2-24-60

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Blue Hogan 1 - J - 1

2220'FSL & 1975'FEL

Section 1, T.42 S., R.23 E., SLM

San Juan, UT.

4996' ground elevation

State plane coordinates from seismic control:

x = 2,629,847

y = 188,674

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

14 September 1990

Gerald G. HOGGEBERSON, LS



|    |    |    |    |                      |                      |
|----|----|----|----|----------------------|----------------------|
| 6  | 5  | 4  | 3  | 2<br>BLUE HOGAN 1J-1 | 1<br>BLUE HOGAN 1J-1 |
| 7  | 8  | 9  | 10 | 11                   | 12                   |
| 18 | 17 | 16 | 15 | 14                   | 13                   |
| 19 | 20 | 21 | 22 | 23                   | 24                   |
| 30 | 29 | 28 | 27 | 26                   | 25                   |
| 31 | 32 | 33 | 34 | 35                   | 36                   |

**CHUSKA ENERGY COMPANY**

ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T42S-R23E, SAN JUAN COUNTY, UTAH

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Blue Hogan 1J Well No. 1  
Section 1, Township 42S, Range 23E  
2220' FSL, 1975' FEL  
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,996' GR.

3. ESTIMATED FORMATION TOPS

| <u>Depth</u> | <u>Formation</u> | <u>Sub Sea</u><br><u>Elevation</u> |                   |
|--------------|------------------|------------------------------------|-------------------|
| Surface      | Morrison         | + 4,996'                           |                   |
| 834'         | Navajo           | + 4,162'                           |                   |
| 1,594'       | Chinle           | + 3,402'                           |                   |
| 2,758'       | DeChelly         | + 2,238'                           |                   |
| 2,998'       | Organ Rock       | + 1,998'                           |                   |
| 3,730'       | Cedar Mesa       | + 1,266'                           |                   |
| 4,519'       | Hermosa          | + 477'                             |                   |
| 5,262'       | Upper Ismay      | - 266'                             |                   |
| 5,376'       | Lower Ismay      | - 380'                             |                   |
| 5,442'       | Desert Creek     | - 446'                             | Primary Objective |
| 5,569'       | Akah             | - 573'                             |                   |
| 5,646'       | Total Depth      | - 650'                             |                   |

4. PROPOSED CASING/CEMENTING PROGRAM

|             | <u>Depth</u> | <u>Size</u> | <u>Weight</u> | <u>Grade</u> | <u>Coupling</u> |
|-------------|--------------|-------------|---------------|--------------|-----------------|
| Surface     | 500'         | 8 5/8"      | 24 lb         | K-55         | STC             |
| Production: | 5,646'       | 5 1/2"      | 15.5 lb       | K-55         | STC             |

Surface Cementing:

371 sx (427 ft<sup>3</sup>) Class 'G' cement 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

T.D. to 3,500' (stage collar @  $\pm$  3,500'). Lead with 154 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 178 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 489 ft<sup>3</sup>. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole.

### Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 100 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 772 ft<sup>3</sup>. Cement volumes calculated at 30% excess in open hole.

Note: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

## 5. BLOWOUT PREVENTER (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure 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 4,500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

### 4,500' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. 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

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4,500'.

Coring and/or 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 at least 500' above the Upper Ismay.

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 15 days. Anticipated spud date is 12-14-90.

EXHIBIT "A"  
BLOWOUT PREVENTER

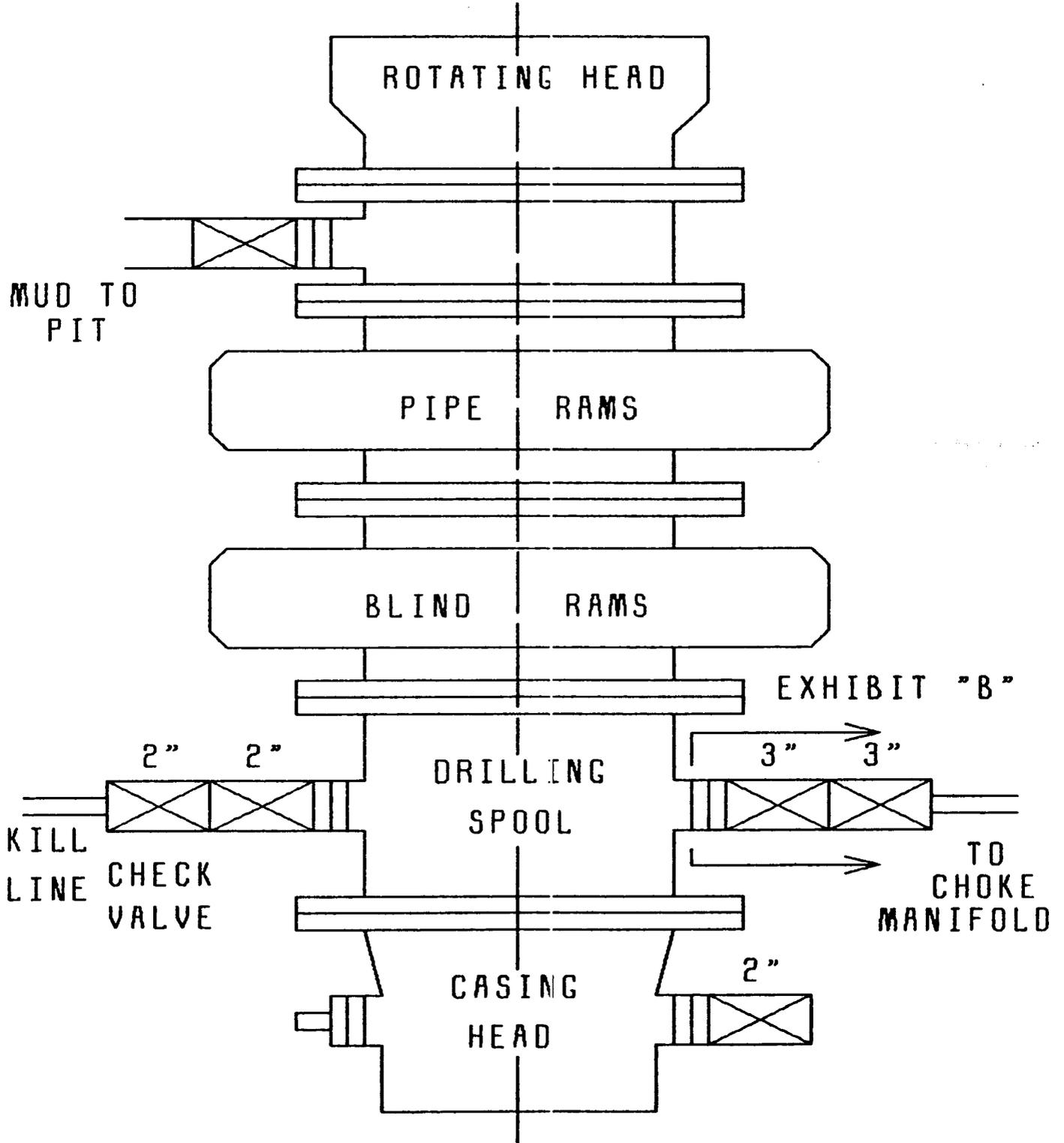
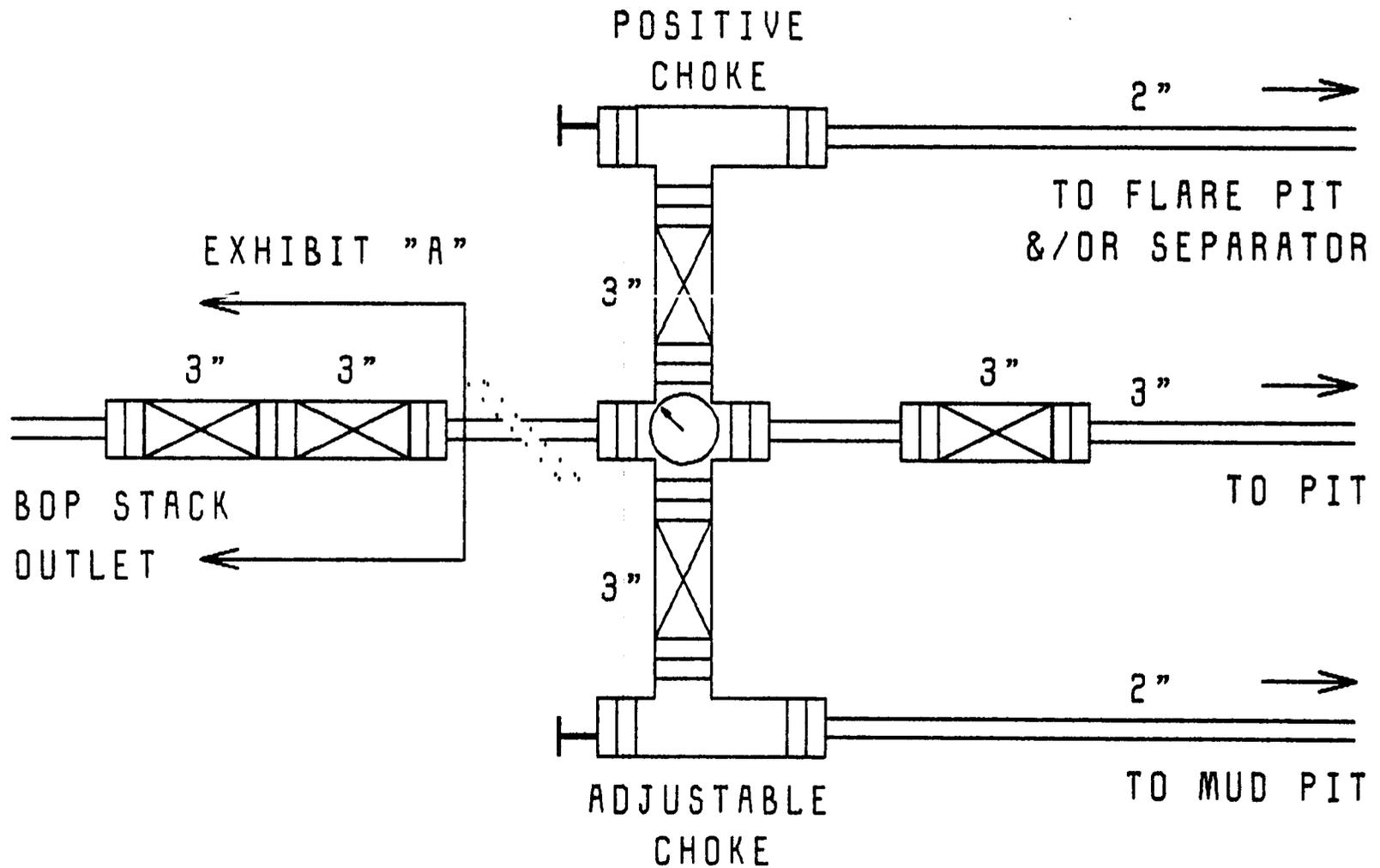


EXHIBIT "B"  
CHOKE MANIFOLD



## DETAILED DRILLING PROGRAM

DATE: 14 September, 1990

WELL NAME: Blue Hogan 1J WELL NO.: 1

LOCATION: Section 1, Township 42S, Range 23E  
2220' FSL, 1975' FEL  
San Juan County, Utah

ELEVATION: 4,996' GR

TOTAL DEPTH: 5,646' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,442'.

### 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 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface)
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at  $\pm$  3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer

sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.

10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Blue Hogan 1J Well No. 1  
Section 1, Township 42S, Range 23E  
2220' FSL, 1975' FEL  
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.

Blue Hogan 1J Well No. 1  
Section 1, Township 42S, Range 23E  
2220' FSL, 1975' FEL  
San Juan Courty, 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 on Highway 262 from Montezuma Creek. Existing roads will be maintained, as necessary, while operations are in progress.

### 2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road will be as shown on the attached topographic map. 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. The majority of road, from the paved highway, will be along an existing seismic line. It is anticipated that less than 500' of new road will need to be constructed from this line to the location pad.

### 3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

### 4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

### 5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 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 diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a north west/south east trend and will require up to 17' of cut in the reserve pit (up to 6' of cut in the southern corner of the location pad) and up to 7' of fill in the northern corner of the location pad. 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. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

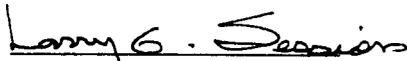
11.

OPERATORS REPRESENTATIVE

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

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.

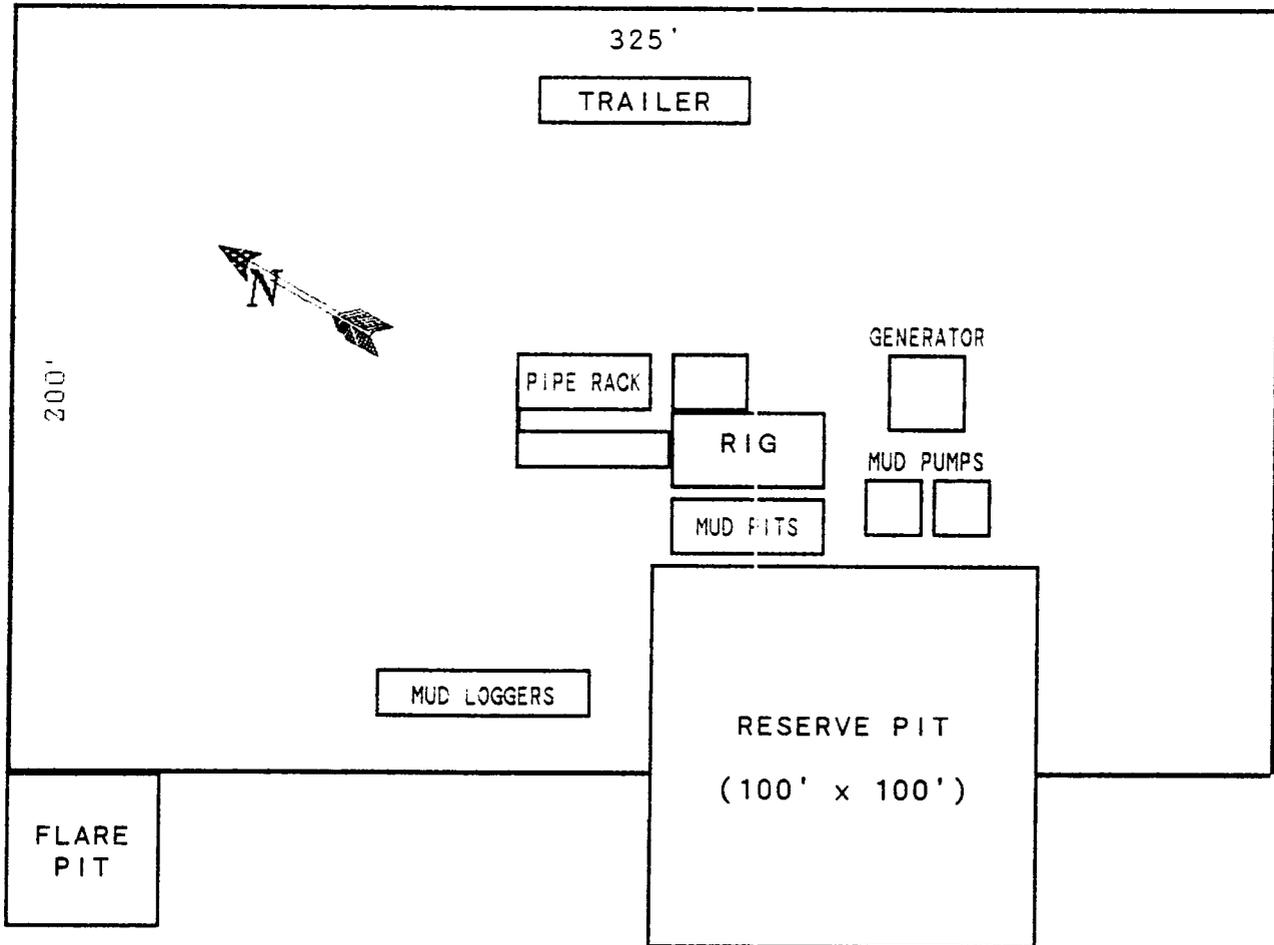
  
LARRY G. SESSIONS  
Operations Manager

# BLUE HOGAN 1J-1

2220' FSL, 1975' FEL

SECTION 1, TOWNSHIP 42S, RANGE 23E

SAN JUAN COUNTY, UTAH



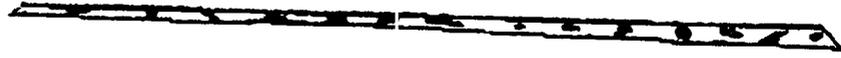


Cross Section

Blue Hogan 1 - J - 1

Cut   
Fill 

1"=50' Horz. & Vert.



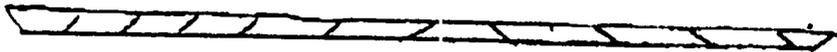
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c'



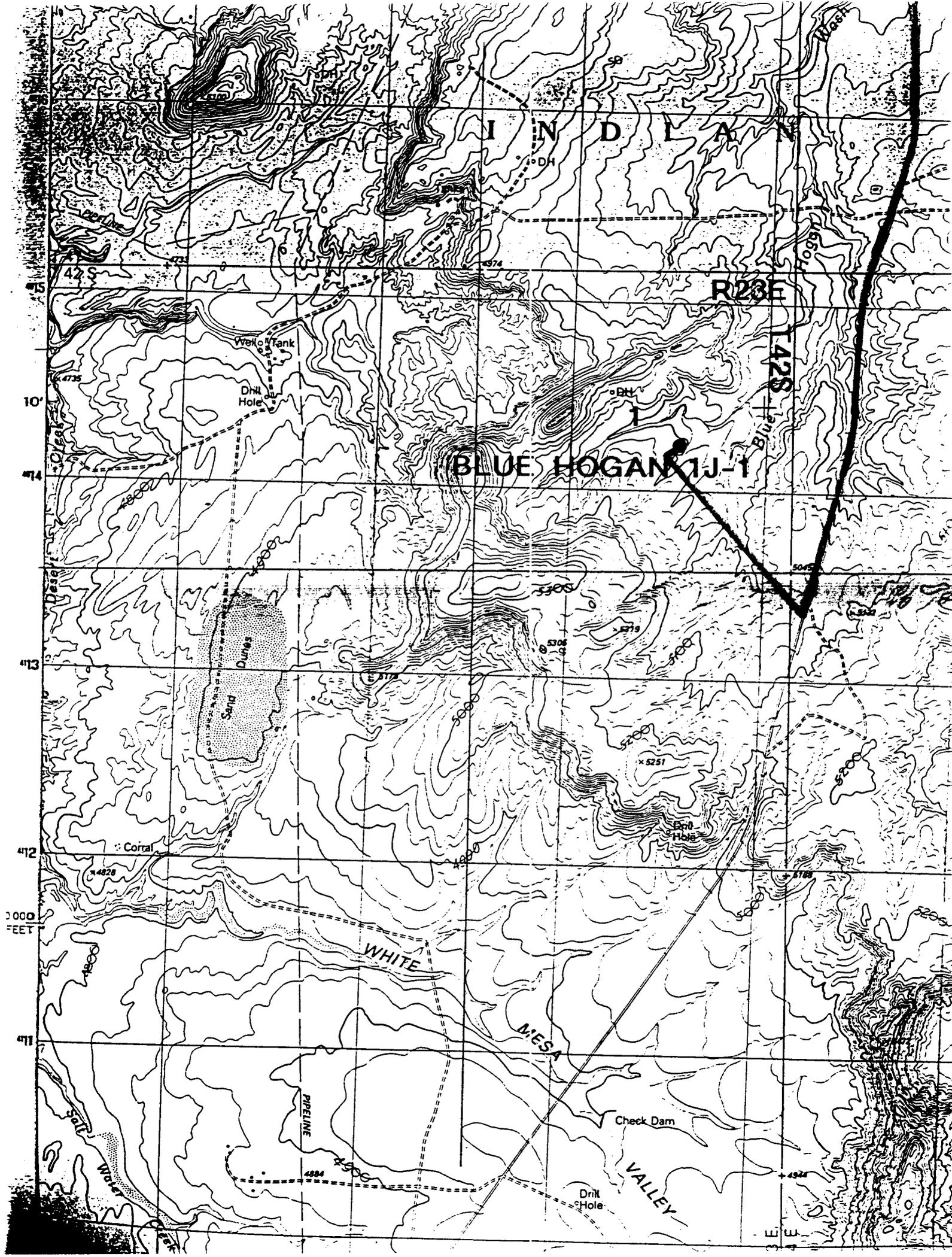
b

b'



a

a'



BLUE HOGAN 1J-1

R20E  
T42S  
R17E

WHITE

MESA

Check Dam

VALLEY

1000  
FEET

41°16'

41°13'

41°10'

41°07'

41°04'

41°01'

85°48' E

85°51' E

85°54' E

85°57' E

INDIANA

41°19'

41°16'

41°13'

41°10'

41°07'

41°04'

41°01'

85°42' E

85°45' E

85°48' E

85°51' E

85°54' E

85°57' E

86°00' E

86°03' E

86°06' E

86°09' E

86°12' E

86°15' E

86°18' E

86°21' E

86°24' E

86°27' E

86°30' E

86°33' E

86°36' E

86°39' E

86°42' E

86°45' E

86°48' E

86°51' E

86°54' E

86°57' E

INDIANA

OPERATOR Chuska Energy Co DATE 9-05-90

WELL NAME Blue Hogan 1/T #1

SEC NWSE 1 T 40S R 03E COUNTY San Juan

43-037-31500  
API NUMBER

Indian (v)  
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

~~well falls south of San Juan Rule it's within~~  
~~state in N.W. 1/4 put asking for exception loc.~~  
~~Water Permit 09-1700 (T04794)~~  
Exception Location ✓

APPROVAL LETTER:

SPACING:

R615-2-3

N/A

UNIT

17 2-24-60

~~17 02-01-60~~  
CAUSE NO. & DATE

R615-3-2

R615-3-3

STIPULATIONS:

CC: BIA



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
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 28, 1990

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

Gentlemen:

Re: Blue Hogan 1J #1 - NW SE Sec. 1, T. 42S, R. 23E - San Juan County, Utah  
2220' FSL, 1975' FEL

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  
Blue Hogan 1J #1  
September 28, 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 43-037-31562.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
J. L. Thompson  
we14/1-28



# Stat 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

October 12, 1990

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

Gentlemen:

Re: Amended Approval - Blue Hogan 1J #1 - NW SE Sec. 1, T. 42S, R. 23E - San Juan County, Utah - 2220' FSL, 1975' FEL

Approval to drill the referenced well is hereby granted in accordance with the Order in Cause No. 17 dated February 24, 1960.

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.
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Page 2  
Chuska Energy Company  
Blue Hogan 1J #1  
October 12, 1990

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Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
J. L. Thompson  
we14/1-10

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Chus KA Energy COMPANY MAN: Bobby Wright  
WELL NAME: Bluce Hogan 2J#1 API #: 43-037-31562  
QTR/QTR: NW/SE SECTION: 1 TWP: 42S RANGE: 23E  
CONTRACTOR: Aztec 184 PUSHER/DRLR: \_\_\_\_\_  
INSPECTOR: Glenn DATE: 1/3/91 OPERATIONS: MIRU  
SPUD DATE: Approx 1/4/91 TOTAL DEPTH: \_\_\_\_\_

DRILLING AND COMPLETIONS

APD                       WELL SIGN                      \_\_\_\_\_ BOPE                       RESERVE PIT  
 FLARE PIT                       BURN PIT                      \_\_\_\_\_ H2S                      \_\_\_\_\_ BLOOIE LINE  
 SANITATION                       HOUSEKEEPING                      \_\_\_\_\_ VENTED/FLARED

PLUGGING AND ABANDONMENT

PRODUCING FM(S): \_\_\_\_\_

PLUGS:

TYPE/SIZE

INTERVAL

| PLUGS: | TYPE/SIZE | INTERVAL |
|--------|-----------|----------|
| _____  | _____     | _____    |
| _____  | _____     | _____    |
| _____  | _____     | _____    |
| _____  | _____     | _____    |
| _____  | _____     | _____    |

PERFORATIONS: \_\_\_\_\_

CASING SIZE: \_\_\_\_\_ PULLED: YES / NO CUT AT: \_\_\_\_\_

PLUGS TESTED: \_\_\_\_\_ HOW: \_\_\_\_\_ WOC: \_\_\_\_\_

MARKER: \_\_\_\_\_ SURFACE: \_\_\_\_\_ PLATE: \_\_\_\_\_

RECLAMATION:

CONTOURED: \_\_\_\_\_ RIPPED: \_\_\_\_\_ REHAB'D: \_\_\_\_\_

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPLICABLE

REMARKS: Moving in & Rigging up well spud  
Approx 1/4/91

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31562

DRL

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY COMPANY

WELL NAME: BLUE HOGAN 1-J-1

SECTION NWSE 1 TOWNSHIP 42S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC WELL SERVICE

RIG # 184

SPUDDED: DATE 1-3-91

TIME 12:00 P.M.

HOW ROTARY

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

REPORTED BY CHRIS HILL

TELEPHONE # \_\_\_\_\_

DATE 1-3-91

SIGNED TAS

ENTITY ACTION FORM - FORM 6

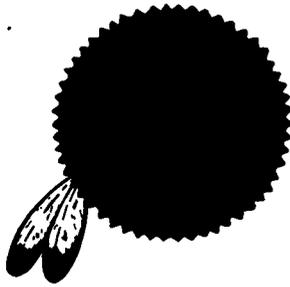
| ACTION CODE   | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER                 | WELL NAME        | WELL LOCATION |    |     |     |          | SPUD DATE | EFFECTIVE DATE |
|---|--------------------|----------------|----------------------------|------------------|---------------|----|-----|-----|----------|-----------|----------------|
|   |                    |                |                            |                  | QQ            | SC | TP  | RG  | COUNTY   |           |                |
| A   | 99999              | 11161          | 43-037-31562 <sup>DR</sup> | Blue Hogan 1J #1 | NW/SE         | 1  | 42S | 23E | San Juan | 1-3-91    |                |
| WELL 1 COMMENTS: MIRU Aztec Well Services Rig 184. Spudded 0130 hrs, 1-4-91.  |                    |                |                            |                  |               |    |     |     |          |           |                |
| WELL 2 COMMENTS: Indian-Lease Proposed Zone-Akch<br>Field-Desert Creek (New entity 11161 added 1-16-91) for<br>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**  
**JAN 11 1991**  
 DIVISION OF  
 OIL, GAS & MINING

*[Signature]*  
 Signature  
 P e t r o l e u m  
 Title  
 Phone No. 505-326-5525

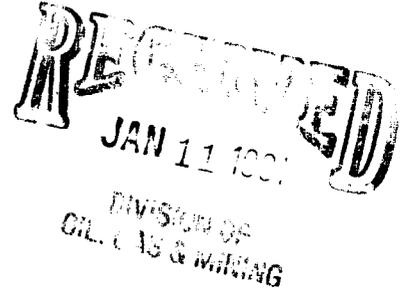


# CHUSKA ENERGY COMPANY

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

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

7 January, 1991



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: Blue Hogan 1J-1 Well  
Spud/Set Surface 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\BLUHOGAN.1J\SPUDSUN.CVR

encl.

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 oil parent 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  
AGREEMENT NAME

JAN 11 1991  
DIVISION OF  
OIL, GAS & MINING

|  |  |  |                   |
|--|--|--|-------------------|
| 1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER  |  | 8. FARM OR LEASE NAME<br>Blue Hogan 1J                           |                   |
| 2. NAME OF OPERATOR<br>Chuska Energy Company   |  | 9. WELL NO.<br>1   |                   |
| 3. ADDRESS OF OPERATOR<br>P.O. Box 780, Farmington, New Mexico 87499   |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                        |                   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface 2220' FSL, 1975' FEL |  | 11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA<br>S1 T42S R23E |                   |
| 14. PERMIT NO.<br>43-037-31562   | 15. ELEVATIONS (Show whether DF, RT, OR etc.)<br>4,996' GR | 12. COUNTY OR PARISH<br>San Juan                                 | 13. STATE<br>Utah |

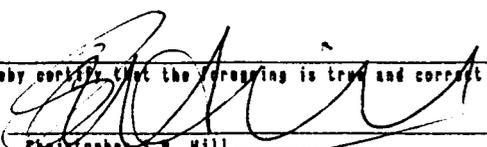
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| 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) Spud/Surface Casing <input checked="" type="checkbox"/>                                      |  |
| (Other) <input type="checkbox"/>             |   | (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.)

MIRU Aztec Well Services Rig 184. Spudded 0130 hrs, 1-4-91. Drilled to 540'. RU and ran 12 joints 8 5/8", 24 lb/ft, J-55, STC casing with guide shoe and float collar and landed at 492'. Cemented with 373 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Circulated 21 bbl cement to surface. Bumped plug with 1,500 psig. Float held OK. Plug down 0300 hrs, 1-5-91. Verbal notification of spud given to BLM (recording) by Chris Hill at 1410 hrs, 1-3-91.

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

SIGNED  TITLE Petroleum Engineer DATE 7 January, 1991

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

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 different reservoirs. Use "APPLICATION FOR PERMIT--" for such proposals.)

|   |  |
|---|--|
| 5. LEASE DESIGNATION AND SERIAL NO.<br>NOG 8702-1116  |  |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>Navajo Tribal UNIT AGREEMENT NAME   |  |
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER  | 7. FARM OR LEASE NAME<br>Blue Hogan 1J                           |
| 2. NAME OF OPERATOR<br>Chuska Energy Company  | 8. WELL NO.<br>1   |
| 3. ADDRESS OF OPERATOR<br>P.O. Box 780, Farmington, New Mexico 87499  | 9. FIELD AND POOL, OR WILDCAT<br>Wildcat                         |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface 2220' FSL, 1975' FEL<br>At proposed prod. zone Same | 10. SEC., T., R., N., OR BLK. AND SURVEY OR AREA<br>S1 T42S R23E |
| 14. PERMIT NO.<br>43-037-31562  | 15. ELEVATIONS (Show whether DF, RT, GR etc.)<br>4,996' GR       |
|   | 12. COUNTY OR PARISH<br>San Juan                                 |
|   | 13. STATE<br>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) Spud/Surface 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 1-5-91  |  |

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.

MIRU Aztec Well Services Rig 184. Spudded 0130 hrs, 1-4-91. Drilled to 540'. RU and ran 12 joints 8 5/8", 24 lb/ft, J-55, STC casing with guide shoe and float collar and landed at 492'. Cemented with 373 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Circulated 21 bbl cement to surface. Bumped plug with 1,500 psig. Float held OK. Plug down 0300 hrs, 1-5-91. Verbal notification of spud given to State of Utah (Frank Matthews) by Chris Hill at 1420 hrs, 1-3-91.

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

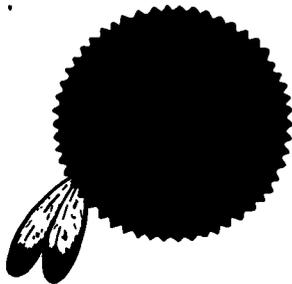
SIGNED *Christopher S. Hill* TITLE Petroleum Engineer DATE 7 January, 1991

(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

21 January, 1991

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

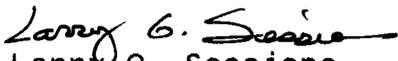
Ref: Sundry Notice: Blue Hogan 1J-1 Well  
Production Casing

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  
Operations Manager

LGS/csw  
File: C:\WP51\BLUHOGAN.1J\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   |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>NOG 8702-1116             |
| 2. NAME OF OPERATOR<br>Chuska Energy Company  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>Navajo Tribal            |
| 3. ADDRESS OF OPERATOR<br>3315 Bloomfield Highway, Farmington, New Mexico 87401   |  | 7. UNIT AGREEMENT NAME   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface 2220' FSL, 1975' FEL<br>At proposed prod. zone Same |  | 8. FARM OR LEASE NAME<br>Blue Hogan 1J                           |
| 14. PERMIT NO. <i>due</i><br>43-037-31562   |  | 9. WELL NO.<br>1   |
| 15. ELEVATIONS (Show whether DF, RT, GR etc.)<br>4,996' GR  |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                        |
|   |  | 11. SEC., T., R., H., OR BLK. AND SURVEY OR AREA<br>S1 T42S R23E |
|   |  | 12. COUNTY OR PARISH<br>San Juan                                 |
|   |  | 13. STATE<br>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>Production 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>1-20-91</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.)

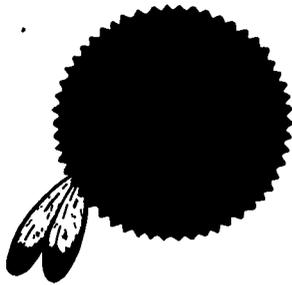
\* Must be accompanied by a cement verification report.

Drilled to 5,611'. Logged (logger's TD 5,613'). Ran 136 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe, float collar and stage collar and landed at ~~5,994'~~ 5,594' *JMA*  
Cemented as follows:  
Stage 1: Lead - 330 sx Class 'G', 35:65 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail - 235 sx Class 'G', with 0.6% D-60 and 1/4 lb/sk Celloflake.  
Stage 2: Lead - 750 sx Class 'G', 35:65 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail - 100 sx Class 'G', with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Circulated 25 bbl cement to surface.  
Rig released 0900 hrs, 1-20-91.

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

SIGNED *Christopher S. Hill* TITLE Petroleum Engineer DATE 21 January, 1991  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

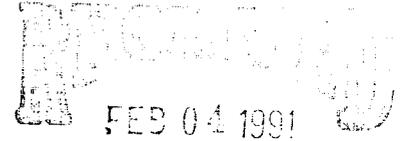


# CHUSKA ENERGY COMPANY

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

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

29 January, 1991



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: Blue Hogan 1J-1 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\BLUHOGAN.1J\1OILSUN.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.)

|  |  |  |
|--|--|--|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>   |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>NOG 8702-1116             |
| 2. NAME OF OPERATOR<br>Chuska Energy Company   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>Navajo Tribal            |
| 3. ADDRESS OF OPERATOR<br>3315 Bloomfield Highway, Farmington, New Mexico 87401  |  | 7. UNIT AGREEMENT NAME<br>Blue Hogan 1J                          |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)<br>At surface 2220' FSL, 1975' FEL |  | 8. FARM OR LEASE NAME<br>Blue Hogan 1J                           |
| At proposed prod. zone Same  |  | 9. WELL NO.<br>1   |
| 14. PERMIT NO.<br>43-037-31562   |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                        |
| 15. ELEVATIONS (Show whether DF, RT, GR etc.)<br>4,996' GR   |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>S1 T42S R23E |
|  |  | 12. COUNTY OR PARISH<br>San Juan                                 |
|  |  | 13. STATE<br>Utah  |

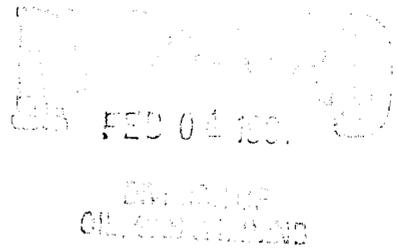
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| 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) First Sale of Oil <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 1-28-91   |  |

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.

First sale of oil from the subject well occurred on 1-28-91.



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

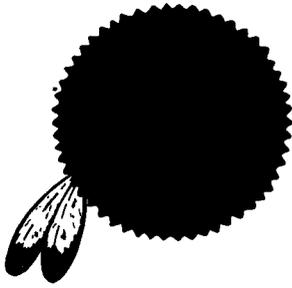
SIGNED [Signature] TITLE Operations Engineer DATE 29 January, 1991

(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

12 February, 1991

RECEIVED  
FEB 19 1991

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: Blue Hogan 1J-1 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*

Larry G. Sessions  
Operations Manager

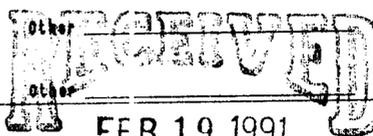
LGS/csw  
File: C:\WP51\BLUHOGAN.1J\CRCOVER

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  
3315 Bloomfield Highway, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At Surface 2220' FSL, 1975' FEL  
 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  
Blue Hogan 1J  
 9. WELL NO.  
1  
 10. FIELD AND POOL, OR WILDCAT  
Desert Creek  
 11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA  
S1 T42S R23E

14. API NO. 43-037-31562 DATE ISSUED 10-12-90  
 12. COUNTY San Juan 13. STATE Utah

15. DATE SPUNDED 1-4-91 16. DATE T.D. REACHED 1-18-91 17. DATE COMPL. (Ready to prod.) 2-9-91 18. ELEVATIONS (DF, RKB, RT, GR ETC.) 4,996' GR 19. ELEV. CASINGHEAD 4,996' GR

20. TOTAL DEPTH, MD & 5,611' (D)/5,613' (L) 21. PLUG BACK T.D., MD & TVD 5,571' 22. IF MULTIPLE COMPL. HOW MANY - 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)

5,562' - 5,554' Desert Creek / 5,542' - 5,530' Desert Creek  
 5,522' - 5,488' Desert Creek / 5,477' - 5,454' Desert Creek  
 5,446' - 5,400' Desert Creek  
 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/MSFL/ML/GR/CAL LDT/CNL/GR/CAL BHCS/GR/CAL CBL MICROLOG 1-24-91 CYBERLOOK 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              | 492            | 12 1/4"   | 373 sx G/2% CaCl <sub>2</sub> , 21 bbl slurry to pit   |               |
| 5 1/2"      | 15.5            | 5,611          | 7 7/8"    | S1: 330 sx G 35:65 Poz/6% Gel + 235 sx G<br>S2: 750 sx G 35:65 Poz/6% Gel + 100 sx G/2% CaCl <sub>2</sub><br>DV tool at 3,499'. 25 bbl slurry to pit |               |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|--------------|-------------|--------|----------------|-----------------|
|      |          |             |              |             | 2 7/8" | 5,567'         | 5,370'          |

31. PERFORMANCE RECORD (Interval, size and number)

|   |
|---|
| 5,562' - 5,554': 4" casing gun, 4 spf/ 32 holes |
| 5,542' - 5,530': 4" casing gun, 4 spf/ 48 holes |
| 5,522' - 5,488': 4" casing gun, 4 spf/136 holes |
| 5,477' - 5,454': 4" casing gun, 4 spf/ 92 holes |
| 5,446' - 5,400': 4" casing gun, 4 spf/184 holes |

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED          |
|---------------------|---|
| 5,562' - 5,554'     | 150 gal 7 1/2% HCl/ 2,400 gal 28% MSR-100 |
| 5,542' - 5,530'     | 150 gal 7 1/2% HCl/ 3,600 gal 28% MSR-100 |
| 5,522' - 5,488'     | 150 gal 7 1/2% HCl/10,200 gal 28% MSR-100 |

See reverse side for remaining acid treatments

33. PRODUCTION DATE FIRST PRODUCTION 1-27-91 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 |
|---------------------|-----------------|-------------------------|-------------------------|------------|--------------|-------------------------|---------------|
| 2-6-91              | 10              | 30/64"                  |                         | 486.1      | 301.2        | 1.9                     | 619.6         |
| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE | OIL - BBL.              | GAS - MCF. | WATER - BBL. | OIL GRAVITY-API (CORR.) |               |
| 265                 | Packer          |                         | 1,166.6                 | 722.9      | 4.6          | 40.6                    |               |

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

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Christopher S.W. Hill TITLE Operations Engineer DATE 2-12-91

See Spaces for Additional Data on Reverse Side

## 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               | 5562   | 5554   | Dolomite, Shale                        | Hermosa            | 4520        | 4520             |
| Desert Creek               | 5542   | 5530   | Dolomite, Limestone                    | Upper Ismay        | 5237        | 5237             |
| Desert Creek               | 5522   | 5488   | Limestone                              | Hovenweep Shale    | 5321        | 5321             |
| Desert Creek               | 5477   | 5454   | Dolomite, Limestone                    | Lower Ismay        | 5342        | 5342             |
| Desert Creek               | 5446   | 5400   | Limestone, Dolomite                    | Gothic Shale       | 5365        | 5365             |
| Core #1                    | 5412   | 5442   | Desert Creek: recovered 100%           | Desert Creek       | 5386        | 5386             |
| Core #2                    | 5442   | 5472.5 | Desert Creek: recovered 100%           | Chimney Rock Shale | 5556        | 5556             |
| Core #3                    | 5472.5 | 5503.5 | Desert Creek: recovered 100%           | Akah               | 5582        | 5582             |
| Core #4                    | 5503.5 | 5535   | Desert Creek: recovered 100%           |                    |             |                  |
| Core #5                    | 5535   | 5566   | Desert Creek: recovered 100%           |                    |             |                  |
| Additional Acid Treatments |        |        |  |                    |             |                  |
|                            | 5,477' | 5,454' | 150 gal 7½% HCl/ 6,900 gal 28% MSR-100 |                    |             |                  |
|                            | 5,446' | 5,400' | 150 gal 7½% HCl/13,800 gal 28% MSR-100 |                    |             |                  |

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

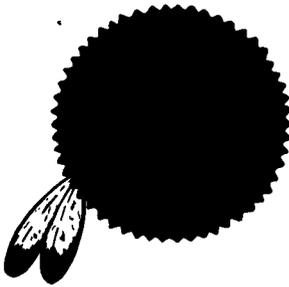
Route original/copy to:  
 Well File Blue Horizon / J-1  Suspense  Other  
(Location) Sec 1 Twp 423 Rng 23E (Return Date) \_\_\_\_\_  
(API No.) 43-037-31562 (To - Initials) \_\_\_\_\_

1. Date of Phone Call: 3-13-91 Time: 2:45

2. DOGM Employee (name) Frank Matthews (Initiated Call   
Talked to:  
Name Wesley Spencer (Initiated Call  - Phone No. (505) 327-5344  
of (Company/Organization) BLM @ Farmington

3. Topic of Conversation: Application by Chuska to vent gas for another month on a newly completely well.

4. Highlights of Conversation: Mr. Spencer said that he had approved the extension of the venting verbally over the phone. With the information given in the Sunday.



# CHUSKA ENERGY COMPANY

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

5 March, 1991

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

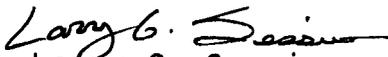
Ref: Sundry Notice: Blue Hogan 1J-1 Well  
Application to Vent Gas

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\BLUHOGAN.1J\VENTSUN.CVR

encl.

**RECEIVED**  
MAR 08 1991

DIVISION OF  
OIL, GAS & MINING

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

|   |
|---|
| 6. Lease Designation and Serial Number<br>NOG 8702-1116 |
| 7. Indian Allottee or Tribe Name<br>Navajo Tribal       |
| 8. Unit or Communitization Agreement                    |
| 9. Well Name and Number<br>Blue Hogan 1J 1              |
| 10. API Well Number<br>43-037-31562 <i>POW</i>          |
| 11. Field and Pool, or Wildcat<br>Desert Creek          |

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT-- for such proposals

|  |
|--|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) |
| 2. Name of Operator<br>Chuska Energy Company   |
| 3. Address of Operator<br>3315 Bloomfield Highway, Farmington, New Mexico 87401  |
| 4. Telephone Number<br>505-326-5525  |
| 5. Location of Well<br>Footage : 2220' FSL, 1975' FEL<br>QQ, Sec. T., R., M.: NW/4 SE/4 S1 T42S R23E<br>County: San Juan<br>State: UTAH    |

| CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  |   |
|--|---|
| <p align="center"><b>NOTICE OF INTENT</b><br/>(Submit in Duplicate)</p> <input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction<br><input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing<br><input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion<br><input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize<br><input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare<br><input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off<br><input checked="" type="checkbox"/> Other <u>Application to Vent Gas</u> | <p align="center"><b>SUBSEQUENT REPORT</b><br/>(Submit Original Form Only)</p> <input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction<br><input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing<br><input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion<br><input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare<br><input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off<br><input type="checkbox"/> Other _____ |
| Approximate Date Work Will Start <u>3-11-91</u>  | Date of Work Completion _____   |
| Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  |   |
| * Must be accompanied by a cement verification report.   |   |

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The well has been on temporary production test, pending pipeline installation, since 2-9-91. Chuska Energy requests permission to continue the temporary test for a further 30 days, from 3-11-91.

When the production test first commenced, the well was producing at a rate of 1,900 BOPD, 0 BWPD and 550 MCFD at a flowing tubing pressure of 240 psig on a 36/64" choke. Since then, production by natural flow has declined to the current levels of 417 BOPD, 0 BWPD and 680 MCFD at a flowing tubing pressure of 130 psig on a 36/64" choke. Given this rate of decline, and past history in the area, we anticipate that the well will die and require artificial lift installation within the next month.

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

DATE: 3-13-91  
BY: *[Signature]*

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

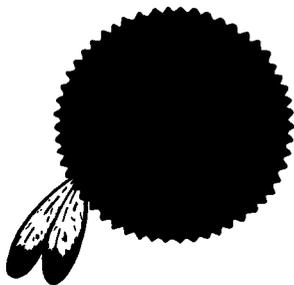
Name & Signature Christopher S.W. Hill *[Signature]* Title Operations Engineer Date 5 Mar 91

(State Use Only)

**RECEIVED**

MAR 08 1991

DIVISION OF  
OIL GAS & MINING



# CHUSKA ENERGY COMPANY

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

9 April, 1991

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

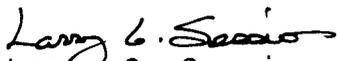
Ref: Sundry Notice: Blue Hogan 1J-1 Well  
Application to Vent Gas

Gentlemen

Attached for your examination and approval are 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\BLUHOGAN.1J\VENT2SUN.CVR

encl.

**RECEIVED**

APR 12 1991

DIVISION OF  
OIL GAS & MINING

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

6. Lease Designation and Serial Number  
NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use APPLICATION FOR PERMIT-- for such proposals

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

9. Well Name and Number  
Blue Hogan 1J 1

2. Name of Operator  
Chuska Energy Company

10. API Well Number  
43-037-31562 *row*

3. Address of Operator  
3315 Bloomfield Highway, Farmington, NM 87401

4. Telephone Number  
505-326-5525

11. Field and Pool, or Wildcat  
Desert Creek

5. Location of Well  
Footage : 2220' FSL, 1975' FEL  
County : San Juan  
QQ, Sec. T., R., M.: NW/4 SE/4 S1 T42S R23E  
State : UTAH

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other Application to Vent Gas
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 4-11-91

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recompletion
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Chuska Energy requests permission to continue the temporary test of the subject well, from 4-11-91 until 4-30-91. Total vented gas production is not to exceed 50 MMcf. The well is currently producing at rates of 800 - 900 BOPD with approximately 700 Mcfd of gas being vented.

The application for a pipeline permit goes before the Navajo Tribal Resource Committee on 4-11-91. Following this formal approval, we would anticipate having the permit in hand in approximately one week thereafter. Construction of the pipeline would commence immediately thereafter and should be complete by the end of the month.

Verbal approval to continue venting received from BLM, Dwayne Spencer, at 1510 hrs, 4-8-91.

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

Name & Signature Christopher S.W. Hill

Title Operations Engineer

Date 9 Apr 91

(State Use Only)

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

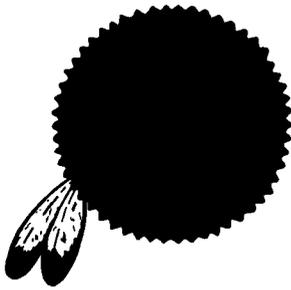
DATE: 4-16-91

BY: [Signature]

(8/90)

APR 12 1991

DIVISION OF  
OIL GAS & MINING



# CHUSKA ENERGY COMPANY

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

1 May, 1991

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: Blue Hogan 1J-1 Well  
Application to Vent Gas

Gentlemen

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Please advise if you require additional information concerning this submission.

Sincerely,

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

LGS/csw  
File: C:\WP51\BLUHOGAN.1J\VENT3SUN.CVR

encl.

RECEIVED

MAY 06 1991

DIVISION OF  
OIL GAS & MINING

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

6. Lease Designation and Serial Number  
NOG 8702-1116

7. Indian Allottee or Tribe Name  
Navajo Tribal

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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1. Type of Well  
 Oil Well     Gas Well     Other (specify)

9. Well Name and Number  
Blue Hogan 1J 1

2. Name of Operator  
Chuska Energy Company

10. API Well Number  
43-037-31562

3. Address of Operator  
3315 Bloomfield Highway, Farmington, NM 87401

4. Telephone Number  
505-326-5525

11. Field and Pool, or Wildcat  
Desert Creek

5. Location of Well  
Footage : 2220' FSL, 1975' FEL  
QQ, Sec. T., R., M.: NW/4 SE/4 S1 T42S R23E  
County: San Juan  
State: UTAH

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**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandonment
- Casing Repair
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- Fracture Treat
- Multiple Completion
- Other Application to Vent Gas
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 5-1-91

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

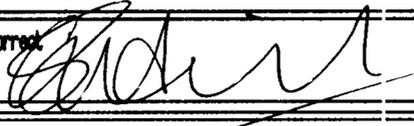
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Chuska Energy requests permission to continue the temporary test of the subject well. The well has been on pump, at considerably reduced rates, from 4-19-91. Due to administrative difficulties, the Resource Committee has not yet approved granting of the Right of Way for the pipeline for this well. Granting of the Right of Way is anticipated 5-9-91.

**RECEIVED**

MAY 06 1991

DIVISION OF  
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct.  
Name & Signature Christopher S.W. Hill  Title Operations Engineer Date 1 May 91

(State Use Only)

Accepted

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

DATE: 5-10-91  
BY: J.M. Mattick

300 to 400



# 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,

*Herb*

Herbert P. Mosca  
Chuska Staff Geologist

**RECEIVED**

MAY 20 1991

DIVISION OF  
OIL GAS & MINING

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING**  
 355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

## 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                  |       |            | Producing Zone | Well Status              | Days Oper | Production Volumes |          |            |
|----------------------------|-------|------------|----------------|--------------------------|-----------|--------------------|----------|------------|
| API Number                 | Entry | Location   |                |                          |           | 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 Card K/DTS<br>NO FILE |           | ✓ done / 043       |          |            |
| <b>TOTALS</b>              |       |            |                |                          |           |                    |          |            |

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

\_\_\_\_\_

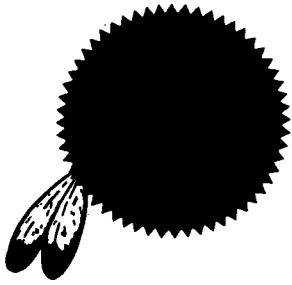
\_\_\_\_\_

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**  
*Oper. Nm. Change*  
\_\_\_\_\_  
\_\_\_\_\_

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

2. DOGM Employee (name) J. 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-ABC    | 7-SJ ✓   |
| 2-DTS    | 8-FILE ✓ |
| 3-VLC    | ✓        |
| 4-RJF    | ✓        |
| 5-LEO    | ✓        |
| 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: <u>**SEE ATTACHED**</u> | API: <u>037-31562</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 \_\_\_\_ 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**

- See 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/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 See 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 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**

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

**COMMENTS**

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



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

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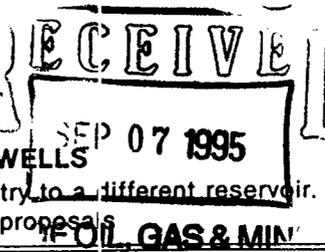
Aneth Plant will be shut down on September 18, 1995 to make necessary repairs to the cooling tower, inspect and clean gas coolers, and repair other equipment which requires a plant shutdown.

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.
- 6. If Indian, Allottee or Tribe Name  
NAVAJO
- 7. If Unit or CA, Agreement Designation
- 8. Well Name and No.  
See Attached List
- 9. API Well No. 43-037-31562  
See Attached List
- 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 (214) 753-6900
- 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
See Attached List

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                               |

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 Montgomery 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      |
| <b>Blue Hogan 1J-1</b> | 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      |

BEFORE THE BOARD OF OIL, GAS AND MINING

DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

---

IN THE MATTER OF THE REQUEST )  
FOR AGENCY ACTION OF HARKEN )  
SOUTHWEST CORPORATION FOR )  
THE DESIGNATION OF THE )  
MONUMENT 8-N-2, BLUE HOGAN )  
1-J-1, BROWN HOGAN 1-A-2, LONE )  
MOUNTAIN CREEK 12-F-1, NORTH )  
HERON 35-C, AND MULE 31M WELLS )  
AS WILDCAT WELLS FOR )  
PURPOSES OF SECTION 59-5-102(2)(d) )  
OF THE UTAH CODE ANNOTATED, )  
SAN JUAN COUNTY, UTAH. )

ORDER DESIGNATING BLUE  
HOGAN 1-J-1, BROWN HOGAN  
1-A-2, MULE 31M, AND LONE  
MOUNTAIN CREEK 12-F-1 WELLS  
AS WILDCAT WELLS

Docket No. 94-023  
Cause No. 232-2(a)

---

On July 16, 1996, the Utah Supreme Court filed its decision in the appeal entitled *Harken Southwest Corporation v. Board of Oil, Gas and Mining, et. al.*, Case No. 950121, wherein Harken Southwest Corporation ("Harken") appealed the Board of Oil, Gas and Mining's (the "Board") prior Order in this matter dated October 5, 1995. That Order denied Harken's Request for Agency Action seeking to designate the wells subject to this matter as wildcat wells for the limited purpose of qualifying for a severance tax exemption under Section 59-5-102(2)(d) of the Utah Code Annotated. The Supreme Court affirmed the Board's decision not to confer wildcat status on the North Heron and Monument Wells, and reversed the Board's refusal to confer wildcat status for the Lone Mountain Creek 12-F-1 Well. The Supreme Court also vacated the Board's decision as to the Blue Hogan, Brown Hogan, and Mule Wells, and remanded the matter to the Board to reconsider

the evidence regarding those wells. The parties, Harken and the Division of Oil, Gas and Mining, have since filed a stipulation designating the Blue Hogan, Brown Hogan, and Mule Wells as wildcat wells for the purpose of the severance tax exemption statute.

Based on the Utah Supreme Court's decision, the remittitur of the record in this matter, the stipulation of the parties, and good cause appearing, therefore, it is hereby:

ORDERED, ADJUDGED, AND DECREED that the Blue Hogan 1-J-1 Well, situated in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 1, Township 42 South, Range 23 East, S.L.M.; the Brown Hogan 1-A-2 Well, situated in the NE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 1, Township 42 South, Range 23 East, S.L.M.; the Mule 31M Well, situated in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 31, Township 41 South, Range 24 East, S.L.M., and the Lone Mountain Creek 12-F-1 Well, situated in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 12, Township 42 South, Range 24 East, S.L.M., are approved and designated as wildcat wells for the limited purpose of qualifying for a severance tax exemption under Section 59-5-102(2)(d) of the Utah Code Annotated.

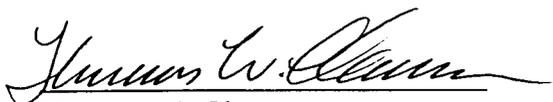
DATED this 23rd day of October, 1995.

STATE OF UTAH  
BOARD OF OIL, GAS AND MINING

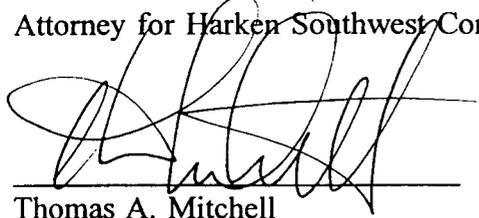


\_\_\_\_\_  
Dave D. Lauriski, Chairman

Approved as to form:



Thomas W. Clawson  
Attorney for Harken Southwest Corporation



Thomas A. Mitchell  
Attorney for Division of Oil, Gas and Mining

## WORKOVER ON BLUE HOGAN 1J-1

- 05-31-96 Road rig from Jack 31-G to Blue Hogan location. Rigged up and SDFWF. Will pull well in the a.m. on June 3rd.
- 06-03-96 Shut down PU. RD horse head, stuffing box, radigan. Unseated pump POH with polished rod, rods and pump. Encountered strong gas blow and lots of paraffin. WO water truck. Killed gas with 40 bbls of salt water. RU BOPs and POH with tbg. PU 4 3/4" bit and csg scraper and RIH on 2 7/8" tbg. Cleaned across perfs 5400' KB to 5562' KB. POH with scraper and bit. Strong gas blows, well misting while POH. Left 10 strands of tbg in hole SWDFN.
- 06-04-96 Finished POH, well blowing gas. RU water truck to kill well. PU Halliburton treating packer, RIH on tbg. Killed well again while going in hole and used 80 bbls of water to kill well. With packer bypass @ 5567' KB (5' below bottom perf) spotted acid across perf interval from 5562' KB to 5400' KB. Well took acid on vac. PUH with packer, set packer seals @ 5380' KB (20' above top perfs). Pumped remainder of acid/xylene mix into perfs. Well taking acid on vacuum @ 1.8-2.0 BPM, -34 to -50 psig. Treated perforations from 5552-5400' (121' of total perfs) with 3000 gallons. PAD 15% HCL, 870 gal xylene, HAI-81 (6 gal), 550-21m (6 gal). Total load fluid 94 bbl (71.4 acid, 20.7 xylene). RO Halliburton. Let acid/xylene soak 1 hr. Well on vac. RU to swab, well blowing, found mist, no fluid level. Waited 1/2 hr. RIH still found no fluid to swab. Well still blowing. SWDFN will run prod equipment in a.m.
- 06-05-96 RIH w/swab to find fluid level in tbg. No fluid level found. Fluid could be below pkr which is @ 5380' KB. Unset pkr, well blowing, POH with Halliburton RTTS pkr. RU production mud anchor, seating nipple and tbg anchor. Production assembly as follows:
- 11' KB correction  
4.15' X 2 7/8" sub, 6.28' X 2 7/8" sub @ 0 - 21.43' KB  
171 jnts 2 7/8" tbg 5225.02' @ 21.43' KE: - 5246.48' KB  
Tbg anchor 2.46' @ 5246.48 KB - 5248.91' KB  
9 jnts 2 7/8" tbg 272.17' @ 5248.91 - 5521.08' KB  
Seating nipple 1.10' @ 5521.08' - 5522.13' KB  
1 jnt 2 7/8" tbg 30.15' @ 5522.18' - 5552.33' KB  
Perf'd 3 1/2 sub w/ crossover 6.95' @ 5552.33' - 5559.28' KB  
EOT @ 5559.28' KB PBTd @ 5576' KB
- EOT 3' above bottom perf. PBTd 14' below bottom perf. RD BOPs and floor set TA, set tbg in Larkin head, RU flow tec, radigan and flow line. RIH with pump and rods as follows:
- 2 1/2" X 1 1/2" X 18' RWAC pump  
139 - 3/4" X 25' scrapped rods  
81 - 7/8" X 25' scrapped rods  
1 - 2' X 7/8"  
1 - 4' X 7/8"  
2 1/2" X 1 1/2" dia X 26' spray metal polished rod

*tax credit  
8/27/96*

Blue Hogan 1J-1

Workover

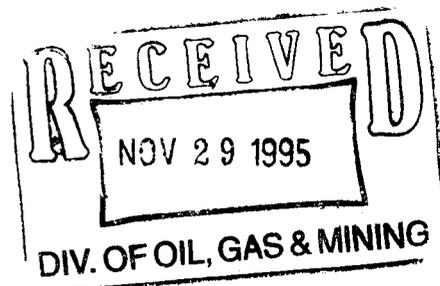
Page 2

Well blowing gas up backside during running of pump. Installed stuffing box and polished rods ( 1 1/2" dia), seated pump. RU to fill tbg with 33 bbls of fresh water. Checked pump action - ok, 400 psig held ok. Tightened stuffing box. Started AJAX. RU horses head. RD workover rig, move out.

43-03731562  
POW

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1  
SECTION 1, T42S, R23E  
SAN JUAN COUNTY, UTAH

CORE DESCRIPTION



CORE #1  
DESERT CREEK  
5412'-5442'  
CUT-30' REC-30'

- 5412 LS brn, micxl-fxl, suc, sldol, brec app, abnt blk carb mud incl, abnt anhy xl-incl, slfos-Brac, tr calc xl in vugs, g intxl-vug POR(pp-1/2"), tr dul-bri yel FLOR, g lt-dkbrn STN, fr-g fast stmg mlky CUT, fnt OD
- 5413 LS AA, occ crpxl, fr-g dul-bri yel FLOR, fr lt-dkbrn STN, g fast stmg mlky CUT, fnt OD
- 5414 LS gy-ltbrn, crpxl-vfxl, occ fxl-suc, brec app, tr alg Ivan, scat anhy incl, tr calc-anhy xl in vugs, thn blk carb mud incl, g intxl-vug POR, pp-1" vugs, g bri yel FLOR, g lt-dkbrn STN, tr dd O STN in vugs, g fast stmg mlky CUT, fr OD, tr live O on core
- 5415 LS AA, brn-mbrn, ltgy, abnt Ivan fos, tr thn dol bnds, g pp-2" vugs to tr intxl POR, g bri yel FLOR, g lt-dkbrn STN, tr blk dd o STN in vugs, g fast stmg mlky CUT, g OD, tr live O in core
- 5416 LS AA, occ vdkgy, abnt anhy xl, tr anhy fl vugs, g pp-1" vugs, tr-g vug POR, g bri yel FLOR, g lt-dkbrn STN, tr OD, g fast stmg CUT, fr OD, tr live O STN on core
- 5419 LS AA, incr anhy incl-nod, abnt anhy fl vugs, thn brn dol bnds, tr-fr intxl-tr pp-1/4" vug POR, dul-bri yel FLOR, wh mnrl FLOR in anhy, fr brn STN, tr of g fast stmg mlky CUT, fnt OD
- 5420 LS ltgy-brn, crpxl-fxl, suc, fos-Ivan, vanhy-abnt anhy fl vugs, abnt calc xl in vugs, g intxl-vug POR, g dul-bri yel FLOR, g lt-dkbrn STN, g fast stmg mlky CUT, g OD
- 5421 LS AA, ltgy-ltbrn, decr anhy incl, g intxl-vg vug POR, pp-1" vugs g dul-bri yel FLOR, g brn STN-tr blk dd O STN on calc-anhy xl in vugs, g mod fast-fast stmg mlky CUT, fr OD, tr O on core
- 5422.5 LS lt-dkbrn, crpxl-fxl-suc, sldol, slty, anhy-tr anhy incl, occ anhy fl vugs, slfos-Ivan, fr intxl-vg vug POR, pp-1/4" vugs, g dul-bri yel FLOR, g brn STN, rr dkbrn-blk STN, g fast stmg CUT, g OD

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1

5425 LS AA, decr anhy, POR AA, g dul yel FLOR, g brn STN, g fast stmg CUT, g OD

5428 LS AA, POR AA, FLOR-STN-CUT AA, tr wh mnrl FLOR in anhy

5429 LS ltbrn, crpxl-vfxl, occ fxl-suc, anhy, slty, vsldol, incr anhy incl-vug fl, tr vug-fr intxl POR, fr dul yel FLOR, abnt bri white mnrl FLOR, fr brn STN, g slo-mod fast stmg CUT, tr OD

5431 LS mbrn, micxl-vfxl, slsuc, bcm vdol, slty, slanhy-tr anhy incl, brec app, g intxl-tr pp vug POR, g dul yel FLOR, g brn STN, g fast stmg mlky CUT, tr OD

5433 LS ltbrn, micxl, slty, dol, anhy, bcm chty, tr anhy-mlky cht incl, vrr intxl POR, rr ltbrn STN, rr slo CUT, n OD

5434 DOL brn-gybrn, micxl, sl lmy, rthy, slsly, shly ip, tr styl-blk carb SH incl, tr mlky cht nod-1/8", tr intxl POR, fr-g dul bri yel FLOR, g mod fast-fast stmg mlky CUT, fnt OD

5434.5 DOL mbrn, micxl-vfxl, occ suc, slty, rthy, slshly, lmy ip, g intxl tr pp vug POR, g dul yel FLOR, g brn STN, g mod fast stmg mlky CUT

5435.5 DOL AA, tr frac w/mud invasion in frac, g intxl-pp vug POR, g dul yel FLOR, g brn STN, g mod fast stmg mlky CUT, fr OD

5437 DOL AA, tr anhy xl, POR AA, FLOR-STN-CUT AA, fr OD, gas bubbling from core w/tr live O

5439.5 DOL AA, pred micxl, fr intxl-tr pp vug POR, FLOR-STN-CUT AA

5441 DOL gybrn-brn, crpxl-micxl, occ vfxl, sl lmy, tr anhy xl, slty ip occ cln, slfos, fr intxl-pp vug POR, g dul-bri yel FLOR, g lt-dkbrn STN, g fast stmg mlky CUT, fr OD, O slowly breaking from core

5442.3 DOL lt-mbrn, crpxl-micxl, vmot app, slsly, abnt anhy xl-incl, sl-vlmy, occ vthn blk carb mud incl to styl, vfos, n vis POR, NFSOC

CHUSKA ENERGY COMPANY  
 BLUE HOGAN 1-J-1  
 SECTION 1, T42S, R23E  
 SAN JUAN COUNTY, UTAH

CORE DESCRIPTION

CORE #2  
 5442'-5472'  
 DESERT CREEK  
 CUT-30' REC-30'

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|        |     |   |
|--------|-----|---|
| 5442.4 | DOL | ltbrn, crpxl-micxl, slsly, anhy, abnt fos Plcy-fos hash, tr blk carb mud incl-styl, abnt anhy incl-vug fl, tt-vrr intxl POR, NFSOC  |
| 5443.7 | DOL | ltbrn, micxl-vfxl, occ crpxl, suc ip, slty ip, tr anhy xl, tr blk carb SH incl, g intxl-fr pp vug POR, g bri yel FLOR, fr ltbrn STN, g mod fast stmg mlky CUT, fr OD, tr O breaking from core |
| 5444.7 | DOL | AA, w/abnt anhy incl-vug fl., slfos, tt-tr intxl-tr pp vug POR, tr spty brn STN, tr g stmg mlky CUT, fr OD, O & gas bleeding from core  |
| 5445.5 | DOL | AA, ltbrn-ltgy, crpxl-micx., g bri yel FLOR, tr ltbrn STN, g fast stmg mlky CUT, g OD, O & gas bleeding from core   |
| 5446.5 | DOL | AA, decr anhy incl, tr intxl-fr pp vug POR, g FLOR-STN-CUT AA, g OD, O & gas bleeding from core   |
| 5448.6 | DOL | AA, tr Brac fos, POR AA, FLOR-STN-CUT AA, fr OD, gas-O breaking form core   |
| 5449.6 | DOL | AA, tr Brac-Plcy fos, POR AA, g bri yel FLOR, g lt-mbrn STN, g fast stmg mlky CUT, g OD, tr gas breaking from core  |
| 5450.6 | DOL | ltbrn, crpxl-micxl, slsly, vanhy-abnt anhy incl-vug fl, tr intxl-tr pp vug POR, g bri yel FLOR, tr ltbrn STN, g fast stmg cut, g OD   |
| 5452.4 | DOL | ltbrn, crpxl-vfxl, occ suc, tr Brac fos, slsly, sl lmy, cln ip, tr anhy xl-incl, g bri yel FLOR, g lt-dkbrn STN, g fast stmg mlky CUT, g OD, occ O-gas breaking from core                     |
| 5453   | DOL | lt-mbrn, micxl-fxl, suc, slsly, vsl lmy, arg ip, bcmg slrthy, tr anhy xl-rr anhy, g intxl-tr pp vug POR, g bri-dul yel FLOR, g lt-dkbrn STN, g fast stmg CUT, fr OD                           |
| 5454   | DOL | mbrn, micxl-fxl, suc, slsly, rthy, tr anhy xl, g intxl-tr pp vug POR, g dul yel FLOR, g mbrn STN, g fast strmg CUT  |
| 5455.5 | DOL | AA, lrg anhy incl, POR AA, FLOR-STN-CUT AA, tr O breaking from core, g OD   |

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1

5456.9 LS ltbrn, crpxl, dns, tt, tr anhy incl, slfos, NFSOC

5457.5 DOL brn, crpxl, micxl ip, vslsly-cln, tr anhy xl, tt-rr intxl  
POR, g bri-dul yel FLOR, rr brn STN, slo-mod fast stmg mlky  
CUT

5458.3 DOL dkbrn, micxl-vfxl, slsuc, rthy-sly, vsl lmy, g intxl-vrr  
pp vug POR, g mbrn STN, g mod fast stmg mlky CUT

5459 DOL AA, scat lrg anhy incl, POR AA, FLOR-STN AA, g fast stmg  
mlky CUT, fr OD

5460 DOL AA, m-dkbrn, g intxl-tr vug POR, FLOR-STN-CUT AA, fr OD

5461 DOL lt-mbrn, micxl-vfxl, rthy, sly, scat s anhy nod-xl, g intxl-fr  
pp vug POR, g dul yel FLOR, g brn STN, g fast stmg mlky CUT,  
g OD

5462 DOL AA, m-dkbrn, rr scat anhy xl, vg intxl-fr pp vug POR, g dul  
yel FLOR, g mbrn STN, g mod fast stmg mlky CUT, g OD

5463.1 DOL AA, POR AA, FLOR-STN-CUT AA, fr OD

5465 DOL AA, vrthy, g intxl-vrr-n vug POR, FLOR-STN-CUT AA, fr OD

5468.5 DOL m-ltbrn, micxl-vfxl, rthy, sly, g intxl POR, g dul-bri yel  
FLOR, lt-mbrn STN, g mod fast-vfast stmg mlky CUT, g OD

5469.5 DOL dkbrn, micxl, rthy, sly, v arg, g intxl POR, g dul yel FLOR  
g dkbrn STN, g mod fast stmg mlky CUT, fr OD

5470.5 DOL ltbrn, crpxl-micxl, vslsly, sl lmy, cln, tr anhy incl, tr  
blk carb mud incl, tr blk SH ptgs, tt-tr intxl POR, n-tr bri  
yel FLOR, n-tr ltgn live C STN, n-g fast stmg mlky CUT, tr  
OD

5471.5 LS gy, crpxl, vrr micxl, sldcl, tr anhy str, n-vrr intxl POR,  
fr bri yel FLOR along frac, rr ltbrn STN, slo stmg mlky CUT,  
n OD

5472.5 LS gy-gybrn, crpxl, occ micxl, rthy-cln, anhy ip, vsldol, sly  
ip, slfos, bred app, tr anhy incl, tr intxl-tr pp vug POR, tr  
frac POR, fr dul-bri yel FLOR, tr ltbrn STN, g fast stmg mlky  
CUT, tr OD, tr live gn O on core

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1  
SECTION 1, T42S, R23E  
SAN JUAN COUNTY, UTAH

CORE DESCRIPTION

CORE #3

5472.5'-5503.5'

DESERT CREEK

CUT-30' REC-31'

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|        |    |   |
|--------|----|---|
| 5473   | LS | gybrn, crpxl-micxl, slsly, vsldol, anhy-tr anhy xl-incl, vslfos, tt-tr intxl-tr scat. pp vug POR, g bri yel FLOR, fr ltbrn STN, g mod fast stmg CUT, fr OD, tr O-gas breaking from core                         |
| 5474.5 | LS | ltbrn, crpxl, micxl ip, vsldol, tr anhy xl-incl, Crin fos, tr carb mud incl, rr frac-rr intxl POR-vrr pp vug POR, tr bri yel FLOR, tr lt-dkbrn STN, tr g mod fast stmg CUT, fr OD, stks of O breaking from core |
| 5475.9 | LS | AA, tr anhy-calc xl in vugs, tt-rr intxl-tr pp vug POR, tr dul-bri yel FLOR, rr ltbrn STN, tr-fr mod fast stmg CUT, tr OD, O oozing from core   |
| 5477.5 | LS | ltgybrn, crpxl-vfxl, tr anhy xl-incl, cln, gast fos, tr frac, occ anhy fl, tr intxl-rr pp vug POR, fr dul-bri yel FLOR, tr ltbrn STN, fr fast stmg mlky CUT, fr OD, tr O & gas breaking from core-streaky       |
| 5478.1 | LS | ltgybrn, crpxl, cln-tr anhy xl-incl, vslsly ip, tr blk carb mud incl-styl, tt-rr intxl-vug POR, tr frac, rr spty dul-bri yel FLOR, vrr vis STN, rr fr mod stmg CUT, vrr OD, rr stks of O breaking from core     |
| 5479.9 | LS | AA, POR AA, vrr dul-bri yel FLOR, vrr STN, vrr slo CUT, fnt OD, n-vrr O breaking from core  |
| 5480.9 | LS | ltgybrn-ltbrn, crpxl-vrr micxl, cln, tr anhy incl, styl, rr frac, vrr intxl-frac-vug POR, fr fnt dul-rr bri yel FLOR, vrr ltbrn-n vis STN, vrr mod fast stmg mlky CUT, rr fnt OD                                |
| 5482.4 | LS | ltbrn, crpxl-micxl, cln-vslsly, anhy-tr anhy xl-incl, tr Brac fos, tr intxl-rr pp vug POR, fr dul-bri yel FLOR, tr lt brn STN, fr mod fast stmg CUT, fnt OD, vrr stks of O from core                            |
| 5483.1 | LS | gybrn-brn, crpxl, some micxl-vfxl, cln-slsly, rr carb mud incl, tr drlg mud invasion, fos-crin-brac-cor, g intxl-fr pp vug POR, g dul yel FLOR, g ltbrn STN, g slo-mod fast stmg CUT, fnt OD                    |

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1

5484 LS ltbrn-tan, crpxl-micxl, cln, tr anhy xl-incl, styl, v fos AA, tt-tr intxl-vrr pp vug POR, tr dul-spty bri yel FLOR, rr ltbrn STN, vrr vslo dif CUT,

5485.5 LS mbrn, micxl-vfxl, sldol, rthy-slsly, tr anhy xl-s nod, g intxl-tr pp vug POR, g dul yel FLOR, g brn STN, g slo-mod fast stmg CUT, fr OD

5487 LS AA, dol ip, tr crin-cor fos, POR AA, FLOR-STN-CUT AA, tr OD

5488.1 LS ltgybrn-ltgy, crpxl, s/micxl-vfxl, cln-vsldol, tr anhy xl-rr incl, tr intxl-fr pp vug POR, g bri yel FLOR, fr ltbrn STN, g mod fast stmg CUT, fr OD

5490.3 LS ltbrn-bf, crpxl-vfxl, cln, occ vslsly, rr anhy xl, g alg POR, g intxl-vug POR(pp-1/2"), g bri yel FLOR, g brn STN, g fast stmg mlky CUT, abnt g OD, O on core, abnt drlg mud invasion

5491.8 LS AA, ltgybrn, POR AA, occ 1" vugs, FLOR-STN-CUT AA, abnt drlg mud in core, g OD

5493.8 LS AA, POR AA, FLOR-STN-CUT AA, g OD

5495.7 LS ltgy, crpxl, occ micxl-fxl, cln, vslanhy-tr incl, g vug(pp-1" vugs)-tr intxl POR, occ anhy-calc xl in vugs, vg dul-bri yel FLOR, g brn STN, vg fast stmg CUT, g OD, abnt drlg mud invasion

5497.8 LS AA, POR AA, fr bri-tr dul yel FLOR, g ltbrn-occ dkbrn-blk STN, g mod fast stmg mlky CUT, fr OD

5500.9 LS AA, vfos-brac, g alg POR, g intxl-vug POR, g lt-dkbrn STN, occ blk STN, g dul-tr bri yel FLOR, g fast mlky stmg CUT, g OD, tr O breaking from core, tr mud invasion

5503.5 LS AA, gybrn, POR AA, g bri yel FLOR, g brn STN, g fast stmg mlky cut, g OD, occ O bleeding from core, tr drlg mud invasion

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1  
SECTION 1, T42S, R23E  
SAN JUAN COUNTY, UTAH

CORE DESCRIPTION

CORE #4  
5503.5'-5535'  
DESERT CREEK  
CUT-31' REC-31.5'

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|        |     |  |
|--------|-----|--|
| 5504   | LS  | gy, crpxl-vfxl, suc ip, tr anhy xl-incl, tr calc xl in vugs, vslslty-cln, g alg POR, fr intxl-g vug POR, g bri yel FLOR, fr lt-dkbrn STN, g fast stmg mlky CUT, g OD, O oozing from core |
| 5505.8 | LS  | AA, ltbrn-gy, incr anhy incl, POR AA, fr dul-bri yel FLOR, STN & CUT AA, g OD, O oozing from core  |
| 5507.9 | LS  | AA, tr Brac fos, POR AA, FLOR-STN-CUT AA, g OD   |
| 5509.5 | LS  | AA, abnt Brac-Ivan fos, vg vug-fr intxl POR, g bri yel FLOR, g lt-dkbrn STN, g fast stmg mlky CUT, vg OD, tr O oozing from core  |
| 5511.9 | LS  | ltgy, crpxl-micxl, occ fxl-suc, tr anhy xl-incl, tr Ivan fos, occ anhy xl-calc xl in vugs, fr-g vug-tr intxl POR, fr dul-bri yel FLOR, fr lt-dkbrn STN, g fast stmg CUT, g OD            |
| 5513.4 | LS  | AA, g POR AA, g FLOR-STN-CUT AA, g OD  |
| 5515.3 | LS  | AA, POR AA, FLOR-STN-CUT AA, g OD  |
| 5516.7 | LS  | AA, tr blk carb SH incl, fr vug-tr intxl POR, fr-g bri yel FLOR, fr lt-dkbrn STN, g fast stmg CUT, fr OD   |
| 5517.9 | LS  | gy, crpxl, vrr micxl, slanhy, vslslty-cln, rr intxl-tr vug POR, tr bri yel FLOR, tr lt-dkbrn STN, tr of g fast CUT, fnt OD   |
| 5519.6 | LS  | gy, occ ltbrn, crpxl, tr anhy xl-incl, dns, tt, NFSOC  |
| 5521.2 | LS  | AA, abnt anhy incl, NFSOC  |
| 5521.6 | LS  | AA, NFSOC  |
| 5522.7 | LS  | LSAA, bcmg ltbrn, NFSOC  |
| 5523.3 | LS  | ltgybrn, crpxl, sldol, vslslty, tr fos, occ anhy xl-incl, dns, tt, NFSOC   |
| 5524.8 | DOL | ltbrn, crpxl-micxl, vlmy ip, tr blk carb mud incl, rthy, sl slty, vrr intxl POR, NFSOC   |

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1

|        |     |   |
|--------|-----|---|
| 5526.5 | DOL | AA, NFSOC   |
| 5527.2 | DOL | AA, NFSOC   |
| 5528   | SH  | blk, plty, slsly, mica, dol, tr incl, tr anhy xl  |
| 5529.9 | DOL | ltbrn, crpxl-micxl, sl-vlmy, cln-rthy, slsly, tr frac, dns-<br>vrr scat pp vug POR, NFSOC   |
| 5531.3 | DOL | brn, micxl, lmy, slty, rthy, slshy, tr anhy xl, vrr intxl<br>POR, vrr dul yel FLOR, vrr ltbrn STN, vrr slo CUT                            |
| 5533.1 | DOL | AA, sl lmy, vsly-vrthy, vrr intxl POR, NFSOC  |
| 5534.3 | DOL | lt-mbrn, micxl, rthy, slty, tr anhy incl-xl, sl lmy, fr-tr<br>intxl POR, g dul yel FLOR, fr ltbrn STN, g mod fast stmg mlky<br>CUT, fr OD |
| 5535   | DOL | AA, abnt anhy incl, POR AA. rr pp vug POR, FLOR-STN-CUT AA,<br>fr OD  |

CHUSKA ENERGY COMPANY  
 BLUE HOGAN 1-J1-1  
 SECTION 1, T42S, R23E  
 SAN JUAN COUNTY, UTAH

CORE DESCRIPTION

CORE #5  
 5535'-5536'  
 DESERT CREEK  
 CUT-30' REC-31'

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|        |     |  |
|--------|-----|--|
| 5535   | DOL | gybrn, micxl-vfxl, rthy, sl lmy, slty, tr anhy xl, fr-g intxl POR, fr dul-bri yel FLOR, tr ltbrn STN, g fast stmg mlky CUT, g OD   |
| 5536.5 | LS  | ltgybrn, crpxl-micxl, cln-rthy, vsldol, vslsly, tr anhy xl, styl, tt, NFSOC  |
| 5538.2 | LS  | AA, ltbrn, tr carb mud incl, styl, tt-vrr intxl POR, NFSOC   |
| 5540   | LS  | AA, styl, tt, NFSOC  |
| 5541.2 | LS  | AA, tt, NFSOC  |
| 5543.7 | LS  | AA, tt, NFSOC  |
| 5546.5 | LS  | ltgybrn, crpxl-vfxl, suc ip, vsldol, vslsly, tr anhy xl, occ thn anhy incl, tr-fr intxl-tr pp vug POR, fr dul-bri yel FLOR, tr ltbrn STN, fr slo stmg mlky CUT, tr OD, tr O bleeding from core |
| 5547.3 | LS  | AA, tr-fr vug-intxl POR, g dul-bri yel FLOR, fr ltbrn STN, fr mod fast stmg mlky CUT, fr OD, O bleeding from core  |
| 5548.5 | LS  | AA, ltbrn, tr anhy incl, rr intxl-tr pp vug POR, fr dul yel FLOR, tr ltbrn STN, v slo stmg mlky CUT, tr OD, occ O bleeding from core   |
| 5550.3 | LS  | ltbrn, crpxl-micxl, vslsly-cln, styl, dol-grdg to ltbrn lmy DOL, tt-vrr intxl-vrr pp vug POR, vrr dul yel FLOR, v rr STN, vp vslo-dif CUT, n OD  |
| 5551.5 | DOL | brn, micxl, rthy, sl lmy, slsly, rr anhy xl, tt-rr intxl POR, NFSOC  |
| 5553.5 | DOL | AA, vrr intxl POR, tr fnt dul yel FLOR, vrr STN, vp dif CUT, n OD  |
| 5555.9 | DOL | AA, mbrn, tr fnt dul yel FLOR, rr spty STN, tr slo stmg CUT, fnt OD  |
| 5556.4 | SH  | dkgybrn, plty, vdol, rthy, slty, mica  |

CHUSKA ENERGY COMPANY  
BLUE HOGAN 1-J-1

|        |    |          |
|--------|----|----------|
| 5557.2 | SH | AA       |
| 5559.7 | SH | AA, blk  |
| 5562.1 | SH | AA, dkgy |
| 5564.1 | SH | AA       |
| 5566.3 | SH | AA, blk  |

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 8707-1206**

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

7. If Unit or CA, Agreement Designation  
**N/A**

8. Well Name and No.  
**Blue Hogan 1J-1**

9. API Well No.  
**43-037-31562**

10. Field and Pool, or Exploratory Area  
**Desert Creek**

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

**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)  
**NW/SE Section 1-42S-23E  
2220' FSL & 1975' FEL**

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

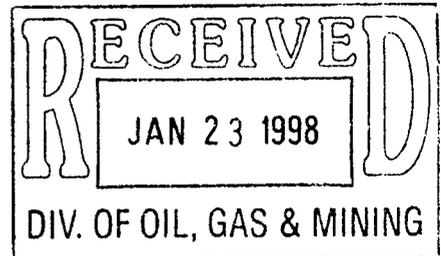
- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other **Updated site Security Diagram**
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(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.)\*

Attached you will find the updated site security diagram, for the above referenced lease, as of January 1998.

CC: State of Utah  
Navajo Nation  
BIA



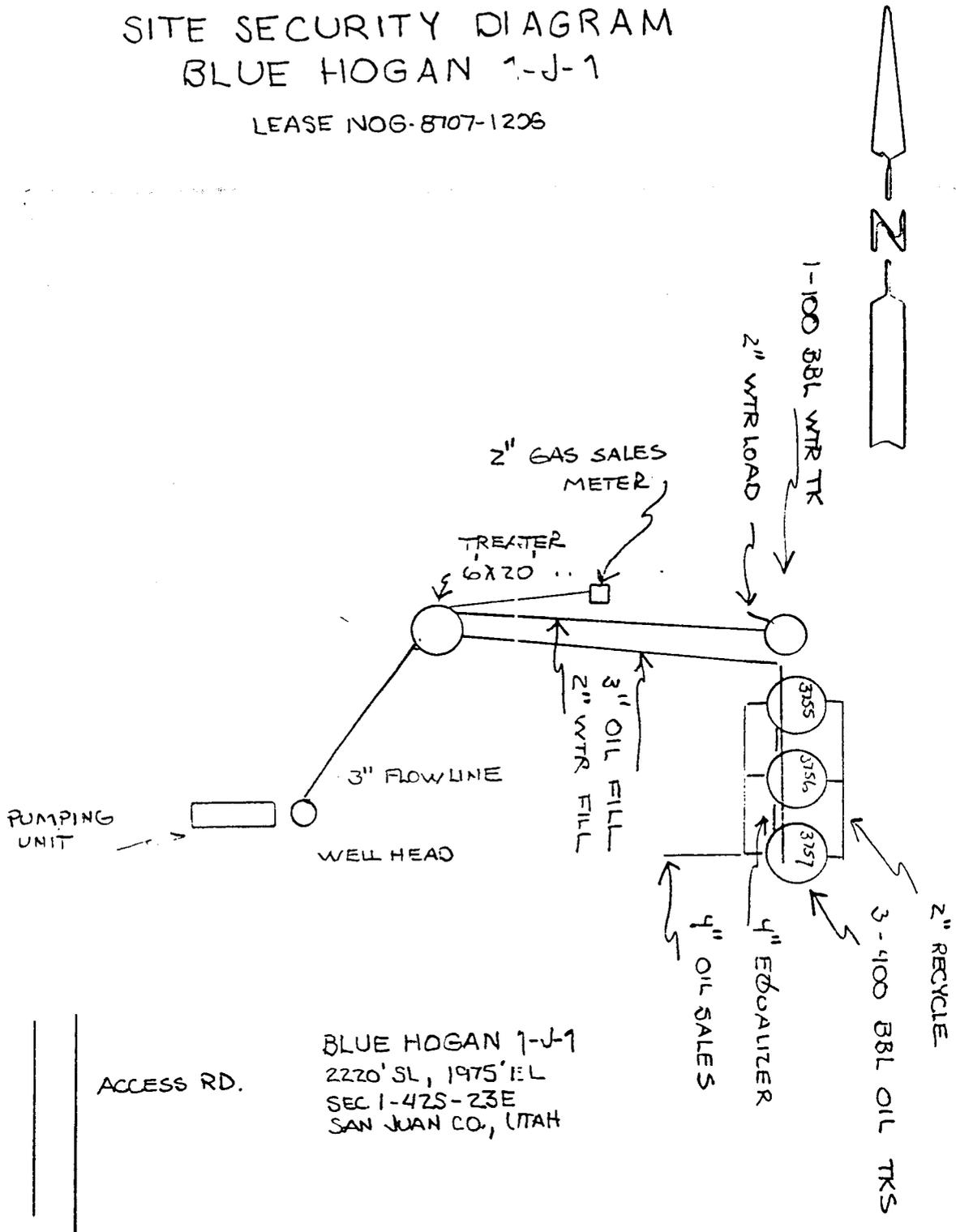
14. I hereby certify that the foregoing is true and correct.  
Signed Rachelle Montgomery Title Production Administrator Date 01/21/98

(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 statement or representations as to any matter within its jurisdiction.

HARKEN SOUTHWEST CORPORATION  
 SITE SECURITY DIAGRAM  
 BLUE HOGAN 1-J-1

LEASE NOG-8707-1206



BLUE HOGAN 1-J-1  
 2220' SL, 1975' EL  
 SEC 1-42S-23E  
 SAN JUAN CO., UTAH

ACCESS RD.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

43-037-31562

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 type="checkbox"/> Abandonment                         |
| <input checked="" 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>Gas venting</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                       |

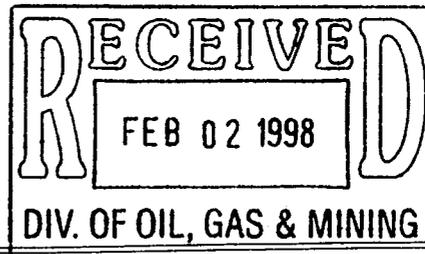
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

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:

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

Page 1 of 3

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

**Vented Gas (MCF) December 1997**

|                  |            |            |            |            |          |           |            |             |
|------------------|------------|------------|------------|------------|----------|-----------|------------|-------------|
| 25-Dec           | 88         | 58         | 29         | 14         |          | 12        | 84         | 158         |
| 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         | 157         |
| 30-Dec           | 88         | 57         | 30         | 16         |          | 12        | 84         | 162         |
| 31-Dec           | 79         | 52         | 26         | 16         |          | 12        | 84         | 157         |
| <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> | <b>1105</b> |

**Vented Gas (MCF) January 1998**

|                    |             |             |            |            |           |            |             |             |
|--------------------|-------------|-------------|------------|------------|-----------|------------|-------------|-------------|
| 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          | 162         |
| 7-Jan              | 84          | 72          | 29         | 22         |           | 11         | 84          | 157         |
| 8-Jan              | 79          | 75          | 30         | 22         |           | 9          | 84          | 157         |
| 9-Jan              | 77          | 70          | 29         | 21         | 11        | 12         | 84          | 147         |
| 10-Jan             | 0           | 0           | 0          | 0          | 0         | 2          | 0           | 136         |
| 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         |           | 0          | 0           | 0           |
| 19-Jan             | 81          | 67          | 28         | 22         | 0         | 5          | 99          | 0           |
| 20-Jan             | 80          | 64          | 30         | 21         | 0         | 2          | 12          | 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         | 20         |
| 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          | 0          | 0          |
| 18-Jan             | 0           | 0          | 0          | 0          | 44         | 21         |
| 19-Jan             | 69          | 23         | 14         | 21         | 44         | 21         |
| 20-Jan             | 13          | 4          |            | 5          | 10         | 23         |
| <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

|                                       | Mule 31M<br>43-037-31710<br>SW/SW Sec31-41-24E | Big Sky 6E(6L)<br>43-037-31714<br>NW/SW Sec 6-42S-26E | Mule 31-K(N)<br>43-037-31617<br>NE/SW Sec 31-41S-24E | DAILY TOTALS |
|---------------------------------------|--|---|--|--------------|
| <b>Vented Gas (MCF) December 1997</b> |  |   |  |              |
| 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>  |
| <b>Vented Gas (MCF) January 1998</b>  |  |   |  |              |
| 1-Jan                                 | 22   | 62  |  | 704          |
| 2-Jan                                 | 23   | 63  |  | 688          |
| 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  | 0   | 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

**HARKEN**  
 Susan Herrera  
 RHM 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) |
| NAVAJO TRIBAL 23-13       |        |            | DSCR           | P           | OW        | 28        | 1,071              | 551       | 2,296       |
| 4303730971                | 09420  | 40S 24E 13 |                |             |           |           |                    |           |             |
| NAVAJO TRIBAL 41-2        |        |            | DSCR           | P           | OW        | 19        | 174                | 23        | 0           |
| 4303731041                | 09437  | 42S 24E 02 |                |             |           |           |                    |           |             |
| NAVAJO TRIBAL 32-26       |        |            | DSCR           | P           | OW        | 8         | 104                | 291       | 0           |
| 4303731060                | 09990  | 40S 22E 26 |                |             |           |           |                    |           |             |
| NAVAJO TRIBAL 14-10       |        |            | DSCR           | P           | OW        | 28        | 93                 | 0         | 0           |
| 4303730977                | 10130  | 40S 24E 05 |                |             |           |           |                    |           |             |
| SAHGZIE 1                 |        |            | DSCR           | P           | OW        | 28        | 1,025              | 476       | 0           |
| 4303731472                | 11032  | 42S 24E 05 |                |             |           |           |                    |           |             |
| ANASAZI 1                 |        |            | DSCR           | P           | OW        | 28        | 1,308              | 1,349     | 0           |
| 4303731478                | 11042  | 42S 24E 05 |                |             |           |           |                    |           |             |
| CAJON MESA 8D-1           |        |            | DSCR           | P           | OW        | 27        | 245                | 355       | 61          |
| 4303731497                | 11074  | 40S 25E 08 |                |             |           |           |                    |           |             |
| MONUMENT 8N-2             |        |            | DSCR           | P           | OW        | 28        | 239                | 496       | 0           |
| 4303731509                | 11087  | 40S 25E 08 |                |             |           |           |                    |           |             |
| RUNWAY 10G-1              |        |            | DSCR           | S           | OW        | 28        | 1,412              | 1,613     | 432         |
| 4303731515                | 11105  | 40S 25E 10 |                |             |           |           |                    |           |             |
| RUNWAY 10E-2              |        |            | DSCR           | S           | GW        | 27        | 279                | 917       | 0           |
| 4303731550                | 11128  | 40S 25E 10 |                |             |           |           |                    |           |             |
| MONUMENT 17E-2            |        |            | DSCR           | S           | OW        | 26        | 157                | 548       | 0           |
| 4303731547                | 11139  | 40S 25E 17 |                |             |           |           |                    |           |             |
| LONE MOUNTAIN CREEK 12F-1 |        |            | DSCR           | P           | OW        | 22        | 149                | 533       | 12          |
| 4303731545                | 11148  | 42S 24E 12 |                |             |           |           |                    |           |             |
| RUNWAY 10C-5A             |        |            | DSCR           | P           | OW        | 24        | 221                | 899       | 40          |
| 4303731597                | 11152  | 40S 25E 10 |                |             |           |           |                    |           |             |
| TOTALS                    |        |            |                |             |           |           | 6477               | 8051      | 2841        |

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**  
**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

**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><br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <u>SEE ATTACHED</u> |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>SEE ATTACHED |
| <b>2. NAME OF OPERATOR:</b><br>RIM Southwest Corporation  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>Navajo         |
| <b>3. ADDRESS OF OPERATOR:</b><br>P.O. Box 145    CITY Farmington    STATE NM    ZIP 87499  |  | <b>7. UNIT or CA AGREEMENT NAME:</b><br>SEE ATTACHED           |
| <b>4. LOCATION OF WELL</b><br>FOOTAGES AT SURFACE: <u>SEE ATTACHED</u>  |  | <b>8. WELL NAME and NUMBER:</b><br>SEE ATTACHED                |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____  |  | <b>9. API NUMBER:</b><br>SEE ATTACH                            |
| COUNTY: <u>San Juan</u>   |  | <b>10. FIELD AND POOL, OR WILDCAT:</b><br>Greater Aneth        |
| STATE: <u>UTAH</u>  |  |  |

**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><br>(Submit in Duplicate)<br><br>Approximate date work will start:<br>_____ | <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"/> <b>SUBSEQUENT REPORT</b><br>(Submit Original Form Only)<br><br>Date of work completion:<br>_____   | <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 23 2001  
DIVISION OF  
OIL, GAS AND MINING

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

(This space for State use only)

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

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- 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]

Exp. Oct 15, 2001

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR  
Date: 9-17-01  
Initials: [Signature]

RECEIVED  
[Stamp]

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

Signed [Signature]

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            | - 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             | - 43-037-31000 |
| 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>    |                |



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 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>  | 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 |
| DRY BTU @ 14.696 | 1,407.3 |
| DRY BTU @ 14.730 | 1,410.5 |
| DRY BTU @ 15.025 | 1,438.8 |

|                   |             |
|-------------------|-------------|
| CYLINDER #        | 004         |
| CYLINDER PRESSURE | 12 PSIG     |
| DATE RUN          | 7/1/98      |
| 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  |
| TOTAL       | 100.000 | 9.0422 | 1,408.36 | 0.8260  |

\* @ 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**

|               |                        |               |                  |
|---------------|------------------------|---------------|------------------|
| CUSTOMER NAME | HARKEN SOUTHWEST CORP. | SOURCE        | N/A              |
| WELL NAME     | RUNAWAY 10C 5-A        | PRESSURE      | 9 PSIG           |
| COUNTY/ STATE | SAN JUAN UT            | SAMPLE TEMP   | 69 DEG.F         |
| LOCATION      | ANETH                  | WELL FLOWING  | Y                |
| FIELD         |                        | DATE SAMPLED  | 12/21/00         |
| FORMATION     |                        | SAMPLED BY    | FGM              |
| CUST.STN.NO.  | 202E308719             | FOREMAN/ENGR. | 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 | 0.351 |       |
| 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

CQM, INC. ON-SITE GAS ANALYSIS  
 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**

|               |                        |               |                  |
|---------------|------------------------|---------------|------------------|
| CUSTOMER NAME | HARKEN SOUTHWEST CORP. | SOURCE        | N/A              |
| WELL NAME     | NAVAJO TRIBAL 32-26    | PRESSURE      | 17 PSIG          |
| COUNTY/ STATE | SAN JUAN UT            | SAMPLE TEMP   | 30 DEG.F         |
| LOCATION      | ANETH                  | WELL FLOWING  | Y                |
| FIELD         |                        | DATE SAMPLED  | 12/21/00         |
| FORMATION     |                        | SAMPLED BY    | FGM              |
| CUST.STN.NO.  | 202A-52531             | FOREMAN/ENGR. | 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  |
| TOTAL       | 100.000 | 7.8431 | 1,380.39 | 0.8007  |

\* @ 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 |
| DRY BTU @ 14.696 | 1,384.4 |
| DRY BTU @ 14.730 | 1,387.6 |
| DRY BTU @ 15.025 | 1,415.4 |

|                   |             |
|-------------------|-------------|
| CYLINDER #        | KFL148      |
| CYLINDER PRESSURE | 23 PSIG     |
| DATE RUN          | 12/22/00    |
| 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. = 1584.681  
 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

CQM, INC. ON-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 14:32:41  
 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   | 0.001 |       |
| Methane      | 56.655 | 573.539 | 0.304 |       |
| 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**

|               |                        |               |                  |
|---------------|------------------------|---------------|------------------|
| CUSTOMER NAME | HARKEN SOUTHWEST CORP. | SOURCE        | N/A              |
| WELL NAME     | MONUMENT 8N2           | PRESSURE      | 12 PSIG          |
| COUNTY/ STATE | SAN JUAN UT            | SAMPLE TEMP   | 55 DEG.F         |
| LOCATION      | ANETH                  | WELL FLOWING  | Y                |
| FIELD         |                        | DATE SAMPLED  | 12/21/00         |
| FORMATION     |                        | SAMPLED BY    | FGM              |
| CUST.STN.NO.  | 202E311589             | FOREMAN/ENGR. | 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 |
| DRY BTU @ 14.696 | 1,613.6 |
| DRY BTU @ 14.730 | 1,617.3 |
| DRY BTU @ 15.025 | 1,649.7 |

|                   |             |
|-------------------|-------------|
| CYLINDER #        | 050         |
| CYLINDER PRESSURE | 15 PSIG     |
| DATE RUN          | 12/22/00    |
| 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

|               |                        |               |                  |
|---------------|------------------------|---------------|------------------|
| 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             | FCREMAN/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. 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. ON-SITE GAS ANALYSIS  
 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  | 0.053 | 0.799 |
| Heptanes     | 0.514  | 28.348  | 0.013 | 0.237 |
| Octanes      | 0.143  | 8.957   | 0.006 | 0.073 |
| Nonanes      | 0.000  | 0.000   | 0.000 |       |

Ideal Total 100.000 1546.420 0.903 10.332  
 Unnormalized Total 108.337

## Gross 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**

|               |                        |               |                  |
|---------------|------------------------|---------------|------------------|
| 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.  
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 \_\_\_\_\_  
\_\_\_\_\_  
(Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng. \_\_\_\_\_  
(API No.) \_\_\_\_\_

Suspense \_\_\_\_\_  
(Return Date) \_\_\_\_\_  
 Other \_\_\_\_\_  
(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 in 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 renegotiate with Navajo to extend Row was denied [man choice] 1 month  
to rebuild once ok given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]  
c) Use 6" Coroco Line - convert to gas and truck liquids from plant - talks broke down 9/10/01.  
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.

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

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

**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<br><input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other |  | 5. Lease Serial No.<br><b>See Attached</b>                     |
| 2. Name of Operator<br><b>RIM SOUTHWEST CORPORATION</b>   |  | 6. If Indian, Allottee or Tribe Name<br><b>Navajo Nation</b>   |
| 3a. Address<br><b>P.O. Box 145, Farmington, NM 87499</b>  | 3b. Phone No. (include area code)<br><b>(505) 327-5531</b> | 7. If Unit or CA/Agreement, Name and/or No.                    |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  |  | 8. Well Name and No.   |
|   |  | 9. API Well No.  |
|   |  | 10. Field and Pool, or Exploratory Area                        |
|   |  | 11. County or Parish, State<br><b>San Juan county<br/>Utah</b> |

**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 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 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.

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 <b>Flare Gas</b> |
|   | <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            |  |

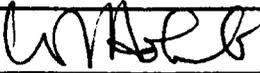
13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths 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**

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

**RECEIVED**

Approved by \_\_\_\_\_ Title **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<br>(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 8707-1181               | 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 |
| TOTAL AVERAGE:              |                     |             | 254           |              |

**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):<br>N9290-Harken Southwest Corporation<br>5 Inverness Drive, East<br>Denver, CO 80112<br><br>Phone: (303) 799-9828 | <b>TO:</b> ( New Operator):<br>N1715-Rim Southwest Corporation<br>PO Box 145<br>Farmington, NM 87499<br><br>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 Communitization 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  
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)  
 NW SE sec 1 T 42S R 23E

5. Lease Serial No.  
 NOG 8707-1206

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

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
 Blue Hogan 1J-1

9. API Well No.  
 43-037-31562

Desert Creek

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        | Return 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 recomplate horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will 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 reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to production 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 *Kenneth J Kundrik* 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** BY *[Signature]*

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)

**FARMINGTON**  
*Utah - OGD*

**RECEIVED**  
**SEP 25 2008**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

**SUNDRY NOTICES AND REPORTS ON WELLS** Land Management Farmington Field Office  
*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: July 31, 2010

5. Lease Serial No. NOG 8707-1206  
6. If Indian, Allottee, or Tribe Name The Navajo Nation  
7. If Unit or CA. Agreement Designation  
8. Well Name and No. Blue Hogan 1J-1  
9. API Well No. 43-037-31562  
10. Field and Pool, or Exploratory Area Desert Creek  
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)  
NW SE Sec 1 T 42S R 23E

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 \_\_\_\_\_  
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 any deposit or statement or representation as to any matter within its jurisdiction.

(Instructions on reverse)

ACCEPTED FOR RECORD

MAR 09 2009

FARMINGTON FIELD OFFICE  
BY *CM*

WTAA

7CD

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

|  |  |   |
|--|--|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br><b>11161</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:<br><b>Navajo</b>  |
|  |  | 7. UNIT or CA AGREEMENT NAME:                           |
| 1. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____  | 8. WELL NAME and NUMBER:<br><b>Blue Hogan 1J#1</b> |   |
| 2. NAME OF OPERATOR:<br><b>Navajo Nation Oil and Gas Company</b>   |  | 9. API NUMBER:<br><b>43-037-31562</b>                   |
| 3. ADDRESS OF OPERATOR:<br><b>P. O. Box 5069 Window Rock AZ 86515</b>  | PHONE NUMBER:<br><b>303-534-8300</b>               | 10. FIELD AND POOL, OR WILDCAT:<br><b>Greater Aneth</b> |

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **2220 FSL & 1975 FEL** COUNTY: **San Juan**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NW SE sec. 1 T42S R23E** STATE: **UTAH**

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

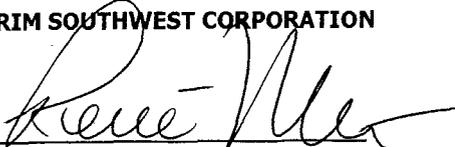
| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br>Approximate date work will start: _____          | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <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<br>(Submit Original Form Only)<br>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.

**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 Geminario</u> | TITLE <u>Land Manager</u> |
| SIGNATURE <u>Lauren Geminario</u>           | DATE <u>8/1/12</u>        |

(This space for State use only)

**APPROVED**

DEC 11 2012

DIV. OIL GAS & MINING  
BY: Rachel Medina



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

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

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

**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<br>OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>See Attached |
| 2. NAME OF OPERATOR:<br>Navajo Nation Oil & Gas Co.  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:<br>Navajo Nation  |
| 3. ADDRESS OF OPERATOR:<br>1675 Broadway, Suite 1100 CITY Denver STATE CO ZIP 80202                |  | 7. UNIT or CA AGREEMENT NAME:                           |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE: See Attached List                                      |  | 8. WELL NAME and NUMBER:<br>See Attached                |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:   |  | 9. API NUMBER:<br>Various                               |
|  |  | 10. FIELD AND POOL, OR WILDCAT:<br>Various              |
|  |  | COUNTY: San Juan  |
|  |  | 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<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____          | <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<br>(Submit Original Form Only)<br>Date of work completion:<br>_____ | <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

RECEIVED

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><br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____                               |  | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>See Attached |
| <b>2. NAME OF OPERATOR:</b><br>Navajo Nation Oil & Gas Co  |  | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>Navajo Nation  |
| <b>3. ADDRESS OF OPERATOR:</b><br>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><br>FOOTAGES AT SURFACE: _____   |  | <b>8. WELL NAME and NUMBER:</b><br>See Attached                |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____   |  | <b>9. API NUMBER:</b><br>Various                               |
| COUNTY: <b>San Juan</b>  |  | <b>10. FIELD AND POOL, OR WILDCAT:</b><br>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><br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____          | <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><br>(Submit Original Form Only)<br>Date of work completion:<br>_____ | <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 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>     |

This space for State use only) **APPROVED**

**DEC 31 2012**

DIV. OIL GAS & MINING

BY: Rachel Medina (See Instructions on Reverse Side)

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

|  |   |
|--|---|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING  | <b>FORM 9</b><br><br><b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>NOG-8707-1206                                |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b><br>NAVAJO<br><br><b>7. UNIT or CA AGREEMENT NAME:</b>                  |
| <b>1. TYPE OF WELL</b><br>Oil Well   | <b>8. WELL NAME and NUMBER:</b><br>BLUE HOGAN 1J-1  |
| <b>2. NAME OF OPERATOR:</b><br>NAVAJO NATION OIL & GAS CO  | <b>9. API NUMBER:</b><br>43037315620000   |
| <b>3. ADDRESS OF OPERATOR:</b><br>P.O. Box 4439 , Window Rock, AZ, 86515   | <b>PHONE NUMBER:</b><br>303 534-8300 Ext  |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>2220 FSL 1975 FEL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWSE Section: 01 Township: 42.0S Range: 23.0E Meridian: S  | <b>9. FIELD and POOL or WILDCAT:</b><br>DESERT CREEK<br><br><b>COUNTY:</b><br>SAN JUAN<br><br><b>STATE:</b><br>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<br>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<br>Date of Work Completion:<br><b>12/24/2012</b> | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS      | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> CHANGE WELL NAME               |
| <input type="checkbox"/> SPUD REPORT<br>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<br>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 style="width: 100px;" type="text"/>       |

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

On vent as of December 24, 2012 due to operational issues to sales line.

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

**Date:** January 23, 2013

**By:** *Derek Quist*

|   |                                     |                              |
|---|-------------------------------------|------------------------------|
| <b>NAME (PLEASE PRINT)</b><br>Lauren Germinario | <b>PHONE NUMBER</b><br>303 534-8300 | <b>TITLE</b><br>Land Manager |
| <b>SIGNATURE</b><br>N/A                         | <b>DATE</b><br>12/28/2012           |                              |

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

|  |  |   |
|--|--|---|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b>   |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br><b>VARIOUS</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:<br><b>NAVAJO</b>    |
| 1. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____  |  | 7. UNIT or CA AGREEMENT NAME:                             |
| 2. NAME OF OPERATOR:<br><b>NNOGC EXPLORATION AND PRODUCTION, LLC</b>   |  | 8. WELL NAME and NUMBER:<br><b>SEE ATTACHED</b>           |
| 3. ADDRESS OF OPERATOR:<br>P.O. BOX 4439 CITY <b>WINDOW ROCK</b> STATE <b>AZ</b> ZIP <b>86515</b>  |  | 9. API NUMBER:<br><b>ATTACHED</b>                         |
| PHONE NUMBER:<br><b>(303) 538-8300</b>   |  | 10. FIELD AND POOL, OR WILDCAT:<br><b>SEE ATTACHED</b>    |
| 4. LOCATION OF WELL<br>FOOTAGES AT SURFACE:  |  | COUNTY: <b>SAN JUAN</b>                                   |
| QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  |  | 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<br>(Submit in Duplicate)<br>Approximate date work will start:<br>_____          | <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 type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                 |
|   | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input checked="" type="checkbox"/> VENT OR FLARE      |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br>Date of work completion:<br>_____ | <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.

**PLEASE SEE ATTACHED LIST OF WELLS THAT ARE CURRENTLY VENTING. THE LISTED WELLS WILL BE VENTING FOR A MINIMUM OF TWO MONTHS PENDING REPAIRS TO THE ANADARKO LINE.**

|  |                           |
|--|---------------------------|
| NAME (PLEASE PRINT) <b>LAUREN GERMINARIO</b> | TITLE <b>LAND MANAGER</b> |
| SIGNATURE                                    | DATE <b>1/18/2013</b>     |

(This space for State use only)

Attachment to Form 9

| API          | Well Name        | Type     | Lease          | Field         | County   | T-R     | Section | Activity              | MCF/day (avg) |
|--------------|------------------|----------|----------------|---------------|----------|---------|---------|-----------------------|---------------|
| 43-037-31472 | SANGZIE 1        | Oil Well | NOG-8702-1162  | GREATER ANETH | SAN JUAN | 42S-24E | 5       | on vent 12/24/12      | 0             |
| 43-037-31478 | ANASAZI 1        | Oil Well | NOG-8702-1162  | GREATER ANETH | SAN JUAN | 42S-24E | 5       | on vent 12/24/12      | 17            |
| 43-037-31497 | CAJON MESA 8D-1  | Oil Well | NOOC-1420-5297 | CAJON MESA    | SAN JUAN | 40S-25E | 8       | S/I, on vent 12/10/12 | 8             |
| 43-037-31509 | MONUMENT 8N-2    | Oil Well | NOOC-1420-5297 | MONUMENT      | SAN JUAN | 40S-25E | 8       | S/I, on vent 12/10/12 | 11            |
| 43-037-31515 | RUNWAY 10G-1     | Oil Well | NOG-8707-1170  | RUNWAY        | SAN JUAN | 40S-25E | 10      | S/I, on vent 12/10/12 | 3             |
| 43-037-31547 | MONUMENT 17E-2   | Oil Well | NOG-8707-1191  | MONUMENT      | SAN JUAN | 40S-25E | 17      | S/I, on vent 12/10/12 | 0             |
| 43-037-31550 | RUNWAY 10E-2     | Gas Well | NOG-8707-1190  | RUNWAY        | SAN JUAN | 40S-25E | 10      | S/I, on vent 12/10/12 | 19            |
| 43-037-31562 | BLUE HOGAN 1J-1  | Oil Well | NOG-8707-1206  | DESERT CREEK  | SAN JUAN | 42S-23E | 1       | on vent 12/24/12      | 8             |
| 43-037-31572 | ANASAZI 5L-3     | Oil Well | NOG-8707-1163  | GREATER ANETH | SAN JUAN | 42S-24E | 5       | on vent 12/24/12      | 6             |
| 43-037-31573 | BROWN HOGAN 1A-2 | Oil Well | NOG-8707-1206  | DESERT CREEK  | SAN JUAN | 42S-23E | 1       | on vent 12/24/12      | 8             |
| 43-037-31617 | MULE 31K (N)     | Oil Well | NOG-8707-1231  | DESERT CREEK  | SAN JUAN | 41S-24E | 31      | on vent 12/24/12      | 1             |
| 43-037-31710 | MULE 31M         | Oil Well | NOG-8707-1231  | DESERT CREEK  | SAN JUAN | 41S-24E | 31      | on vent 12/24/12      | 8             |
| 43-037-31744 | ANASAZI 6H-1     | Oil Well | NOG-8707-1163  | GREATER ANETH | SAN JUAN | 42S-24E | 6       | on vent 12/24/12      | 0             |

Well does not produce gas

Well is currently s/i

Well does not produce gas

NOTE: The listed wells will be on vent for a minimum of 2 months pending repairs to the Anadarko line.