

# CHUSKA ENERGY COMPANY

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

RECEIVED  
NOV 01 1989  
DIVISION OF  
OIL, GAS & MINING

October 27, 1989

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84111-2303

RE: Application for Permit to Drill Sahgzie South No. 1.

Gentlemen:

Attached for your approval is an application for permit to drill the Sahgzie South No. 1, located in the NW/4 of Sec. 5, T42S, R24E, San Juan County, Utah.

As you are aware, field rules in this section allow for 80 acre stand up units with wells located in the NE/4 and SW/4 of a governmental quarter section. Wells are also to be located not closer than 500' from a quarter-quarter line. The Sahgzie South No. 1 is located 2,430' from the north line of the section and 1,110' from the west line of the section. For topographical reasons Chuska Energy Company requests administrative approval of a non-standard location as described above. This request is based on topographic reasons in that the well cannot be located with a buildable location within the prescribed drilling window.

Please advise Mr. Don Barnes or Mr. Tom McCarthy at the phone number on the letterhead if you require further information concerning this application. Your prompt consideration of this application will be appreciated.

Sincerely,

H. MERLE MYERS  
Vice President - Production

HMM:bnp  
Enclosure  
File:TRM\APSAS01

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  
315 N. Behrend, Farmington, New Mexico

4. Location of Well (Report location clearly and in accordance with any State requirement)  
At surface 2430' FNL, 1110 FWL (SWNW)  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
6 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) 210 FSL & FEL  
16. No. of acres in lease 50,000

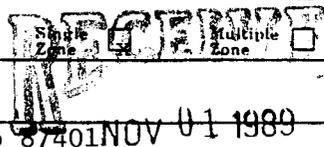
13. Distances from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. 1666  
19. Proposed depth 5648' Desert Creek

21. Elevations (Show whether DF, RT, GR, etc.) 4778 GR  
22. Approx. date work will start\* 1-15-90

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	500	Class G 2% CaCl 206 cu. ft.
7 7/8	5 1/2	15.5	5648	Class G (2 stage) 988 cu. ft.

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  
Sahzie South  
9. Well No.  
#1  
10. Field and Pool, or Wildcat  
Greater Aneth Pool (365)  
11. CO. Sec., T., R., M., or Blk. and Survey or Area  
5 - 42S - 24 E  
12. County or Parrish  
San Juan  
13. State  
Utah



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. (505) 326-5525  
Signed: Donald Burns Title: Operations Manager Date: 10-26-89

(This space for Federal or State office use)

API NO. 43-037-31478 Approval Date \_\_\_\_\_

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

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 11-9-89  
BY: Don R. Bays  
WELL SPACING: Case No. 17

\*See Instructions On Reverse Side

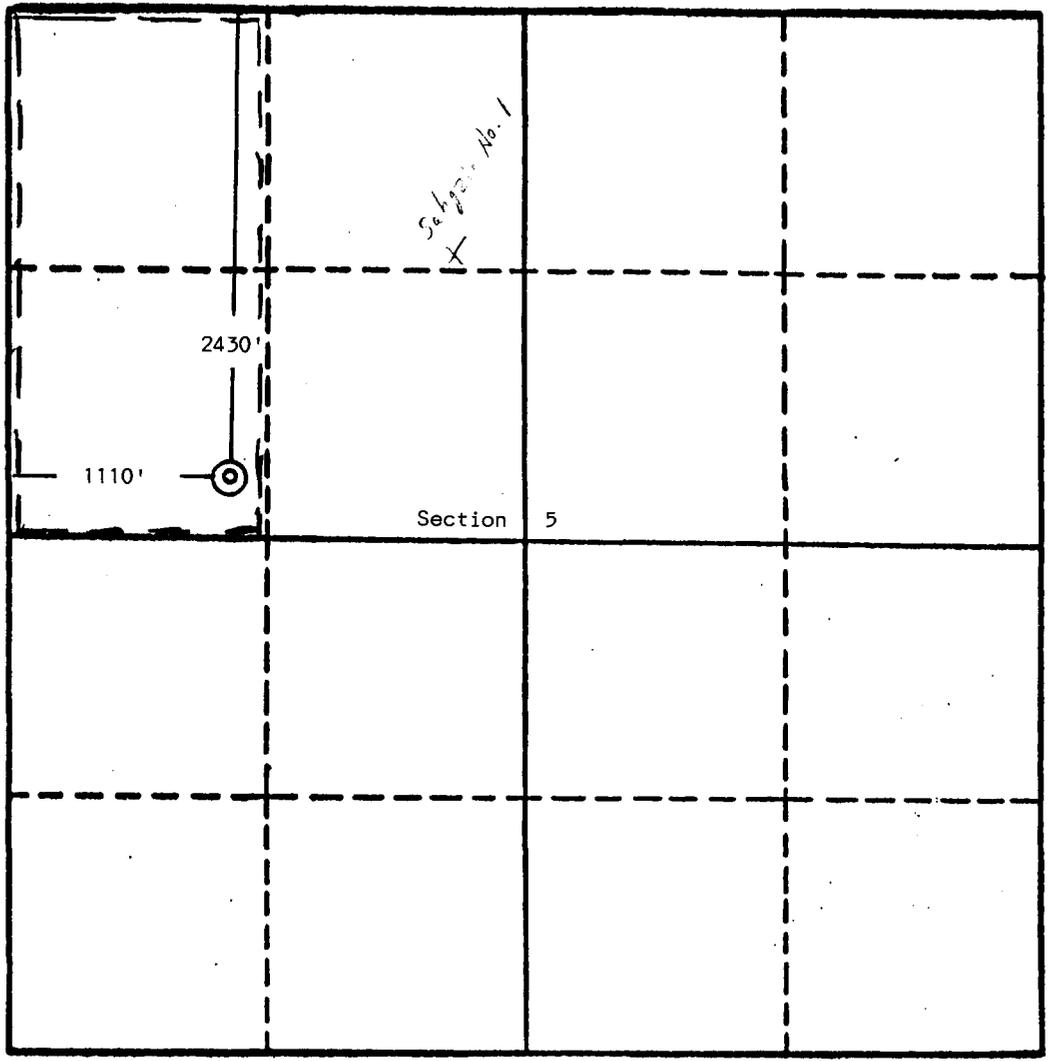
Company Chuska Energy Company

Well Name & No. Sahzie (4) South #1

Location 2430' F/NL 1110' F/WL

Sec. 5, T. 42 S., R. 24 E., S. L. M., County San Juan, Utah

Ground Elevation 4778



Scale, 1 inch = 1,000 feet

Surveyed October 10, 1989

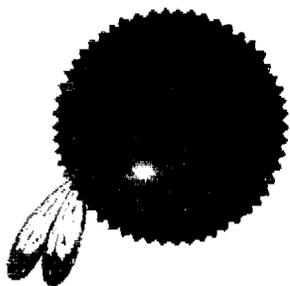
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:



Edgar L. Risenhoover  
Edgar L. Risenhoover,  
Registered Land Surveyor  
New Mexico Reg. No. 5979  
Non-resident certification as  
authorized by Utah State Law  
58-22-21(b)





# CHUSKA ENERGY COMPANY

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

November 6, 1989

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Building, Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84180

ATTENTION: Lisa Romero

RE: Sangzie #2, Section 5, T42S, R24E, San Juan County, Utah.

Dear Ms. Romero:

Attached is a plat showing Chuska Energy Company's acreage position in San Juan County, Utah.

Please advise if you require additional support for your files.

Sincerely,

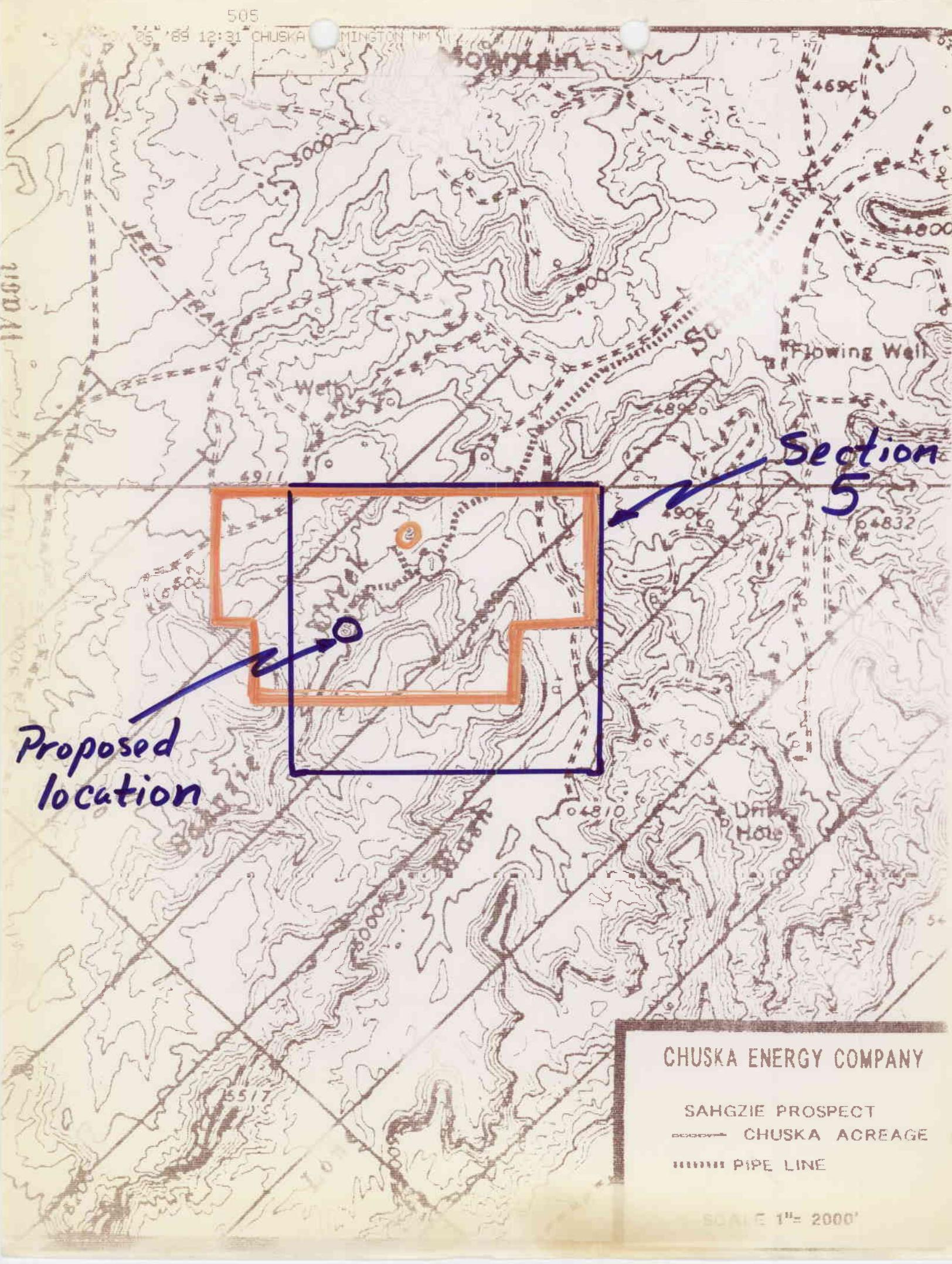
A handwritten signature in cursive script that reads "Donald S. Barnes".

DONALD S. BARNES

DSB:bnp

Enclosure

File:DSB\ACPOSSG2



Proposed location

Section 5

CHUSKA ENERGY COMPANY

SAHGZIE PROSPECT  
CHUSKA ACREAGE  
PIPE LINE

SCALE 1" = 2000'

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Sahgzie South WELL NO. 1  
SECTION 5, TOWNSHIP 42S, RANGE 24E  
2340' FNL, 1110' FWL  
SAN JUAN COUNTY, UTAH

1. SURFACE FORMATION

Geological name of the surface formation is 'Morrison Bluff.'

2. ELEVATION

Surface elevation is 4778' GR, 4792' KB.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>
Surface	Morrison Bluff	4778
161	Entrada	4631
517	Carmel	4261
625	Navajo	4153
980	Wingate	3798
1399	Chinle	3379
2339	Moenkopi	2439
2207	De Chelly	2200
2793	Organ Rock	1985
4478	Hermosa	300
5293	Ismay	-515
5428	Gothic Shale	-650
5448	Desert Creek	-670
5598	Chimney Rock Shale	-820
5648	TD	-870

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	24.0 ppf	K-55	STC
Production:	5648	5 1/2	15.5 ppf	K-55	STC

Surface Cementing:

180 sks (206 cf), Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 #/sk celloflake. Weight - 15.6 ppg, yield 1.14 cf/sk.

Production Cementing:

First Stage

TD to 3200' (stage collar @ 3200'). Lead with 170 sks Class 'G' 65\35 poz + 6% gel + .25 #/sk celloflake (12.7 ppg, 1.85 cf/sk), tailed with 100 sks Class 'G' + 2% CaCl<sub>2</sub> (15.6 ppg, 1.15 cf/sk). Total of 430 cf.

Second Stage

3200' to surface. Lead with 245 sks Class 'G' 65/35 poz + 6% gel + .25 #/sk celloflake (12.7 ppg, 1.85 cf/sk), tailed with 100 sks Class 'G' + 2% CaCl<sub>2</sub> (15.6 ppg, 1.15 cf/sk). Total of 568 cf.

Note: Exact slurry volumes will be adjusted based on the caliper log to be run prior to cementing the production casing.

5. BLOWOUT PREVENTER (See attached schematics)

As no abnormal pressures are anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per the attached Exhibits "A" and "B". This 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 by the operator.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel/lime, & native solids. Weight 8.3 - 8.7 ppg, with gel/lime sweeps as necessary to clean hole.

3500' to Total Depth

Low solids - non dispersed polymer system. Weight 8.6 - 8.8 ppg. Sweep with gel/lime sweeps as hole conditions dictate. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to drilling the Paradox formation.

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 TD to 4000'.

Drill stem testing will be as per well site geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

No abnormal pressures are 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 18 days. Anticipated spud date is 1-15-90.

DETAILED DRILLING PROGRAM

Sahgzie South NO. 1

DATE: October 25, 1989

WELL NAME: Sahgzie South WELL NO: 1

LOCATION: 2340' FNL, 1110' FWL  
Section 5, Township 42S, Range 24E  
San Juan COUNTY, Utah

ELEVATION: 4778' GR / 4792' KB

TOTAL DEPTH: 5648'

PROJECTED HORIZON: Chimney Rock Shale at 5598'; Desert Creek at 5448'

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of intent to run surface casing and time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at 250' and at casing point.
4. Run 8 5/8", 24 ppg, K55, STC casing to TD. Cement with 180 sks (206 cf) of Class 'G' + 2% CaCl<sub>2</sub> + 1/4 #/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. Pressure test BOP to 2000 psi for 30 minutes. Pressure test manifold and all related equipment to 2000 psi. Pressure test casing to 1500 psi for 30 min.
7. Drill out of surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on bit trip whichever occurs first. Maximum allowable deviation will be 5 degrees at TD with the maximum allowable rate of change to be 1 degree/100'.

8. Run open hole logs and evaluate. Drill-stem test as per wellsite geologist's recommendation.
9. If well is determined to be commercial, run 5 1/2", 15.50 ppf, K55 casing to TD. Set stage cementing collar at +/- 3200'. Cement in two stages as follows: Cement first stage with 170 sks of Class 'G' 65/35 poz + 6% gel + .25 #/sk celloflake followed by 100 sks of Class 'G' + 2% CaCl<sub>2</sub> (430 cf). Circulate a minimum of 6 hrs between stages. Cement second stage with 245 sks of Class 'G' 65/35 poz + 6% gel + .25 #/sk celloflake followed by 100 sks of Class 'G' + 2 % CaCl<sub>2</sub>.  
  
\*Note: exact slurry volumes will be calculated to circulate cement to surface, from caliper log to be run prior to cementing.
10. Nipple down BOPE. Set 5 1/2" casing slips, 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, BLM, and Navajo Tribal stipulations.

SAHGZIE SOUTH #1  
DRILLING PROGNOSIS  
SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map, are all of the existing roads in the immediate area. Outlined are the roads to be used from Montezuma Creek, Utah on highway 261 (exhibit 1). Existing roads will be maintained while operations are in progress.

2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road as shown on the Topo map will exit from Sahgzie #1 well and continue to the Sahgzie South #1 location. The road will be flat bladed, constructed 14' in width, and maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. An estimated 0.4 miles of new road will be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The existing wells and facilities are shown on the topographic map.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

If productive, a common battery will be constructed to service three wells, Sahgzie #1, Sahgzie South #1, and Sahgzie #2.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be hauled from an artesian water well under permit to Hay Hot Oil Service of Montezuma Creek, Utah. Permit # 09-1419 (A-60809).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event additional materials are required they will be acquired 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 trash 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 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, backfilled, and restored to the natural terrain.

8. PORTABLE TOILET

Chemical portable toilet facilities will be provided on location during drilling and completion operations.

9. ANCILLARY FACILITIES

No camps or air strips are planned for this well.

10. WELL SITE LAYOUT

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

11. PLANS FOR RESTORATION OF THE SURFACE

Top soil removed from the pad, will be stored at the well site. 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/disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned to its original condition as much as possible. Rehabilitation seeding will be in accordance with the APD/BLM/ BIA stipulations.

12. The location is laid out on a northwesterly trend requiring 7' of cut on the southeast corner and 10' of fill on the northwest corner. The reserve pit will be built on terrain containing sparse native vegetation. No residents are in the immediate area. The surface is Navajo Tribal Lease NOG-8702-1116.

13. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY  
315 NORTH BREHREND AVENUE  
FARMINGTON, NEW MEXICO 87401  
DONALD S. BARNES

14. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drillsite 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.

DATED October 26, 1989



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DONALD S. BARNES  
Operations Manager

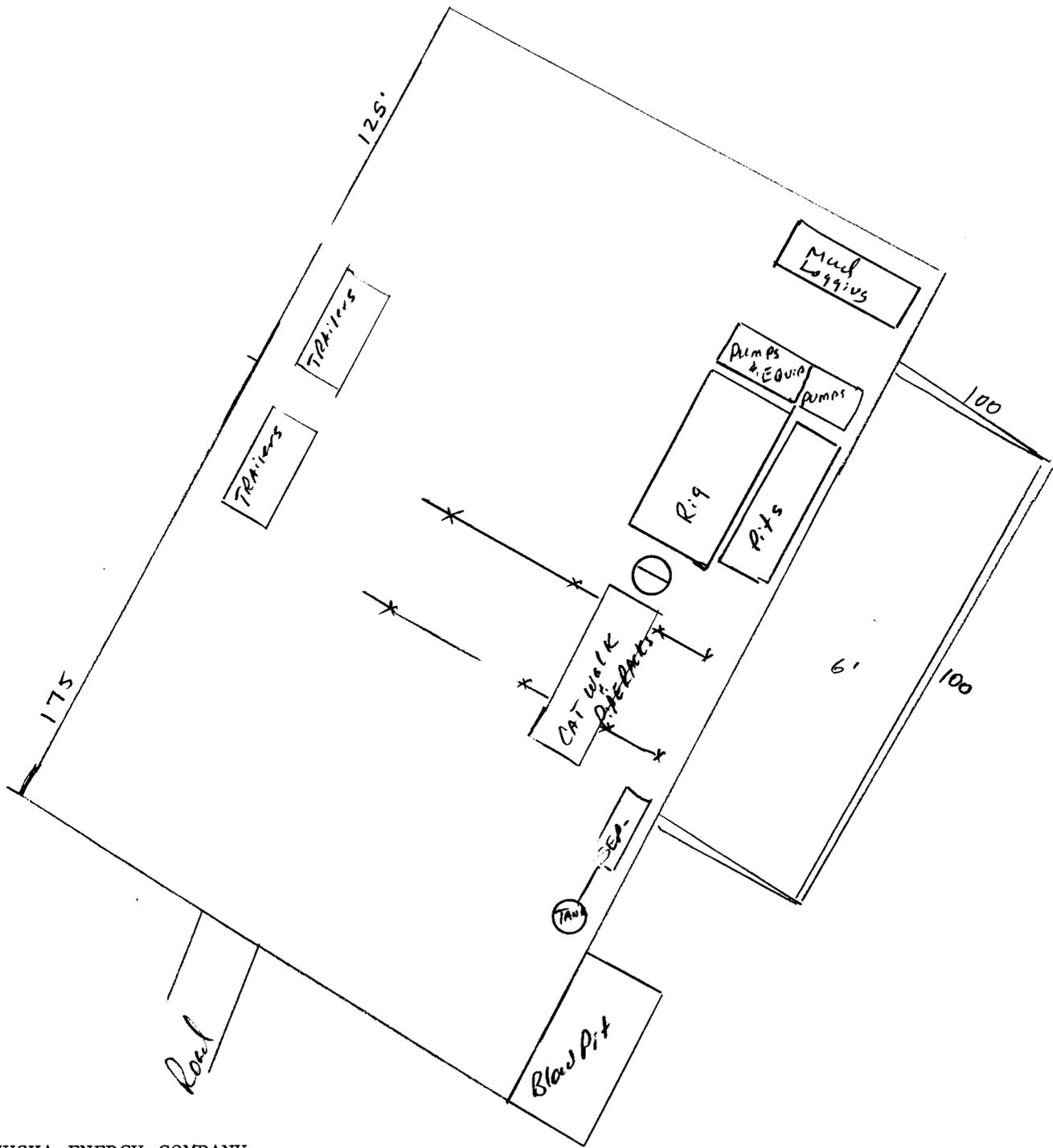
SAHGZIE SOUTH #1  
2340' FNL X 1110' FNL  
SEC 5, T42S, R24E

GENERAL COMPLETION PROCEDURE

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

PLUGGING AND ABANDONMENT

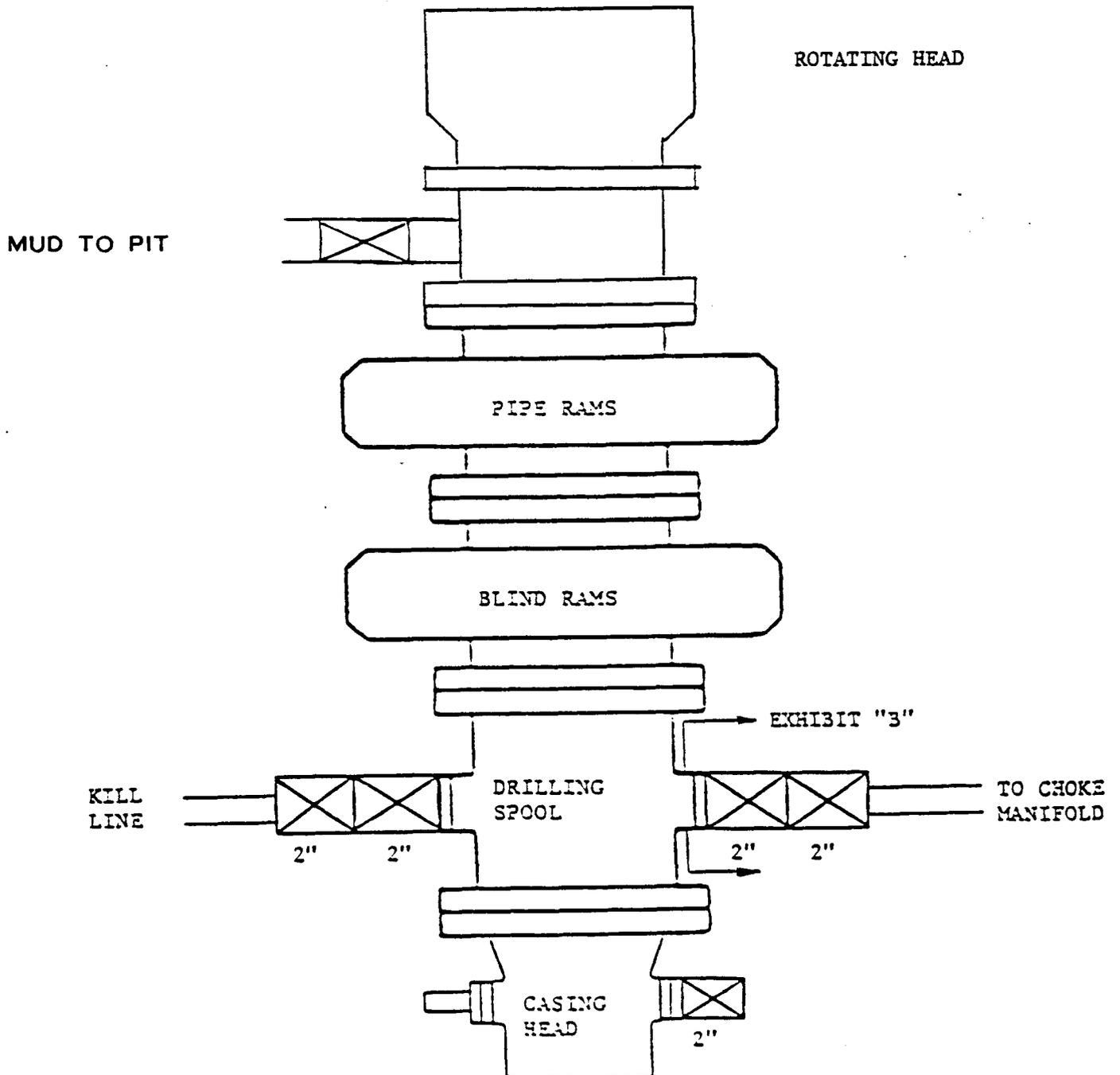
If the well is determined not to be productive, the well bore will be plugged as per BLM instructions.



CHUSKA ENERGY COMPANY  
SAHZIE SOUTH #1  
NW/4-5-42S-24E  
SAN JUAN COUNTY, UTAH  
October 26, 1989

CHUSKA ENERGY COMPANY  
SAHGZIE SOUTH #1  
NW/4-5-42S-24E  
SAN JUAN COUNTY, UTAH

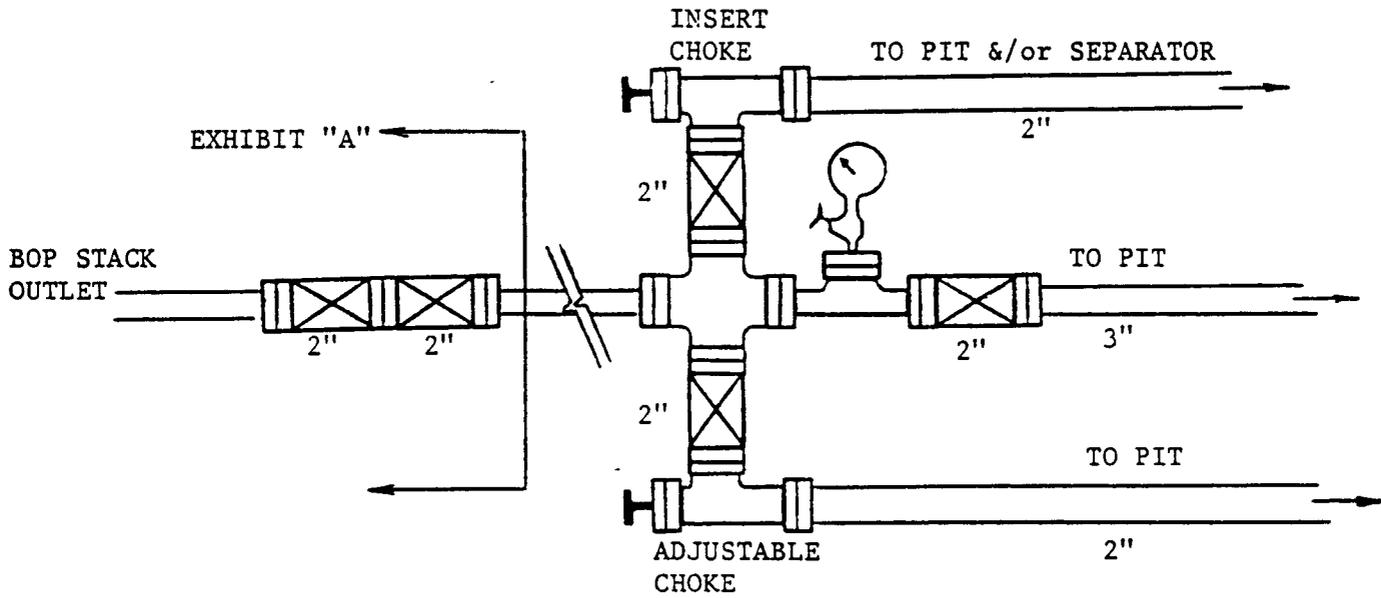
EXHIBIT A  
BLOWOUT PREVENTER



CHUSKA ENERGY COMPANY  
SAHGZIE SOUTH #1  
NW/4-5-42S-24E  
SAN JUAN COUNTY, UTAH

EXHIBIT "B"

CHOKE MANIFOLD





4122

210 000  
FEET

4120

4119

4118

4117

4116

T. 41 S.

T. 42 S.

10

4114

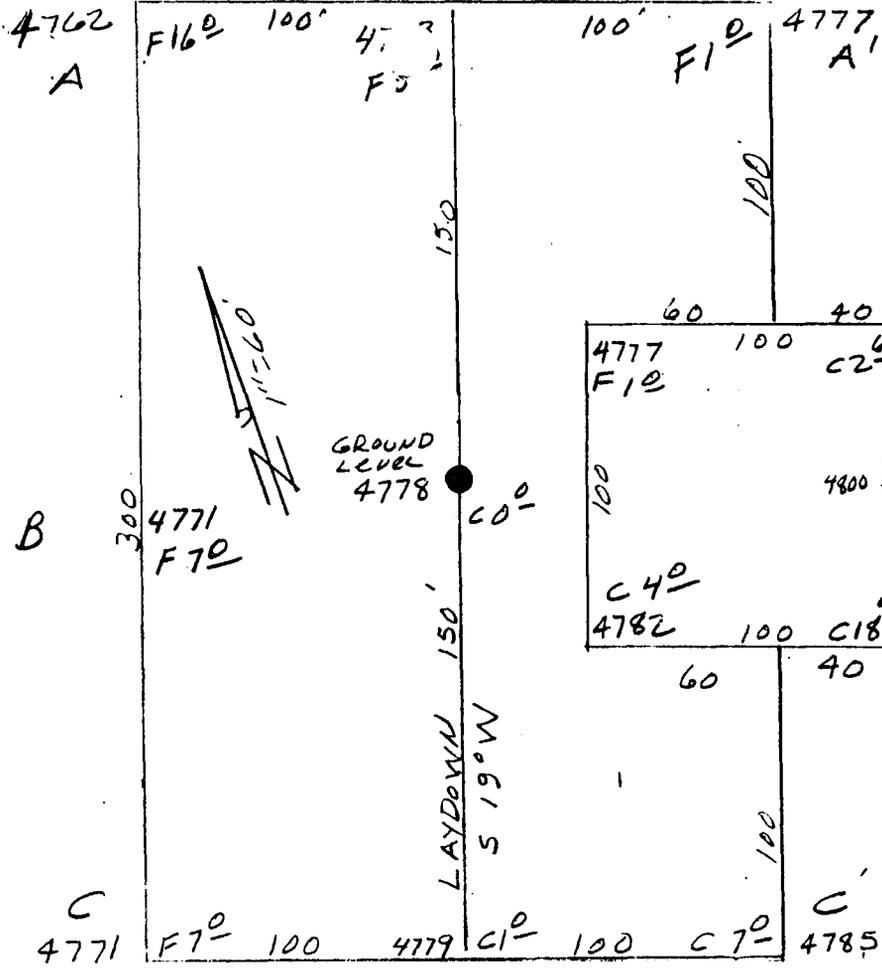
4113

4112

4111

esa

Drill Hole



Chuska Energy Company  
**OPERATOR**

Sahzie #2 South  
**WELL NAME & NO.**

2430' F/NL 1110' F/WL

**FOOTAGES**

5 42S 24E

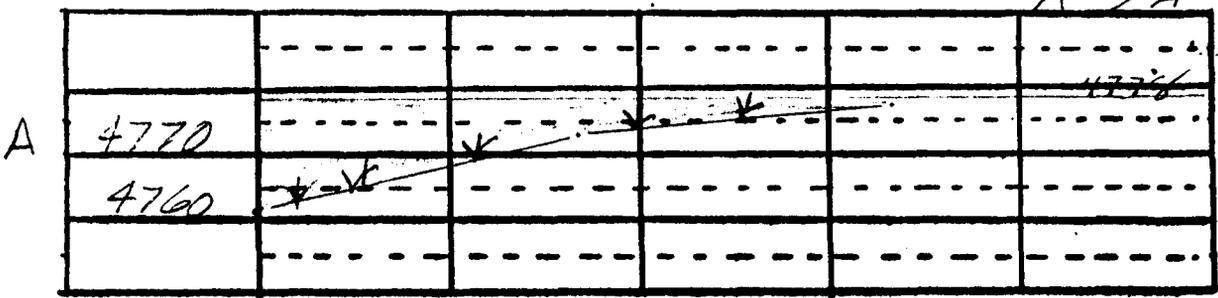
**SEC. TWP. RGE.**

San Juan, Utah

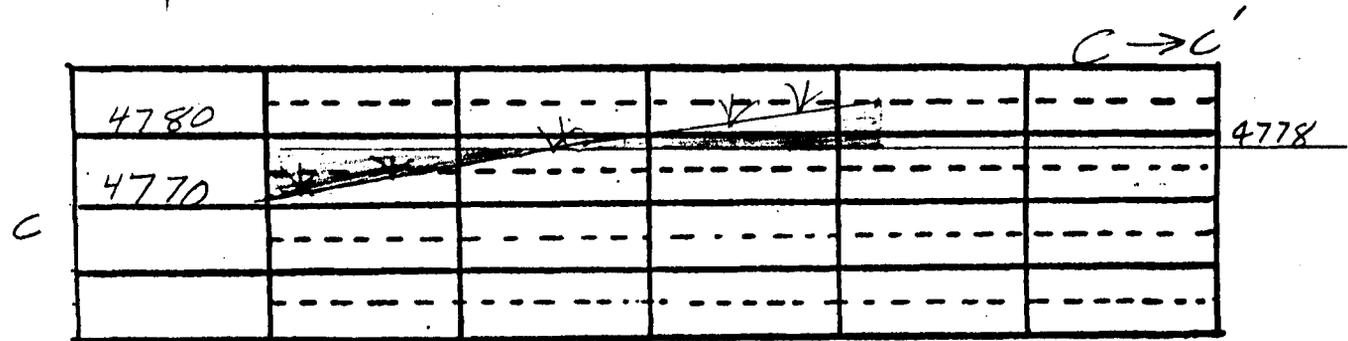
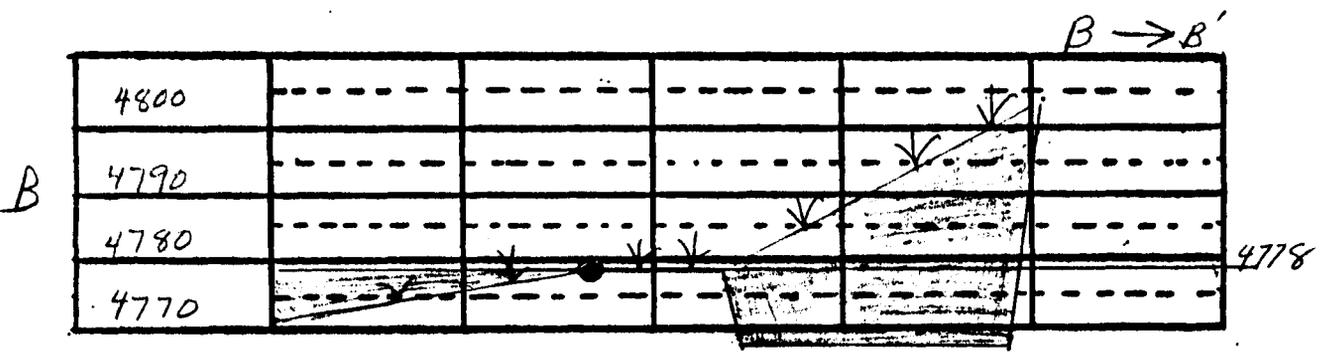
**COUNTY**

October 10, 1989

**DATE**



HORIZ 1" = 60'  
 VERT 1" = 30'



BEFORE THE OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF UTAH

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IN THE MATTER OF THE APPLICATION OF THE TEXAS COMPANY, THE CARTER OIL COMPANY AND CONTINENTAL OIL COMPANY FOR AN ORDER ESTABLISHING 80-ACRE DRILLING UNITS FOR THE ANETH POOL, SAN JUAN COUNTY, UTAH, WITH REFERENCE TO THE KNOWN PRODUCING ZONES OF THE HERMOSA FORMATION (CAUSE NO. 8)	:	CAUSE NO. 17 (CONSOLIDATED CAUSES NOS. 8 AND 11)
AND	:	
IN THE MATTER OF THE APPLICATION OF CONTINENTAL OIL COMPANY FOR AN ORDER ESTABLISHING 80-ACRE DRILLING AND SPACING UNITS FOR THE UPPER PARADOX SECTIONS OF THE HERMOSA FORMATION, DESERT CREEK AREA, SAN JUAN COUNTY, UTAH (CAUSE NO. 11)	:	<u>FINDINGS OF FACT,</u> <u>CONCLUSIONS OF LAW</u> <u>AND ORDER</u>

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The above captioned Cause No. 17 is before the Oil and Gas Conservation Commission of the State of Utah as a consolidation of Causes Nos. 8 and 11, such consolidation having been effected on February 2, 1959, by order of this Commission. Each of said Causes Nos. 8 and 11 arose out of an application for an order establishing 80-acre drilling and spacing units for an area defined in the particular application. Since the initiation of said proceedings, the Commission has, pursuant to several requests, permitted several additions to the areas covered by said applications as originally filed, with the result that this consolidated Cause now involves those lands hereinbelow particularly described. Hearings were held in Cause No. 8 and in Cause No. 11 prior to their consolidation, and further hearings have been held in this Cause No. 17 since such consolidation. During the extensive course of the proceedings numerous witnesses testified and many exhibits were introduced both in support of and in opposition to the applications. On January 30, 1960, upon the conclusion of the hearings in this consolidated Cause, the matter was submitted to the full Commission for decision.

NOW, THEREFORE, after due and careful consideration, this Commission makes the following Findings of Fact and Conclusions of Law:

FINDINGS OF FACT

1. The area involved in this consolidated Cause, and which is hereinafter for convenience referred to as the "Greater Aneth Area," lies within San Juan County and is described as follows:

✓ X. 40 S., R. 23 E., S1E4

Section 1: All  
Section 2: E $\frac{1}{2}$   
Section 11: E $\frac{1}{2}$ , SW $\frac{1}{4}$   
Sections 12, 13, 14, 23 through 26,  
34, 35, 36: All

✓ T. 40 S., R. 24 E., S1E4

Sections 7 through 11,  
13 through 36: All 13-35

✓ T. 40 S., R. 25 E., S1E4

Section 16: E $\frac{1}{2}$   
Section 17: E $\frac{1}{2}$   
Section 18: E $\frac{1}{2}$   
Sections 19, 20, 21: All  
Section 22: E $\frac{1}{2}$ , NW $\frac{1}{4}$   
Sections 27 through 34: All

✓ T. 41 S., R. 23 E., S1E4

Sections 1, 2, 3, 10 through 15,  
22, 23, 24: All  
Section 25: E $\frac{1}{2}$   
Section 35: E $\frac{1}{2}$   
Section 36: All

✓ T. 41 S., R. 24 E., S1E4

Sections 1 through 24: All  
Section 25: NW $\frac{1}{4}$   
Sections 26 through 35: All

✓ T. 41 S., R. 25 E., S1E4

Section 3: NW $\frac{1}{4}$   
Sections 4 through 9: All  
Section 10: NW $\frac{1}{4}$   
Sections 16 through 20: All

✓ T. 42 S., R. 23 E., S1E4

Section 1: All  
Section 2: E $\frac{1}{2}$   
Section 11: E $\frac{1}{2}$   
Section 12: All

✓ E. 42 S., R. 24 E., S1E4

Sections 2 through 10: All

2. The Desert Creek (Aneth) formation is continuous over the Greater Aneth Area and constitutes a common source of supply. It is

found at a depth of approximately 5600 feet below the surface of the ground and varies in thickness from 100 feet to 220 feet. The formation consists essentially of carbonate material with minor amounts of other constituents. The reservoir is what is known as a "stratigraphic trap."

3. The properties of the reservoir rock, in regard to permeability and porosity distribution, indicate a degree of heterogeneity that is common in limestone reservoirs.

4. The original reservoir pressure at a datum of 900 feet subsea was approximately 2200 pounds per square inch.

5. The producing mechanism from the original reservoir pressure down to the saturation pressure or bubble point pressure is "fluid expansion." The producing mechanism below the saturation pressure or bubble point pressure is the release of gas originally in solution in the oil or so-called "solution gas drive." The predominant producing mechanism is "solution gas drive."

6. Reduced formation pressures which have been found upon the completion of new wells show that drainage of oil and gas had occurred from under the locations of the newly drilled wells by reason of production from earlier drilled wells.

7. With the drilling of the field on an 80-acre pattern there is and will be efficient horizontal communication. In some areas of the field there is also efficient vertical communication through interfingering of reservoir layers aided by fractures, while in other areas vertical communication between layers depends to a substantial extent upon connection provided by the well bore.

8. In the five special test wells drilled by Shell Oil Company and the well layer tested by Humble Oil and Refining Company, pressure depletion from original reservoir pressure had occurred in each of the lenses and layers tested. The pressure depletion conditions found at the location of each such well were normal for a heterogeneous reservoir of this type.

9. The various layers or lenses containing oil and gas are of sufficient size that wells drilled with a density of one well to each 80 acres will, with insignificant exceptions, pierce the various layers and

provide efficient and adequate intercommunication for all parts of the reservoir.

10. While there are varying permeabilities within the pay sections throughout the field, any so-called barriers of low permeability are not continuous and do not completely surround or isolate oil and gas or create islands but, to the contrary, the pressure history of this field along with the gas/oil ratio behavior in relationship to the total cumulative production demonstrates that the field is being efficiently and economically drained by one well to each 80-acre tract.

11. Pressure differentials exist in the reservoir. These differentials are normal, are to be expected and constitute a condition necessary to the flow of oil through the reservoir into producing wells. The variation in magnitude of the pressure differentials existing within the reservoir is attributed to differences in rate of production, cumulative production, permeability, pay thickness, porosity and water saturation and differences in shut-in times prior to measurement of pressures.

12. One well to each 80 acres will efficiently and economically drain the reservoir as found in and underlying the Greater Aneth Area.

13. Eighty-acre spacing and drilling units for the Greater Aneth Area should be established in order to prevent waste, to avoid the drilling of unnecessary wells and to protect the correlative rights of interested parties. No more than one well should be drilled on any such unit for the production of oil or gas from the Desert Creek (Aneth) formation.

14. Except for the "Specially Designated Drilling Units" hereinafter specified, the drilling and spacing units for the Greater Aneth Area should be formed by dividing each governmental quarter section into two such units to consist respectively of the east half of such quarter section and the west half of such quarter section. Each specially designated drilling unit consisting of an 80-acre tract as specifically described below should constitute a drilling and spacing unit and represents a departure from the general spacing unit pattern as set forth in the preceding sentence.

SPECIALLY DESIGNATED DRILLING UNITS

<u>80-ACRE TRACT</u>	<u>SECTION</u>	<u>TOWNSHIP</u>	<u>RANGE</u>
NW $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$	16	40 South	24 East

<u>80-ACRE TRACT</u>	<u>SECTION</u>	<u>TOWNSHIP</u>	<u>RANGE</u>
SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$	16	40 South	24 East
NW $\frac{1}{4}$ SE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$	16	40 South	24 East
E $\frac{1}{2}$ SE $\frac{1}{4}$	16	40 South	24 East
E $\frac{1}{2}$ SW $\frac{1}{4}$	16	40 South	24 East
SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$	16	40 South	24 East
NW $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$	16	40 South	24 East
NE $\frac{1}{4}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$	13	41 South	23 East
SE $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SE $\frac{1}{4}$	13	41 South	23 East
NW $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$	13	41 South	23 East
NW $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$	13	41 South	23 East
SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$	13	41 South	23 East
NW $\frac{1}{4}$ SE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$	13	41 South	23 East
E $\frac{1}{2}$ SE $\frac{1}{4}$	13	41 South	23 East
E $\frac{1}{2}$ SW $\frac{1}{4}$	13	41 South	23 East
N $\frac{1}{2}$ SW $\frac{1}{4}$	11	41 South	24 East
E $\frac{1}{2}$ SW $\frac{1}{4}$	11	41 South	24 East
N $\frac{1}{2}$ SE $\frac{1}{4}$	11	41 South	24 East
E $\frac{1}{2}$ SE $\frac{1}{4}$	11	41 South	24 East
NE $\frac{1}{4}$ NE $\frac{1}{4}$ )	11)	41 South	24 East
NW $\frac{1}{4}$ NW $\frac{1}{4}$ )	12)		
SE $\frac{1}{4}$ NE $\frac{1}{4}$ )	11)	41 South	24 East
SW $\frac{1}{4}$ NW $\frac{1}{4}$ )	12)		
N $\frac{1}{2}$ NE $\frac{1}{4}$	12	41 South	24 East
E $\frac{1}{2}$ NE $\frac{1}{4}$	12	41 South	24 East
N $\frac{1}{2}$ SW $\frac{1}{4}$	18	41 South	24 East
E $\frac{1}{2}$ SW $\frac{1}{4}$	18	41 South	24 East

15. Except as may be hereafter ordered by the Commission, after notice and hearing, and as hereinafter provided, in that portion of the Greater Aneth Area lying north of the San Juan River the permitted well for a spacing unit should be located in either the northwest quarter of a governmental quarter section or in the southeast quarter of a governmental quarter section and should be not less than 500 feet from any property or lease line or governmental quarter-quarter section line. Except as

hereinafter provided, in that portion of the Greater Aneth Area lying south of the San Juan River the permitted well for a spacing unit should be located in either the northeast quarter of a governmental quarter section or in the southwest quarter of a governmental quarter section and should be not less than 500 feet from any property or lease line or governmental quarter-quarter section line. An exception should be recognized for any well which has heretofore been drilled or which is now being drilled to the Desert Creek (Aneth) formation and which is not located in accordance with the general well location pattern above defined and such heretofore drilled or now being drilled well shall be the permitted well for the drilling and spacing unit upon which it is located, provided expressly that no one of the five test wells drilled by Shell Oil Company under this Commission's order of February 24, 1959 in this Cause shall constitute the permitted well for the drilling unit upon which such well was drilled unless, after notice and hearing, specifically ordered by this Commission pursuant to said Order of February 24, 1959, or otherwise; and provided further that the water injection well drilled by Phillips Petroleum Company under this Commission's order of August-5, 1959 in Cause No. 23 shall not constitute the permitted well for the drilling unit upon which such well was drilled unless, after notice and hearing, specifically so ordered by the Commission.

16. Wherever reference is made herein to a "governmental quarter-quarter section" or to any subdivision thereof or to a "governmental quarter-quarter section" or to any specific description by subdivision, section, township and range, such reference is intended, in the case of surveyed lands, to refer to the indicated quarter section or other legal subdivision as determined by the government survey and is intended, in the case of unsurveyed lands or of partially surveyed lands, to refer to the indicated quarter section or other legal subdivision as determined by and through projection or protraction from existing township surveys and/or existing township boundary line surveys.

#### CONCLUSIONS OF LAW

1. The Commission has jurisdiction over the subject matter of this Cause and over the lessors and operators in the area involved. Notice

of the respective hearings and respective other proceedings in this consolidated Cause, and in Causes Nos. 8 and 11 prior to the consolidation thereof, was in each instance given in all respects as required by law.

2. The Desert Creek (Aneth) formation is continuous over the Greater Aneth Area, as such area is defined in Finding 1 of the foregoing Findings, and constitutes a common pool or source of supply.

3. One well to each 80 acres will efficiently and economically drain the said pool or common source of supply as found in and underlying the Greater Aneth Area.

4. The establishment of 80-acre spacing and drilling units for the Greater Aneth Area is necessary to prevent waste, to avoid the drilling of unnecessary wells and to protect the correlative rights of interested parties.

5. The shape and pattern of the spacing units for the Greater Aneth Area should be as set forth and defined in Finding 14 of the foregoing Findings.

6. No more than one well should be drilled on any such spacing or drilling unit for the production of oil or gas from the Desert Creek (Aneth) formation.

7. The locations or patterns of the permitted wells should be as set forth in Finding 15 of the foregoing Findings.

8. The here-involved applications for the issuance by this Commission of an Order establishing 80-acre spacing should be granted.

#### ORDER

IT IS THEREFORE ORDERED by the Commission as follows:

1. That 80-acre drilling and spacing units be and the same are hereby established for the production of oil and gas from the Desert Creek (Aneth) formation underlying the Greater Aneth Area;

2. That the shape and pattern of such drilling and spacing units shall be as set forth and defined in Finding 14 of the foregoing Findings;

3. That no more than one well shall be drilled on any such unit for the production of oil or gas from the Desert Creek (Aneth) formation;

4. That the location of the permitted well for each such unit shall be as set forth and defined in Finding 13 of the foregoing Findings, provided, however, that an exception in respect to the location of a permitted well may be had without notice or hearing upon the filing with the Commission of an application showing that the proposed exception location is within the quarter-quarter section specified hereunder as the situs for the permitted well; that topographic conditions exist which reasonably require a well location nearer than 500 feet to one or more boundaries of said quarter-quarter section; and either that the ownership of all oil and gas leases within a radius of 660 feet of the proposed exception location is common with the ownership of the oil and gas leases upon the proposed exception location or that all owners of oil and gas leases within such radius have consented in writing to the proposed exception location.

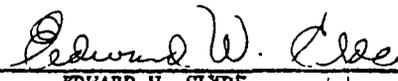
3. That nothing in the foregoing Findings of Fact or Conclusions of Law or in this Order is intended or shall be construed in any manner to determine or affect any question relating to the boundaries of any lease or the title to any lands or to determine the rights of any party in respect to any voluntary or involuntary pooling of interests within any hereby established spacing or drilling unit.

5. That this Order shall be effective forthwith; and

7. The Commission retains continuing jurisdiction of all matters covered by this Order.

DATED this 24th day of February, 1960.

By Order of  
THE OIL AND GAS CONSERVATION COMMISSION  
OF THE STATE OF UTAH

  
EDWARD W. CLYDE,  
Commissioner Presiding

APPROVED:

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



# CHUSKA ENERGY COMPANY

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

**RECEIVED**  
NOV 08 1989

DIVISION OF  
OIL, GAS & MINING

November 6, 1989

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84111-2303

RE: application for Permit to Drill Sahgzie South No. 1 well.

Gentlemen:

This letter is to advise you that an error has been made in reporting the location of this well on our Application for Permit to Drill previously submitted to you.

We submitted the location as:

2340' FNL and 1110' FWL.

It should have been:

2430' FNL and 1110' FWL.

We will appreciate it if you will change your records, and apologize for any inconvenience this may cause you.

Sincerely,

  
DONALD S. BARNES  
DSB:bnp

File:DSB\UTCORAP

H2 S 24E SEC.5  
H3-037-31472



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

# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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

November 9, 1989

Chuska Energy Company  
315 North Behrend  
Farmington, New Mexico 87401

Gentlemen:

Re: Sahgzie South #1 - SW NW Sec. 5, T. 42S, R. 24E - San Juan County, Utah  
2430' FNL, 1110' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of 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 John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, 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.
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.

Page 2  
Chuska Energy Company  
Sahgzie South #1  
November 9, 1989

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 43-037-31478.

Sincerely,



R. J. Birt  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
D. R. Nielson  
J. L. Thompson  
WE14/1-2  
cc: BUREAU OF INDIAN AFFAIRS



# CHUSKA ENERGY COMPANY

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

RECEIVED

DEC 6 1989

WATER RIGHTS  
PRICE

December 5, 1989

State of Utah  
Water Rights Division  
P.O. Box 718  
Price, Utah 84501-0718  
Attention: Mr. Mark Page

RE: Water Use Permit for the Drilling of the Anasazi No. 1.

Dear Sir:

As we discussed in our telephone conversation on December 5, Chuska Energy Company proposes to drill the Anasazi Well No. 1 (previously named Sahgzie South #1) with operations scheduled to begin next week (12/11/89), or as early as possible depending on your approval of this application for drilling water.

Chuska proposes to haul water via Hay Hot Oil Service from their artesian well. This water well is located at 1050' FNL and 1575' FWL, in section 27, T40S, R23E, San Juan County, Utah. The well is permitted to Hay Hot Oil Service, Permit #09-1419 (A60809).

Our proposed drilling site, the Anasazi #1, is located at 2430' FNL and 1110' FWL, in section 5, T42S, R24E, San Juan County Utah. I have attached a copy of our staking platte.

We apologize for sending this permit request out late and will make every attempt to be more timely in the future. We will very much appreciate your prompt consideration of our application, and request your verbal approval if at all possible. Please advise if you require more information. You may contact me at Chuska Energy, (505) 326-5525.

Thank you for your assistance in this matter.

Sincerely,

Robert R. Griffiee  
Operations Engineer

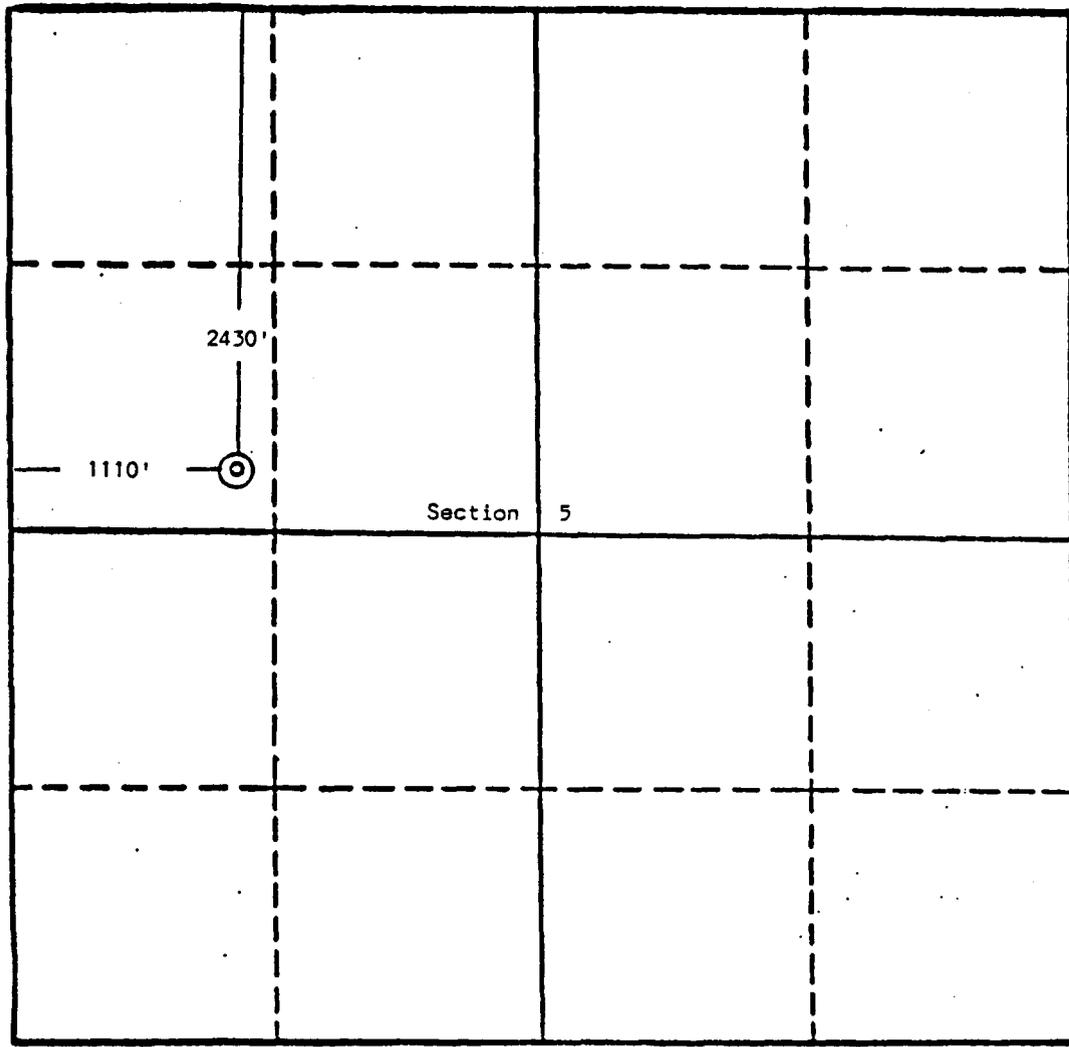
Company Chuska Energy Company

Well Name & No. Sahzie / South #1 changed to Anasazi #1

Location 2430' F/NL 1110' F/WL

Sec. 5, T. 42 S., R. 24 E., S. L. M., County San Juan, Utah

Ground Elevation 4778



Scale, 1 inch = 1,000 feet

Surveyed October 10, 1989

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:



Edgar L. Risenhoover  
 Edgar L. Risenhoover,  
 Registered Land Surveyor  
 New Mexico Reg. No. 5979

Non-resident certification as  
 authorized by Utah State Law  
 58-22-21(b)

4762

F16° 100'

100'

F5°

100'

F1°

4777

A

Chuska Energy Company

OPERATOR

Changed to Anasazi #1 Sahgzie (A) South

WELL NAME & NO.

2430' F/NL 1110' F/WL

FOOTAGES

5 42S 24E

SEC. TWP. RGE.

San Juan, Utah

COUNTY

October 10, 1989

DATE

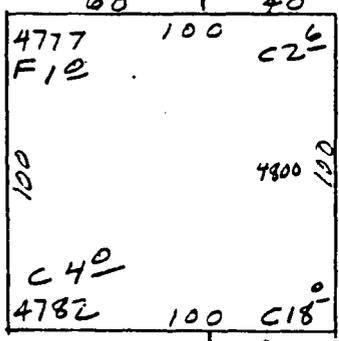


GROUND LEVEL 4778

150

150

LAYDOWN 150' 5 19°W



B

4771 F7°

300

C

4771 F7°

100

4779 C1°

100

C7°

4785

A → A'

A

4770					4778
4760					

HORIZ 1"=60'  
VERT 1"=30'

B

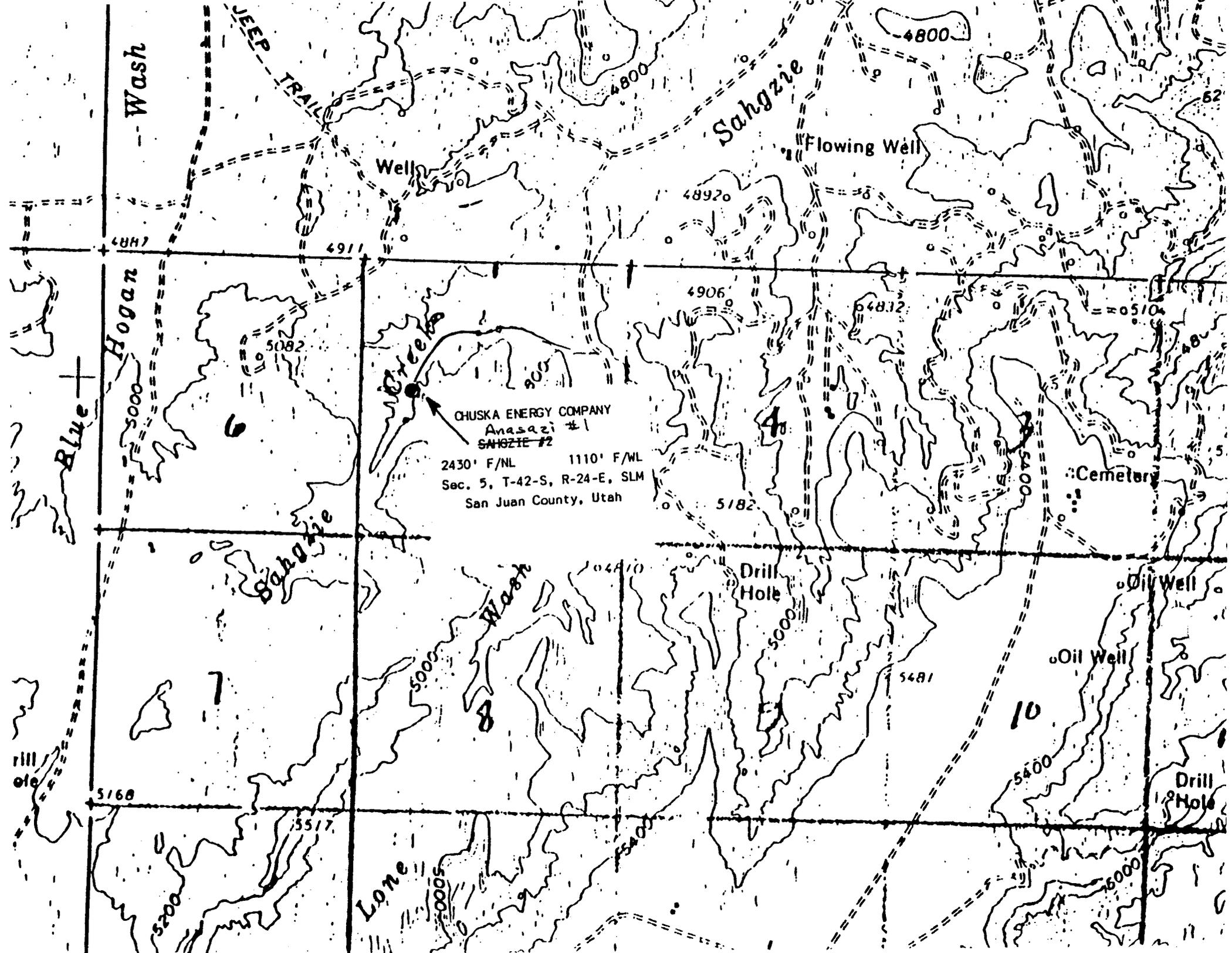
B → B'

4800					
4790					
4780					
4770					4778

C

C → C'

4780					
4770					4778





# CHUSKA ENERGY COMPANY

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

December 5, 1989

RECEIVED  
DEC 08 1989

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
Attention: Lisha Romero

RE: Sundry Notice and Report on well, to change the name of the  
Sahgzie South #1 to the Anasazi #1.

Dear Ms Romero;

As we discussed in our telephone conversation on December 5,  
1989, Chuska Energy Company desires to make the above name change  
for our proposed location in San Juan County, Utah. Attached is  
the State Sundry Notice. If you require more information or have  
questions, please advise.

Sincerely,

Robert R. Griffiee  
Operations Engineer

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.

NOC-8702-1116

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Navajo Tribal

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.)

7. UNIT AGREEMENT NAME

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

8. FARM OR LEASE NAME

Sahgie South

3. ADDRESS OF OPERATOR

315 N. Behrend, Farmington, N.M. 87401

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface

2430' FNL x 1110' FWL

10. FIELD AND POOL, OR WILDCAT

Greater Aneth Pool

At proposed prod. zone

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

14. API NO.

4303731478

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

4778GR

12. COUNTY

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

Change name

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON

CHANGE PLANS

APPROX. DATE WORK WILL START \_\_\_\_\_

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

DATE OF COMPLETION \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

✓ Name Change From:

Sahgie South #1  
2430' FNL x 1110' FWL  
Sec. 5, T42S, R24E  
San Juan County, Utah

TO:

Anasazi #1  
2430' FNL x 1110' FWL  
Sec. 5, T42S, R24E  
San Juan County, Utah

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

SIGNED

*Donald S. Barnes*  
DONALD S. BARNES

TITLE

Operations Manager

DATE

12-5-89

(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  
NATURAL RESOURCES  
Water Rights

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

WATER RIGHT NUMBER:  
A60809/09-1419

December 8, 1989

DEC 11 1989

Chuska Energy  
Attn: Robert R. Griffiee, Operations Manager  
315 North Behrend  
Farmington, New Mexico 87401

Re: Anasazie #1 Well

Dear Mr. Griffiee:

This letter will serve as authorization from this office to proceed with the drilling of the above referenced well. I have received the necessary paper work from you, and Hay Hot Oil Inc. concerning the water for the job.

If you have any questions concerning the water right for this project, please feel free to contact me.

Sincerely,

Mark P. Page  
Area Engineer

cc: Division of Oil, Gas & Mining  
Attn: Lisha Romero  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Enclosures  
MPP/mjk

HAY HOT OIL, INC.

P.O. Box 9 Montezuma Creek, Utah 84534  
Ph. 801/651-3469 --- C. W. ROACH

RECEIVED

DEC 8 1989

WATER RIGHTS  
PRICE

12-6-89

State of Utah  
Division of Water Rights  
453 South Carbon Ave.  
P.O. Box 718  
Price, Utah 84501

RECEIVED  
DEC 11 1989

DIVISION OF  
OIL, GAS & MINING

Attention: Mark Page

RE: Anasazie # 1 (Chuska Energy Co.)

Dear Mr. Page:

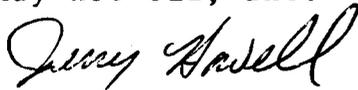
Hay Hot Oil, Inc. will be hauling water for drilling of the Anasazie # 1 well by Chuska Energy Co.

The estimated amount of water to be used will be .9 to 1.2 acre feet.

The water will be diverted by tank truck from the source as described on application No. 09-1419.

Thank You,

Hay Hot Oil, Inc.



Jerry Howell  
General Manager

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31478

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY COMPANY

WELL NAME: ANASAZI #1

SECTION SWNW 5 TOWNSHIP 42S RANGE 24E COUNTY SAN JUAN

DRILLING CONTRACTOR FOUR CORNERS

RIG # 3

SPUDDED: DATE 12/12/89

TIME 5:00 p.m.

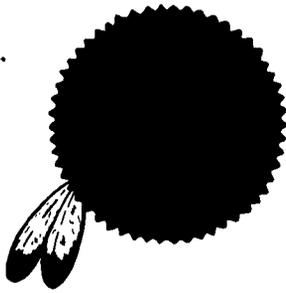
HOW ROTARY

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

REPORTED BY ROBERT GRIFFEE

TELEPHONE # (505) 326-5525

DATE 12/12/89 SIGNED TAS TAKEN BY: MKS



# CHUSKA ENERGY COMPANY

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

December 13, 1989

**RECEIVED**  
DEC 15 1989

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Building, Suite 315  
Salt Lake City, Utah 84180-1203

RE: Sundry Notice to notify of intent to spud the Anasazi #1  
Sundry Notice spud of Anasazi #1  
Entity Action Form, Anasazi #1

Gentlemen:

Please find original and six copies each of the above-referenced items.

Very truly yours,

DONALD S. BARNES  
Operations Manager

DSB:bnp  
Enclosures  
File:DSB\STSPAN1

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. LEASE DESIGNATION & SERIAL NO. NOC - 8702 - 1116

2. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo Tribal

3. UNIT AGREEMENT NAME \_\_\_\_\_

4. FARM OR LEASE NAME Anasazi

5. WELL NO. #1

6. NAME OF OPERATOR Chuska Energy Company

7. ADDRESS OF OPERATOR 315 N. Behrend, Farmington, New Mexico 87401

8. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface 2430' FNL, 1110' FWL  
At proposed prod. cone \_\_\_\_\_

9. FIELD AND POOL, OR WILDCAT Wildcat

10. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T42S, R24E

11. API NO. 43-037-31478

12. ELEVATIONS (Show whether DF, RT, GR, etc.) 5648'

13. COUNTY San Juan

14. STATE Utah

**RECEIVED**  
DEC 15 1989  
DIVISION OF OIL GAS & MINING

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <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) _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
(Other) <u>Intent to Spud</u>	<input checked="" type="checkbox"/>	DATE OF COMPLETION _____	
APPROX. DATE WORK WILL START <u>12-12-89</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.

Notify BLM of anticipated spud @ 16:30 hours 12-12-89. Donald S. Barnes to BLM's office.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
<u>I-TAS</u>	
MICROFILM	
<u>2.</u>	FILE

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

SIGNED Donald S. Barnes TITLE Operations Manager DATE 12-13-89

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.

NOG - 8702 - 1116

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Anasazi

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

**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  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

315 N. Behrend, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface 2340' FNL, 1110' FWL  
At proposed prod. zone

DIVISION OF  
OIL, GAS & MINING

12. COUNTY

San Juan

13. STATE

Utah

14. API NO.

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

5648'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Spud

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

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

Spud at 1715 hours 12-12-89. 12 1/4" hole. Donald S. Barnes to Bill Blackard.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
I-TAS	
MICROFILM	
2 - FILE	

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

SIGNED

*Donald S. Barnes*  
DONALD S. BARNES

TITLE Operations Manager

DATE 12-13-89

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

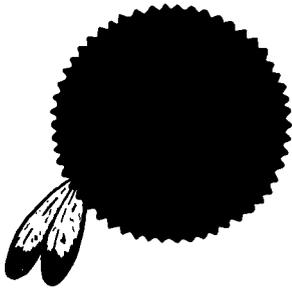
TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side





# CHUSKA ENERGY COMPANY

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

December 22, 1989

RECEIVED  
DEC 26 1989

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Sundry Notice for intent to change plan, Anasazi #1

Gentlemen:

Enclosed you will find original and six copies of the above-mentioned Sundry Notice for approval to change total depth to 5850' from 5648'.

Very truly yours,

*Donald S. Barnes*  
DONALD S. BARNES  
DSB:bnp

Enclosures  
File:DSB\SUNNOAN1

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.)

NOV 26 1989

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		3. LEASE DESIGNATION & SERIAL NO. NOG - 8702 - 1116	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo Tribal	
3. ADDRESS OF OPERATOR 315 North Behrend, 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.) At surface 2340' FNL, 1110' FWL At proposed prod. zone		8. FARM OR LEASE NAME Anasazi	
14. API NO. 43-037-31478		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5648'		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T42S, R24E	
		12. COUNTY San Juan	13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <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) _____	
(Other) <u>Change Plans</u>	<input checked="" 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 _____	

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.

INTENT TO CHANGE PLANS:

Request approval to change total depth to 5850'. Initial APD had total depth of 5648'. Per conversation with John Baza and Tom McCarthy.

OIL AND GAS	
DPN	RJF
1-JRB ✓	GLH
DTS	SLS
2-TAS	
3- MICROFILM ✓	
4- FILE DATE 12-21-89	

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

SIGNED Donald S. Barnes TITLE Operations Manager

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE ACCEPTED BY THE STATE

CONDITIONS OF APPROVAL, IF ANY:

(3/89) Federal approval of this activity is required before commencing operations.

See Instructions On Reverse Side

DATE: 1-9-90  
BY: John R. Baza



# CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401

PHONE (505) 326-5525

RECEIVED  
DEC 29 1989

DIVISION OF  
OIL, GAS & MINING

December 18, 1989

Division of Oil, Gas & Mining  
State of Utah  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Sundry Notice and Report on Anasazi #1 - Operations

Gentlemen:

Enclosed you will find original and six copies of the above-mentioned report.

Very truly yours,

DONALD S. BARNES  
DSB:bnp

Enclosures  
File:DSB\STSUNAN1

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		<p>3. LEASE DESIGNATION &amp; SERIAL NO. NOG - 8702 - 1116</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo Tribal</p>
<p>2. NAME OF OPERATOR Chuska Energy Company</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR 315 N. Behrend, Farmington, New Mexico 87401</p>		<p>8. FARM OR LEASE NAME Anasazi</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2430' FNL, 1110' FWL At proposed prod. zone</p>		<p>9. WELL NO. DEC 27 1989</p>
<p>14. API NO. 43-037-31478</p>		<p>10. FIELD AND POOL, OR WILDCAT Aneth Pool</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T42S, R24E</p>
<p>12. COUNTY San Juan</p>		<p>13. STATE Utah</p>

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 COMPLETE <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) Operations <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 _____	

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.

12-13-89 to 12-18-89

12-13-89 Drill 12 1/4" hole to 499' KB

12-14-89 Ran 11 Jts. 8 5/8" OD 24# K-55 St&c. Set @ 498' cement w/360 sx. Class B w/2% CaCl. Circulated cement to surface -- PD. 10:25 A.M. 12-13-89. WOC total 15 1/2 hours - NU well head - BOP and related equipment PT to 1500 psi - 1/4 hr. O.K. Drill cement and shoe joint. Reduce hole to 7 7/8" @ 498'.

12-15-89 Drill and survey to 1520'

12-16-89 Drill and survey to 2665'

12-17-89 Drill and survey to 3500'

12-18-89 Drill and survey to 4080'

OIL AND GAS	
DBM	SLH
JRB	SLH
DT	SLS
1-TAS	
2- MICROFILM 12-18-89	
3- FILE	

*July*

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

SIGNED Donald S. Barnes TITLE Operations Manager

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.

NOG - 8702 - 1116

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug a well. Use "APPLICATION FOR PERMIT—" for such proposals.)

**RECEIVED**  
JAN 03 1990

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal  
UNIT AGREEMENT NAME

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

DIVISION OF  
OIL, GAS & MINING

8. FARM OR LEASE NAME

Anasazi

3. ADDRESS OF OPERATOR

315 N. Behrend, Farmington, New Mexico 87401

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

10. FIELD AND POOL, OR WILDCAT

Aneth Pool

At surface 2430' FNL, 1110' FWL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

At proposed prod. zone

14. API NO.

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

12. COUNTY

San Juan

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Operations

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

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

(2)

12-25-89 Finish trip out of hole with Core #2 (5641'-5701'). Laid down core and sent to Core Lab in Denver, Colorado. Cored 60' recovered 58'. Laid down core barrel and trip in hole with bit #7 to drill rat hole. Drilled to 5780' 10' into the Akah salt. Circulate and condition hole for logs. Trip out of hole, SLM, no correction of depth. Rig up and running open hole logs.

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

SIGNED

*Donald S. Barnes*  
DONALD S. BARNES  
(This space for Federal or State office use)

TITLE Operations Manager

DATE 12-27-89

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side



# CHUSKA ENERGY COMPANY

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

**RECEIVED**  
JAN 03 1990

December 27, 1989

**DIVISION OF  
OIL, GAS & MINING**

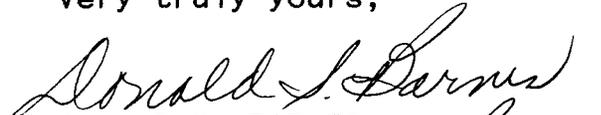
Division of Oil, Gas & Mining  
State of Utah  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Sundry on Completion, Anasazi #1

Gentlemen:

Enclosed please find original and six copies of the above-referenced Sundry Notice.

Very truly yours,

  
DONALD S. BARNES  
Operations Manager 

DSB:bnp  
Enclosures  
File:DSB\SUCOMAN1

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

1. LEASE DESIGNATION & SERIAL NO.

NOC- 8702 - 1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

UNIT AGREEMENT NAME

FARM OR LEASE NAME

Anasazi

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Aneth Pool

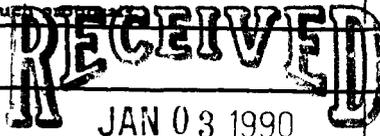
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

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 new wells.



1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

315 N. Behrend, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface 2430' FNL, 1110' FWL

At proposed prod. zone

DIVISION OF  
OIL, GAS & MINING

14. API NO.

43-007-31478

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

12. COUNTY

San Juan

11. STATE

Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF  REPAIRING WELL   
 FRACTURE TREATMENT  ALTERING CASING   
 SHOOTING OR ACIDIZING  ABANDONMENT\*   
 (Other) Operations   
 (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

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

12-19-89 thru 12-26-89:

\* Must be accompanied by a cement verification report.

12-19-89 Drill and survey to 4450' with bit #3  
 12-20-89 Drill and survey to 4940' with bit #3  
 12-21-89 Drill and survey to 5365', with bit #3, 45 WOB, 70 RPM  
 12-22-89 Drill and survey to 5521', with bit #3, 45 WOB, 70 RPM. Trip for bit #4 SLM  
 12-23-89 Drilled to 5582', circulate & condition hole for Core #1. Trip out of hole, SLM, no correction. Pitch up 6.25 x 4 x 75' core barrel. TIH, ream 150' to bottom, started coring.  
 12-24-89 Trip in hole with core barrel and Core #2 (5641' to 5701'). Cut 60' of core, trip out of hole with core barrel. Daily costs do not include coring cost. Core head #1 had some damage on the outer row, estimated wear @30%. Plans are to drill mouse hole to T.D. @ estimated 5850', run open hole logs, and run production casing.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
L-TAS	

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

SIGNED

*Ronald S. Barnes*  
RONALD S. BARNES

TITLE Operations Manager

DATE 12-27-89

2. MICROFILM (For Federal or State office use)

3. APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

ENTITY ACTION FORM - FORM 6

OPERATOR Chuska Energy Company

OPERATOR ACCT. NO. N9290

ADDRESS 315 North Behrend

Farmington, New Mexico 87401

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIV DATE
					QQ	SC	TP	RG	COUNTY		
		11042	43-037-31478	Anasazi #1		5	42S	24E	San Juan	12-12-89	

WELL 1 COMMENTS: Chuska Energy Company reports first oil produced at 1500 hours 01-08-90. Oil will be sold to Giant Refining Company, 23733 North Scottsdale Road, Scottsdale, Arizona 85255.

WELL 2 COMMENTS:

*\* Reporting first production only. Well completion being sent ASAP. 1-18-90 for*

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 16 1990

*Donald S. Barnes*  
Signature DONALD S. BARNES

Operations Manager 1-11-90  
Title Date

Phone No. ( 505 ) 326-5525



# CHUSKA ENERGY COMPANY

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

December 29, 1989

**RECEIVED**  
JAN 03 1990

Division of Oil, Gas & Mining  
State of Utah  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

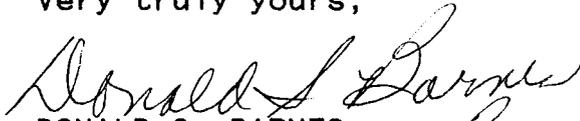
DIVISION OF  
OIL, GAS & MINING

RE: Sundry Notice and Report on Well, Anasazi #1, Rig Release.

Gentlemen:

Enclosed you will find original and six copies of the above-referenced Sundry Notice.

Very truly yours,

  
DONALD S. BARNES  
Operations Manager *bnp*

DSB:bnp  
Enclosures  
File:DSB\RIGREAN1

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.

NOG-8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Anasazi

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Aneth Pool

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

SUNDRY NOTICES AND REPORTS

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

RECEIVED  
JAN 03 1990  
DIVISION OF OIL, GAS & MINING

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

315 North Behrend, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface 2430' FNL, 1110' FWL  
At proposed prod. zone

14. API NO.

43-037-31478

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

5780

12. COUNTY

San Juan

11. STATE

Utah

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other) Report of weekly activities   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*   
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START \_\_\_\_\_

DATE OF COMPLETION \_\_\_\_\_

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

12-27-89 Laying down drill pipe. Depth 5780  
12-28-89 Rig Released @ 8:00 a.m.

\* Must be accompanied by a cement verification report.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2 - MICROFILM	
3 - FILE	

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

SIGNED Donald S. Barnes  
DONALD S. BARNES

TITLE Operations Manager

DATE 12-29-89

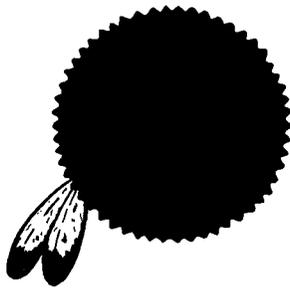
(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

See Instructions On Reverse Side



# CHUSKA ENERGY COMPANY

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

January 9, 1990

Division of Oil, Gas & Mining  
State of Utah  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

**RECEIVED**  
JAN 12 1990

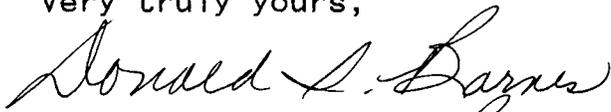
DIVISION OF  
OIL, GAS & MINING

RE: Sundry Notice, Anasazi #1, W. O. Completion Unit.

Gentlemen:

Enclosed you will find original and six copies of the above-referenced Sundry Notice.

Very truly yours,

  
DONALD S. BARNES  
Operations Manager *DSB*

DSB:bnp  
Enclosures  
File:DSB\SUNANWO

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.

NOG 8702-1116

6. IF INDIAN ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Anasazi

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Anoth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 5, T42S, R24E

12. COUNTY

San Juan

13. STATE

Utah

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  GAS WELL  OTHER

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

315 North Behrend, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface

2340' FNL & 1110' FWL

At proposed prod. zone

14. API NO.

43-037-31478

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

5780'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Report Weekly Activities

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

APPROX. DATE WORK WILL START

DATE OF COMPLETION

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

\* Must be accompanied by a cement verification report.

12-19-89 to 01-05-90

W.O. Completion Unit

OIL AND GAS	
DRN	F
JRB	GL
DTC	SL
1-TAS	
MICROFILM	
2-	FILE

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

SIGNED

*Donald S. Barnes*  
DONALD S. BARNES

TITLE

Operations Manager

DATE

1-8-89

(This space for Federal or State office use)

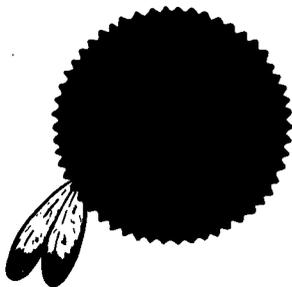
APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side



# CHUSKA ENERGY COMPANY

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

January 11, 1990

State of Utah  
Division of Oil, Gas, and Mining  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RECEIVED  
JAN 16 1990

DIVISION OF  
OIL, GAS & MINING

Re: Sundry Notice, Anasazi #1, Report of First Sale of Oil

Gentlemen:

Enclosed you will find original and six copies of the above-referenced Sundry Notice.

Very truly yours,

DONALD S. BARNES  
Operations Manager

DSB:bnp  
Enclosures  
File:DSB\1SAOILAN

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		<p>3. LEASE DESIGNATION &amp; SERIAL NO. <u>NOC 8702-1116</u></p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN ALLOTTEE OR TRIBE NAME <u>Navajo Tribal</u></p>
<p>2. NAME OF OPERATOR <u>Chuska Energy Company</u></p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR <u>315 North Behrend, Farmington, New Mexico 87401</u></p>		<p>8. FARM OR LEASE NAME <u>Anasazi</u></p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <u>2340' FNL &amp; 1110' FWL</u> At proposed prod. cone</p>		<p>9. WELL NO. <u>#1</u></p>
<p>14. API NO. <u>43-037-31478</u></p>		<p>10. FIELD AND POOL, OR WILDCAT <u>Aneth</u></p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>5780'</u></p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 5, T42S, R24E</u></p>
<p>12. COUNTY <u>San Juan</u></p>		<p>13. STATE <u>Utah</u></p>

JAN 16 1990

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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <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>First sale of oil</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 _____	

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.

Chuska Energy Company reports first oil produced @ 1500 hrs. 01-08-90. Oil will be sold to Giant Refining Company, 2373 North Scottsdale Road, Scottsdale, Arizona 85255.

OIL 2003	
JOB	CLH
PT	SLS
1-TAS	
MICROFILM	
2- FILE	

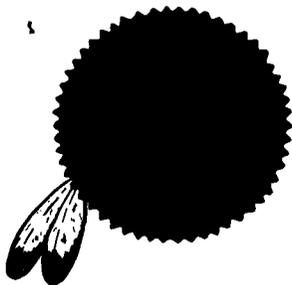
18. I hereby certify that the foregoing is true and correct.

SIGNED Donald S. Barnes TITLE Operations Manager DATE 1-08-90  
DONALD S. BARNES

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:



# CHUSKA ENERGY COMPANY

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

January 11, 1990

RECEIVED  
JAN 16 1990

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas, and Mining  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

RE: Entity Action Form, Anasazi #1, Report of First Sale of Oil

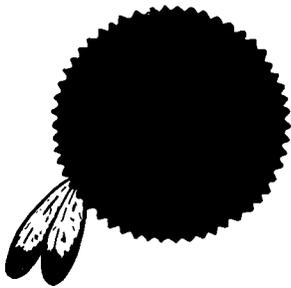
Gentlemen:

Enclosed you will find original and six copies of the above-referenced Entity Action Form.

Very truly yours,

DONALD S. BARNES  
Operations Manager

DSB:bnp  
Enclosures  
File:DSB\OILSAAN1



# CHUSKA ENERGY COMPANY

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

**RECEIVED**  
JAN 29 1990

January 24, 1990

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

DIVISION OF  
OIL, GAS & MINING

Ref: Completion Report - Anasazi #1

Gentlemen

attached you will find the original and two copies of the  
Completion Report for the subject well.

Sincerely

Donald S. Barnes  
Operations Manager

DSB/csw  
File: C:\WP\CSWH\ANASCOMP

OIL AND GAS	
DPN	DFE
JRB	CLH
DTS	SLS
1-TAS	
2-	MICROFILM ✓
3-	FILE

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY   
2. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RESVR.

RECEIVED  
JAN 29 1990

2. NAME OF OPERATOR  
Chuska Energy Company

3. ADDRESS OF OPERATOR  
315 North Behrend, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State Requirements)  
At surface: 2340' FNL, 1110' FWL  
At top prod. interval reported below  
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  
Anasazi  
8. FARM OR LEASE NAME  
Aneth  
9. WELL NO.  
1  
10. FIELD AND POOL OR WILDCAT  
S5 T42S R24E  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

14. API NO. 43-037-31478 DATE ISSUED 11-09-89 12. COUNTY San Juan 13. STATE Utah

15. DATE SPUNDED 12-12-89 16. DATE T.D. REACHED 12-29-89 17. DATE COMPL. (Ready to prod.) 01-23-90 (Plug & Abd.) 18. ELEVATION (OF. RES. RT. CR. ETC.) 4778' GR 19. ELEV. CASINGHEAD 4778'

20. TOTAL DEPTH, MD & TVD 5780' 21. PLUG BACK T.D., MD & TVD 5705' 22. IF MULTIPLE COMPL. HOW MANY 23. INTERVALS DRILLED BY Rotary 24. ROTARY TOOLS 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)  
Desert Creek: 5646' - 5574'  
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN 12-26-90 CBL BHC 27. WAS WELL CORED YES  NO  (Submit analysis)  
DLL-MSFL-SP-GR-CAL : FDC-CNL-GR-Lithodensity 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	504	12-1/4"	360 sx G + 2% CaCl2	-
5-1/2"	15.5	5780	7-7/8"	(2stage). 630 sx G 65:35 Poz, 260 sx G. 140 sx 65: 35 Poz, 100 sx G. Stage collar @ 3265'	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	5574'	-

31. PERFORATION RECORD (Interval, size and number)  
5546-5670: 0.46", 2 spf, 48 holes  
5574-5630: 0.46", 2 spf, 112 holes  
\* 32. ACID. SHOT. FRACTURE. CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5670-5646	4800 gal 28% MSR-100 acid
5630-5574	22400 gal 28% MSR-100 acid

\* Re-perforated/re-acidised 5574-5630

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
01-08-90	Flowing	Producing					
DATE OF TEST	HOURS TESTED	CHQ. SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL	GAS—MCF.	WATER—BBL	GAS-OIL RATIO
01-20-90	24	3/4"	→	1705	833	0	489 scf/bbl
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL	GAS—MCF.	WATER—BBL	OIL GRAVITY-API (CORR.)	
150 psig	320 psig	→	1705	833	0	41	

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

35. LIST OF ATTACHMENTS  
Completion Procedure

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED Donald S. Barnes TITLE Operations Manager DATE 01-24-90

See Spaces for Additional Data on Reverse Side

\* 2340 is actual footage of this well per Don Barnes 1-5-90

SUMMARY OF POROUS ZONES

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIPTION, CONTENTS, ETC</u>
Desert Creek	5583'	6631'	Cored 60' - recovered 49'. Dolomite & Limestone with vugular porosity ranging from 1.9% to 28.2%.
	5641'	5699'	Cored 60' - recovered 58'. Limestone & Dolomite ranging from 3.9% to 14.8% porosity.

CHUSKA ENERGY COMPANY

Anasazi #1  
Completion Procedure  
R. Griffiee  
12/30/89

- 1. MIRU 24 hour completion rig. Rig equipment is to include reversing and circulation system.
2. NU 3000 psi BOPE. Pressure test BOPE to 3000 psi.
- 3. PU 4 3/4" bit, casing scraper, 4 - 3 1/2" drill collars, and 2 7/8" tubing. RIH to Gemoco stage collar at 3265'. Pressure test casing above stage collar to 2500 psi for 30 minutes, under 2 7/8" tubing rams. Drill out stage collar using fresh water for a circulating fluid.
- 4. Continue running in hole and clean out to Gemoco float collar at 5734' (PBD = 5734'). Circulate hole clean (insure that no cement or pipe scale is present in returns). Again pressure test casing, by closing 2 7/8" rams, to 2500 psi for 30 minutes.
5. Spot 150 gals of 7 1/2% HCL acid from 5670' to 5520'. TOH.
6. Rig up Schlumberger. Run CBL, GR, CCL pressuring up casing to 1500 psi, from PBD to +/- 4700'.
7. Using 4" casing gun, Perforate Desert Creek formation from 5646 to 5670' (24 feet) with 2 jsfp: 48 perforations (perforation depths from Compensated Nuetron Litho-Density dated 12/24/89).
8. PU 'Retrievamatic' packer and RIH with 2 7/8" tubing to 5500'. Set packer. Pressure test backside to 2500 psi. After pressure testing, maintain 500 psi on backside for acid job.
9. RU D/S. Break down perforations and establish injection rate. Acidize with 4,800 gals of 28% MSR100 (200 gals/ft) at +/- 5 bpm. Drop 48 RCN ball sealers (7/8" diameter, 1.2 specific gravity) while pumping the final 2,880 gals of acid at 1 ball per 60 gals. Flush 2 bbls past the bottom perforation with water.
10. Swab well back. Swabbing operations will be conducted only in daylight hours. If well begins flowing, flow well to allow sufficient cleanup of zone. Cleanup will be determined by flowing at a constant rate for +/- 6 hours with no water present in the grind-out samples. Produce well into temporary tanks.
11. Release packer. Kill well with fresh water. TOH w/ 2 7/8" tubing and packer.

12. Rig up Schlumberger. Set wireline-set retrievable bridge plug at 5640'. Pressure test bridge plug to 2500 psi. Spot 3-5 sand on top of bridge plug with wireline sand bailer

13. RIH with tubing open ended to 5630. Spot 150 gals 7 1/2% HCL from 5630' to 5480'. TOH.

14. Using 4" casing gun perforate Desert Creek formation from 5574 to 5630' (56') with 2 jspf; 112 perforations (perforation depths from Compensated Nuutron Litho-Density dated 12/24/89).

15. PU 'Retrievamatic' packer. RIH with 2 7/8" tubing to 5400'. Set packer. Pressure test backside to 2500 psi. After pressure testing, maintain 500 psi on backside for acid job.

16. RU D/S. Breakdown perforations and establish injection rate. Acidize with 11,200 gal 28% MSR100 (200 gals/ft) at +/- 5 bpm. Drop 112 RCN ball sealers (7/8" diameter, 1.2 specific gravity) while pumping the final 6,720 gals of acid at 1 ball per 60 gals. Flush 2 bbls past the bottom perforation with water.

17. Swab well back. Swabbing operations will be conducted only in daylight hours. If well begins flowing, flow well to allow sufficient cleanup of zone. Cleanup will be determined by flowing at a constant rate for +/- 6 hours with no water present in the grind-out samples. Produce well into temporary tanks.

18. Release packer. Kill well with production water. RIH with tubing to 5640'. Reverse out ball sealers and sand on top of bridge plug. TOH. lay down packer. (If formation pressure is too low to allow circulation, use wireline junk basket to retrieve ball sealers and wireline sand bailer to remove sand on top of bridgeplug). PU bridgeplug retrieving tool; TOH, retrieve bridge plug; TOH.)

19. RIH w/ 2 7/8 tubing with seating nipple to 5570'. Swab or flow well back. Again, swabbing operations will be conducted only in daylight hours. Flow well for +/- 12 hours until a stabilized rate has been achieved and no water is present in grind-out samples. Run bottom hole pressure bombs and fluid sample chamber. Shut well in for 48 hour build-up test.

20. During previous completion operations and while performing the 48 hour build-up test, a 3" production line will be laid from the Anasazi #1 to the Sahgzie #1 location where a separator will be set for the Anasazi well. Other Sahgzie facilities (tanks, chemical injection, ect.) will be shared with the Anasazi production.

21. Retrieve bombs and fluid sampler. Produce well into permanent facilities.

---



# CHUSKA ENERGY COMPANY

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

February 27, 1990

RECEIVED  
MAR 05 1990

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

DIVISION OF  
OIL, GAS & MINING

Ref: Sundry Notices: Sahqzie #1/Anasazi #1 - First Sale of Gas

Gentlemen

attached you will find the original and two copies of the subject Sundry Notices.

Please advise if you require additional information concerning these applications.

Sincerely

Donald S. Barnes  
Operations Manager

DSB/csw

File: C:\WP\CSWH\ANASAZI\1STGAS.SUN

encl.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		LEASE DESIGNATION & SERIAL NO. NOG 8762-1118
		6. IF INDIAN ALLOTTEE OR TRIBE NAME Navajo Tribal
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Chuska Energy Company		8. FARM OR LEASE NAME Anasazi
3. ADDRESS OF OPERATOR 315 North Behrend, Farmington, New Mexico 87401		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2430' FNL, 1110' FWL		10. FIELD AND POOL OR WILDCAT Wildcat
At proposed prod. zone Same		11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA S5 T42S R24E
14. API NO. 43-037-31478	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4,778' GR	12. COUNTY San Juan
12. STATE Utah		

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <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>First Sale of Gas</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>2-6-90</u>	

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

\* Must be accompanied by a cement verification report.

Chuska Energy Company reports the first sale of gas from this well at 1500 hrs, 2-6-90.

OPERATIONS	
JRB	CLH
DTC	SLG
1-TAS	2- MICROFILM
3-	FILE

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

SIGNED Donald S. Barnes TITLE Operations Manager DATE 2-27-90

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:



# CHUSKA ENERGY COMPANY

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

RECEIVED  
AUG 20 1990

DIVISION OF  
OIL, GAS & MINING

August 15, 1990

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

RE: Sundry Notice - Intent to Vent/Flare Gas  
Anasazi #1  
Sahgzie #1

Gentlemen:

Enclosed you will find for your examination and approval the original and two copies of each of the above-referenced Sundry Notices.

Please advise if you require any additional information.

Sincerely,

THOMAS R. McCARTHY  
Reservoir Engineer

TRM:bnp  
Enclosures  
File:TRM\SUNDRY

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION & SERIAL NO.  
NOG-8702-1116

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. IF INDIAN ALLOTTEE OR TRIBE NAME  
Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Anasazi #1

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Aneth

11. SEC. T. R. S. OR BLM. AND SURVEY OR AREA  
Sec. 5, T<sup>42</sup>1S, R24E

12. COUNTY  
San Juan

13. STATE  
Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Chuska Energy Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See use space 17 below.)  
At surface 2340' FNL, 1110' FWL  
At proposed prod. zone

AUG 20 1990

UPL GAS 2, 1990

14. API NO.  
43-037-31478

15. ELEVATIONS (Show whether DF, RT, CR, etc.)  
5780'

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

APPROX. DATE WORK WILL START Venting Gas

DATE OF COMPLETION \_\_\_\_\_

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

\* Must be accompanied by a cement verification report.

Chuska Energy Company proposes to vent and/or flare gas from this well during the two-week period that the San Juan Gas Plant is shut down. Verbal approval for this venting or flaring was received by Tom McCarthy from Ken Townsend with the Bureau of Land Management on August 15, 1990.

OIL AND GAS	
DFN	RIF
2 JPB ✓	GIH
115	SLS
1 DME	
2 DMK	
4 MICROFILM ✓	
5 FILE	

18. I hereby certify that the foregoing is true and correct.  
 SIGNED Thomas R. McCarthy TITLE Reservoir Engineer DATE 8-15-90  
 Thomas R. McCarthy

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

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

DATE: 8-28-90  
BY: John R. Day

(3/89) Federal approval of this action is required before commencing operations

See Instructions On Reverse



# CHUSKA ENERGY COMPANY

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

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

DEC 26 1990

DIVISION OF  
12 December 1990

DEC 26 1990

State of Utah Department of Natural Resources **DIVISION OF OIL, GAS & MINING**  
Division of Oil, Gas and Mining  
355 West North Temple  
3 Triad Building, Suite 350  
Salt Lake City, Utah 84180-1203

Attn: Vicki Carney

Ref: Electric Logs

Dear Ms Carney

please find copies of the logs which you requested on the following wells:

- Rabbit Ears #1 ✓
- Anasazi #1 ✓ 425 2AE 5 POW
- Sahzie #1 ✓
- Big Bend 8E-1 ✓
- Cajon Mesa 8D-1 ✓
- Monument 8N-2 ✓

Please excuse the delay in sending these to you, but we had to get new prints made from existing films, and due to a shortage of logging trucks, with printing equipment, this took some time.

Sincerely,

  
Christopher S.W. Hill  
Petroleum Engineer

encl.

CORE #1, DESERT CREEK, 5583-5641, CUT 58', REC 49'

~~CONFIDENTIAL~~

- 5583 DOL brn, micxl, slsly, lmy ip, sl rthy, tr anhy xl, fr intxl-  
vrr pp vug  $\emptyset$ , frm, fr-bri-dul yel-gld FLOR/TR-rr lt-dkbrn  
0 STN/fr-g stmg mlky CUT/fr od, weeping oil & gas
- 5584 DOL AA, TR anhy nod, TR pp vug-fr-g intxl  $\emptyset$ , g bri-dul yelgld  
FLOR/fr lt-dkbrn 0 STN/tt blk dd 0 STN/g stmg mlky yel-wh  
CUT/fr od weeping oil & gas
- 5585 DOL brn, micxl, vfxl ip, slsly, rthy, lmy, TR ANHY INCL & xl,  
fr-g intxl-fr pp vug  $\emptyset$ , frm, g dul-bri yel-gld FLOR, TR fr  
lt-dkbrn STN/TR blk dd 0 STN/g stmg mlky yel-wh CUT/g od,  
weeping oil & gas
- 5588 DOL ltgybrn, micxl, AA,  $\emptyset$  AA, g bri yel-orng FLOR/fr dkbrn STN/  
TR dd 0 STN/vslo stmg mlky yel-wh CUT/v fnt od w/intbdd blk  
carb slsly SH
- 5589 DOL ltgybrn, micxl, rthy-slsly, vsl lmy, cln, TR intxl  $\emptyset$ -tt, m  
hd, TR dul yel-gld FLOR/vrr ltbrn STN/fr stmg mlky yelwh  
CUT/n-v fnt odor
- 5589½ DOL ltgybrn, crpxl-vfxl, sl lmy, slty ip, occ rthy, cln ip, rr  
vert frac, tt-fr intxl-pp vug  $\emptyset$ , frm, fr-g bri yel-gld FLOR/  
TR lt-mbrn STN/fr-g stmg mlky yel-wh CUT/v fnt od
- 5590 DOL ltbrn, crp-micxl, cln, slrthy, vsl slty, TR crin fos, TR  
intxl-vrr pp vug  $\emptyset$ , mdh, g bri yel-gld FLOR/TR lt-blk brn  
STN/TR blk dd 0 STN/g stmg mlky yel-wh CUT/fnt od
- 5591½ DOL ltbrn, micxl, slsly, rthy-cln, arg ip, TR intxl-vrr pp vug  
 $\emptyset$ , frm-mhd, bri yel-orng FLOR/rr-TR lt-dkbrn STN/rr blk dd 0  
STN/v slow stmg mlky yel-wh CUT/TR blk, carb, dol, slsly-  
mica SH INCL
- 5592 DOL AA tt-p intxl  $\emptyset$  mhd, p dul orng mnrl FLOR/n vis STN OR CUT
- 5594 DOL ltbrn, micxl sl rthy, cln, vsl slty, TR anhy xl, TR-fr intxl  
 $\emptyset$ , frm, ABNT orng mnrl FLOR/rr spty bri yel-gld FLOR/rr lt  
brn STN/TR fr stmg mlky yel-wh CUT/v fnt od
- 5595 DOL brn, micxl, slsly, vsl lmy, TR anhy xl-TR ANHY INCL, fr  
intxl-rr pp vug  $\emptyset$ , mhd, fr bri yel-gld FLOR/fr ltbrn STN/g  
stmg mlky yelwh CUT/fr od
- 5595½ DOL AA w/ABNT ANHY INCL, g bri yel-gld FLOR/g lt-mbrn STN/g  
stmg mlky yel-wh CUT, g od
- 5597 DOL lt-mbrn, micxl, slsly, sl lmy, TR anhy xl, TR intxl  $\emptyset$ , frm-  
mhd/TR spty bri yelgld FLOR/TR-rr brn 0 STN/TR g stmg mlky  
yel-wh CUT/fnt od
- 5599 DOL ltbrn, crpxl, occ micxl, sl lmy, vslanhy, g pp vug  $\emptyset$ , ABNT  
mud fl vug & frac, g bri yelgld FLOR/TR lt-dkbrn-occ blk dd  
0 STN/g fast stmg mlky CUT/g od, weeping oil & gas

- 5600 DOL m-dkbrn, crp-vfxl, suc ip, rthy-slslty, occ cln, TR ANHY INCL/ABNT ANHY INCL-TR ANHY xl, g intxl-vug Ø, frm, FLOR & CUT AA, g lt-dkbrn STN/g od
- 5601 DOL m-dkbrn, mic-fxl, suc ip AA/TR ANHY INCL, Ø AA & FLOR/STN & CUT AA, g od
- 5602 DOL AA, rr ANHY INCL, TR blk carb SH INCL, Ø AA, FS&C AA, g od
- 5603 DOL gybrn-brn, crp-vfxl, sllmy, vanhy-TR ANHY INCL, slsly arg-TR blk carb SH INCL/TR intxl-TR pp vug Ø, mhd, TR bri yel-gld FLOR/TR-rr lt-dkbrn STN/rr blk dd 0 STN/TR mod fast stmg mlky yel-wh CUT/v fnt od
- 5605 DOL mbrn, crp-micxl, vsl lmy, vslarg, TR anhy xl, TR frac, p intxl-TR pp vug Ø, frm, g bri yel-gld FLOR/TR ltbrn 0 STN/g fast stmg mlky yel-wh CUT/fnt od
- 5608 DOL ltbrn, mic-vfxl, suc ip, vsllmy, cln, TR anhy xl, g intxl-fr pp vug Ø, frm/g bri yel-gld FLOR/fnt ltbrn STN/g fast stmg mlky yel-wh CUT/tr od
- 5609 DOL AA, g intxl-g pp vug Ø, g ltbrn STN/rr dd 0 STN/g fast stmg mlky yel-wh CUT/g od
- 5611½ DOL AA, fxl ip, Ø AA, FS&C AA/g od
- 5613 DOL brn, vfxl-suc, vsl lmy, arg ip vsl slty, TR ANHY XL, fr intxl-fr pp vuf Ø, frm, g bri yel-gld FLOR/g ltbrn-TR blk dd 0 STN/g fast stmg mlky wh-yel CUT/g od
- 5614 DOL ltbrn, mic-vfxl, suc ip, TR ANHY INCL AA, Ø AA, FS&C AA/g od
- 5615 DOL ltbrn, crp-micxl, occ fxl-suc, TR ANHY INCL-nod, vsl lmy-cln, vslsly, g vug-rr intxl Ø, frm-mh, g bri yel-gld FLOR/g ltbrn STN/rr dd 0 STN/g fast stmg mlky yel-wh CUT
- 5616 DOL AA, Ø AA, g bri yel-gld FLOR/TR ltbrn STN/ABNT blk dd 0 STN/g strmg mlky yel-wh CUT/fr od
- 5617 DOL ltgy-bf, crpxl, occ micxl, vsl lmy-cln, vsl slty, ABNT ANHY XL & INCL/g vug Ø/n vis intxl Ø/frm-mhd, fr bri yel-gld FLOR/TR lt-mbrn STN/rr dd 0 STN/g stmg mlky CUT/fr od
- 5618½ DOL brn, crpxl-fxl, vsl slty, cln, slfos-brac, TR ANHY INCL-vrr ANHY FL Ø/fr intxl-g pp vug Ø/frm-mhd, g bri yel-gld FLOR/g brn STN/g stmg mlky, yel-wh CUT/g od
- 5620¼ DOL AA, Ø AA, FS&C AA, G OD
- 5622 DOL AA, Ø AA, bri-du1 yel-gld FLOR/STN & CUT AA/g od

- 5622½ DOL ltbrn, micxl, sl lmy, slty ip, vsl arg-cln, TR intxl Ø, frm, g dul yel-gld FLOR/fnt ltbrn STN/fr-g slo stmg mlky yel-wh CUT/TR od
- 5624 DOL gy, crpxl, micxl ip, vlmy, ABNT ANHY XL, fos-brac-crin/TR blk carb SH INCL/tt-vrr intxl Ø, hd/orng mnrl FLOR/NSOC
- 5626 DOL gybrn AA, /TR LS INCL & intbdd blk, dol, carb, slsly, mica SH, n vis-vrr intxl Ø, orng mnrl FLOR/NSOC
- 5628 DOL bf, micxl, vsl lmy, slsly, rthy-cln, TR intxl Ø, frm, NFSOC
- 5630 DOL AA vlmy ip, vsl fos, TR ANHY XL-INCL, TR-fr intxl Ø, frm NFSOC
- 5632 DOL mgy, crp-micxl, arg, vlmy ip,/intbdd, gybrn crpxl, tt LS & thn dkgy carb SH/n vis Ø, mhd, NFSOC

CORE #2, DESERT CREEK, 5641-5701, CUT 60', REC 58'

- 5641 LS ltgy, crpxl, dol, anhy w/TR ANHY INCL, vsl slty, vsl arg, TR blk carb mud incl/TR frac-vrr intxl Ø, mhd, TR bri yel-gld FLOR/n vis STN/n vis CUT
- 5642½ LS gy, crpxl, vdol, vanhy-ABNT ANHY XL & INCL, fos-brac/TR frac-TR intxl Ø, hd, TR bri yel-gld FLOR/n vis-vrr ltbrn STN/v slow stmg-dif mlky CUT
- 5643½ LS gy-crp-micxl, vsl dol, cln, sl anhy ip, TR ANHY-CALC xl, sl fos-ang, fr intxl-fr vug Ø, mhd, g bri yel FLOR/fr ltbrn STN/g stmg mlky yel-wh CUT, fr od
- 5644½ LS bf, micxl, vsldol, slanhy, fos ip, cln-vsl rthy, slsly, TR anhy xl, tt-TR intxl Ø, frm, NFSOC
- 5645 LS gy-crpxl, micxl-vfxl ip AA Abnt brac-alg-cor gast fos, TR intxl-g vug Ø/g bri yel FLOR/TR-fr lt-mbrn STN/g stmg mlky yel-wh CUT/fr od
- 5646 LS gy-ltbrn, crpxl, micxl-vfxl ip, sl dol, vsl anhy, TR fos-brac-IVAN cor, TR-rr intxl Ø/vg vug Ø, mhd-frm/g bri yel FLOR/fr ltbrn STN/g fast stmg mlky yel-wh CUT/fr-g od
- 5648 LS AA, Ø-AA, FS&C AA, g od/ABNT drl mud intr in spl
- 5649 LS bf, AA TR ANHY INCL & XL, rr blk carb mud, Ø AA, FS&C AA/g od/ABNT drlg mud intr in spl
- 5650½ LS gy-bf, AA, vg vug Ø-pp ½" vugs, g lt-mbrn STN, F&C AA/g od/ABNT drl mud intr
- 5653 LS AA incr vfxl, suc ip, g vug Ø AA, TR blk dd 0 STN/FS&C AA/g od/ABNT DRLG mud intr
- 5656 LS AA, Ø AA, FS&C AA/g od

- 5659 LS AA, brac-cor-IVAN-gast fos, vg vug  $\emptyset$ , pp- $\frac{1}{2}$ " vugs, TR ANHY FL vugs, ABNT mud invasion in  $\emptyset$ , g, bri-dul yel-gld FLOR/g lt-m brn STN/g fast stmg mlky yel-wh CUT/g od
- 5661 $\frac{1}{2}$  SH blk, plty-mas, calc-carb, dol, mica, slty, w/TR LS INCL-gy, crpxl, occ pp vug, w/blk dd 0 STN & ANHY INCL/TR dul yel-gld FLOR/vp CUT/vfnt od
- 5662 LS gybrn, crpxl, vsldol, cln, w/ABNT ANHY INC & XL/TR ANHY FL  $\emptyset$ , fos-brac-cor-IVAN/g vug  $\emptyset/\frac{1}{4}-\frac{1}{2}$ " vugs/TR intxl  $\emptyset$ , frm-mhd, g bri-dul yel-gld FLOR/ABNT blk dd 0 STN/fr lt-mbrn 0 STN/fr-g mod-stmg mlky yel-wh to dif CUT/g od
- 5665 LS ltbrn-gy, mic-crpxl, occ vfxl-suc, vsldol, ANHY-TR ANHY INCL, TR alg fos-IVAN/TR intxl-g vug  $\emptyset$ , frm-mhd, g bri yel-gld FLOR/g ltbrn STN-TR blk dd 0 STN/g mod-fast stmg mlky yel-wh CUT/g od, ABNT drlg mud invasion in spl
- 5668 LS ltbrn, crp-micxl, occ vfxl-suc, AA w/TR brac-crin fos, w/TR ltgy calc CLYST INCL,  $\emptyset$  AA/FS&C AA/g od, ABNT drlg mud invas
- 5669 LS ltbrn-gy AA/TR CLYST AA/ABNT calc-ANHY XL in vugs,  $\emptyset$ -FS&C AA/g od/TR drlg mud invasion in spl
- 5670 $\frac{1}{2}$  LS AA,  $\emptyset$  AA,F&C AA/lt-mbrn STN/fr-TR od
- 5671 $\frac{1}{2}$  LS AA ABNT ANHY INCL-TR ANHY FL  $\emptyset$ , TR intxl-vr vug  $\emptyset$ , frm-mhd, vr spty-dul-bri yel FLOR/ rr lt-mbrn STN/rr g stmg mlky yel-wh CUT/fnt od
- 5672 LS gy-ltbrn ip, crpxl, tr micxl, dol ip, anhy-ABNT ANHY INCL, rthy ip, cln, TR fos, tt-rr intxl  $\emptyset$ , mhd-hd, TR orng mnrl FLOR/n vis STN or CUT/n od
- 5673 $\frac{1}{2}$  DOL ltgy-bf, crpxl-vr micxl, anhy-vsl lmy/TR LS INCL, rthy ip, cln, vslslty, rr-TR intxl  $\emptyset$ , hd, n vis FSOC
- 5676 DOL bf, crp-micxl, AA  $\emptyset$  AA, NFSOC
- 5678 LS gybrn, crp-micxl, sldol, occ slarg, vslslty, rthy, vfos-brac, ABNT ANHY XL-TR ANHY INC/tt-rr intxl  $\emptyset$ , mhd, NFSOC/no od
- 5679 $\frac{1}{2}$  LS bf-gybrn AA/rr intxl-rr pp vug  $\emptyset$ /pred ANHY FL  $\emptyset$ , mhd/TR spty bri yel FLOR/TR lt-mbrn STN/rr-TR g mod-fast stmg mlky yel-wh CUT/n-v fnt od
- 5682 DOL ltbrn, mic-crpxl, lmy, rthy-vslslty, ABNT thn ANHY INCL/TR intxl  $\emptyset$ , mhd, g bri yel-gld FLOR/fr lt-brn STN, slo-mod stmg mlky yel-wh CUT/n-vfnt od
- 5684 $\frac{1}{2}$  DOL AA brac fos/TR thn blk carb mud incl, fr intxl-rr pp vug  $\emptyset$ /FS&C AA/n od
- 5686 DOL brn AA n vis fos, vrthy-slty ip, TR intxl-vr pp vug  $\emptyset$ , g bri-dul yel-gld FLOR, g ltbrn STN/rr dd 0 STN, TR dif-slow stmg mlky yel-wh CUT/no od

- 5689 DOL bf, crpxl, micxl ip, sl lmy, styol, sl rthy-slty, pred cln,  
TR ANHY XL, TR frac, tt, hd, NFSOC, n od
- 5690 DOL gy, crpxl, AA w/TR bf crpxl LS INCL, n vis Ø, NFSOC, n od
- 5692 LS brn, crpxl, sldol, ool, w/tr blk carb mud incl, w/ABNT ANHY  
INCL, tt, hd, NFSOC, n od
- 5694 LS gybrn-brn, crpxl, dns, w/ABNT ANHY INCL & FRAC FLG, slfos,  
TR frac, tt, hd, TR orng mnrl FLOR, NSOC, n od
- 5696 LS AA, styol, tt, NFSOC, n od
- 5699 LS AA w/ltbrn LS INCL, styol, tt, NFSOC

**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	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
116-1 NAVAJO TRIBAL								
✓4303715390	00545	41S 25E 31	DSCR					
NAVAJO TRIBAL 23-13								
✓4303730971	09420	40S 24E 13	DSCR					
NAVAJO TRIBAL 42-2								
✓4303731017	09425	42S 24E 2	DSCR					
NAVAJO TRIBAL 24-13								
✓4303730970	09435	40S 24E 13	DSCR					
NAVAJO TRIBAL 41-2								
✓4303731041	09437	42S 24E 2	DSCR					
NAVAJO TRIBAL #32-26								
✓4303731060	09990	40S 22E 26	DSCR					
NAVAJO TRIBAL 14-10								
✓4303730977	10130	40S 24E 10	DSCR					
SAHGZIE NO. 1								
✓4303731472	11032	42S 24E 5	DSCR					
ANASAZI #1								
✓4303731478	11042	42S 24E 5	DSCR					
CAJON MESA 8-D-1								
✓4303731497	11074	40S 25E 8	DSCR					
MONUMENT #8-N-2								
✓4303731509	11087	40S 25E 8	DSCR					
TOWER #1 1-2								
✓4303731507	11088	40S 25E 1	ISMY					
RUNWAY 10G #1								
✓4303731515	11105	40S 25E 10	DSCR					
<b>TOTALS</b>								

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

\_\_\_\_\_

\_\_\_\_\_

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

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

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

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



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

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

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

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

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

Sincerely,

Barry A. Wieland  
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF  
OIL, GAS & MINING

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

Route original/copy to:

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

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

Other  
*Open. Nm. Change*

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

2. DOGM Employee (name) 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-VLC	7-SJ
2-DTS	8-FILE
3-VLC	
4-RJF	
5-DEC	
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)	<u>HARKEN SOUTHWEST CORPORATION</u>	FROM (former operator)	<u>CHUSKA ENERGY COMPANY</u>
(address)	<u>3315 BLOOMFIELD HWY</u>	(address)	<u>3315 BLOOMFIELD HWY</u>
	<u>FARMINGTON NM 87401</u>		<u>FARMINGTON NM 87401</u>
	phone <u>(505) 326-5525</u>		phone <u>(505) 326-5525</u>
	account no. <u>N 9290</u>		account no. <u>N9290</u>

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

Name: <b>**SEE ATTACHED**</b>	API: <u>037 31478</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**

- Lee 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).
- Lee 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.
- Lee 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.
- Lee 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-10-94)*
- Lee 6. Cardex file has been updated for each well listed above. *(2-10-94)*
- Lee 7. Well file labels have been updated for each well listed above. *(2-10-94)*
- Lee 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- Lee 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) 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 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- See
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.
- OTS  
3/2/94
- 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

---

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

**RECEIVED**  
SEP 07 1995  
OIL, GAS & MIN

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

1. Type of Well

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

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.

43037-31478

See Attached List

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan, Utah

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

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

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

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

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

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

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

cc: Navajo Nation  
State of Utah

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

Signed

*Richard 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.

\*See Instruction on Reverse Side

## HARKEN SOUTHWEST CORPORATION

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

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

STATE of UTAH

RECEIVED NOV 14 1995

Form 3160-5 (June 1990)

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 OF OIL, GAS & MINERAL

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 [X] Oil Well [ ] Gas Well [ ] Other
2. Name of Operator Harken Southwest Corporation
3. Address and Telephone No. P.O. Box 612007, Dallas, Texas 75261 (214) 753-6900
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SW/NW Sec 5-42S-24E 2340' FNL & 1110' FWL

5. Lease Designation and Serial No. 8707-1162
6. If Indian, Allottee or Tribe Name Navajo
7. If Unit or CA, Agreement Designation N/A
8. Well Name and No. Anasazi #1
9. API Well No. 43-037-31478
10. Field and Pool, or Exploratory Area Aneth
11. County or Parish, State San Juan, UT

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

Table with 2 columns: TYPE OF SUBMISSION and TYPE OF ACTION. Includes checkboxes for Notice of Intent, Subsequent Report, Final Abandonment Notice, Abandonment, Recompletion, Plugging Back, Casing Repair, Altering Casing, Other (Venting), Change of Plans, New Construction, Non-Routine Fracturing, Water Shut-Off, Conversion to Injection, Dispose Water.

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.)\*

As a result of maintenance procedures preformed by Elkhorn Operating between September 18 and 27, 1995 Harken Southwest vented 366 MCF of gas on the subject well.

CC: State of Utah Navajo Nation

ACCEPTED FOR RECORD

OCT 1 1995

FARMINGTON DISTRICT OFFICE [Signature]

14. I hereby certify that the foregoing is true and correct. Signed [Signature] Title Production Administrator Date 10/2/95
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

43-037-31478

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 <u>Gas venting</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

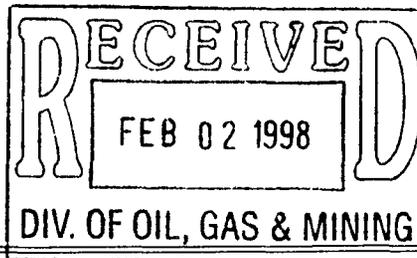
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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:

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

Page 1 of 3

	<b>Anasazi #1</b> 43-037-31478 SW/NW Sec 5-42S-24E	<b>Anasazi 5L-3</b> 43-037-31572 NW/SW Sec 5-42S-24E	<b>Sahgzie 1</b> 43-037-31472 SW/NW Sec 5-42S-24E	<b>Anasazi 6H-1</b> 43-037-31744 SE/NE Sec 6-42S-24E	<b>Navajo</b> <b>Tribal 41-2</b> 43-037-31041 NE/NE Sec 2-42S-24E	<b>Navajo</b> <b>Tribal 23-13</b> 43-037-30971 NE/SW Sec 13-40S-24E	<b>Runway 10C-5A</b> 43-037-31597 NE/NW Sec 10-40S-25E	<b>Runway 10G-1</b> 43-037-31515 SW/NE Sec 10-40S-25E	
<b>Vented Gas (MCF) December 1997</b>									
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>
<b>Vented Gas (MCF) January 1998</b>									
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	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

	Runway 10E-2 43-037-31550 SW/NW Sec 10-40S-25E	Momentum 8N-2 43-037-31509 SE/SW Sec 8-40S-25E	Momentum 17E-2 43-037-31547 SW/NW Sec 17-40S-25E	Cajon Mesa 8D-1 43-037-31497 NW/NW Sec 8-40S-25E	Blue Hogan 1J-1 43-037-31562 NW/SE Sec 1-42S-23E	Brown Hogan 1A-2 43-037-31573 NE/NE Sec 1-42S-23E
<b>Vented Gas (MCF) December 1997</b>						
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>
<b>Vented Gas (MCF) January 1998</b>						
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 43-037-31710 SW/SW Sec31-41-24E	Big Sky 6E(6L) 43-037-31714 NW/SW Sec 6-42S-25E	Mule 31-K(N) 43-037-31617 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		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
<b>Jan Total</b>	<b>276</b>	<b>779</b>	<b>107</b>	<b>7891</b>
<b>Grand Total</b>	<b>438</b>	<b>1305</b>	<b>203</b>	<b>12915</b>

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

FORM 9

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

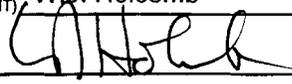
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

**Corporate Name Change from Harken Southwest Corporation to RIM Southwest Corporation, effective December 1, 2000 for reporting requirements.**

**RECEIVED**  
DIVISION OF  
OIL, GAS AND MINING

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

(This space for State use only)

**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)	
✓	4303731562	11161	42S 23E 01	DSCR	P	OW	27	800	778	36
✓	4303731572	11207	42S 24E 05	DSCR	P	OW	28	1,187	1,284	0
✓	4303731573	11215	42S 23E 01	DSCR	P	OW	28	297	504	0
✓	4303731595	11224	41S 23E 36	DSCR	S	OW	0	0	0	0
✓	4303731617	11326	41S 24E 31	DSCR	P	OW	28	308	348	73
✓	4303731616	11479	41S 25E 35	DSCR	S	OW	0	0	0	0
✓	4303731708	11496	41S 24E 31	DSCR	P	OW	28	489	0	0
✓	4303731709	11497	41S 24E 31	DSCR	S	OW	0	0	0	0
✓	4303731710	11498	41S 24E 31	DSCR	P	OW	28	1,074	333	120
✓	4303731714	11722	42S 25E 06	DSCR	P	OW	26	262	551	0
✓	4303731741	11734	41S 25E 32	DSCR	TA	NA	0	0	0	0
✓	4303731744	11773	42S 24E 06	DSCR	P	OW	28	205	303	0
							TOTALS	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 13 2001

DIVISION OF  
 OIL, GAS AND MINING

**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:		<b>12/1/2000</b>
<b>FROM: (Old Operator):</b> N9290-Harken Southwest Corporation 5 Inverness Drive, East Denver, CO 80112  Phone: (303) 799-9828		<b>TO: ( New Operator):</b> N1715-Rim Southwest Corporation PO Box 145 Farmington, NM 87499  Phone: (505) 327-5531

**CA No.**

**Unit:**

**WELL(S)**

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

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/27/2001

2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/27/2001

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/30/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 794466-0143

5. If NO, the operator was contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on: 8/13/2003

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

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

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

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

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 8/26/2003

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/26/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

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

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

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

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

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

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

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

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a

2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. Lease Designation and Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan County  
Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3. Address and Telephone No.

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

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

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

Subsequent Report

Final Abandonment Notice

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

Other Vent/Flare Gas

Change of Plans

New Construction

Non-Routine Fracturing

Water Shut-Off

Conversion to Injection

Dispose Water

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

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

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

Attachment

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

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/17/01

By: [Signature]

Exp. Oct 15, 2001

Federal Approval Of This  
Action Is Necessary

COPY SENT TO OPERATOR

Date: 9-17-01  
Initials: [Signature]

RECEIVED

SEP 20 2001  
DIVISION OF  
OIL, GAS AND MINING

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

Conditions of approval, if any:

Title

Date

RIM SOUTHWEST CORPORATION

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

- 43-037-31714  
 - 43-037-31509  
 - 43-037-31497  
 - 43-037-31697  
 - 43-037-31777  
 - 43-037-31041  
 - 43-037-31040  
 - 43-037-31492  
 - 43-037-31498  
 - 43-037-31515  
 - 43-037-31597  
 - 43-037-31550  
 - 43-037-31549  
 - 43-037-31562  
 - 43-037-31573  
 - 43-037-31708  
 - 43-037-31709  
 - 43-037-31617  
 - 43-037-31710



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

ANALYSIS NO. HSC80013  
 CUST. NO. 33500- 10095

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC80012  
 CUST. NO. 33500- 10015

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC80009  
 CUST. NO. 33500- 10080

**WELL/LEASE INFORMATION**

<b>CUSTOMER NAME</b>	HARKEN SOUTHWEST CORP.	<b>SOURCE</b>	N/A
<b>WELL NAME</b>	JACK 31G	<b>PRESSURE</b>	28 PSIG
<b>COUNTY/ STATE</b>	SAN JUAN 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

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

### REMARKS

### ANALYSIS

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

## CQM, INC. 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**

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

**REMARKS**

**ANALYSIS**

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

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,471.5	CYLINDER #	005
DRY BTU @ 14.696	1,476.1	CYLINDER PRESSURE	22 PSIG
DRY BTU @ 14.730	1,479.5	DATE RUN	12/22/00
DRY BTU @ 15.025	1,509.2	ANALYSIS RUN BY	AMY JUSTICE



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

ANALYSIS NO. HSC00014  
 CUST. NO. 33500- 10120

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC00013  
 CUST. NO. 33500- 10115

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,714.3	CYLINDER #	A002
DRY BTU @ 14.696	1,719.7	CYLINDER PRESSURE	14 PSIG
DRY BTU @ 14.730	1,723.7	DATE RUN	12/22/00
DRY BTU @ 15.025	1,758.2	ANALYSIS RUN BY	AMY JUSTICE

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

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

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

Gas Analysis by Chromatograph

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

Ideal Total	100.000	1553.477	0.914	11.227
Unnormalized Total	92.627			

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1563.024	Propane GPM = 3.417
Sat. = 1537.392	Butane GPM = 1.505
Actual = 1563.024	Gasoline GPM = 1.353
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 2.469
	Total GPM = 11.227

Real Relative Density Calculated = 0.9190  
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

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

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

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

## Gas Analysis by Chromatograph

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

Ideal Total 100.000 1819.096 1.080 15.891  
 Unnormalized Total 113.650

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

Dry = 1835.446

Sat. = 1805.263

Actual = 1835.446

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814

Butane GPM = 2.551

Gasoline GPM = 2.169

26# Gasoline GPM = 3.945

Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



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

ANALYSIS NO. HSC00012  
 CUST. NO. 33500- 10105

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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

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

Method: c:\mti\ezchrom\200\methods\H2S\_1.MET  
 File: c:\mti\ezchrom\200\chrom\78\_14506.1

## Gas Analysis by Chromatograph

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

Ideal Total 100.000 1600.514 0.945 12.084  
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft. (@ 60 deg F, 14.730)	Gasoline Content
Dry = 1611.115	Propane GPM = 3.487
Sat. = 1584.681	Butane GPM = 1.811
Actual = 1611.115	Gasoline GPM = 1.512
( 0.000 lbs. water/MMCF)	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 U 2  
 1427 W. AZTEC BLVD. #3  
 AZTEC, NM 87410 505-333-2003

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

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

## Gas Analysis by Chromatograph

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

Ideal Total 100.000 1613.471 0.954 12.177  
 Unnormalized Total 107.575

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

Dry = 1624.438

Sat. = 1597.782

Actual = 1624.438

( 0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.492

Butane GPM = 1.784

Gasoline GPM = 1.672

26# Gasoline GPM = 2.953

Total GPM = 12.177

Real Relative Density Calculated = 0.9603

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



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

ANALYSIS NO. HSC00009  
 CUST. NO. 33500- 10085

**WELL/LEASE INFORMATION**

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

**REMARKS**

**ANALYSIS**

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,608.5
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	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	CYLINDER #	005
DRY BTU @ 14.696	1,476.1	CYLINDER PRESSURE	22 PSIG
DRY BTU @ 14.730	1,479.5	DATE RUN	12/22/00
DRY BTU @ 15.025	1,509.2	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	CYLINDER #	AZT047
DRY BTU @ 14.696	1,597.1	CYLINDER PRESSURE	15 PSIG
DRY BTU @ 14.730	1,600.8	DATE RUN	12/26/00
DRY BTU @ 15.025	1,632.9	ANALYSIS RUN BY	AMY JUSTICE

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

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

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

## Gas Analysis by Chromatograph

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

Ideal Total 100.000 1546.420 0.908 10.332  
 Unnormalized Total 108.337

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**

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

**REMARKS**

**ANALYSIS**

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

\* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

COM, 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)	Gasoline Content
Dry = 1428.837	Propane GPM = 2.708
Sat. = 1405.444	Butane GPM = 1.076
Actual = 1428.837	Gasoline GPM = 0.884
( 0.000 lbs. water/MMCF)	26# Gasoline GPM = 1.676
	Total GPM = 9.151

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

Gas Compressibility = 0.9951

---

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

Route original/copy to:

Well File \_\_\_\_\_  Suspense \_\_\_\_\_  Other \_\_\_\_\_  
 (Return Date) \_\_\_\_\_  
 (Loc.) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng. \_\_\_\_\_ (To-Initials) \_\_\_\_\_  
 (API No.) \_\_\_\_\_

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 <sup>defo</sup>

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 fogas 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.

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  
 Oil Well  Gas Well  Other

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

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

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

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

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

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

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

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

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

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>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

DIVISION OF  
OIL, GAS AND MINING

**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

RIM SOUTHWEST CORPORATION

			ESTIMATED GAS	
			VENTED	
LEASE NUMBER	WELL NAME	SEC-TWN-RNG	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	<del>05-42S-24E</del>	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. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NOG-8707-1163

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.,  
Other: \_\_\_\_\_

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

7. Unit or CA Agreement Name and No.

2. Name of Operator  
RIM Southwest Corporation

8. Lease Name and Well No.  
Anasazi #1

3. Address 5 Inverness Drive East  
Englwood, CO 80112

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

9. AFI Well No.  
43-037-3147800

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

(2340' FNL & 1110' FWL) NW NE sec 5 Twp 42S Rge 24E

At surface

10. Field and Pool or Exploratory  
Greater Aneth

11. Sec., T., R., M., on Block and  
Survey or Area  
sec 5 Twp 42S Rge 24E

At top prod. interval reported below

12. County or Parish  
San Juan

13. State  
UT

At total depth

14. Date Spudded  
12/12/1989

15. Date T.D. Reached  
12/29/1989

16. Date Completed 07/23/2008  
 D & A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
GL 4778' KB: 4792'

18. Total Depth: MD  
TVD 5780'

19. Plug Back T.D.: MD  
TVD 5705'

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
Previously Submitted

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit report)  
Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8" J-55	24	0	498'	NA	360	100	surface	
7 7/8"	5 1/2" J-55	15.5	0	5775'	3265	2400	932	surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	5697'	None						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Desert Creek & Ismay	5442	5670	5646' - 5670'	.46	48	Open
B)			5574' - 5630'	.46	112	Open
C)			5442' - 5450' (NEW)	.34"	32	Open
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
5646 - 5670	1200 gals 20% HCL & 3% Mutual Solvent displace w/ 35 bbls 2% KCL (restimulation)
5574 - 5630	2800 gals 20% HCL & 3% Mutual Solvent displace w/ 35 bbls 2% KCL (restimulation)
5442 - 5450	1680 gals 20% HCL & 3% Mutual Solvent displace w/ 43 bbls 2% KCl (initial stimulation)

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/23/08	7/28/08	24	→	58	52	5	40.0	1.0114	Pumping
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
None	50	-2	→	58	52	5	896	Pumping oil well	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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AUG 04 2008

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)  
 Sold and used for Fuel

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Previously Submitted				Hermosa	4502
				Upper Ismay	5376
				Hovenweep Shale	5482
				Lower ismay	5496
				Desert Creek	5548
				Chimney Rock	5714
				Akah	5766
			TD	5778	

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)     
  Geologic Report     
  DST Report     
  Directional Survey  
 Sundry Notice for plugging and cement verification     
  Core Analysis     
 Other: Recompletion report

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Kenneth J. Kundrik Title Operations Engineer  
 Signature Kenneth J. Kundrik Date 07/30/2008

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.

WELL: Anasazi #1 COUNTY: San Juan / API #: 43-037-31478  
 FIELD: Aneth STATE: UT SPUD DATE: 12/12/89  
 FORMATION: Desert Creek LOCATION: NW NE, Sec. 5, T42S-R24E  
 TD: 5,780' PBTD: 5,705' ELEVATION: GL= 4776', KB=4792'

**CASING RECORD**

SURFACE CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	ST&C	Surface	498	11	12-1/4"	360	Surface

**PRODUCTION CASING**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5775	140	7-7/8"	1st Stg=890	NA
								DV tool	2nd Stg=1510
									surface

**LINER**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

**TUBING**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface	5765	187	4-3/4"

**PERFORATION RECORD**

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
01/09/90	5,574'	5,630'	4	D. Creek	Open
01/08/90	5,648'	5,670'	2	D. Creek	Open
07/18/08	5,442'	5,450'	4	Ismay	Open

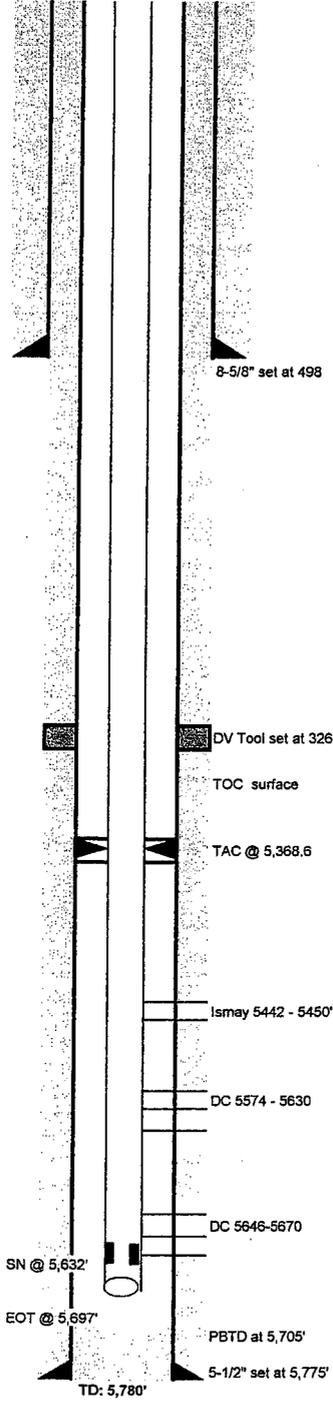
**TREATMENT**

- Interval 5646 - 5670 perf 2 jsfp, treated w/ 4800 gal 28% MSR -1, 5 bpm @ 1200 psi  
 - Interval 5574 - 5630 perf 4 jsfp, treated w/ 22,200 gal 28% MSR - Interval was perf twice and stimulated twice the second treatment 5.2 bpm @ 2150 psi 122 balls dropped ISIP 1320, 5 min - 910, 15 min - 460psi  
 Recompletion July, 2008  
 Restimulate 5646 - 5670 - 1200 gal 20% HCL & 3% Mutual Solvent  
 Restimulate 5574 - 5630 - 2800 gal 20% HCL & 3% Mutual Solvent  
 Perf Ismay 5442' - 5450 32 shots Stimulate 1650 gal 20% HCL & 3% Mutual Solvent  
 Last Pump Change shown was 6/14/08

**REMARKS**

<b>Tubing Detail (14 ft KB 11 from floor)</b> 164 Jts. of 2-7/8", 6.5#/R J-55 EUE TAC @ 5,368.6' 8 Jts. of Tbg, 2 7/8" 6.7# (261.12') SN @ 5632.52' ID 2 1/4" (1.10") 1 jts 2 7/8" 6.5#/R EUE ( 32.48 ft.) B-MA EOT 5697.63' Mud Anchor perf'd with tapped Bull Plug Surface Location: 2340' FNL - 1110' FWL Lease #: NOG 8707-1163 / Navajo Tribal	<b>Rod Detail</b> 1 1/2" x 26' polish rod 72 - 1" D Rods 72 - 7/8" D rods 82 - 3/4" D rods Pump: 2-1/2" x 1-1/4" x 14' x 18' RHAC-Z
--	--

PU Lufkin C640-305-120", Ajax DP60, 5-hole, top long stroke, 5.5 SPM



**MISCELLANEOUS**

RIM WIP:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

**CAPACITIES**

Tubular Cap.	Bbl/ft	Ft3/ft
	Tubing	0.00579
Casing (15.5 #/R)	0.02380	0.13380
Annular Cap.	Bbl/ft	Ft3/ft
	Tbg x Csg (15.5 #/ft)	0.01580
Csg x Open Hole	0.03090	0.17320

**TUBULAR GOODS PERFORMANCE**

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.950	4.825
2-7/8", 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: kjk  
 Date: 01/09/03  
 Updated: 07/30/08

Anasazi #1  
NW NE sec 5 Twp 42S Rge 24E  
San Juan, CO Utah

- 7/16/08: RU Service Rig, Unseat pump. Hot Oil down Tubing with 30 bbls oil. POOH w Rods Drop Standing Valve pressure test tubing to 1500 psi. 5 min 1125 psig, 10 min 825 psig, 15 min 600 psig. SDFN
- 7/17/08 Fish Standing valve fluid level at surface. RU BOP's. POOH with 2 stands tbg. Rig broke down. Main shaft on draw works turned over keyway. Mechanic and welder on location pulled off chain drive, changed out keyway. Draw works repaired. SDFN
- 7/18/08 Crew on location fill draw works chain drive with 50 weight oil. Pull out of hole with tubing. RU Jet West Perforators Trip in hole tag TD at 5705 ft. Correlated to Schlumberger log dated 1/6/1990. Perforated 4 spf from 5442' to 5450' 4spf - 3 1/8" csg gun 12 gram .34" holes. Unable to determine fluid level. Appears to be small amount of gas increase. Trip in hole with bit and casing scraper to 5703'. RU Key Pumping services. Pump 35 bbls xylene from 5703 to 4230'. POOH with bit and csg scraper. Left 10 stands hanging in hole. SDFN.
- 7/19/08 TOO H w/ 10 stands. MU BHA Bridge plug (RBP) 5 1/2 TS-RBP, retrieving tool, pup, packer 5 1/2 AS-1X. TIH. Set RBP at 5700' Set Packer at 5673'. Unable to fill tubing to pressure test. Reset packer at 5679'. Still unable to fill tubing to pressure test. Unset packer TIH unset Bridge plug. TAG bottom. Tally 6 ft off Depth. Pick up 5 ft set RBP at 5700'. Pick up 5 ft set Packer pressure test tubing to 2000 psi. Unseat packer reset packer at 5637'. Treat perforations 5646' - 5670' with 20 % HCL & 3% mutual solvent 1200 gals and 35 bbls flush. Zone treated at 8.3 bpm at 344 psi. ISIP 0 well on vacuum. Unset packer, TIH unset RBP, POOH set RBP at 5637' set packer at 5549'. Treat perforations 5574' - 5630' with 2800 gals 20 % HCL & 3% mutual solvent. Zone treated at 8.3 bpm at 344 psi. ISIP 0 psi well on vacuum. TIH unset RBP. Reset RBP at 5470' and set packer at 5414'. Treat new Ismay perforation 5442' - 5450' with 1680 gals 20 % HCL & 3% mutual solvent. Pumped 40 bbls acid Hit pressure at with 27.7 bbls pumped. Pumping at 2.8 bpm at 3807 psi. 9.5 bbls in formation. Lost tubing pressure, casing on vacuum. Pull out of looking for hole. Found hole at 3753' tubing split on rod cut. Replace joint. TIH and reset packer at 4790'. Displaced acid with 43 bbls 2 % KCL pumped 16.6 bbls hit pressure finished displacement at 2.5 bpm treating pressure at 3417 psi. ISIP 3095, 5 min 1124, 10 min 459' and 15 min 115 psi. Unseat packer. RU to swab. SDFN
- 7/20/08 RU to swab perms 5442 - 5450'. Tubing hung 4790'. TP 0 psi, Csg. Press. 14 psi. Initial FL 2400'. Load to Recover 107 bbls. Pulled 25 swabs FL constant at between 2300' and 2600 ft. Csg Pressure increased to 77 psi. Oil cut increased after swab 16 and recovering 100 bbls load. Swab 21 was 100% oil. Recovered 23 bbls oil, from 2:30 to 4:00 pm after turning well to tank battery. Total recovery 30 bbl oil and 122 bbls water. SDFN
- 7/21/08 Crew on location. TP = 0 CP= 200 psi, FL 2600' Pull Swab to tank battery, Rec 6 bbls oil. Blew Csg down to tank battery then leave open to pit. Blew down in 5 min. RIH and unseat bridge plug at 5470'. POOH w/ packer and bridge plug. Well flowing up tubing at

12 -16 psi. Wait on pump truck, to kill well. Pump 10 bbls 2% KCL water down csg. And then trickle stream. POOH with 17 stands. Pump total 30 bbls. MU bottom hole pumping assembly. Tapped Bull plug (EOT- 5697.63), MA, 1 jt 2 7/8" EUE, SN (5632'), 4 stands, TA (5368.6'). Pump 15 bbls. fluid to deaden well then trickle in to keep well from flowing. Finish in hole. Land tubing and pump 10 bbls down csg. to RD BOP's. SDFN

- 7/22/08 Crew on location. TP= 5 psi, CP=35 psi, RIH w/ 2 1/2" x 1 1/4" x 14' x 18' RHAC-Z pump 82 - 3/4" rods, 72 - 7/8" rods, 72 - 1" rods, Wait on 6 ft' pony to space out. RU 1 1/2" x 26" polish rod, replace stuffing box. Fill tubing with water and pump up to 500 psig. No leaks good pump action. Begin pumping at 12:00 noon. Job Complete turn over to pumper.
- 7/23/08 Production: Oil - 38 bbls, water - 36 bbls, recovered all water used to load well. 16 1/2 hrs production. (4.48 bbls/hr)
- 7/24/08 Production: Oil - 72 bbls, water - 5 bbls, no gas sales, 25.5 hrs pumping ( 3.0 bbls/hr). Beam Compressor Not hooked up. Lowered well 5 1/2" no tag. Will lower further today to get a light tag and hook up beam compressor.
- 7/25/08 Production: Oil - 88 bbls, Water - 13 bbls, Gas - 65 mcf, TP: 50 psi CP: 0 psi, 24 hrs pumping ( 4.2 bbls/hr) Beam compressor hooked up, light tag. Check valve on casing was jammed open production was leaking by.
- 7/26/08 Production Oil - 75.13 bbls, Water - 2.5 bbls, Gas 57 mcf, TP: 50 psi, CP: 0 psi 24 hrs ( 3.23 bbls/hr)
- 7/27/08 Production Oil - 71.87 bbls, Water - 6.87 bbls, Gas 53 mcf, TP: 50 psi, CP 0 psi 24 hrs (3.28 bbls/hr)
- 7/28/08 Production Oil - 56 bbls, Water - 5 bbls, Gas 53 mcf, TP: 50 psi, CP 0 psi 24 hrs (2.54 bbls/hr)
- 7/29/08 Production Oil - 58 bbls, Water 5 bbls, Gas 52 mcf, TP; 50 psi, CP -1 psi 24 hrs ( 2.625 bbls/hr)
- 7/30/08 Production Oil - 52 bbls, Water 6 bbls, Gas 51 mcf, TP: 50 psi, CP: -1 psi 24 hrs ( 2.375 bbls/hr) Increased TP: 70 psi.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

FORM APPROVED  
OMB No. 1004-0135

5. Lease Serial No. 8707-1162  
NOG 8702-1163

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

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
Anasazi #1

9. API Well No.  
43-037-31478

10. Field and Pool, or Exploratory Area  
Greater Aneth

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

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)  
2340-6K  
2430  
(2340 FNL - 1,110' FWL) NW NE sec 5 T 42S R 24E

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 <u>Return to production</u>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal		

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

Returned to sales on Friday, August 29, 2008

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

Kenneth J Kundrik

Title

Operations Engineer

Signature

*Kenneth J Kundrik*

Date

9/2/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Office

Date

SEP 09 2008  
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-OLD*

RECEIVED  
SEP 25 2008

DIV. OF OIL, GAS & MINING



RECEIVED

Form 3160-5  
(April 2004)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Farmington Field Office  
Bureau of Land Management

SEP 30 2010

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 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)  
 (2340' FNL - 1110' FWL) NW NE Sec 5 T 42S R 24E

5. Lease Serial No.  
 NOG 8707-1162

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

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
 Anasazi #1

9. API Well No.  
 43-037-31478

10. Field and Pool, or Exploratory Area  
 Greater Aneth

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

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon	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 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 Monday, September 13, 2010.

RECEIVED

OCT 18 2010

DIV. OF OIL, GAS & MINING

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

Name (Printed/ Typed)    Title

Kenneth J Kundrik    Operations Engineer

Signature *Kenneth J. Kundrik*    Date    9/14/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE    ACCEPTED FOR RECORD

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    FARMINGTON FIELD OFFICE

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

OCG - Utah

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

**ROUTING**  
 CDW

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

Operator Name Change/Merger

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

**8/1/2012**

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

**CA No.**

**Unit:**

**N/A**

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

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

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

**DATA ENTRY:**

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

**BOND VERIFICATION:**

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

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

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

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

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>11042</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo</b>
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>Anasazi #1</b>	
2. NAME OF OPERATOR: <b>Navajo Nation Oil and Gas Company N2550</b>		9. API NUMBER: <b>43-037-31478</b>
3. ADDRESS OF OPERATOR: <b>P. O. Box 5069 Window Rock STATE AZ ZIP 86515</b>	PHONE NUMBER: <b>303-534-8300</b>	10. FIELD AND POOL, OR WILDCAT: <b>Greater Aneth</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>2340 FNL &amp; 1110 FWL</b>		COUNTY: <b>San Juan</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SW NW sec. 5 T42S R24E</b>		STATE: <b>UTAH</b>

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

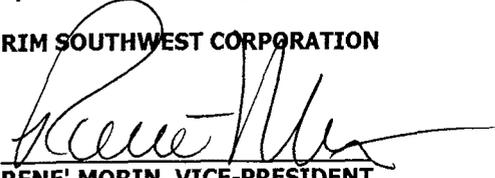
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input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

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

**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**  
N1715

Bond No. **RLB0006712**

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

(This space for State use only)

**APPROVED**

DEC 11 2012

RECEIVED  
SEP 19 2012

(5/2000)

DIV. OIL GAS & MINING (See Instructions on Reverse Side)  
BY: Raehele Medina

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> NOG-8702-1162
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7.UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> ANASAZI 1
<b>2. NAME OF OPERATOR:</b> NAVAJO NATION OIL & GAS CO	<b>9. API NUMBER:</b> 43037314780000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 4439 , Window Rock, AZ, 86515	<b>PHONE NUMBER:</b> 303 534-8300 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2340 FNL 1110 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 05 Township: 42.0S Range: 24.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH  <b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/24/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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**  
**FOR RECORD ONLY**  
 December 31, 2012

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



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

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

**NAVAJO NATION OIL & GAS COMPANY**

**EXPLORATION & PRODUCTION LLC**

1675 Broadway, Suite 1100 • Denver, Colorado • 80202

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



September 18, 2012

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

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

RE: Change of Operator Name and Address for Wells

Dear Rachel,

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

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

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

The name and address change is as follows:

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

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

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

Sincerely,

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

Katie Hynes  
Associate Landman

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See Attached</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo Nation</b>
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>See Attached</b>
2. NAME OF OPERATOR: <b>Navajo Nation Oil &amp; Gas Co.</b>		9. API NUMBER: <b>Various</b>
3. ADDRESS OF OPERATOR: 1675 Broadway, Suite 1100 CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		10. FIELD AND POOL, OR WILDCAT: <b>Various</b>
PHONE NUMBER: <b>(303) 534-8300</b>		
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>See Attached List</b>		COUNTY: <b>San Juan</b>
QTR/QTR, 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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

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

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

The new Entity is:

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

NEW DOGM No. : 3930

Bond No. RLB0006712

Effective: July 10, 2010

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

(This space for State use only)

DEC 3 1 2012

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.

5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See Attached</b>
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Navajo Nation</b>
7. UNIT or CA AGREEMENT NAME:
8. WELL NAME and NUMBER: <b>See Attached</b>
9. API NUMBER: <b>Various</b>
10. FIELD AND POOL, OR WILDCAT: <b>Various</b>

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____
2. NAME OF OPERATOR: <b>Navajo Nation Oil &amp; Gas Co</b>
3. ADDRESS OF OPERATOR: P.O. Box 5069 CITY Window Rock STATE AZ ZIP 86515
PHONE NUMBER: <b>(303) 534-8300</b>

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

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

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

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

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

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

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

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

*Effective: Aug 1, 2012*

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

**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> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> NOG-8702-1162
---	--

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> NAVAJO  <b>7. UNIT or CA AGREEMENT NAME:</b>
--	--

<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> ANASAZI 1
------------------------------------	--

<b>2. NAME OF OPERATOR:</b> NNOGC EXPLORATION & PRODUCTION, LLC	<b>9. API NUMBER:</b> 43037314780000
--	---

<b>3. ADDRESS OF OPERATOR:</b> 1625 Broadway, Suite 1000 , Denver , CO, 80202	<b>PHONE NUMBER:</b> 303 910-9525 Ext	<b>9. FIELD and POOL or WILDCAT:</b> GREATER ANETH
--	--	---

<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2340 FNL 1110 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 05 Township: 42.0S Range: 24.0E Meridian: S	<b>COUNTY:</b> SAN JUAN  <b>STATE:</b> UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>4/7/2015</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>

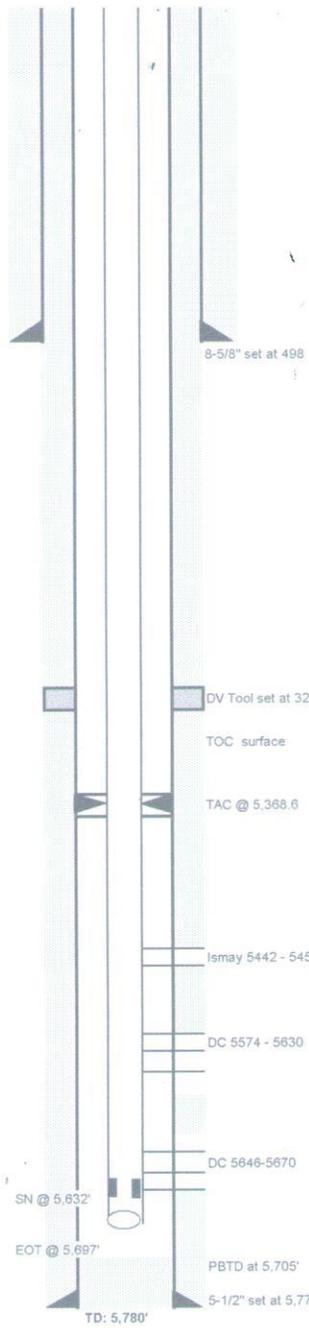
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

NNOGC will clean out an Acidize as follows: 1. Inspect dead man anchors and location for hazards JSA 2. Spot rig in on location and rig up rig according to rig up procedure. 3. TOO H with rod and pump if present (Hot oil if necessary). 4. Nipple up 5k BOPS; pressure test lines from rig pump BOPE or master valve. a. TOO H with rods & tbg. b. If tbg is stuck free-point and cut tbg – TOO H – TIH with overshot and jars – fish tbg. 5. TIH with bit, scraper and bailer to PBTD, TOO H a. TIH with pkr – set pr above perms pull 1 jt and set pkr.. . Pump 1500 gal HCL into perms and let sit for 24 hrs. – let acid set overnight – swab – 6. TIH with pump and rods – Space out pump 7. Place well on production.

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

Date: April 13, 2015  
 By: *Derek Duff*

<b>NAME (PLEASE PRINT)</b> Timothy Phillips	<b>PHONE NUMBER</b> 505 599-6060	<b>TITLE</b> Petroleum Engineer
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/6/2015	



WELL: Anasazi #1 COUNTY: San Juan / API #: 43-037-31478  
 FIELD: Aneth STATE: UT SPUD DATE: 12/12/89  
 FORMATION: Desert Creek LOCATION: NW NE, Sec. 5, T42S-R24E  
 TD: 5,780' PBTD: 5,705' ELEVATION: GL= 4776', KB=4792'

**CASING RECORD**

**SURFACE CASING**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	ST&C	Surface	498	11	12-1/4"	360	Surface

**PRODUCTION CASING**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5775	140	7-7/8"	1st Stg=890	NA
							DV tool	3,265'	2nd Stg=1510'
									surface

**LINER**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

**TUBING**

O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.
2-7/8"	6.5#	J-55	8 rd	Surface	5765	187	4-3/4"

**PERFORATION RECORD**

DATE	TOP	BOTTOM	SPF	ZONE	STATUS
01/09/90	5,574'	5,630'	4	D. Creek	Open
01/08/90	5,646'	5,670'	2	D. Creek	Open
07/18/08	5,442'	5,450'	4	Ismay	Open

**TREATMENT**

- Interval 5646 - 5670 perf 2 jspf, treated w/ 4800 gal 28% MSR -1, 5 bpm @ 1200 psi  
 - Interval 5574 - 5630 perf 4 jspf, treated w/ 22,200 gal 28% MSR - Interval was perf twice and stimulated twice the second treatment 5.2 bpm @ 2150 psi 122 balls dropped  
 ISIP 1320, 5 min - 910, 15 min - 460psi  
 Recompletion July, 2008  
 Restimulate 5646 - 5670 - 1200 gal 20% HCL & 3% Mutual Solvent  
 Restimulate 5574 - 5630 - 2800 gal 20% HCL & 3% Mutual Solvent  
 Perf Ismay 5442' - 5450 32 shots Stimulate 1650 gal 20% HCL & 3% Mutual Solvent  
 Last Pump Change shown was 6/14/06

**REMARKS**

<b>Tubing Detail (14 ft KB 11 from floor)</b> 164 Jts. of 2-7/8", 6.5#/ft J-55 EUE TAC @ 5,368.6' 8 Jts. of Tbg, 2 7/8" 6.7# (261.12') SN @ 5632.52' ID 2 1/4" (1.10') 1 jts 2 7/8" 6.5#/ft EUE (32.48 ft.) B-MA EOT 5697.63' Mud Anchor perf'd with tapped Bull Plug Surface Location: 2340' FNL - 1110' FWL Lease #: NOG 8707-1163 / Navajo Tnbal	<b>Rod Detail</b> 1 1/2" x 26' polish rod 72 - 1" D Rods 72 - 7/8" D rods 82 - 3/4" D rods Pump: 2-1/2" x 1-1/4" x 14' x 18' RHAC-Z
--	--

PU Luffin C640-305-120", Ajax DP60, 5-hole, top long stroke, 5.5 SPM

**MISCELLANEOUS**

RIM Wt%:	
BHT:	
BHP:	
EST SITP:	
LOGS:	

**CAPACITIES**

Tubular Cap.	Bbl/ft	Ft3/ft
	Tubing	0.00579
Casing (15.5 #/ft)	0.02380	0.13360

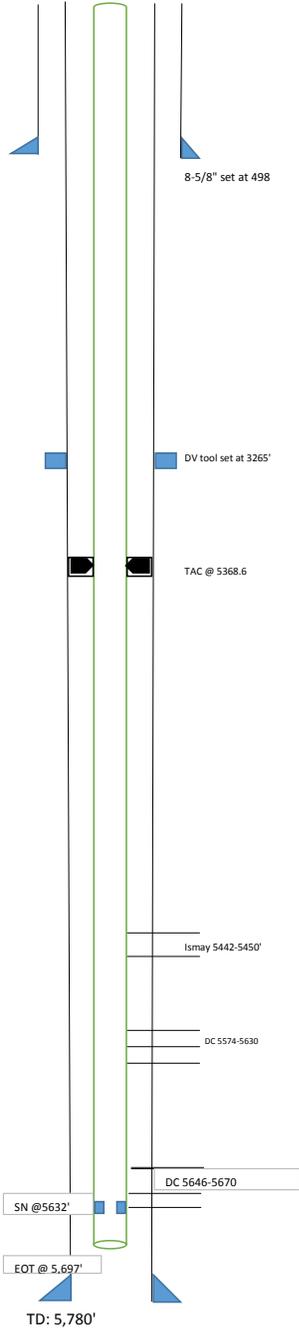
Annular Cap.	Bbl/ft	Ft3/ft
	Tbg x Csg (15.5 #/ft)	0.01580
Csg x Open Hole	0.03090	0.17320

**TUBULAR GOODS PERFORMANCE**

Material	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID (in)	Drift (in)
5-1/2", 15.5# J-55 ST&C	217,000	4,810	4,040	4.960	4.825
2-7/8" 6.5# J-55 8rd Coupling OD = 3.668"	99,660	7,260	7,680	2.441	2.347

Prepared By: kjk  
 Date: 01/09/03  
 Updated: 07/30/08





WELL: Anasazi #1	COUNTY: San Juan / API #: 43-037-31478
FIELD: Aneth	STATE: UT SPUD DATE: 12/12/89
FORMATION: Desert Creek	LOCATION: NW NE, Sec. 5, T42S-R24E
TD: 5078'	PBTD: 5075' ELEVATION: GL= 4776', KB= 4792'

CASING RECORD									
SURFACE CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
8-5/8"	24.0#	J-55	ST&C	Surface	498	11	12-1/4"	360	Surface

PRODUCTION CASING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
5-1/2"	15.5#	J-55	LT&C	Surface	5775	140	7-7/8"	1st stg= 890	N/A
							DV tool	3,265'	2nd stg=1510

Liner									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.

TUBING									
O.D.	WT./FT.	GRADE	THD	TOP	BTM	NO. JTS.	BIT SZ.	SX CMT.	TOP CMT.
2-7/8"	6.5#	J-55	8 RD	Surface	5765'	187	4-3/4"		

PERFORATION RECORD						
DATE	TOP	BOTTOM	SPF	ZONE	STATUS	
01/09/90	5,574'	5,630'	4	D.Creek	Open	
01/08/90	5,646'	5,670'	2	D.Creek	Open	
07/18/08	5,442'	5,450'	4	Ismay	Open	

**TREATMENT**

>Interval 5646 - 5670 perf 2 jsfp, treated w/ 4800 gal 28% MSR -1, 5 bpm @ 1200 psi  
 >Interval 5574 - 5630 perf 4 jsfp, treated w/ 22,200 gal 28% MSR - Interval was perf twice and stimulated twice the second treatment 5.2 bpm @ 2150 psi 122 balls dropped  
 ISIP 1320, 5 min - 910, 15 min - 480 psi  
**Recompleted July, 2008**  
 Restimulate 5646 - 5670 - 1200 gal 20% HCL & 3% Mutual Solvent  
 Restimulate 5674 - 5630 - 2800 gal 20% HCL & 3% Mutual Solvent  
 Perf Ismay 5442' - 5450' 32 shots Stimulate 1650 gal 20% HCL & 3% Mutual Solvent  
**Restimulated April, 2015**  
 Restimulate 5670 - 5630 - 1500 gal 15% HCL & 3% Mutual Solvent  
 Pump was changed on 4-10-2015

**REMARKS**

<b>Tubing Detail (14 ft. KB 11 ft from floor)</b> 164 jts. of 2-7/8", 6.5#/ft J-55 EUE TAC @ 5368.6' 8 jts. of tbg. 2-7/8" 6.7#/ft (261.12') SN @ 5632.5' ID 2 1/4" (1.10') 1 jts 2 7/8" 6.5#/ft EUE (32.48 ft.) B-MA EOT @ 5697.63' Mud anchor perf'd with tapped Bull Plug	<b>Rod Detail</b> 1 1/2" x 26' Polished rod 72 - 1" D Rods 72 - 7/8" D Rods 82 - 3/4" D Rods Pump: 2-1/2" x 1-1/4" x 14' x 18" RHAC-Z
---	--

**Surface Location:** 2340' FNL - 1110' FWL  
**Lease #:** NOG 8707-1163 / Navajo Tribal  
 PU Lufdin C640-305-120", Ajax DP60, 5 hole, top long stroke, 5.5 stk/min

MISCELLANEOUS	
RIM WIP:	
BHT:	
BHP:	
EST SITP:	
Logs:	

CAPACITIES		
Tubular Capacities		
	bb/ft	Ft <sup>3</sup> /ft
Tubing	0.00579	0.03250
Casing (5.5 #/ft)	.02380	0.13360
Annular Cap.	bb/ft	Ft <sup>3</sup> /ft
Tbg x csg (5.5 3/ft)	0.0158	0.0886
Csg x Open Hole	0.0309	0.1732

TUBULAR GOODS PERFORMANCE					
Material	Tensile (lbs)	Burst	Collapse	ID	Drift
5-1/5", 15.5# J-55 ST&C	217,000	4,810	4,040	4.95	4.825
2-7/8" 6.5# J-55 8rd	99.66	7.26	7,680	2.441	2.347

Prepared by: Tim Phillips  
 Updated: 4/10/2015

Sundry Number: 62688 API Well Number: 43037314780000

