



CHUSKA ENERGY COMPANY

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

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

RECEIVED
NOV 15 1990

DIVISION OF
OIL, GAS & MINING

13 November, 1990

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

Ref: Application for Permit to Drill
Brown Hogan 1A-2 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Brown Hogan 1A Well No. 2 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the topography of the area surrounding the desired location is such as to preclude the well being located in accordance with State requirements and yet remain in a position which will allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements on topographic grounds. Chuska Energy controls the acreage surrounding the proposed site, as indicated on the attached land plat.

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

Sincerely,

Larry G. Sessions
Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\APDCOVER

encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instruct on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

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 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Chuska Energy Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At Surface 1,230' FNL, 950' FEL
 At proposed prod. zone Same → NENE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
7 miles south of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
 (Also to nearest drig. unit line, if any) 950'

16. NO. OF ACRES IN LEASE 49,997
 18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2,098'
 19. PROPOSED DEPTH 5,707' GR AKAH

21. ELEVATIONS (Show whether OF, RT, GR, etc.)
4,957' GR

22. APPROX. DATE WORK WILL START
2-14-91

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl ₂
7 7/8"	5 1/2"	15.5 lb	5,707'	794 sx 'G', 65:35 Poz + 6% Gel

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
Brown Hogan 1A
 9. WELL NO.
2
 10. FIELD AND POOL, OR WILDCAT
Wildcat Desert Creek 350
 11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA
S2 T42S R23E
 12. COUNTY OR PARISH
San Juan
 13. STATE
Utah

Refer to attached 10-Point Drilling Plan etc.

RECEIVED
 NOV 15 1990
 DIVISION OF OIL, GAS & MINING

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. SIGNED [Signature] TITLE Petroleum Engineer DATE 13 November, 1990

(This space for Federal or state office use)

PERMIT NO. 43-037-31573 APPROVAL DATE _____ APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

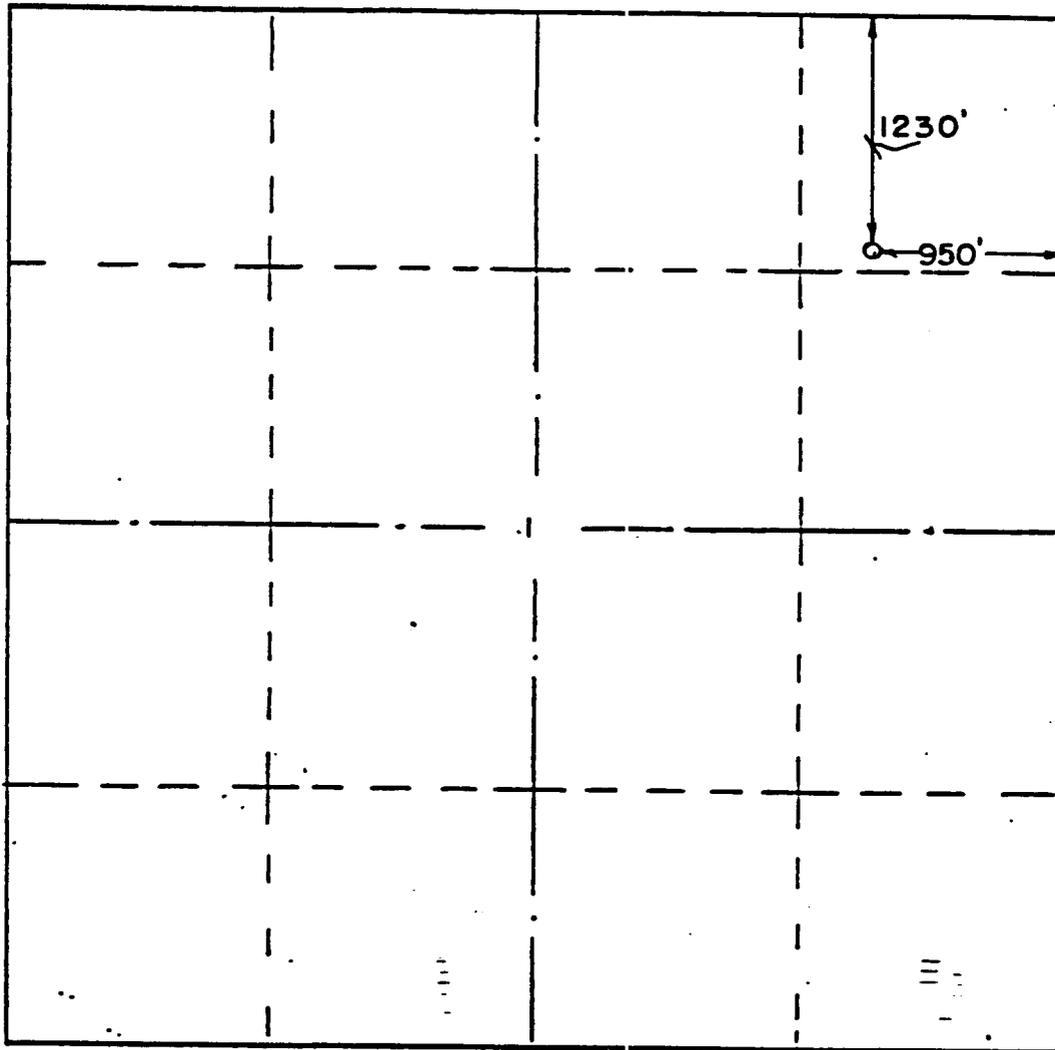
APPROVED BY _____ TITLE _____ DATE: [Signature] 11/26/90

CONDITIONS OF APPROVAL, IF ANY:

*(See Instructions On Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.
 WELL SPACING: Case No. 17 & R615-3-3

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Brown Hogan 1 - A - 2

1230'FNL & 950'FEL

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

San Juan, UT.

4957' ground elevation

State plane coordinates from seismic control:

x = 2,630,850 y = 190,497

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

31 October 1990

REGISTERED LAND SURVEYOR
No. 5705
Gerald G. Huddleston
GERALD G. HUDDLESTON
Gerald G. Huddleston, LS
STATE OF UTAH

DETAILED DRILLING PROGRAM

DATE: 13 November, 1990

WELL NAME: Brown Hogan 1A WELL NO.: 2

LOCATION: Section 2, Township 42S, Range 23E
1,230' FNL, 950' FEL
San Juan County, Utah

ELEVATION: 4,957' GR

TOTAL DEPTH: 5,707' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,503'.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.

9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at \pm 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Brown Hogan 1A Well No. 2
Section 2, Township 42S, Range 23E
1,230' FNL, 950' FEL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

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

PLUGGING AND ABANDONMENT

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

Brown Hogan 1A Well No. 2
Section 2, Township 42S, Range 23E
1,230' FNL, 950' FEL
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Montezuma Creek. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The majority of the road from the main road lies along existing seismic lines. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that less than 500' of new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

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

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

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

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 09-1724, (T64796).

6. SOURCE OF CONSTRUCTION MATERIALS

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

7. METHODS OF HANDLING WASTE MATERIAL

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on an east/west trend and will require up to 43' of cut in the reserve pit (up to 26' of cut in the western corner of the location pad) and up to 27' of fill in the eastern corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11.

OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87402
LARRY G. SESSIONS

12. CERTIFICATION

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

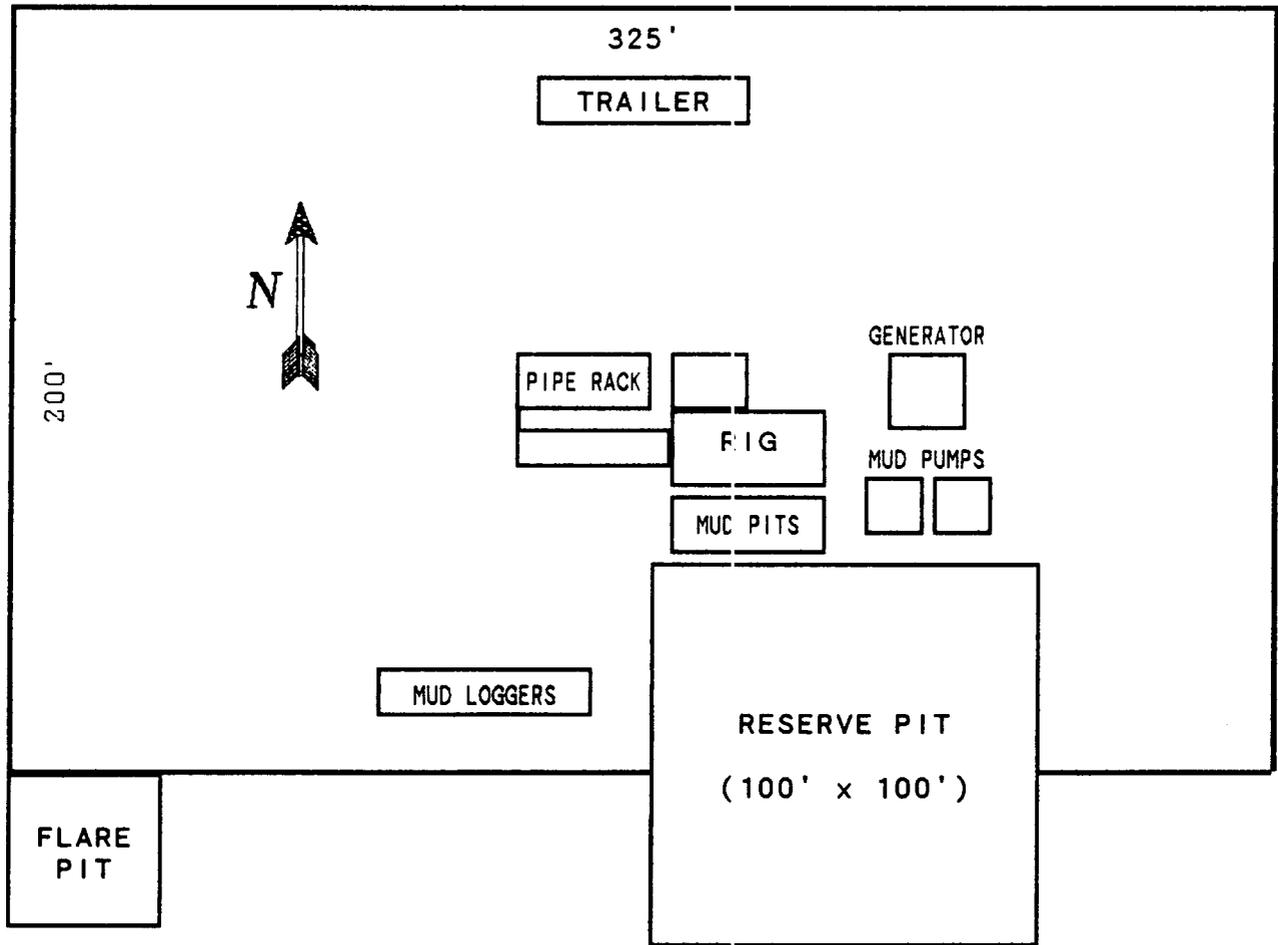
Larry G. Sessions
LARRY G. SESSIONS
Operations Manager

BROWN HOGAN 1A-2

1,230' FNL, 950' FEL

SECTION 2, TOWNSHIP 42S, RANGE 23E

SAN JUAN COUNTY, UTAH



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

CHUSKA ENERGY COMPANY

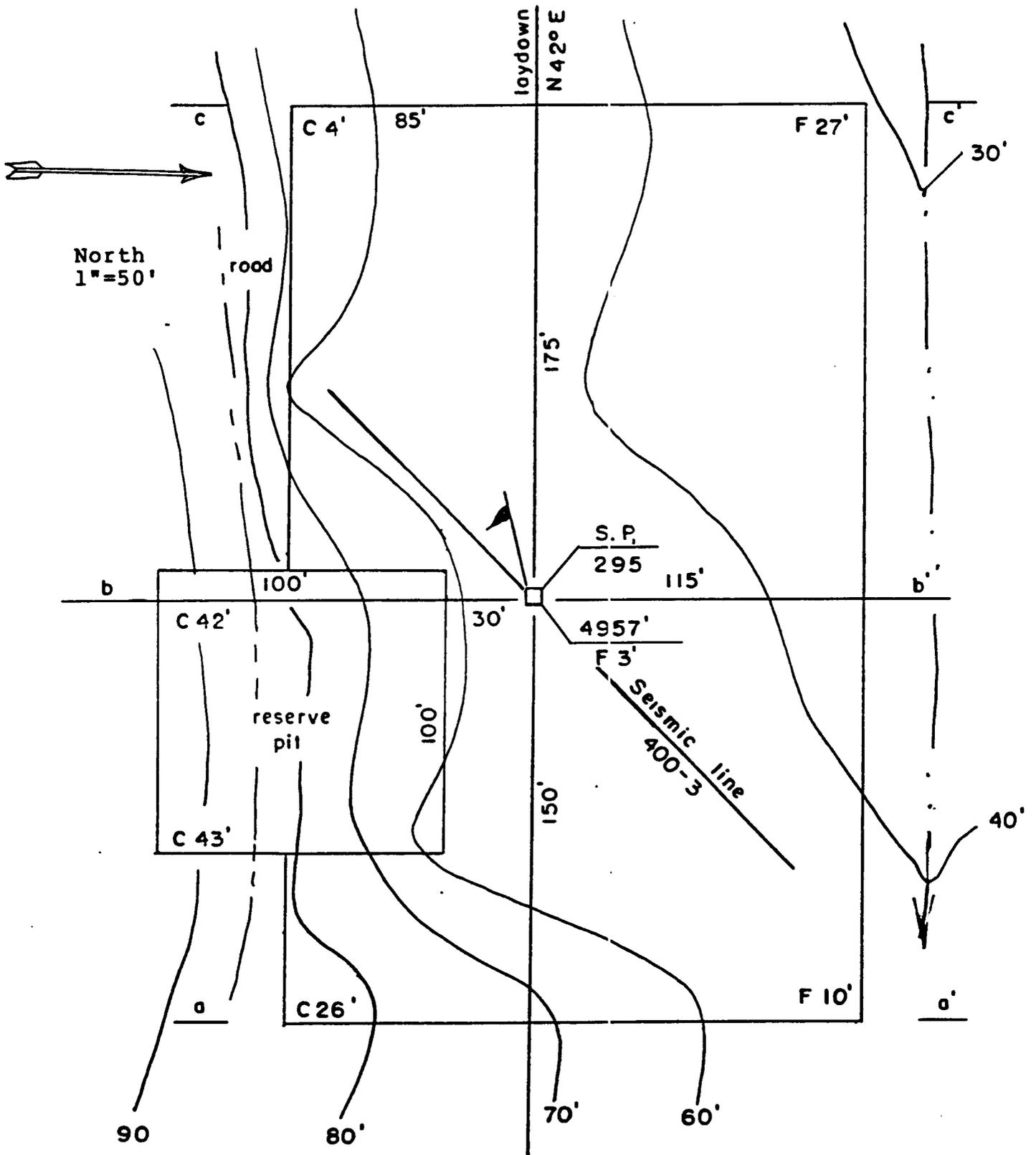
ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T42S-R23E, SAN JUAN COUNTY, UTAH

Plan View Sketch

Brown Hogan 1 - A - 2

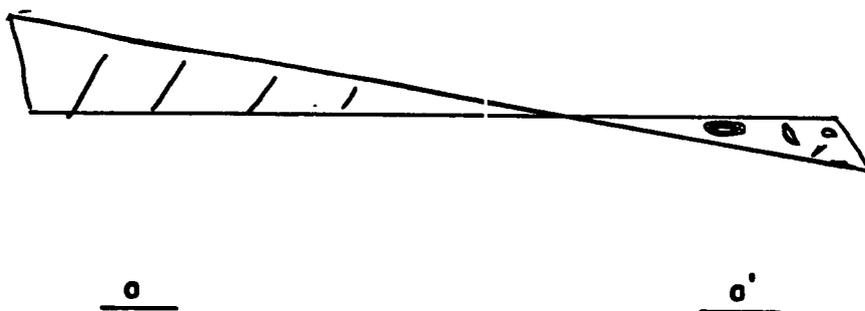
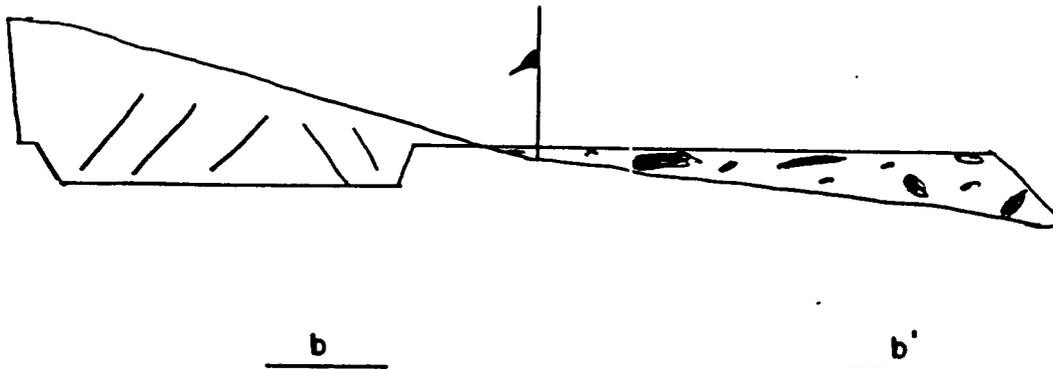


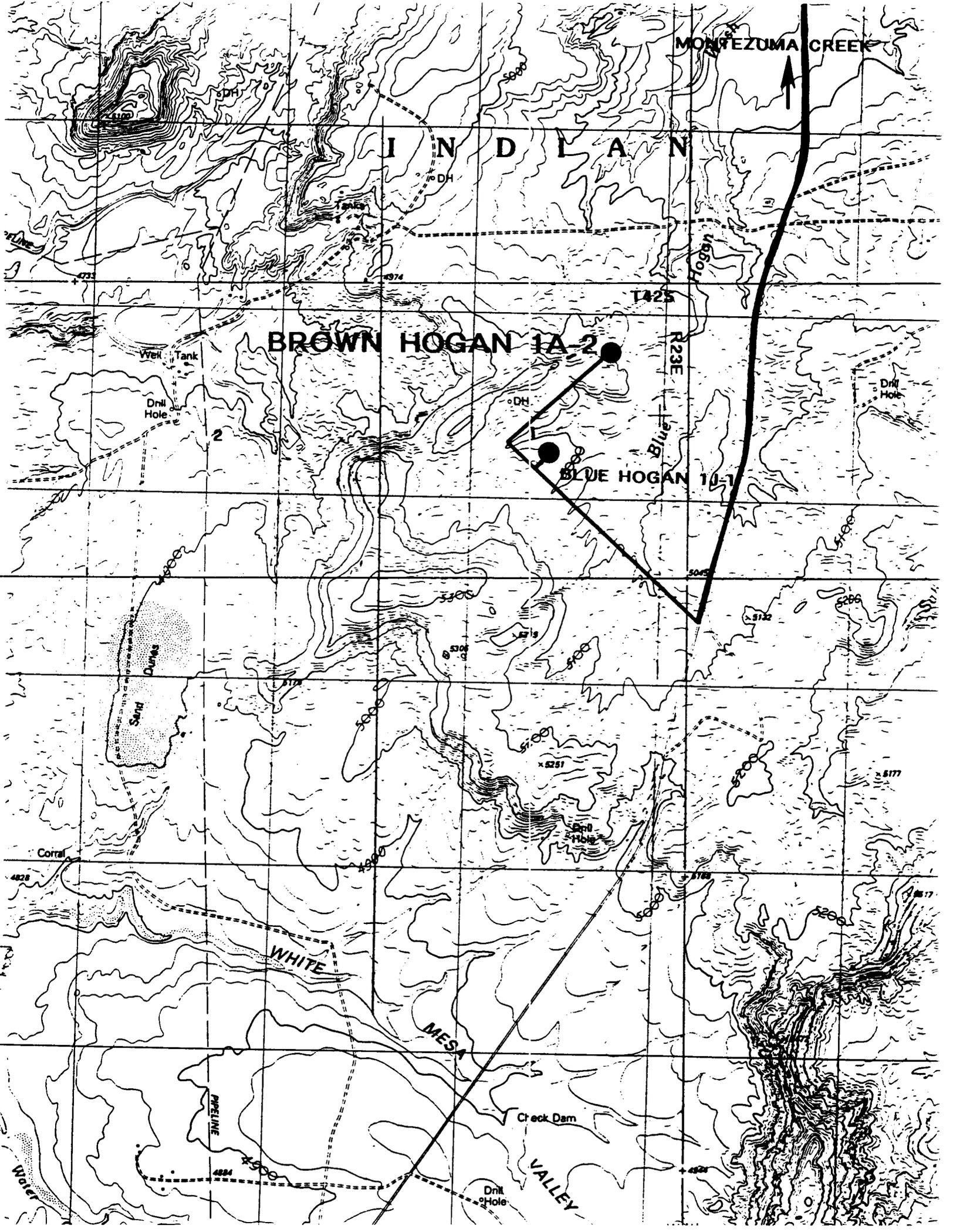
Cross Section

Brown Hogan 1 - A - 2

Cut 
Fill 

1"=50' Horz. & Vert.





CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Brown Hogan 1A Well No. 2
Section 2, Township 42S, Range 23E
1,230' FNL, 950' FEL
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,957' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>	
Surface	Morrison	+ 4,957'	
895'	Navajo	+ 4,062'	
1,655'	Chinle	+ 3,302'	
2,819'	DeChelly	+ 2,138'	
3,059'	Organ Rock	+ 1,898'	
3,791'	Cedar Mesa	+ 1,166'	
4,580'	Hermosa	+ 377'	
5,323'	Upper Ismay	- 366'	
5,437'	Lower Ismay	- 480'	
5,503'	Desert Creek	- 546'	Primary Objective
5,630'	Akah	- 673'	
5,707'	Total Depth	- 750'	

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	5,707'	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft³) Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D. to 3,500' (stage collar @ \pm 3,500'). Lead with 161 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 178 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 503 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole. WOC 4 hours between stages.

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

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

5. BLOWOUT PREVENTER (See attached schematics)

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

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

6. PROPOSED MUD PROGRAM

Surface to 4,500'

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

4,500' to T.D.

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

7. AUXILIARY EQUIPMENT

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

8. WELL EVALUATION

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

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 15 days. Anticipated spud date is 2-14-91.

EXHIBIT "A"
BLOWOUT PREVENTER

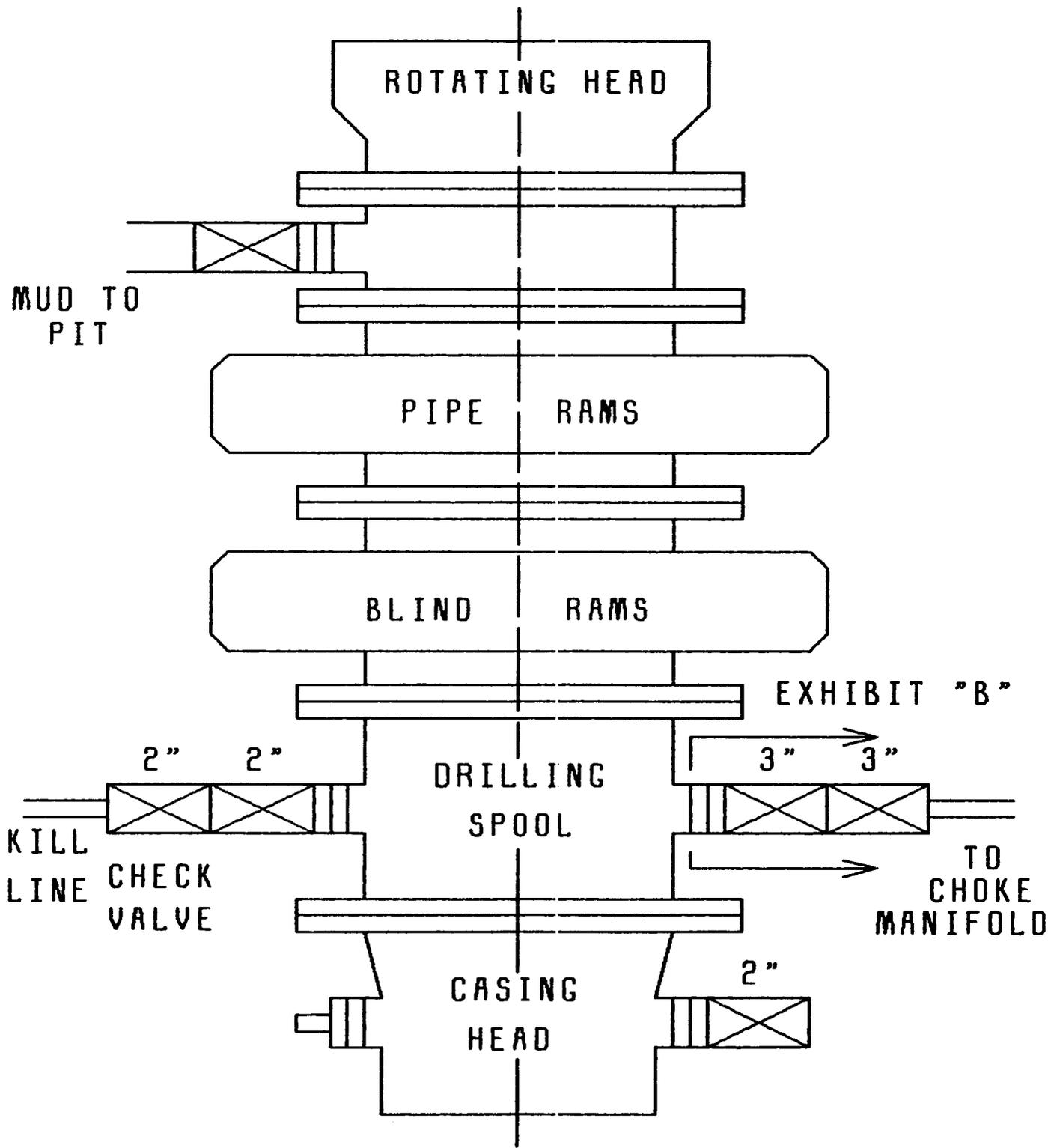
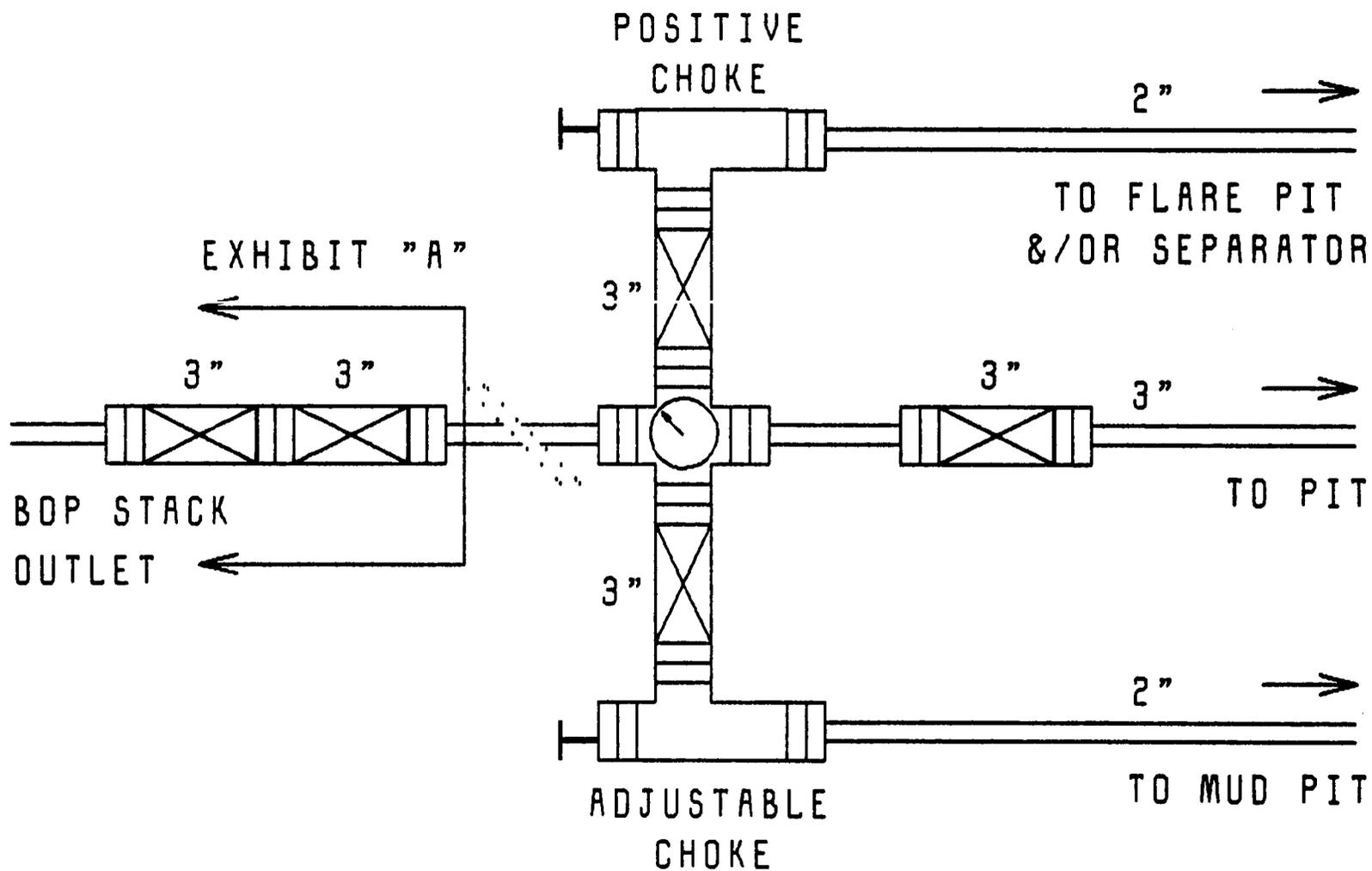


EXHIBIT "B"
CHOKE MANIFOLD



OPERATOR Cruska Energy Co (N-9090) DATE 11-00-90
WELL NAME Brown Hogan 1A #0
SEC NENE 01 T 405 R 023E COUNTY San Juan

43-037-31573
API NUMBER

Indian (0)
TYPE OF LEASE

CHECK OFF:

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> PLAT. | <input checked="" type="checkbox"/> BOND | <input checked="" type="checkbox"/> NEAREST WELL |
| <input checked="" type="checkbox"/> LEASE | <input checked="" type="checkbox"/> FIELD SL3M | <input checked="" type="checkbox"/> POTASH OR OIL SHALE |

PROCESSING COMMENTS:

Water Permit 09-1704 (T64796)
Exception Location

APPROVAL LETTER:

SPACING: R615-2-3 N/A UNIT R515-3-2
 17 0-04-00 CAUSE NO. & DATE R615-3-3

STIPULATIONS:

cc: BIA

CONFIDENTIAL
PERIOD
EXPIRED
ON 7-18-92



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

November 20, 1990

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

Gentlemen:

Re: Brown Hogan 1A #2 - NE NE Sec. 2, T. 42S, R. 23E - San Juan County, Utah
1230' FNL, 950' FEL

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

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

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

Page 2
Chuska Energy Company
Brown Hogan 1A #2
November 20, 1990

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

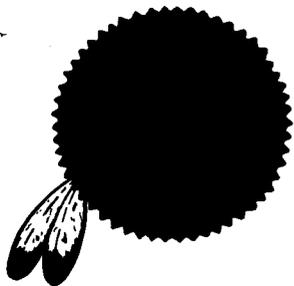
The API number assigned to this well is 43-037-31573.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

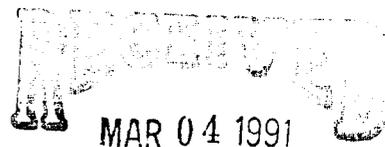
tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-6



CHUSKA ENERGY COMPANY

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

27 February, 1991



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

DIVISION OF
OIL, GAS & MINING

Ref: Sundry Notice: Brown Hogan 1A-2 Well
Change of Plans

Gentlemen

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

Please advise if you require additional information concerning this submission.

Sincerely,

Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\PLATSUN.CVR

encl.

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name
Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals

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

9. Well Name and Number
Brown Hogan 1A 2

2. Name of Operator
Chuska Energy Company

10. API Well Number
43-037-31573 *del*

3. Address of Operator
3315 Bloomfield Highway, Farmington, New Mexico 87401

4. Telephone Number
505-326-5525

11. Field and Pool, or Wildcat
Wildcat

5. Location of Well
Footage : 1,230' FNL, 950' FEL
QQ, Sec. T., R., M.: NE/4 NE/4 S2 T42S R23E

County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

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

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

In order to minimize the amount of cut required on the west side of the location, the reserve pit will be constructed long and narrow (150' x 50'), as indicated on the attached revised cut and fill plat.

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

DATE: 3-11-91
BY: [Signature]

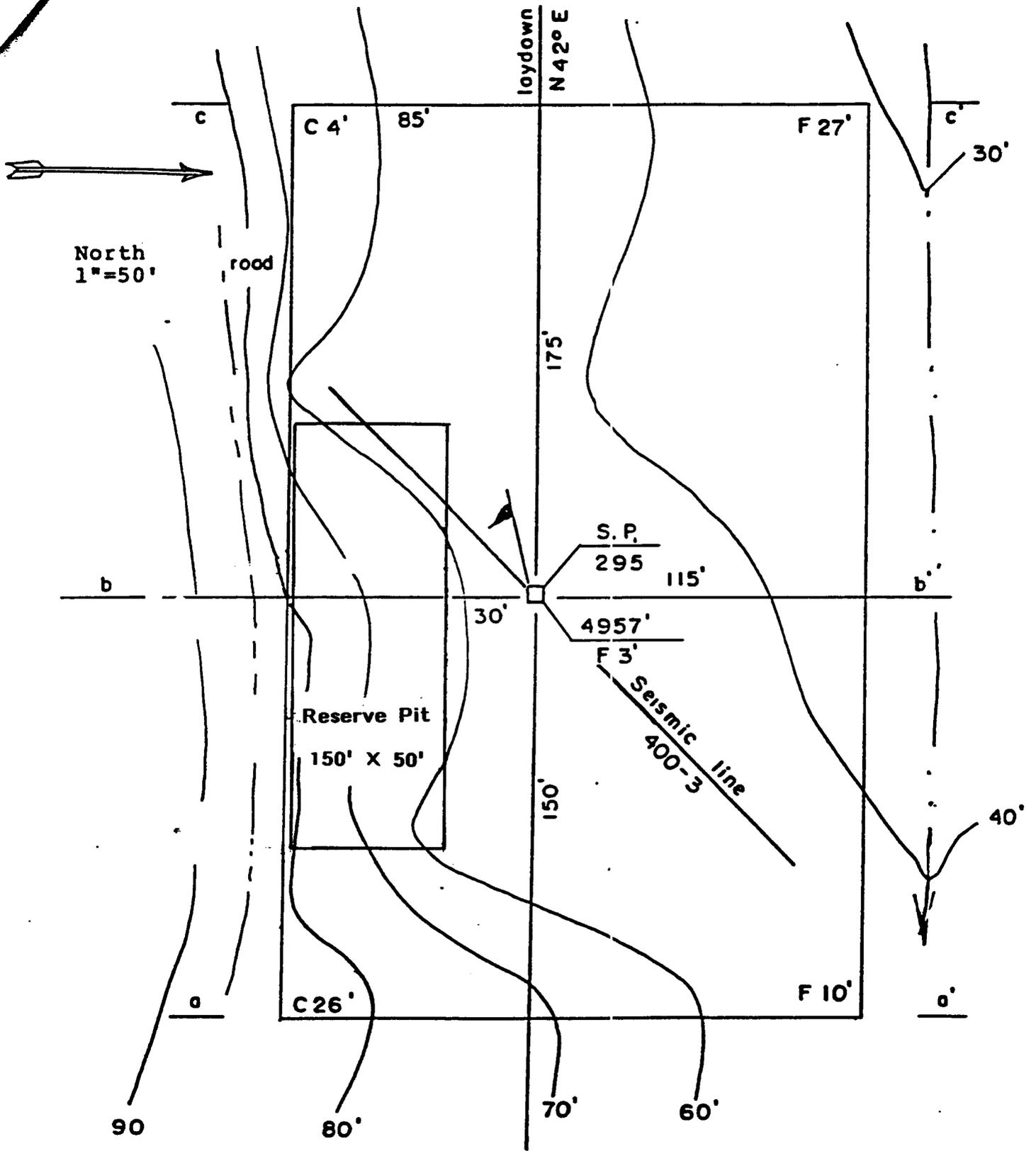
14. I hereby certify that the foregoing is true and correct
Name & Signature Christopher S.W. Hill [Signature]

Title Petroleum Engineer Date 27 Feb 91

(State Use Only)

Plan View Sketch

Brown Hogan 1 - A - 2



Cross Section

Brown Hogan 1 - A - 2

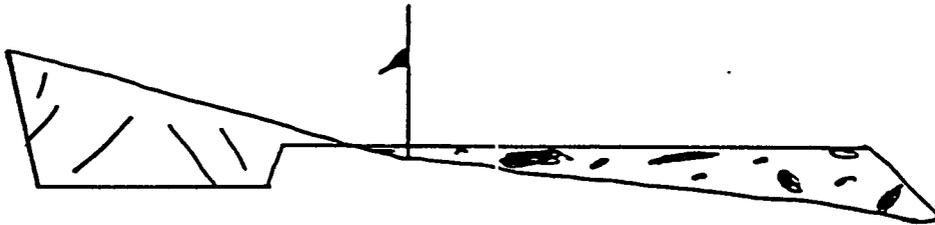
Cut 
Fill 

1"=50' Horz. & Vert.



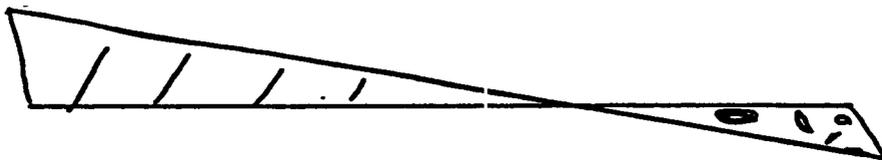
c

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b

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o

o'

WATER PERMIT OK

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API NO. 43-037-31573 *dl*

NAME OF COMPANY: CHUSKA ENERGY

WELL NAME: BROWN HOGAN 1-A2

SECTION NENE 2 TOWNSHIP 42S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 184

SPUDDED: DATE 3-17-91

TIME _____

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY GLENN GOODWIN

TELEPHONE # 587-2561

DATE 3-19-91

SIGNED

TAS



CHUSKA ENERGY COMPANY

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

18 March, 1991

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

RECEIVED

MAR 22 1991

DIVISION OF
OIL GAS & MINING

Ref: Sundry Notice: Brown Hogan 1A-2 Well
Spud/Set Surface Casing

Gentlemen

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

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\SPUDSUN.CVR

encl.

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Brown Hogan 1A 2
10. API Well Number 43-037-31573 <i>dl</i>
11. Field and Pool, or Wildcat Wildcat

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)		
2. Name of Operator Chuska Energy Company		
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401	4. Telephone Number 505-326-5525	5. Location of Well Footage : 1,230' FNL, 950' FEL QQ, Sec. T., R., M.: NE/4 NE/4 S T42S R23E
County: San Juan		State: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p style="text-align: center;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p style="text-align: center;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Spud/Set Surface Casing</u></td> <td></td> </tr> </table> <p>Date of Work Completion <u>3-18-91</u></p> <p><small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small></p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Spud/Set Surface Casing</u>	
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU Aztec Rig 184. Spudded 1130 hrs, 3-17-91. Drilled to 520'. Ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar. Landed at 520'. Cemented with 400 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 22 bbl slurry to pit. Plug down 0400 hrs, 3-18-91. Float held.

RECEIVED

MAR 22 1991

DIVISION OF
OIL GAS & MINING

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

Name & Signature	<u>Christopher S.W. Hill</u>	Title	<u>Operations Engineer</u>	Date	<u>18 Mar 91</u>
------------------	------------------------------	-------	----------------------------	------	------------------

(State Use Only)



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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

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

April 5, 1991

Mr. Don Barnes
Chuska Energy Company
3315 Bloomfield Highway
Farmington, New Mexico 87401

Dear Mr. Barnes:

Re: Request for Completed Entity Action Form *dlb*
Brown Hogan 1A #2 - NENE Sec. 2, T. 42S, R. 23E - San Juan County, Utah

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Brown Hogan 1A #2, API Number 43-037-31573, on March 17, 1991. At this time, we have not received an Entity Action Form for this well.

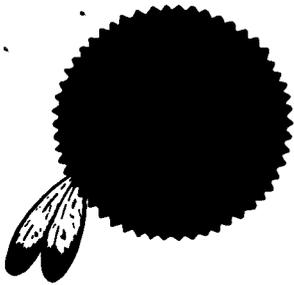
Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by April 17, 1991.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call Lisha Romero at the above number.

Sincerely,

Don Staley
Administrative Supervisor

lcr
Enclosure
cc: R. J. Firth
File
WE66/16
an equal opportunity employer



CHUSKA ENERGY COMPANY

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

2 April, 1991

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

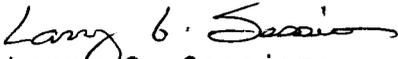
Ref: Sundry Notice: Brown Hogan 1A-2 Well
Production Casing

Gentlemen

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

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\PRCSGSUN.CVR

encl.

RECEIVED

APR 08 1991

DIVISION OF
OIL GAS & MINING

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Brown Hogan 1A 2
10. API Well Number 43-037-31573 <i>del</i>
11. Field and Pool, or Wildcat Wildcat

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	
2. Name of Operator Chuska Energy Company	
3. Address of Operator 3315 Bloomfield Highway, Farmington, NM 87401	4. Telephone Number 505-326-5525
5. Location of Well Footage : 1,230' FNL, 1950' FEL QQ, Sec, T., R., M.: NE/4 NE/4 S4 T42S R23E County : San Juan State : UTAH	

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ran 145 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe, float collar stage collar. Landed at 5,723'. Cemented in two stages, as follows:
 Stage 1: Lead with 383 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 207 sx Class 'G' with 2% CaCl₂ and 0.6% D-60.
 Stage 2: Lead with 798 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 100 sx Class 'G' with 2% CaCl₂. Circulated 22 bbl slurry to pit.

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

Name & Signature Christopher S.W. Hill  Title Operations Engineer Date 2 Apr 91

(State Use Only)

(8/90) See Instructions on Reverse Side

RECEIVED
APR 08 1991
DIVISION OF
OIL GAS & MINING



CHUSKA ENERGY COMPANY

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

11 April, 1991

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

Attn: Don Staley/Lisha Romero

Ref: Brown Hogan 1A-2 Well
Entity Action Form

Dear Sir/Madam

I refer to your letter of 5 April, 1991 (your reference WE66/16) requesting an entity action form for the subject well. I attach copies of the Sundry Notice and Form which were sent from this office on 18 March, 1991 but which, apparently, did not reach your office.

Please advise if you require additional information concerning this submission.

Your letter of 5 April, 1991 was addressed to Mr Don Barnes. Please be advised that Mr Barnes left Chuska's employment in May, 1990. Future correspondence should be addressed to either the undersigned or Mr Larry G. Sessions, Operations Manager.

Sincerely,

Christopher S.W. Hill
Operations Engineer

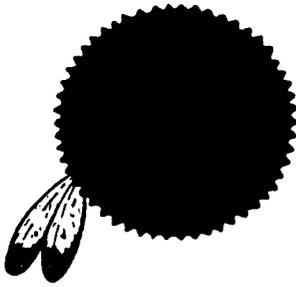
CSWH/cswH
File: C:\WP51\BRNHOGAN.1A\ENTITY2.CVR

encl.

RECEIVED

APR 15 1991

DIVISION OF
OIL GAS & MINING



CHUSKA ENERGY COMPANY

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

18 March, 1991

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

Ref: Sundry Notice: Brown Hogan 1A-2 Well
Spud/Set Surface Casing

Gentlemen

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Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\SPUDSUN.CVF

encl.

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APR 15 1991

DIVISION OF
OIL GAS & MINING

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11215	43-037-31573 ^{dl}	Brown Hogan 1A#2	NE/NE	1 2	42S	23E	San Juan	3-17-91	
WELL 1 COMMENTS: MIRU Aztec Rig 184. Spudded 1130 hrs, 3-17-91. <i>Indian-Lease Field-Desert Creek Unit-N/A</i> <i>Proposed Zone-Akah (Entity added 4-17-91) JCP</i>											
WELL 2 COMMENTS:											
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

APR 15 1991

DIVISION OF
OIL GAS & MINING

[Signature]

Signature _____
 Operations Engineer _____ 3-1891
 Title _____ Date _____
 Phone No. 505-326-5525

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name
Navajo Tribal

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11. Field and Pool, or Wildcat
Wildcat

County: San Juan
State: UTAH

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Chuska Energy Company

3. Address of Operator
3315 Bloomfield Highway, Farmington, New Mexico 87401

4. Telephone Number
505-326-5525

5. Location of Well
 Footage : 1,230' FNL, 950' FEL
 QQ, Sec. T., R., M.: NE/4 NE/4 S1 T42S R23E

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NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion 3-18-91

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
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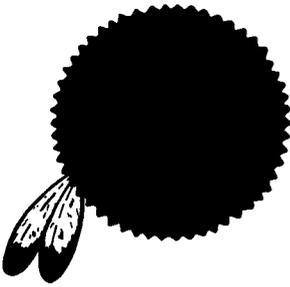
APR 15 1991

DIVISION OF
OIL GAS & MINING

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

Name & Signature Christopher S.W. Hill  Title Operations Engineer Date 18 Mar 91

(State Use Only)



CHUSKA ENERGY COMPANY

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

11 April, 1991

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

Attn: Don Staley/Lisha Romero

Ref: 43-037-21573
Brown Hogan 1A-2 Well
Entity Action Form
Sec. 2, T. 42S, R. 23E

Dear Sir/Madam

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Sincerely,

Christopher S.W. Hill
Operations Engineer

CSWH/cswH
File: C:\WP51\BRNHOGAN.1A\ENTITY2.CVR

encl.

RECEIVED

APR 15 1991

DIVISION OF
OIL GAS & MINING

*met
LKR
(turnaround
report)*

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

<p>IN THE MATTER OF THE REQUEST) FOR AGENCY ACTION OF HARKEN) SOUTHWEST CORPORATION FOR) THE DESIGNATION OF THE) MONUMENT 8-N-2, BLUE HOGAN) 1-J-1, BROWN HOGAN 1-A-2, LONE) MOUNTAIN CREEK 12-F-1, NORTH) HERON 35-C, AND MULE 31M WELLS) AS WILDCAT WELLS FOR) PURPOSES OF SECTION 59-5-102(2)(d)) OF THE UTAH CODE ANNOTATED,) SAN JUAN COUNTY, UTAH.)</p>	<p>ORDER DESIGNATING BLUE) HOGAN 1-J-1, BROWN HOGAN) 1-A-2, MULE 31M, AND LONE) MOUNTAIN CREEK 12-F-1 WELLS) AS WILDCAT WELLS)</p> <p style="text-align: center;">Docket No. 94-023 Cause No. 232-2(a)</p>
--	--

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

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

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

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

DATED this 23rd day of October, 1995.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING

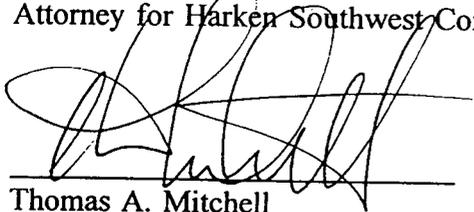


Dave D. Lauriski, Chairman

Approved as to form:



Thomas W. Clawson
Attorney for Harken Southwest Corporation



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



CHUSKA ENERGY COMPANY

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

19 April, 1991

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

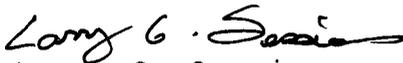
Ref: Sundry Notice: Brown Hogan 1A 2 Well
First Sale of Oil

Gentlemen

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

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\1OILSUN.CVR

encl.

RECEIVED

APR 22 1991

DIVISION OF
OIL GAS & MINING

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

6. Lease Designation and Serial Number
 NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

9. Well Name and Number
 Brown Hogan 1A 2

2. Name of Operator
 Chuska Energy Company

10. API Well Number
 43-037-31573

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

4. Telephone Number
 505-326-5525

11. Field and Pool, or Wildcat
 Wildcat

5. Location of Well
 Footage : 1,230' FNL, 950' FEL
 QQ, Sec, T., R., M.: NE/4 NE/4 S. T42S R23E

County : San Juan
 State : UTAH

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

NOTICE OF INTENT
 (Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
 (Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other First Sale of Oil | |

Date of Work Completion 4-18-91

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

* Must be accompanied by a cement verification report.

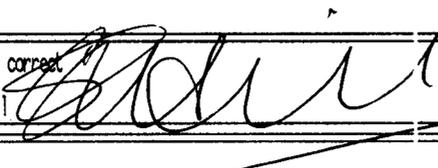
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First sale of oil from the subject well occurred on 4-18-91.

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

Name & Signature

Christopher S.W. Hill



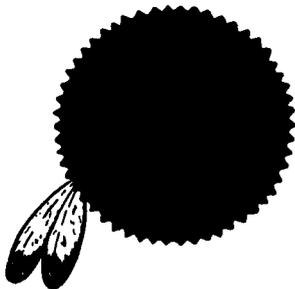
Title

Operations Engineer

Date

19 Apr 91

(State Use Only)



CHUSKA ENERGY COMPANY

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

May 17, 1991

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

Dear Ms. Kearney:

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

Thanks,

Herb

Herbert P. Mosca
Chuska Staff Geologist

RECEIVED

MAY 20 1991

DIVISION OF
OIL GAS & MINING

UTAH COMPLETIONS

FINAL CLASS: WF = UNSUCCESSFUL NEW FIELD WILDCAT; WFD = NEW FIELD DISCOVERY; WD = UNSUCCESSFUL DEEPER POOL WILDCAT; WDD = DEEPER POOL DISCOVERY; WS = UNSUCCESSFUL SHALLOWER POOL WILDCAT; WSD = SHALLOW POOL DISCOVERY; WP = UNSUCCESSFUL NEW POOL WILDCAT; WPD = NEW POOL DISCOVERY; WO = UNSUCCESSFUL WILDCAT OUTPOST; WOE = WILDCAT OUTPOST EXTENSION; D = UNSUCCESSFUL DEVELOPMENT WELL; DO = DEVELOPMENT OIL WELL; DG = DEVELOPMENT GAS WELL.

GRAND COUNTY

HANCOCK BURTON W 16-17S-25E
1 JO REVA-STATE SW NW SW
API 43-019-31305 1685 FSL 393 FWL
IC 430197000890

STATELINE; 3895 MORRISON, (FR 08/29/90DN) OPER ADD: BOX 989,
BILLINGS, MT, 59103 PHONE (406) 245-5077; EL: 5500 GR; LOCATION
DATA: 27 MI N-NE CIECO, UT; AMMANN BASE MAP UT-8, POMCO MAP U-53,

D

ABND LOC 07/09/91;

SAN JUAN COUNTY

YATES PET 7-37S-24E
3 SHANE FEDERAL SE SW NW
API 43-037-31475 2510 FNL 1020 FWL
IC 430377002089

UNNAMED; 6450 AKAH, (FR 10/03/89FM) OPER ADD: 207 4TH ST, ARTESIA,
NM, 88210 PHONE (505) 748-1331; EL: 5983 GR; LOCATION DATA: IRREG
SEC: 1/4 MI NW OF FLD(ISMAY U) 8 1/2 MI SE BLANDING, UT; AMMANN BASE
MAP UT-9, POMCO MAP U-74,

WO

ABND LOC 06/28/91;

CHUSKA ENERGY 33-39S-25E
1 NAVAJO CANYON 33-1 SW NE SE
API 43-037-31546 1420 FSL 950 FEL
IC 430377006990

UNNAMED; 6007 DESERT CREEK, (FR 08/02/90FM) OPER ADD: BOX 780,
FARMINGTON, NM, 87499 PHONE (505) 326-5525; EL: 4880 KB; GEOL: J
GORDON LOCATION DATA: 4 MI N ANETH GREATER FLD(DESERT
CREEK/ISMAY) 3 1/2 MI NW ISMAY-FLODINE FLD(ISMAY) 21 1/4 MI E-NE BLUFF,
UT; AMMANN BASE MAP UT-9, POMCO MAP U-74, WELL ID CHANGES:
WELL NAME CHGD FROM NAVAJO CANYON 331.

WFD
OIL

CONTR: ENERGY SEARCH DRLG, RIG #1; SPUD: 12/04/90, CSG: 8 5/8 @ 456 W/400 SX, 5 1/2 @ 5904 W/1610 SX; TBG: 2 7/8 @ 5633; LOG TYPES: BHCS 460-5898, CNL 4000-5902, CWL 5500-5902, DLL 460-5904, LDT 4000-5902, MSFL 460-5904; LOG TOPS: HERMOSA 4584, ISMAY U 5536, ISMAY L 5681, GOTHIC 5706, DESERT CREEK 5724, CHIMNEY ROCK 5848, AKAH 5870; CORE # 1 (DESERT CREEK) 5795-5826 REC: 31 FT, 31 FT DO LS, SH CORE # 2 (DESERT CREEK) 5826-5858 REC: 30 FT, 30 FT DO LS; DRLG COMMENTS: LOCAL CALL(LOG): HOVENWEEP 5674, 5905 TD, (DESERT CREEK) (TD REACHED: 12/ 28/90) BHT: 127F 5796 PBD RIG REL: 01/02/91; PROD TEST(S): PERF (DESERT CREEK), 5772-5789, 5798-5805, 5808-5817, 5825-5850, W/308 SHOTS, ACID (5772-5850) W/ 18000 GALS, 600 GALS 7 1/2% HCL 17400 GALS 28% MSR-100 STAGES 4, GAUGE NOT RPTD. PRODUCING INTERVAL(S) DATA: PERF (DESERT CREEK), 5625-5660, 5667-5835, 5694-5704, ACID (5625-5704) W/ 19450 GALS, 450 GALS 7 1/2% HCL 19000 GALS 28% MSR-100 STAGES 3, IP NOT RPTD. 5905 LTD, 5901 DTD, PI: 5796. COMP 2/1/91, SIOW. PROD ZONE - DESERT CREEK 5625-5704(GROSS). (DESERT CREEK DISCOVERY-NEW FIELD) WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

CHUSKA ENERGY 2-42S-23E
2 BROWN HOGAN 1A SW NE NE
API 43-037-31573 1230 FNL 950 FEL
IC 430377009590

DESERT CREEK; 5707, (FR 11/15/90DN) OPER ADD: BOX 780,
FARMINGTON, NM, 87499 PHONE (505) 326-5525; EL: 4971 KB; GEOL: BOBBY
WRIGHT LOCATION DATA: 1/4 MI S OF FLD(PARADOX) 13 MI SE BLUFF,
UT; AMMANN BASE MAP UT-9, POMCO MAP U-83,

WOE
OIL

CONTR: AZTEC WELL SRVCG, RIG # 184; SPUD: 03/17/91, CSG: 8 5/8 @ 520 W/400 SX, 5 1/2 @ 5723 W/1488 SX; LOG TYPES: BHCS 2500-5712, CNL 562-5716, CWL 5300-5716, DLL 562-5716, FDC 562-5716, MICL 562-5716, MSFL 562-5716; DRLG COMMENTS: LOG TOPS NOT RPTD. 5727 TD, (DESERT CREEK) (TD REACHED: 04/ 01/91) BHT: 130F; PRODUCING INTERVAL(S) DATA: PERF (PARADOX) INT NOT RPTD. PMPG OIL(AMT NOT RPTD), 5719 LTD, 5718 DTD. COMP 4/18/91, OIL WELL. PROD ZONE - PARADOX(INT NOT RPTD). (PARADOX EXTENSION) WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

CHUSKA ENERGY 12-42S-23E
1 BEAVER 12L SW NW SW
API 43-037-31565 1620 FSL 25 FWL
IC 430377007590

WILDCAT; 5549 AKAH, (FR 08/09/90FM) OPER ADD: BOX 780,
FARMINGTON, NM, 87499 PHONE (505) 326-5525; EL: 4975 KB; GEOL: MEADE
& HAYES LOCATION DATA: 1 1/2 MI S DESERT CREEK FLD(PARADOX) 14
MI SE BLUFF, UT; AMMANN BASE MAP UT-9, POMCO MAP U-83, WELL ID
CHANGES: WELL NAME CHGD FROM 1 BEAVER 11. SEC CHGD FROM 11.
FTG CHGD FROM 1700 FSL 110 FEL. SPOT CHGD FROM SE NE SE. ELEV
CHGD FROM 4974 GF.

WF
D&A

CONTR: AZTEC WELL SRVCG, RIG # 184 RIG SUB:13; SPUD: 02/26/91 CSG: 8 5/8 @ 510 W/375 SX; LOG TYPES: BHC 509-5340, CNL 4000-5346, CWL 4900-5320, DL 509-5334, LDT 4000-5346, MICL 4400-5309, MSFL 509-5334, SONL 509-5340; DRLG COMMENTS: LOG TOPS NOT RPTD. 5351 TD, (DESERT CREEK) (TD REACHED: 03/ 12/91) BHT: 122F; 5351 TD. COMP 4/29/91, D&A. WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE

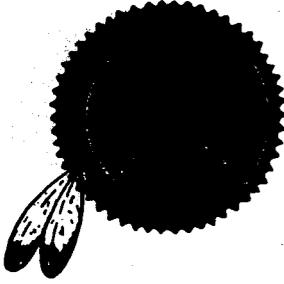
UINTAH COUNTY

QUINEX ENERGY 32-1S-1E
2-32 AIE ALLRED W2 SE SW
API 43-047-31889 660 FSL 1524 FWL
IC 430477000590

BLUEBELL; 12800 WASATCH, (FR 02/16/90DN) OPER ADD: 465 S 200 W
STE 300, BOUNTIFUL UT, 84010 PHONE (801) 292-3800; EL: 5383 KB; GEOL:
JEFF GEBHART LOCATION DATA: 4 3/4 MI NE ROOSEVELT, UT; AMMANN
BASE MAP UT-8, POMCO MAP UT-3,

DO
OIL

CONTR: GRACE DRLG, RIG # 193 RIG SUB:21; SPUD: 08/29/90 CSG: 22 @ 70, 7 5/8 @ 10250, 5 1/2 @ 12750; LOG TYPES: CNL 1780-10256, CORL 10256-10740, DISF 10256-10740, SONL 9900-12733; DRLG COMMENTS: LOG TOPS NOT RPTD. 12751 TD, (WASATCH) (TD REACHED: 10/ 26/90) BHT: 215F; PROD TEST(S): PERF (WASATCH), 11920-11930, 11956-11956, 11957-11957, 11959-11961, 12356-12358, 12404-12406, 12444-12446, 12454-12460, 12539-12541, 12551-12553, 12679-12682, W/3 PF, ACID, NO DETAILS, F 402 BO, 343 MCFG, 10 BW/3 DAYS IN NOV. PRODUCING INTERVAL(S) DATA: PERF (WASATCH) 11920-12682 GROSS IP NOT RPTD. 12751 DTD, 12750 LTD. COMP 11/27/90, OIL WELL. PROD ZONE - WASATCH 11920-12682(GROSS). WILL BE REISSUED IF ADDITIONAL DATA BECOMES AVAILABLE



CHUSKA ENERGY COMPANY

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

September 7, 1993

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

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's
Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M
Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Crane 35H
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Heron 35H(A)
Jack 31G
Kokopelli 29I
Lark 19B
Lark 19B(G)
Lighting Rock 2E
Lizard 4M
Lone Mountain Creek 12F-1

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

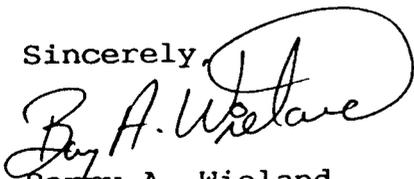
Monument 17E-2
Mule 31K
Mule 31K(N)
Mule 31M
NW Cajon 1I-1
North Heron 35C
Northwest Cajon 6E
North Cajon Mesa 5E-1
North Ruins 16K
Red Lake 25B
Tower 1F
Box Canyon 5F
Shalene 11K
South Triangle 7I
West Clay Hill 5B(A)

LOGS

Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Jack 31G
Kokopelli 29I
Lark 19B(G)
Lighting Rock 2E
Lone Mountain Creek 12F-1
Mule 31K(N)
Mule 31M
North Cajon Mesa 5E-1
North Heron 35C
N.W. Cajon 1I-1
N.W. Cajon 6E
Red Lake 25B
West Clay Hill 5B(A)

If you should have any further questions, please don't
hesitate to contact me, or Nell Lindenmeyer, at 505-326-
5525.

Sincerely

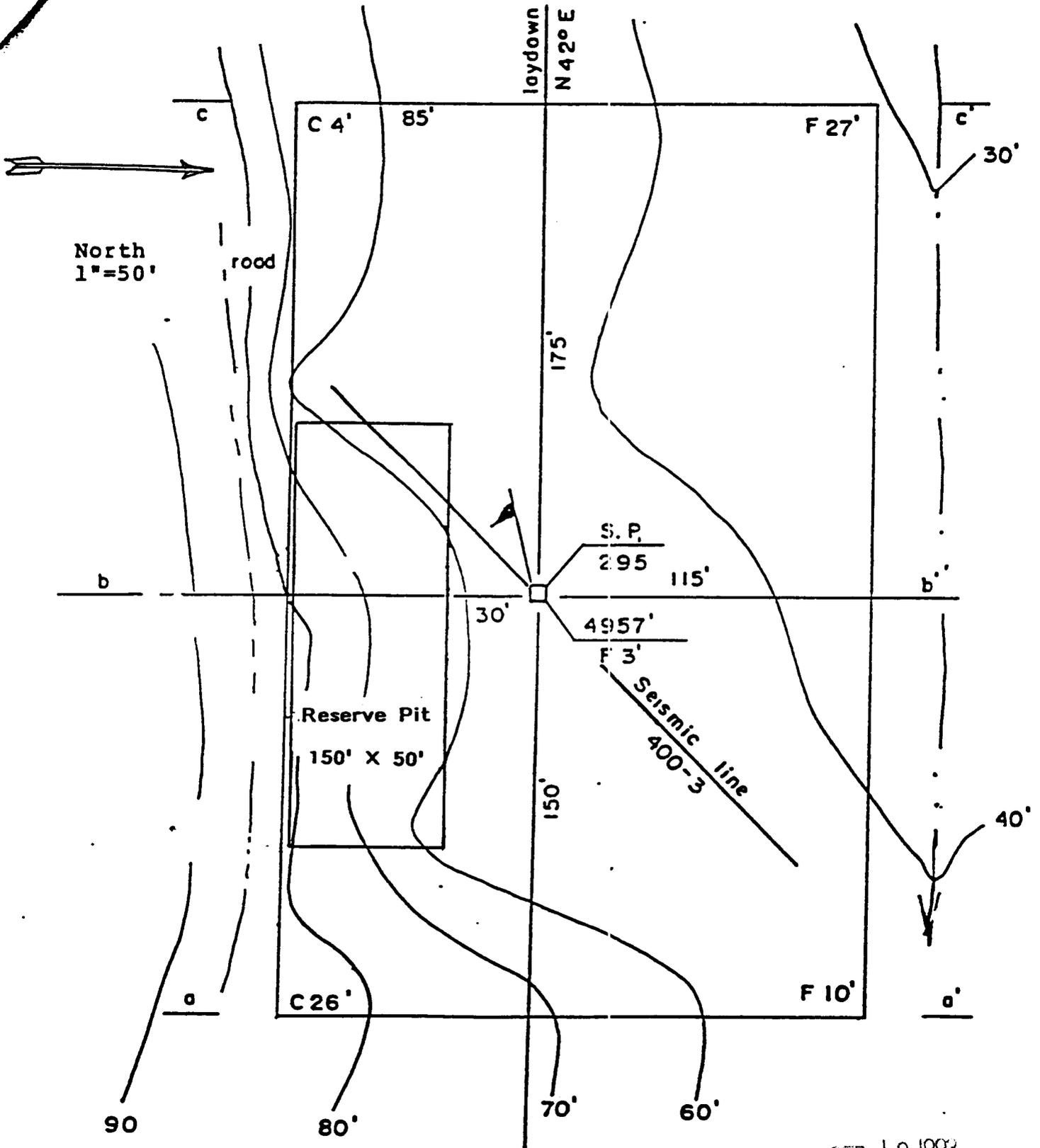


Barry A. Wieland
Operations Manager

Enclosures
cc: Well File

Plan View Sketch

Brown Hogan 1 - A - 2



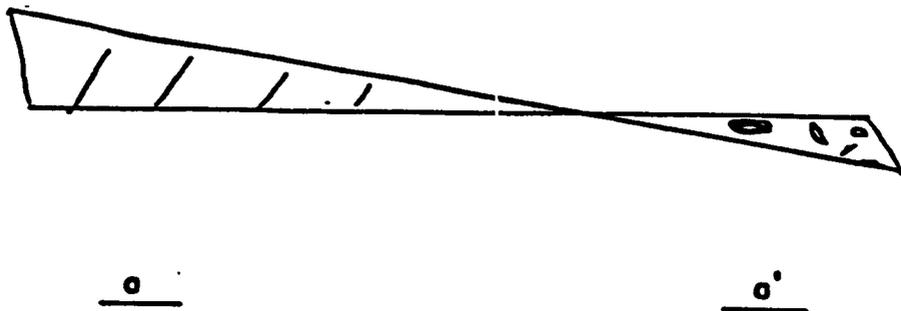
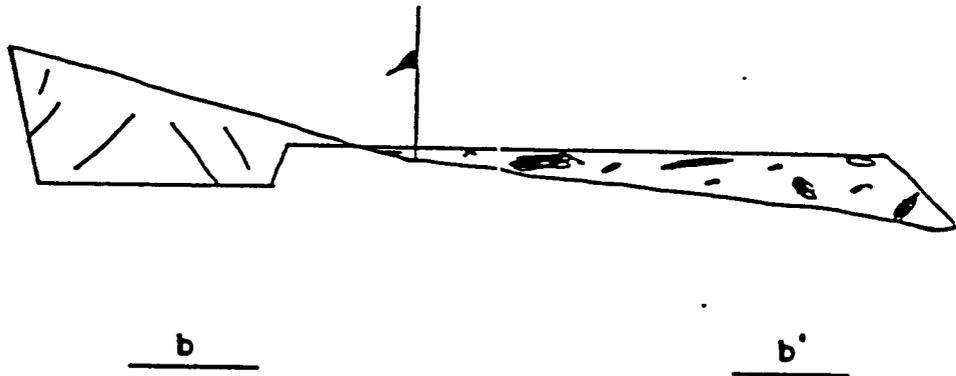
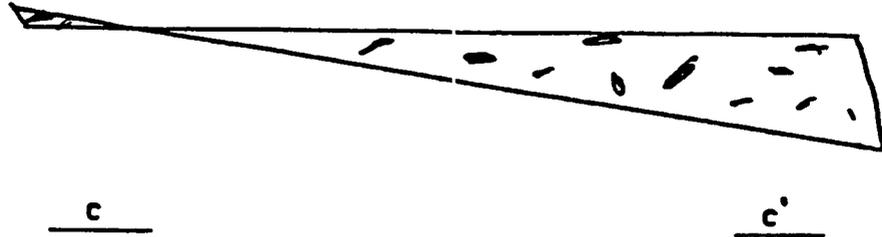
SEP 10 1993

Cross Section

Brown Hogan 1 - A - 2

Cut 
Fill 

1"=50' Horz. & Vert.



SEP 10 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NOG 8702-1116
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1,230' FNL, 950' FEL		8. FARM OR LEASE NAME Brown Hogan 1A
14. PERMIT NO. 43-037-31573		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, OR etc.) 4,957' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., N., OR BLE. AND SURVEY OR AREA S2 T42S R23E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

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

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

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

In order to minimize the amount of cut required on the west side of the location, the reserve pit will be constructed long and narrow (150' x 50'), as indicated on the attached revised cut and fill plat.

SEP 10 1986

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

SIGNED *[Signature]* TITLE Petroleum Engineer DATE 27 Feb 91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

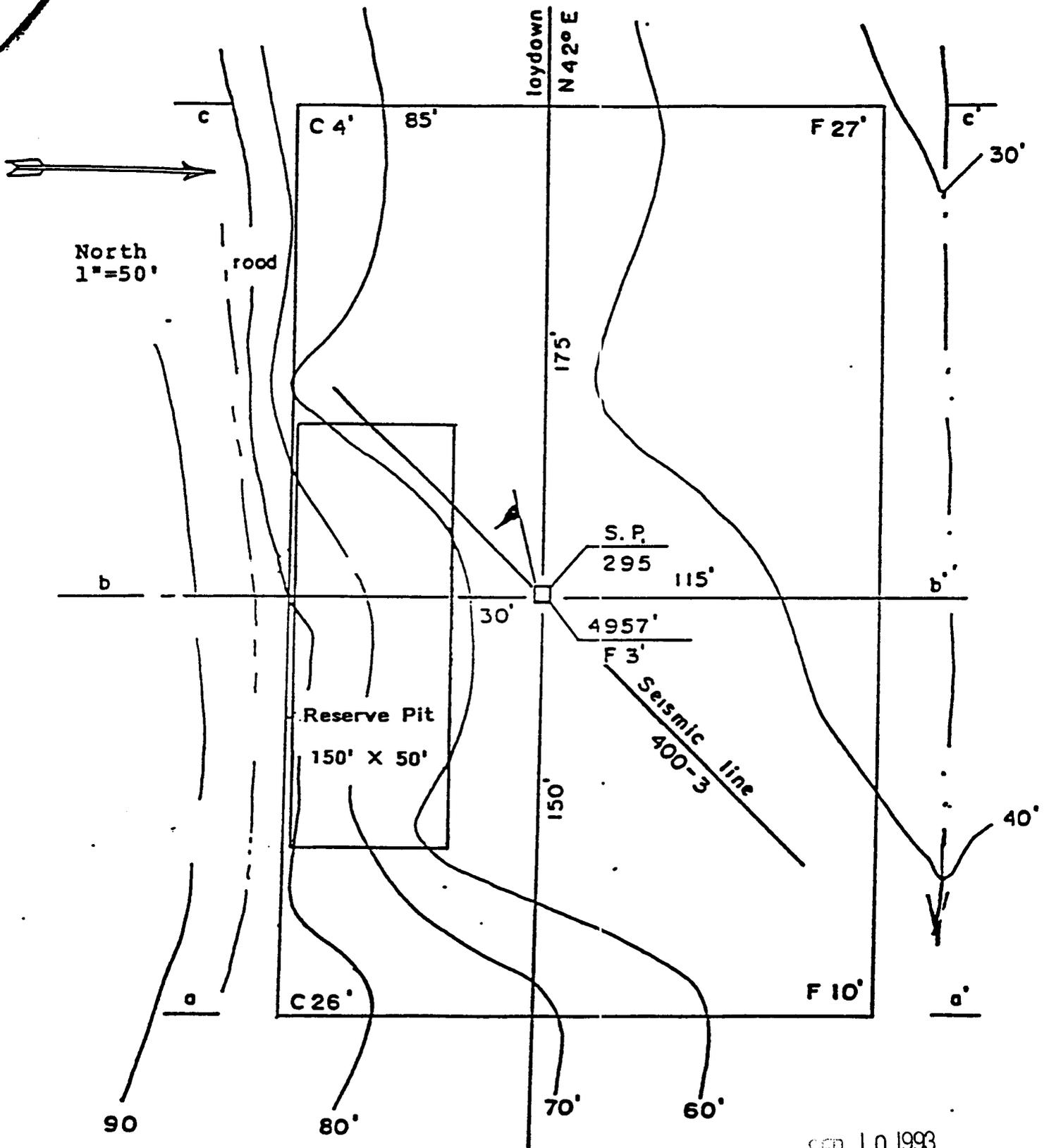
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

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

Plan View Sketch

Brown Hogan 1 - A - 2



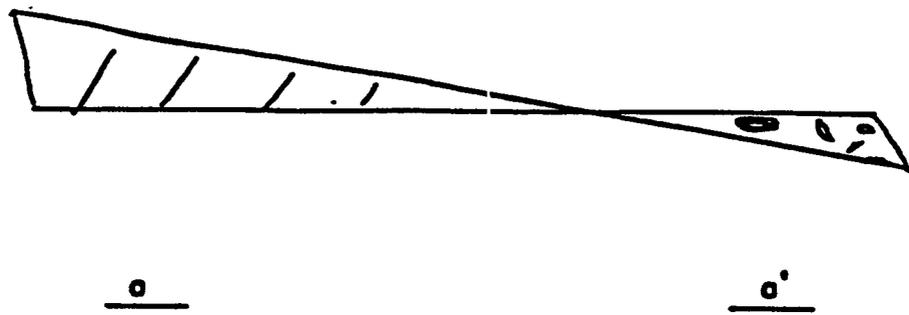
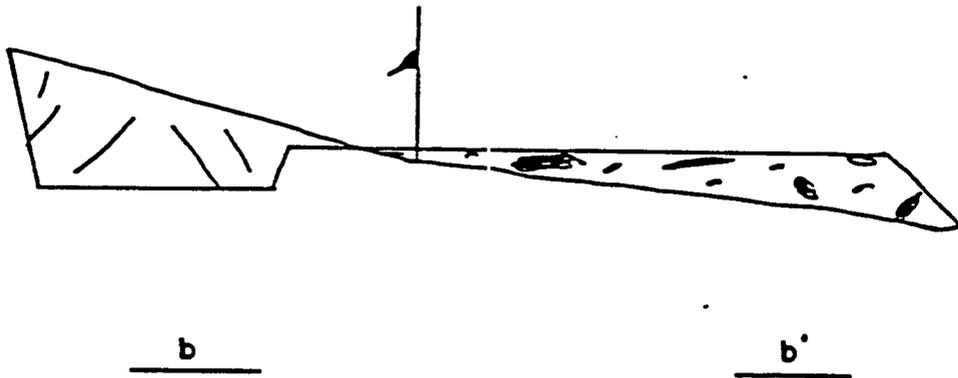
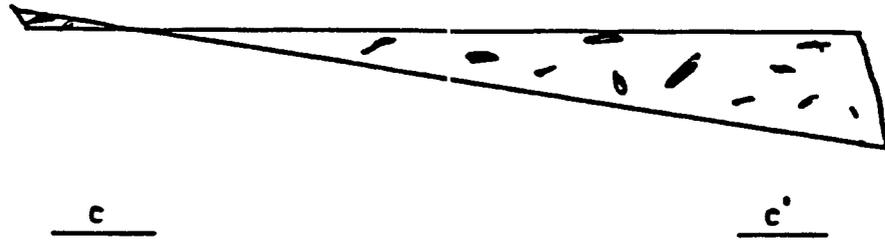
SFP 10 1993

Cross Section

Brown Hogan 1 - A - 2

Cut 
Fill 

1"=50' Horz. & Vert.



SEP 10 1993



CHUSKA ENERGY COMPANY

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

27 February, 1991

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

Ref: Sundry Notice: Brown Hogan 1A-2 Well
Change of Plans

Gentlemen

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

Please advise if you require additional information concerning this submission.

Sincerely,



Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\BRNHOGAN.1A\PLATSUN.CVR

encl.

SEP 10 1993

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

9. Well Name and Number
Brown Hogan 1A 2

2. Name of Operator
Chuska Energy Company

10. API Well Number
43-037-31573 X

3. Address of Operator
3315 Bloomfield Highway, Farmington, New Mexico 87401

4. Telephone Number
505-326-5525

11. Field and Pool, or Wildcat
Wildcat

5. Location of Well
Footage : 1,230' FNL, 950' FEL
QQ, Sec. T., R., M.: NE/4 NE/4 S2 T42S R23E
County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

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

* Must be accompanied by a cement verification report.

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

In order to minimize the amount of cut required on the west side of the location, the reserve pit will be constructed long and narrow (150' x 50'), as indicated on the attached revised cut and fill plat.

COPY

SEP 10 1993

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

DATE: 3-11-91
BY: [Signature]

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

Name & Signature Christopher S.W. Hill [Signature]

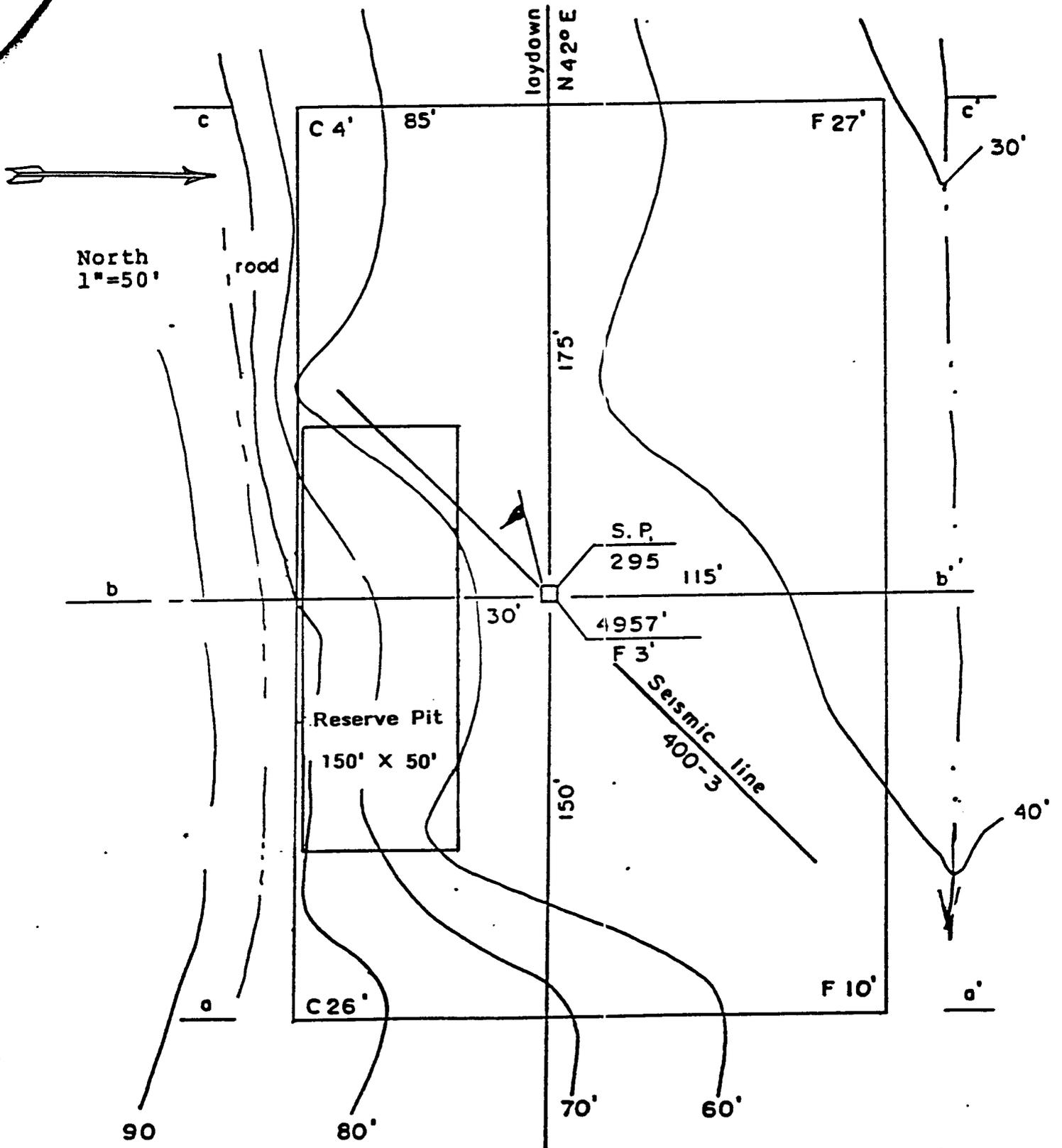
Title Petroleum Engineer

Date 27 Feb 91

(State Use Only)

Plan View Sketch

Brown Hogan 1 - A - 2



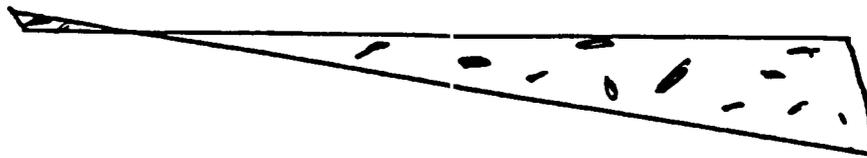
SEP 10 1993

Cross Section

Brown Hogan 1 - A - 2

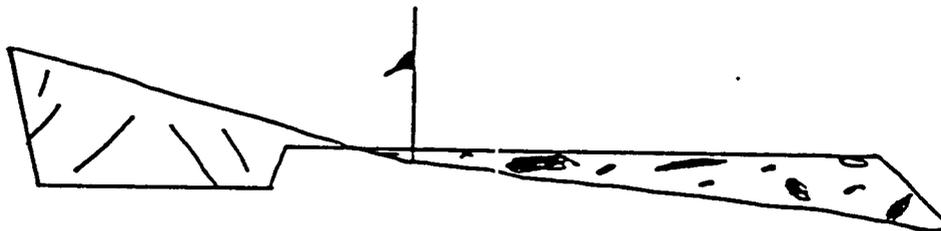
Cut 
Fill 

1"=50' Horz. & Vert.



c

c'



b

b'



a

a'

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

6. Lease Designation and Serial Number N0G 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Brown Hogan 1A 2
10. API Well Number 43-037-31573
11. Field and Pool, or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)
2. Name of Operator Chuska Energy Company
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401
4. Telephone Number 505-326-5525
5. Location of Well Footage : 1,230' ENL, 950' FEL CQ, Sec. T., R., M. : NE74 NE74 S2E T42S R23E
County : San Juan State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>Spud/Set Surface casing</u>	

Date of Work Completion 3-18-91

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

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

MIRU Azrec Rig 184. Spudded 1130 hrs, 3-17-91. Drilled to 520'. Ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar. Landed at 520'. Cemented with 400 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 22 bbl slurry to pit. Plug down 0400 hrs, 3-18-91. Float held.

SEP 10 1993

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

Name & Signature Barry A. Wieland  Title Operations Manager Date 5-26-93

(State Use Only)

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Brown Hogan 1A 2
10. API Well Number 43-037-31573
11. Field and Pool, or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS
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Use APPLICATION FOR PERMIT-- for such proposals

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	9. Well Name and Number Brown Hogan 1A 2
2. Name of Operator Chuska Energy Company	10. API Well Number 43-037-31573
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401	4. Telephone Number 505-326-5525
5. Location of Well Footage : 1,230' FNL, 950' FEL QQ, Sec, T., R., M.: NE/4 NE/4 S1 T42S R23E County: San Juan State: UTAH	

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

<p style="text-align: center;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p style="text-align: center;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other Spud/Set Surface Casing</td> <td></td> </tr> </table> <p>Date of Work Completion <u>3-18-91</u></p> <p><small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small></p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other Spud/Set Surface Casing	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other Spud/Set Surface Casing																											

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

MIRU Aztec Rig 184. Spudded 1130 hrs, 3-17-91. Drilled to 520'. Ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar. Landed at 520'. Cemented with 400 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 22 bbl slurry to pit. Plug down 0400 hrs, 3-18-91. Float held.

SEP 10 1991

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

Name & Signature <u>Christopher S.W. Hill</u>	Title <u>Operations Engineer</u>	Date <u>18 Mar 91</u>
---	----------------------------------	-----------------------

(State Use Only)

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

9. Well Name and Number
Brown Hogan 1A 2

2. Name of Operator
Chuska Energy Company

10. API Well Number
43-037-31573

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

4. Telephone Number
505-326-5525

11. Field and Pool, or Wildcat
Wildcat

5. Location of Well
Footage : 1,230' FNL, 950' FEL
QQ, Sec. T., R., M.: NE/4 NE/4 S1 T42S R23E

County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Production Casing</u> | |

Date of Work Completion 4-2-91

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

* Must be accompanied by a cement verification report.

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

Ran 145 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe, float collar stage collar. Landed at 5,723'. Cemented in two stages, as follows:
Stage 1: Lead with 383 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 207 sx Class 'G' with 2% CaCl₂ and 0.6% D-60.
Stage 2: Lead with 798 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 100 sx Class 'G' with 2% CaCl₂. Circulated 22 bbl slurry to pit.

SEP 10 1993

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

Name & Signature

Christopher S.W. Hill



Title

Operations Engineer

Date

2 Apr 91

(State Use Only)

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)
2. Name of Operator Chuska Energy Company
3. Address of Operator 3315 Bloomfiled Hwy., Farmington, NM 87401
4. Telephone Number 505-326-5525
5. Location of Well Footage : 1,230' FNL, 950' FEL QQ, Sec. T., R., M. : NE/4 NE/4 S1 T42S R23E

9. Well Name and Number Brown Hogan 1A 2
10. API Well Number 43-037-31573
11. Field and Pool, or Wildcat Wildcat

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

NOTICE OF INTENT
(Submit in Duplicate)

<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Other _____	

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Other <u>Production Casing</u>	

Date of Work Completion 4-2-91

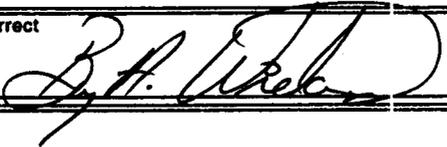
Report results of Multiple Completions and Recompletions to different reservoirs on WELL. COMPLETION OR RECOMPLETION AND LOG form.
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Ran 145 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe, float collar stage collar. Landed at 5,723'. Cemented in two stages, as follows:
 Stage 1: Lead with 383 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 207 sx Class 'G' with 2% CaCl₂ and 0.6% D-60.
 Stage 2: Lead with 798 sx Class 'G', 65:35 Poz with 6% Gel and 1/4 lb/sk Celloflake. Tail with 100 sx Class 'G' with 2% CaCl₂. Circulated 22 bbl slurry to pit.

SEP 10 1993

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

Name & Signature Barry A. Wieland  Title Operations Manager Date 5-26-93

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

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

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

1,230' FNL, 950' FEL, S1, T42S, R23E

8. Well Name and No.

Brown Hogan 1A 2

9. API Well No.

43-037-31573

10. Field and Pool, or Exploratory Area

Wildcat

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

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Production Casing
 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.)

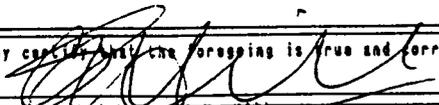
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

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SEP 10 1993

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

Signed



Title Operations Engineer

Date 2 Apr 91

(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 Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. If Indian, Allottee or Tribe Name
Navajo Tribal

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Brown Hogan 1A 2

2. Name of Operator
Chuska Energy Company

9. AP# Well No.
43-037-31573

3. Address and Telephone No.
3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1,230' FNL, 950' FEL, S1, T42S, R23E

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

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other First Sale of Oil
- 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.)*

First sale of oil from the subject well occurred on 4-18-91.

SEP 10 1993

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

Signed [Signature] Title Operations Engineer Date 19 Apr 91

(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 Instructions On Reverse Side

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NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

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2. Name of Operator
Chuska Energy Company

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43-037-31573

3. Address of Operator
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4. Telephone Number
505-326-5525

11. Field and Pool, or Wildcat
Wildcat

5. Location of Well
Footage : 1,230' FNL, 950' FEL
CG, Sec. T., R., M.: NE/4 NE/4 S1 T42S R23E

County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

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

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion 4-18-91

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SEP 10 1993

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

Name & Signature

Christopher S.W. Hill

Title Operations Engineer

Date 19 Apr 91

(State Use Only)

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement

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1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		9. Well Name and Number Brown Hogan 1A 2
2. Name of Operator Chuska Energy Company		10. API Well Number 43-037-31573
3. Address of Operator 3315 Bloomfield Hwy. Farmington, NM 87401	4. Telephone Number 505-326-5525	11. Field and Pool, or Wildcat Wildcat
5. Location of Well Footage : 1,230' FNL, 950' FEL QQ, Sec. T., R., M. : NE/4 NE/4 S01 T42S R23E County : San Juan State : UTAH		

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

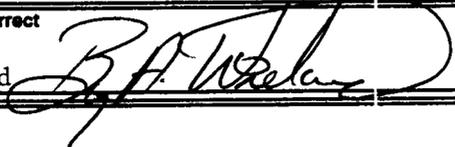
NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input checked="" type="checkbox"/> Other <u>First Sale Of Oil</u>
Approximate Date Work Will Start _____	Date of Work Completion <u>4-18-91</u>
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

First sale of oil from the subject well occurred on 4-18-91.

SEP 10 1993

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

Name & Signature Barry A. Wieland  Title Operations Manager Date 5-26-93

(State Use Only)

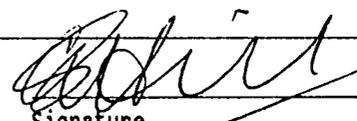
ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	11215 →		43-037-31573	Brown Hogan 1A-2	NE/NE	1 E	42S	23E	San Juan	3-17-91	
WELL 1 COMMENTS: MIRU Aztec Rig 184. Spudded 1130 hrs, 3-17-91. <i>Entity previously added 4-17-91. Jee</i>											
WELL 2 COMMENTS:											
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.

SEP 10 1993


 Signature _____
 Operations Engineer _____ 3-18-91
 Title _____ Date _____
 Phone No. 505-326-5525

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)	
RUNWAY 10-E #2				DSCR						
✓4303731550	11128	40S	25E 10							
MONUMENT 17E #2				DSCR						
✓4303731547	11139	40S	25E 17							
NAVAJO CANYON 331 #1				IS-DC						
✓4303731546	11145	39S	25E 33							
LONE MOUNTAIN CREEK 12F #1				DSCR						
✓4303731545	11148	42S	24E 12							
RUNWAY 10C-5A				DSCR						
✓4303731597	11152	40S	25E 10							
BLUE HOGAN 1J #1				DSCR						
✓4303731562	11161	42S	23E 1							
ASAZI 5L #3				PRDX						
✓4303731572	11207	42S	24E 5							
NW CAJON 11 #1				DSCR						
✓4303731510	11210	40S	24E 1							
BROWN HOGAN 1A #2				PRDX						
✓4303731573	11215	42S	23E 2							
STERLING 36L #1				PRDX						
✓4303731595	11224	41S	23E 36							
MULE 31-K-1				DSCR						
✓4303731617	11326	41S	24E 31							
NORTH HERON 35C				DSCR						
✓4303731616	11479	41S	25E 35							
BURRO 311				DSCR	No Card NO FILE					
✓4303731708	11496	41S	24E 31							
TOTALS										

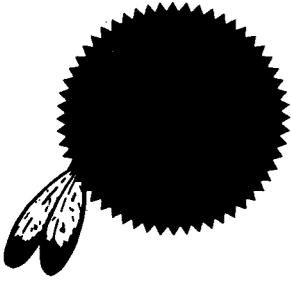
COMMENTS:

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

Date: _____

Name and Signature: _____

Telephone Number: _____



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

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

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

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

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

Sincerely,

Barry A. Wieland
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF
OIL, GAS & MINING

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Location) Sec ___ Twp ___ Rng ___
(API No.) _____

Suspense
(Return Date) _____
(To - Initials) _____

Other
Oper. Nm. Change

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

2. DOGM Employee (name) Y. Cordova (Initiated Call)
Talked to:
Name Wayne Townsend (Initiated Call) - Phone No. (505) 599-8900
(or Ken Townsend)
of (Company/Organization) Bhm / 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>
	<u>phone (505) 326-5525</u>		<u>phone (505) 326-5525</u>
	<u>account no. N 9290</u>		<u>account no. N 9290</u>

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

Name: **SEE ATTACHED**	API: <u>037 31573</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

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

ENTITY REVIEW

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

BOND VERIFICATION (Fee wells only)

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

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

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

FILMING

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

FILING

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

COMMENTS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SEP 07 1995
OIL, GAS & MIN

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 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. 43-037-31573

10. Field and Pool, or Exploratory Area
See Attached List

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

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

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

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

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

cc: Navajo Nation
State of Utah

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

Signed Richard Montgomery Title Production Administrator Date Sept 6, 1995

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

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

HARKEN SOUTHWEST CORPORATION

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

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



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

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

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

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

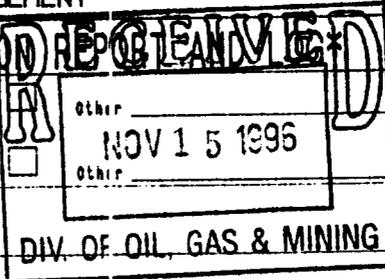
Each operator will need to make whatever contacts with regulatory agencies and gas marketers, etc. they deem necessary.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT



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

2. NAME OF OPERATOR
Chuska Energy Company

3. ADDRESS OF OPERATOR
3315 Bloomfield Highway, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
 At Surface **1,230' FNL, 950' FEL.**
 At top prod. interval reported below **Same**
 At total depth **Same**

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

 8. FARM OR LEASE NAME
Brown Hogan 1A
 9. WELL NO.
2
 10. FIELD AND POOL, OR WILDCAT
Wildcat
 11. SEC., T., R., N., OR BLOCK AND SURV OR AREA
S1 T42S R23E

14. PERMIT NO. **43-037-31573** DATE ISSUED **11-29-90**
 12. COUNTY OR PARISH **San Juan** 13. STATE **Utah**

15. DATE SPUDDED **3-17-91** 16. DATE T.D. REACHED **3-30-91** 17. DATE COMPL. (Ready to prod.) **5-22-91**
 18. ELEVATIONS (DF, RCB, RT, OR ETC.)^a **4,957' GR/4,970' KB** 19. ELEV. CASINGHEAD **4,957' GR**
 20. TOTAL DEPTH, MD & **5,719' (L)/5,727' (D)** 21. PLUG BACK T.D., MD & TYD **5,715'** 22. IF MULTIPLE COMPL., HOW MANY^a
 23. INTERVALS DRILLED BY **Rotary** ROTARY TOOLS **Rotary** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TYD)
5,691' - 5,694' / 5,701' - 5,709' : Paradox
5,600' - 5,625' : Paradox
5,520' - 5,546' / 5,560' - 5,570' / 5,583' - 5,590' : Paradox
 25. WAS DIRECTIONAL SURVEY MADE **No**

26. TYPE ELECTRIC AND OTHER LOGS RUN
DLL/MSFL/MLTGR/CAL **BEFORE GRAC GR TEMPERATURE CYBERLOOK** **CBL 9-10-93**
LDT/CNL/GR/CAL, BHCS/GR/CAL 27. WAS WELL CORED **Yes**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	520'	12 1/4"	400 sx G + 2% CaCl ₂ , 22 bbl to pit	
5 1/2"	15.5	5,723	7 7/8"	S1: 383 sx G 35:65 Poz/6% Gel - 207 sx G S2: 798 sx G 35:65 Poz/6% Gel + 100 sx G DV tool at 3,520'. Circulated 22 bbl slurry to pit	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	5,515'	5,515'

30. TUBING RECORD

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5520-46/60-70/83-90	150 gal 15% HCl
5600-25	150 gal 15% HCl
5691-94/5701-09	150 gal 7 1/2% HCl/1500 gal 15% MSR-100

31. PERFORATION RECORD (Interval, size and number)
5,520' - 5,546'/5,560' - 5,570'/5,583' - 5,590'
5,600' - 5,625'
5,691' - 5,694'/5,701' - 5,709'
 All perforations with 4" casing gun at 4 spf

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

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut in)
4-17-91	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
6-30-91	24	32		511	199	0	389

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY-API (CORR.)
80	0		511	199	0	40.2

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) **Sold** TEST WITNESSED BY **Chuska Energy**

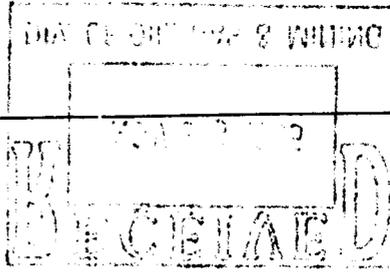
35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Christopher S.W. Hill TITLE Operations Engineer DATE 7-1-91

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

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		GEOLOGIC MARKERS	
						NAME	MEAS. DEPTH
Paradox	5520	5590	Dolomite, Limestone, Shale	Hermosa	4544		4544
Paradox	5600	5625	Limestone	Upper Ismay	5343		5343
Paradox	5691	5709	Dolomite, Shale, Anhydrite	Hovenweep Shale	5439		5439
Core #1	5533	5564	Paradox. Recovered 30.5' of 31' cut	Lower Ismay	5454		5454
Core #2	5564	5595	Paradox. Recovered 30' of 31' cut	Gothic Shale	5485		5485
Core #3	5595	5626	Paradox. Recovered 100%	Desert Creek	5500		5500
Core #4	5626	5646	Paradox. Recovered 100%	Chimney Rock Shale	5673		5673
Core #5	5646	5690	Paradox. Recovered 100%	Akah	5688		5688
Core #6	5690	5727	Paradox. Recovered 34' of 37' cut				



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

43-037-31573

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 Casin
	<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

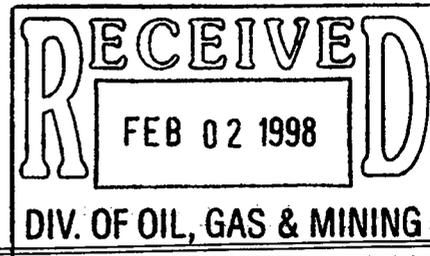
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent date, 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

Fachelle Montgomery

Title Production Administrator

Date 01/29/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

MARKEN SOUTHWEST CORPORATION

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

Page 1 of 3

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

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

Vented Gas (MCF) January 1998

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

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
---	---	---	---	---	--

Vented Gas (MCF) December 1997

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

Vented Gas (MCF) January 1998

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

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-26E	Mule 31-K(N) 43-037-31617 NE/SW Sec 31-41S-24E	DAILY TOTALS
Vented Gas (MCF) December 1997				
25-Dec	25	62	25	715
26-Dec	25	94		744
27-Dec	20	94	21	730
28-Dec	19	90	21	735
29-Dec	28	62	29	753
30-Dec	22	62		686
31-Dec	23	62		661
Dec Total	162	526	96	5024
Vented Gas (MCF) January 1998				
1-Jan	22	62		704
2-Jan	23	63		686
3-Jan	23	63		680
4-Jan	23	63		678
5-Jan	23	63		717
6-Jan	22	63		693
7-Jan	23	63	21	720
8-Jan	23	63	21	717
9-Jan	23	64	21	736
10-Jan	0	64	0	276
11-Jan	0	0	0	0
12-Jan	0	0	0	0
13-Jan	0	0	0	0
14-Jan	0	0	0	0
15-Jan	0	0	0	0
16-Jan	0	0	0	0
17-Jan	0	0	0	0
18-Jan	23	73	0	359
19-Jan	25	73	21	613
20-Jan	23	2	23	312
Jan Total	276	779	107	7891
Grand Total	438	1305	203	12915

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 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)
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
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: SEE ATTACHED
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: Navajo
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: SEE ATTACHED
2. NAME OF OPERATOR: RIM Southwest Corporation		8. WELL NAME and NUMBER: SEE ATTACHED
3. ADDRESS OF OPERATOR: P.O. Box 145 CITY Farmington STATE NM ZIP 87499		9. API NUMBER: SEE ATTACH
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		10. FIELD AND POOL, OR WILDCAT: Greater Aneth
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		COUNTY: San Juan
		STATE: UTAH

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

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

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

RECEIVED
APR 23 2001
DIVISION OF
OIL, GAS AND MINING

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

(This space for State use only)

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**San Juan County
Utah**

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3. Address and Telephone No.

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

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

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

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

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

Attachment

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

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 9/17/01

By: [Signature]

Ext. Oct 15, 2001

Federal Approval of This
Action is Necessary

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

RECEIVED
OIL AND MINERALS

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

Signed [Signature]

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

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS
			VENTED MCF/DAY
1420603373	Big Sky 6E (6L)	06-42S-25E	19
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
TOTAL AVERAGE			254

- 43-037-31714
- 43-037-31509
- 43-037-31497
- 43-037-30971
- 43-037-30977
- 43-037-31041
- 43-037-31040
- 43-037-31472
- 43-037-31478
- 43-037-31515
- 43-037-31597
- 43-037-31550
- 43-037-31547
- 43-037-31562
- 43-037-31573
- 43-037-31708
- 43-037-31709
- 43-037-31617
- 43-037-31710



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

ANALYSIS NO. HSC80013
 CUST. NO. 33500- 10095

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31M	PRESSURE	25 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E412018	FOREMAN/ENGR.	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
TOTAL	100.000	12.0243	1,603.72	0.9494

* @ 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

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	MULE 31K	PRESSURE	24 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	84 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION	DESERT CREEK	SAMPLED BY	FGM
CUST.STN.NO.	202E340052	FOREMAN/ENGR.	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
TOTAL	100.000	9.9529	1,489.68	0.8829

* @ 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

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	JACK 31G	PRESSURE	28 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	76 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	6/30/98
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E410005	FOREMAN/ENGR.	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
TOTAL	100.000	8.0458	1,403.66	0.8271

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,402.9
DRY BTU @ 14.696	1,407.3
DRY BTU @ 14.730	1,410.5
DRY BTU @ 15.025	1,438.8

CYLINDER #	004
CYLINDER PRESSURE	12 PSIG
DATE RUN	7/1/98
ANALYSIS RUN BY	DAVE MARTIN



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

ANALYSIS NO. HSC00018
 CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

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

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,407.7	CY.INDER #	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)	Gasoline Content
Dry = 1610.156	Propane GPM = 3.302
Sat. = 1583.743	Butane GPM = 1.910
Actual = 1610.156	Gasoline GPM = 1.966
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 3.344
	Total GPM = 11.922

Real Relative Density Calculated = 0.9755
On-Site Relative Density = 0.0000

Gas Compressibility = 0.9933





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

ANALYSIS NO. HSC00010
 CUST. NO. 33500- 10090

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC00014
 CUST. NO. 33500- 10120

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	RUNAWAY 10E2	PRESSURE	21 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	60 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION		SAMPLED BY	FGM
CUST.STN.NO.	202E311617	FOREMAN/ENGR.	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
TOTAL	100.000	14.3471	1,742.68	1.0292

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC00013
 CUST. NO. 33500- 10115

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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

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)

Dry = 1563.024
Sat. = 1537.392

Actual = 1563.024
(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 3.417

Butane GPM = 1.505

Gasoline GPM = 1.353

25# Gasoline CPM = 2.469

Total GPM = 11.227

Real Relative Density Calculated = 0.9190

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939

CQM, INC. ON-SITE GAS ANALYSIS

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

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

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
File: c:\mti\ezchrom\200\chrom\78_14806.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.664	0.000	0.006	
Methane	44.440	449.882	0.246	
CO2	0.068	0.000	0.001	
Ethane	23.771	421.625	0.247	6.358
H2S (APPROX)	0.000	0.000	0.000	
Propane	17.469	440.554	0.266	4.814
i-Butane	2.367	77.151	0.043	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	0.053	0.801
Heptanes	0.378	20.848	0.013	0.174
Octanes	0.047	2.944	0.002	0.024
Nonanes	0.000	0.000	0.000	

Ideal Total	100.000	1819.096	1.080	15.891
Unnormalized Total	113.650			

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

Dry = 1835.446
Sat. = 1805.263
Actual = 1835.446
(0.000 lbs. water/MMCF)

Gasoline Content

Propane GPM = 4.814
Butane GPM = 2.551
Gasoline GPM = 2.169
26# Gasoline GPM = 3.945
Total GPM = 15.891

Real Relative Density Calculated = 1.0892

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9911



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

ANALYSIS NO. HSC00012
 CUST. NO. 33500- 10105

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

DRY BTU @ 14.650	1,380.1
DRY BTU @ 14.696	1,384.4
DRY BTU @ 14.730	1,387.6
DRY BTU @ 15.025	1,415.4

CYLINDER #	KFL148
CYLINDER PRESSURE	23 PSIG
DATE RUN	12/22/00
ANALYSIS RUN BY	AMY JUSTICE

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

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

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

Gas Analysis by Chromatograph

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

Ideal Total 100.000 1600.514 0.945 12.084
 Unnormalized Total 110.907

Gross BTU/Real Cu. Ft.
 (@ 60 deg F, 14.730)
 Dry = 1611.115
 Sat. = 1584.681
 Actual = 1611.115
 (0.000 lbs. water/MMCF)

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

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

Gas Compressibility = 0.9934

COM, INC. ON-SITE GAS ANALYSIS LUT 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	0.023	0.424
Hexanes	1.532	73.029	0.045	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)

Gasline Content
 Propane GPM = 3.492
 Butane GPM = 1.784
 Gasoline GPM = 1.672
 26# Gasoline GPM = 2.953
 Total GPM = 12.177

Real Relative Density Calculated = 0.9603
 On-Site Relative Density = 0.0000

Gas Compressibility = 0.9932



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

ANALYSIS NO. HSC00009
 CUST. NO. 33500- 10085

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

* @ 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.	SOJRCE	N/A
WELL NAME	MONUMENT 17-E-2	PIRISSURE	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
TOTAL	100.000	9.0934	1,470.45	0.8593

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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



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

ANALYSIS NO. HSC00008
 CUST. NO. 33500- 10000

WELL/LEASE INFORMATION

CUSTOMER NAME	HARKEN SOUTHWEST CORP.	SOURCE	N/A
WELL NAME	CAJON 8D1	PRESSURE	12 PSIG
COUNTY/ STATE	SAN JUAN UT	SAMPLE TEMP	42 DEG.F
LOCATION	ANETH	WELL FLOWING	Y
FIELD		DATE SAMPLED	12/21/00
FORMATION	ISMAY	SAMPLED BY	FGM
CUST.STN.NO.	202E311625	FOREMAN/ENGR.	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
TOTAL	100.000	11.6339	1,589.78	0.9341

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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

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

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

Method: c:\mti\ezchrom\200\methods\H2S_1.MET
 File: c:\mti\ezchrom\200\chrom\78_14406.1

Gas Analysis by Chromatograph

Name	Mole %	BTU	RD	GPM
Nitrogen	0.989	0.000	0.010	
Methane	63.867	646.549	0.354	
CO2	0.044	0.000	0.001	
Ethane	15.724	278.896	0.163	4.205
H2S (APPROX)	0.000	0.000	0.000	
Propane	9.810	247.400	0.149	2.703
i-Butane	1.181	38.494	0.024	0.386
n-Butane	3.638	118.957	0.073	1.147
i-Pentane	0.900	36.091	0.022	0.329
n-Pentane	1.247	50.107	0.031	0.452
Hexanes	1.943	92.621	0.058	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)	Gasoline Content
Dry = 1555.948	Propane GPM = 2.703
Sat. = 1530.436	Butane GPM = 1.533
Actual = 1555.948	Gasoline GPM = 1.890
(0.000 lbs. water/MMCF)	26# Gasoline GPM = 3.037
	Total GPM = 10.332

Real Relative Density Calculated = 0.9133

On-Site Relative Density = 0.0000

Gas Compressibility = 0.9939



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

ANALYSIS NO. HSC00018
 CUST. NO. 33500- 10035

WELL/LEASE INFORMATION

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

REMARKS

ANALYSIS

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

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

** @ 14.730 PSIA & 60 DEG. F.

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

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

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

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

CQM, INC.
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	0.013	
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	0.015	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	0.005	0.077
Octanes	0.013	0.814	0.001	0.007
Ideal Total	100.000	1421.788	0.837	9.151
Unnormalized Total	94.894			

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

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

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

Gas Compressibility = 0.9951

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File _____

(Loc.) Sec _____ Twp _____ Rng. _____
(API No.) _____

Suspense _____
(Return Date) _____
(To-Initials) _____

Other _____

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

2. DOGM Employee (name) DUSTIN DOUCET (Initiated Call)
Talked to:
Name Wayne Townsend (Initiated Call) - Phone No. (505) 599 6359
of (Company/Organization) BLM

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

4. Highlights of Conversation: Wayne has had several meetings with
Navajo Nation, Navajo EPA, Navajo minerals, Navajo Health and Human Services,
the Department of Justice, US EPA, Texaco, Exxon-Mobil, western Gas & the
Red Mesa & Aneth chapters. 12.5 miles of pipeline (downstream from
Aneth Plant) no good. Options: a) rebuild 12.5 miles of pipeline - Row expires
2005 western's renegotiate with Navajo to extend Row was denied [main choice], 1 month
to rebuild once OK given from Navajo etc. b) Use 20" Questar oil pipeline [1950's - no go]
c) Use 6" Conoco Line - convert to gas and truck liquids from plant - talks broke down 9/10/01.
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). H₂S and other
safety monitors will be set up around plant and monitor health risks, etc - BLM
has approved all flaring until Oct. 15, 2001 associated w/ this matter. Probably
won't be back into operation before then though.

RIM SOUTHWEST CORPORATION

			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	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25E	0	43-037-31547
NOG 8707-1206	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
		TOTAL AVERAGE	254	

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

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

COPY SENT TO OPERATOR
Date: 11/19/01
Initials: CHP

Attachment

Date: 11/19/01
By: [Signature]
Dec 1, 2001

Federal Approval of This
Action is Necessary

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

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

W. J. Holcomb

Title **Vice President**

RECEIVED

Signature

[Signature]

Date **11/01/01**

NOV 09 2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

**DIVISION OF
OIL GAS AND MINING**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FILE

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

RIM SOUTHWEST CORPORATION

3a. Address

87499

P.O. Box 145, Farmington, NM

3b. Phone No. (include area code)

(505) 327-5531

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

5. Lease Serial No.

See Attached

6. If Indian, Allottee or Tribe Name

Navajo Nation

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

8. Well Name and No.

9. API Well No.

10. Field and Pool, or Exploratory Area

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

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

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

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

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

CC: State of Utah

**Navajo Nation-Minerals
Navajo Nation EPA - Air Quality
BIA - Gallup, NM**

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

Name (Printed/Typed)

W. J. Holcomb

Title **Vice President**

Signature

[Handwritten Signature]

Date **11/19/01**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECEIVED

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

NOV 23 2001

Office

**DIVISION OF
OIL, GAS AND MINING**

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

RIM SOUTHWEST CORPORATION

LEASE NUMBER	WELL NAME	SEC-TWN-RNG	ESTIMATED GAS	
			VENTED	MCF/DAY
1420803373	Big Sky 6E (6L)	08-42S-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 32-28	28-40S-22E	8	43-037-31060
NOG 8707-1182	Sahzie #1	05-42S-24E	16	43-037-31472
	Anasazi #1	05-42S-24E	67	43-037-31478
NOG 8707-1170	Runway 10G-1	10-40S-25E	SI	43-037-31515
	Runway 10C-5A	10-40S-25E	SI	43-037-31597
NOG 8707-1190	Runway 10E-2	10-40S-25E	17	43-037-31550
NOG 8707-1191	Monument 17E-2	17-40S-25E	0	43-037-31547
NOG 8707-1208	Blue Hogan 1J-1	01-42S-23E	27	43-037-31562
	Brown Hogan 1A-2	01-42S-23E	18	43-037-31573
NOG 8707-12321	Burro 31-1	31-41S-24E	1	43-037-31708
	Jack 31G	31-41S-24E	SI	43-037-31709
	Mule 31K (N)	31-41S-24E	7	43-037-31617
	Mule 31M	31-41S-24E	24	43-037-31710
TOTAL AVERAGE			254	

OPERATOR CHANGE WORKSHEET

ROUTING

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

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

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

12/1/2000

FROM: (Old Operator):
 N9290-Harken Southwest Corporation
 5 Inverness Drive, East
 Denver, CO 80112

Phone: (303) 799-9828

TO: (New Operator):
 N1715-Rim Southwest Corporation
 PO Box 145
 Farmington, NM 87499

Phone: (505) 327-5531

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NAVAJO TRIBAL 32-26	26	400S	2:0E	4303731060	9990	Indian	OW	S
NAVAJO TRIBAL 14-10	10	400S	2:40E	4303730977	10130	Indian	OW	P
NAVAJO TRIBAL 23-13	13	400S	2:40E	4303730971	9420	Indian	OW	P
CAJON MESA 8D-1	08	400S	2:50E	4303731497	11074	Indian	OW	P
MONUMENT 8N-2	08	400S	2:50E	4303731509	11087	Indian	OW	P
RUNWAY 10G-1	10	400S	2:50E	4303731515	11105	Indian	OW	P
RUNWAY 10E-2	10	400S	2:50E	4303731550	11128	Indian	GW	P
RUNWAY 10C-5A	10	400S	2:50E	4303731597	11152	Indian	OW	P
MONUMENT 17E-2	17	400S	2:50E	4303731547	11139	Indian	OW	P
STERLING 36L-1	36	410S	2:30E	4303731595	11224	Indian	OW	S
MULE 31K (N)	31	410S	2:40E	4303731617	11326	Indian	OW	P
BURRO 31I	31	410S	2:40E	4303731708	11496	Indian	OW	P
MULE 31M	31	410S	2:40E	4303731710	11498	Indian	OW	P
JACK 31G	31	410S	2:40E	4303731709	11497	Indian	OW	S
CLAY HILL CANYON 32D	32	410S	2:50E	4303731741	11734	Indian	OW	TA
NORTH HERON 35C	35	410S	2:50E	4303731616	11479	Indian	OW	S
BLUE HOGAN 1J-1	01	420S	2:30E	4303731562	11161	Indian	OW	P
BROWN HOGAN 1A-2	01	420S	2:30E	4303731573	11215	Indian	OW	P
NAVAJO TRIBAL 41-2	02	420S	2:40E	4303731041	9437	Indian	OW	P
SAHGZIE 1	05	420S	2:40E	4303731472	11032	Indian	OW	P
ANASAZI 1	05	420S	2:40E	4303731478	11042	Indian	OW	P
ANASAZI 5L-3	05	420S	2:40E	4303731572	11207	Indian	OW	P
ANASAZI 6H-1	06	420S	2:40E	4303731744	11773	Indian	OW	P
LONE MOUNTAIN CREEK 12F-1	12	420S	2:40E	4303731545	11148	Indian	OW	P
BIG SKY 6E (6L) 1	06	420S	2:50E	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

SEP 03 2008

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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NOG 8707-1206
2. Name of Operator RIM Southwest Corporation		6. If Indian, Allottee, or Tribe Name The Navajo Nation
3a. Address 5 Inverness Drive East, Englewood CO 80112	3b. Phone No. (include area code) 303-799-9828	7. If Unit or CA. Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NE NE sec 1 T 42S R 23E		8. Well Name and No. Brown Hogan 1A-2
		9. API Well No. 43-037-31573
		10. Field and Pool, or Exploratory Area Desert Creek
		11. County or Parish, State San Juan Co., Utah

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/ Resume)	<input type="checkbox"/> Water Shut-off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Returned to production.
	<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 performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Returned to 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 <i>Kenneth J Kundrik</i>	Date 9/2/2008

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	SEP 09 2008
		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)

FARMINGTON

W. J. O. C. D.

RECEIVED

SEP 25 2008

DIV. OF OIL, GAS & MIN.

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

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

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

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

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

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

DATA ENTRY:

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

BOND VERIFICATION:

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

LEASE INTEREST OWNER NOTIFICATION:

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

COMMENTS:

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

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 11215
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: Navajo
		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: Brown Hogan 1A#2	
2. NAME OF OPERATOR: Navajo Nation Oil and Gas Company		9. API NUMBER: 43-037-31573
3. ADDRESS OF OPERATOR: P. O. Box 5069 QTY Window Rock STATE AZ ZIP 86515	PHONE NUMBER: 303-534-8300	10. FIELD AND POOL, OR WILDCAT: Greater Aneth
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1230 FNL & 950 FEL		COUNTY: San Juan
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NE NE sec. 1 T42S R23E		STATE: UTAH

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

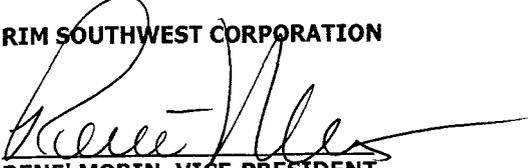
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input 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

Bond No. **RLB0006712**

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

(This space for State use only)

APPROVED

DEC 11 2012

DIV. OIL GAS & MINING
BY: Rachael Medina

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: NOG-8707-1206
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NAVAJO
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.		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: BROWN HOGAN 1A-2
2. NAME OF OPERATOR: NAVAJO NATION OIL & GAS CO		9. API NUMBER: 43037315730000
3. ADDRESS OF OPERATOR: P.O. Box 4439 , Window Rock, AZ, 86515	PHONE NUMBER: 303 534-8300 Ext	9. FIELD and POOL or WILDCAT: DESERT CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1230 FNL 0950 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 01 Township: 42.0S Range: 23.0E Meridian: S		COUNTY: SAN JUAN
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/24/2012 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input checked="" type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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 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
NAME (PLEASE PRINT) Lauren Germinario	PHONE NUMBER 303 534-8300	TITLE Land Manager
SIGNATURE N/A		DATE 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

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 that reads "Katie Hynes". The signature is written in a cursive, flowing style.

Katie Hynes
Associate Landman

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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.

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

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

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

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

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

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

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

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

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

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

Effective: Aug 1, 2012

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

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

DEC 31 2012

DIV. OIL GAS & MINING

BY: Rachel Medina (See Instructions on Reverse Side)

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