



CHUSKA ENERGY COMPANY

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

RECEIVED
NOV 16 1990

DIVISION OF
OIL, GAS & MINING

16 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
Rabbit Brush 4G-1 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Rabbit Brush 4G Well No. 1 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 well has been located 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. 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
Operations Manager

LGS/csw
File: C:\WP51\RABBRUSH.4G\APDCOVER

encl.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
 DRILL DEEPEN PLUG BACK

b. Type of Well
 Oil Well Gas Well Other 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 1570' FNL, 1710' FEL
 At proposed prod. zone Same

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

6. If Indian, Allottee or Tribe Name
 Navajo Tribal

7. Unit Agreement Name

8. Farm or Lease Name
 Rabbit Brush 4G

9. Field and Pool, or Wildcat
 Wildcat Undesignated

10. County or Parish
 San Juan

11. State
 Utah

12. No. of acres in lease
 49,997

13. No. of acres assigned to this well

14. Distance from proposed location to nearest* property or lease line, ft. (Also to nearest drlg. line, if any)
 491'

15. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
 3,085'

16. Proposed depth
 6,222' GR AKAH

17. Rotary or cable tools
 Rotary

18. Elevations (Show whether DF, RT, GR, etc.)
 5,147' GR

19. Approx. date work will start*
 3-18-90

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NOV 16 1990

DIVISION OF
OIL, GAS & MINING
→ SUNE

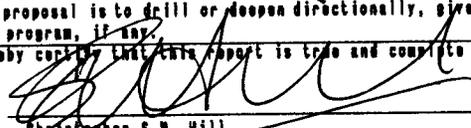
23. PROPOSED CASING AND CEMENTING PROGRAM

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	6,222'	858 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

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

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

Signed  Title Petroleum Engineer Date 16 November, 1990
 Christopher S. D. Hill

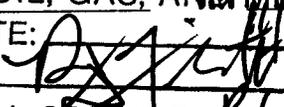
(This space for Federal or State office use)

API NO. 43-037-31575 Approval Date _____

Approved by _____ Title _____

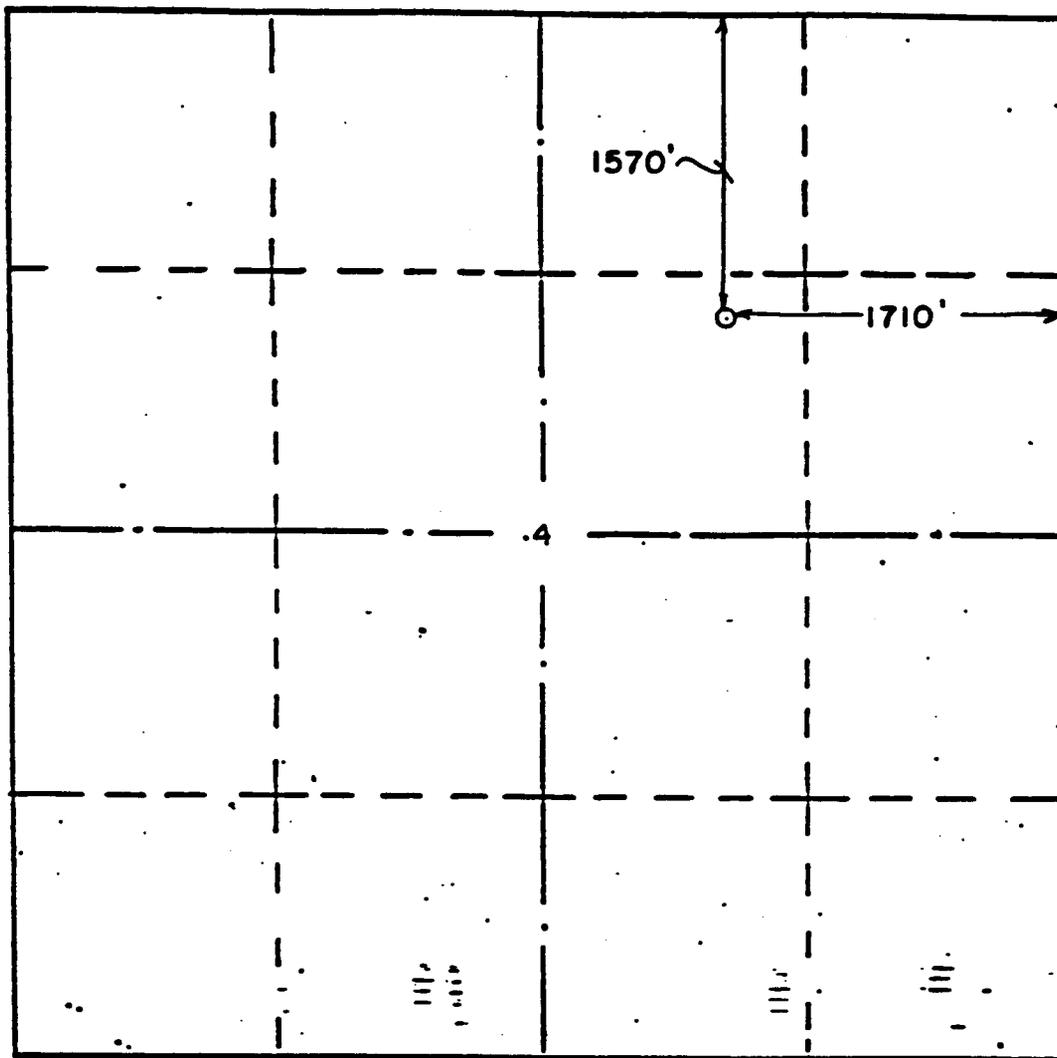
Conditions of approval, if any: _____

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

DATE: 11/16/90
BY: 
WELL SPACING: Rel-3-3

*See Instructions On Reverse Side

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Rabbit Brush 4 - G - 1

1570'FNL & 1710'FEL

Section 4, T.40 S., R.25 E., SLM

San Juan, UT.

5147' ground elevation

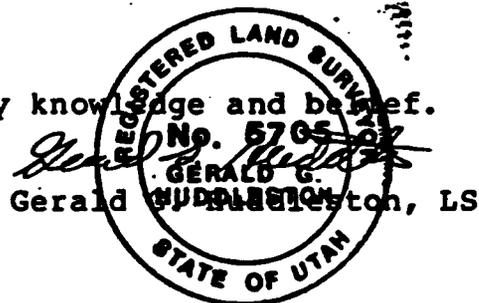
State plane coordinates from seismic control:

x = 2,676,284

y = 254,007

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

09 November 1990



Gerald G. Hubbard, LS

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Rabbit Brush 4G Well No. 1
Section 4, Township 40S, Range 25E
1570' FNL, 1710' FEL
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Dakota/Burro Sandstone

2. ELEVATION

Surface elevation is 5,147' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>	
Surface	Dakota/Burro Canyon	+ 5,147'	
147'	Morrison	+ 5,000'	
1,245'	Navajo	+ 3,902'	
1,892'	Chinle	+ 3,255'	
3,009'	DeChelly	+ 2,138'	
3,111'	Organ Rock	+ 2,036'	
3,796'	Cedar Mesa	+ 1,351'	
4,906'	Hermosa	+ 241'	
5,818'	Upper Ismay	- 671'	
5,927'	Lower Ismay	- 780'	Secondary Objective
5,999'	Desert Creek	- 852'	Primary Objective
6,157'	Akah	- 1,010'	
6,222'	Total Depth	- 1,075'	

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:	6,222'	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 221 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 182 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 619 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 5,000'

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

5,000' 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 5,000'.

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.

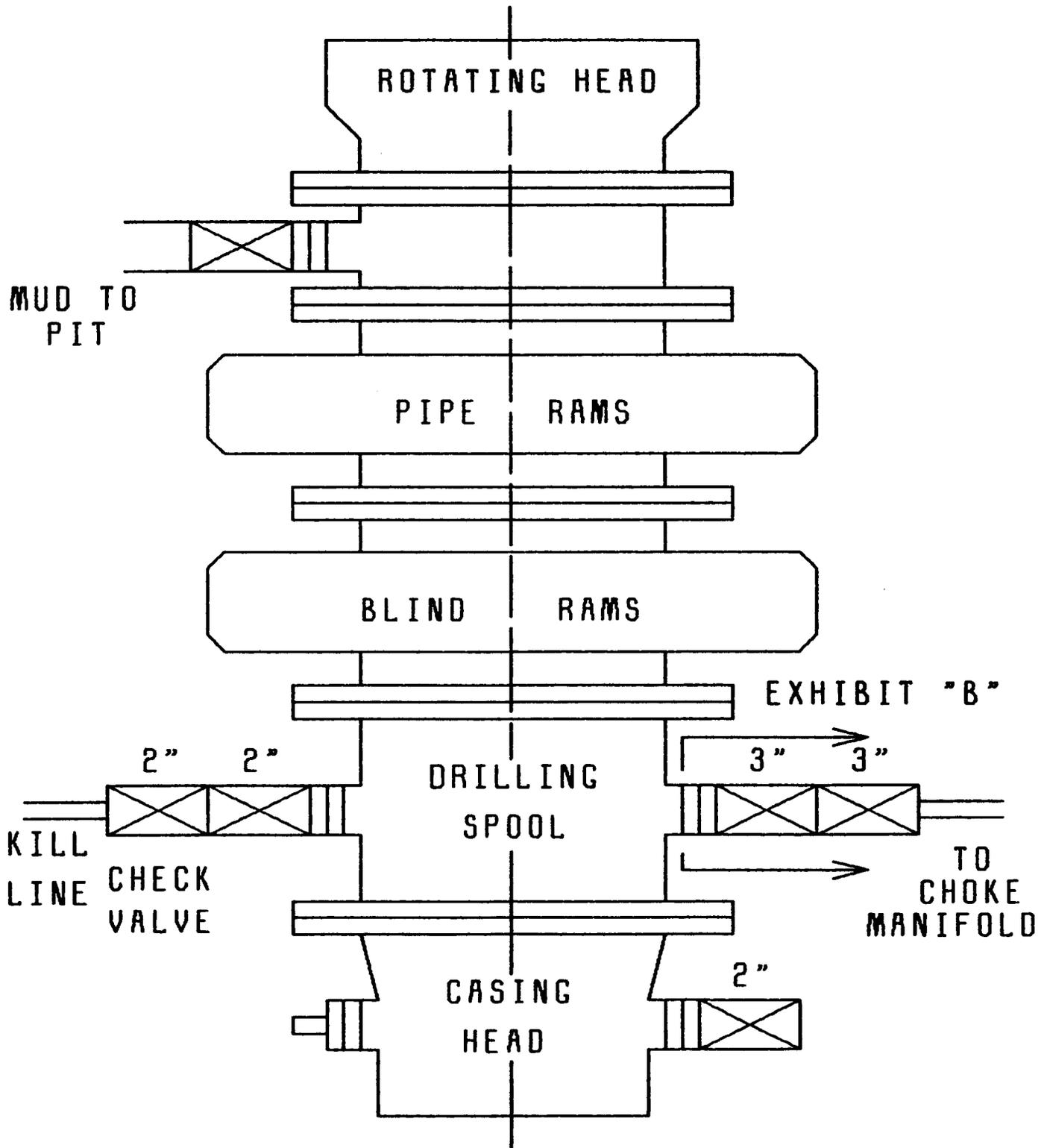
9. ABNORMAL PRESSURES/GAS

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 17 days. Anticipated spud date is 3-18-90.

EXHIBIT "A"
BLOWOUT PREVENTER



DETAILED DRILLING PROGRAM

DATE: 16 November, 1990

WELL NAME: Rabbit Brush 4G WELL NO.: 1

LOCATION: Section 4, Township 40S, Range 25E
1570' FNL, 1710' FEL
San Juan County, Utah

ELEVATION: 5,147' GR

TOTAL DEPTH: 6,222' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,999'.
Secondary target is the Lower Ismay at 5,927'.

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.

Rabbit Brush 4G Well No. 1
Section 4, Township 40S, Range 25E
1570' FNL, 1710' 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.

Rabbit Brush 4G Well No. 1
Section 4, Township 40S, Range 25E
1570' FNL, 1710' 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 on the Hovenweep road 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 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. Since access to the proposed location, from the main highway, lies entirely along an existing seismic line, it is not anticipated that any new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The nearest facilities are at the Runway 10G-1 location in Section 10, Township 40S, Range 25E.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, full stream production will be transported, via pipeline, to the Runway 10G-1 facility.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

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

7. METHODS OF HANDLING WASTE MATERIAL

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

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

10. PLANS FOR RESTORATION OF THE SURFACE

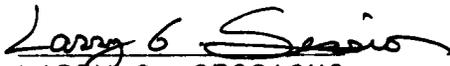
The location is laid out on a north/south trend and will require up to 17' of cut in the reserve pit (up to 5' of cut in the north eastern corner of the location pad) and up to 5' of fill in the north western corner of the location pad. Top soil removed from the pad will be stored at the well site. A 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.

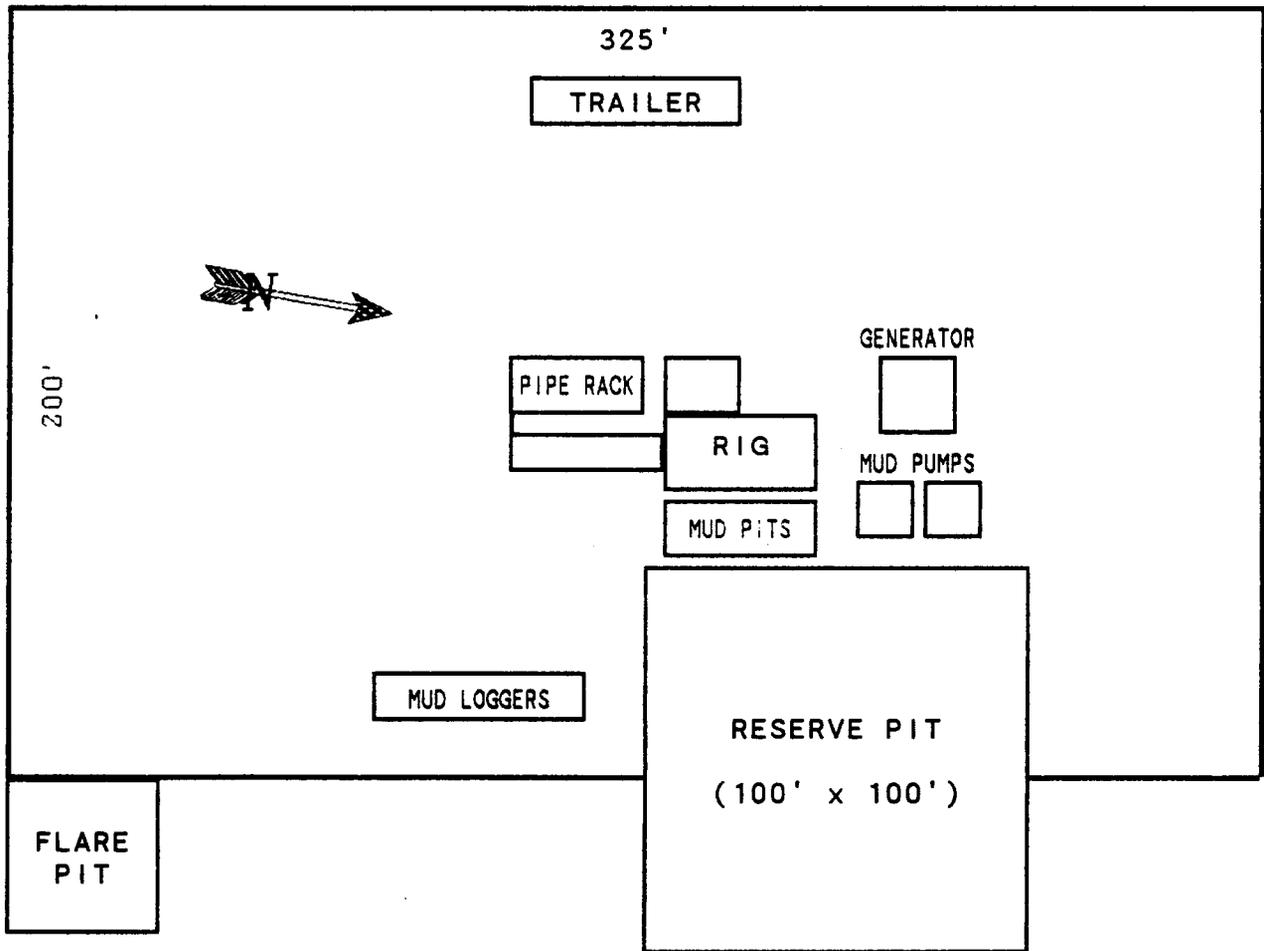

LARRY G. SESSIONS
Operations Manager

RABBIT BRUSH 4G-1

1570' FNL, 1710' FEL

SECTION 4, TOWNSHIP 40S, RANGE 25E

SAN JUAN COUNTY, UTAH



6	5	4	*RABBIT BRUSH 4G-1 3	2	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

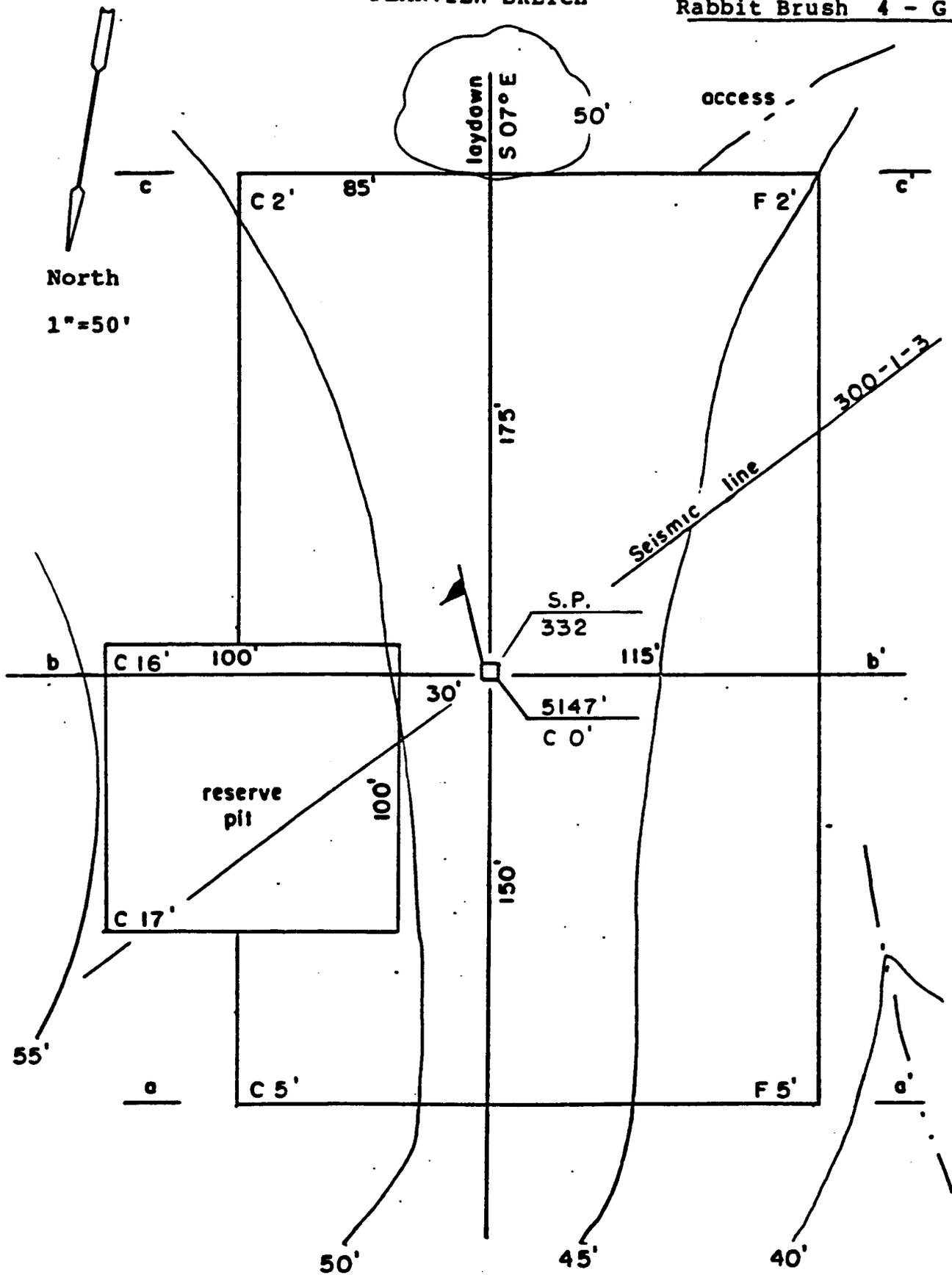
ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T40S-R25E, SAN JUAN COUNTY, UTAH

PLANVIEW SKETCH

Rabbit Brush 4 - G - 1



CROSS SECTION

Rabbit Brush 4 - G - 1

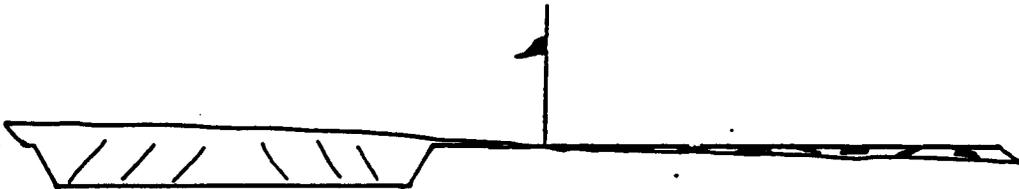
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1"=50' vert. & horz.



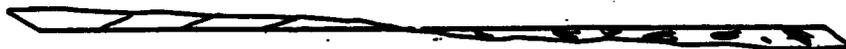
c

c'



b

b'



a

a'

OPERATOR Chuska Energy Co N. 9090 DATE 11-07-90

WELL NAME Rabbit Bush 4G #1

SEC SWNE 4 T 40S R 05E COUNTY Langshan

43-037-31575
API NUMBER

Indian (0)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD
SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well in sec 4, 40S, 05E
Water Permit 09-1704 (T64796) or 09-1703 (T64795)
Exception location requested.

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R615-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

CC: BTA

CONFIDENTIAL
PERIOD
EXPIRED
ON 8-15-92



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bergquist

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

366 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

November 29, 1990

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

Gentlemen:

Re: Rabbit Brush 4G #1 - SW NE Sec. 4, T. 40S, R. 25E - San Juan County, Utah
1570' FNL, 1710' 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:

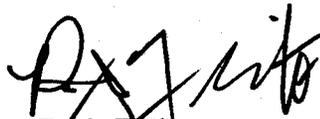
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During 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
Rabbit Brush 4G #1
November 29, 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 43-037-31575.

Sincerely,



R. J. Eirth
Associate Director, Oil & Gas

tas
Enclosures
cc: Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we14/1-2

DIVISION OF OIL, GAS AND MINING

WATER PERMIT OK

API NO. 43-037-31575 *del*

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY COMPANY

WELL NAME: RABBIT BRUSH 4-G-1

SECTION SWNE 4 TOWNSHIP 40S RANGE 25E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 222

SPUDDED: DATE 4-9-91

TIME 8:00 p.m.

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY CHRIS HILL

TELEPHONE # 505-326-5525

DATE 4-11-91 SIGNED TAS

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11214	43-037-31575	Rabbit Brush 4G-1	SW/NE	4	40S	25E	San Juan	4-9-91	
WELL 1 COMMENTS:				<p>MIRU Aztec Rig 222. Spudded 1630 hrs, 4-9-91.</p> <p><i>Indian - Lease</i> <i>Proposed Zone - Akah</i></p> <p><i>Field - Undesignated</i> <i>Entity added 4-17-91 Jca</i></p> <p><i>Unit - N/A</i></p>							
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 4-11-91
 Title _____ Date _____
 Phone No. 505-326-5525



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

Ref: Sundry Notice: Rabbit Brush 4G-1 Well
Spud/Set Surface 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\RABBRUSH.4G\SPUDSUN.CVR

encl.

RECEIVED

APR 15 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 Rabbit Brush 4G 1
10. API Well Number 43-037-31575 <i>drl</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, NM 87401	4. Telephone Number 505-326-5525
5. Location of Well Footage : 1570' FNL, 1710' FEL QQ, Sec. T., R., M.: SW/4 NE/4 S4 T40S R25E 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>Spud/Surface Casing</u>	

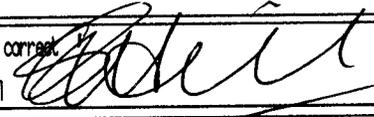
Date of Work Completion _____

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

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

MIRU Aztec Rig 222. Spudded 1630 hrs, 4-9-91. Drilled to 525' RU and ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar and landed at 521'. Cemented with 375 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 23 bbl slurry to pit. Notification of spud to State of Utah (Jim Thompson) at 1400 hrs, 4-9-91, by Chris Hill.

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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 11 Apr 91

(State Use Only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

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

8. Well Name and No.

Rabbit Brush 4G 1

9. API Well No.

43-037-31575

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan, Utah

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)
1570' FNL, 1710' FEL, S4, T40S, R25E

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 Spud/Surface 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 directional, drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MIRU Aztec Rig 222. Spudded 1630 hrs, 4-9-91. Drilled to 525' RU and ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar and landed at 521'. Cemented with 375 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 23 bbl slurry to pit. Notification of spud to BLM (Mike Wade) at 1630 hrs, 4-8-91, by Chris Hill.

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APR 15 1991

DIVISION OF
OIL GAS & MINING

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

Signed Christopher S. Hill Title Operations Engineer Date 11 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



CHUSKA ENERGY COMPANY

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

29 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

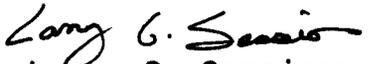
Ref: Sundry Notice: Rabbit Brush 4G #1 Well
Production Casing

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\RABBRUSH.4G\PRCSGSUN.CVR

encl.

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MAY 02 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

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

9. Well Name and Number
Rabbit Brush 4G 1

2. Name of Operator
Chuska Energy Company

10. API Well Number
43-037-31575

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 : 1570' FNL, 1710' FEL
 QG, Sec. T., R., M.: SW/4 NE/4 S4 T40S R25E

County: San Juan
State: UTAH

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 4-25-91

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.)

Drilled to 6,162', TD. Logged. RU and ran 152 joints 5 1/2", 15.5 lb/ft, J-55, LTC casing with guide shoe and float collar. Landed at 6,156' (float collar at 6,138' and DV tool at 3,490'). Cemented as follows:
 Stage 1: Lead with 875 sx Class 'G' cement 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tail with 430 sx Class 'G' cement with 0.6% D-60 and 1/4 lb/sk Celloflake. Displaced with water. Circulated 50 bbl slurry to pit.
 Stage 2: Lead with 1200 sx Class 'G' cement 35:65 Poz with 6% gel and 1/4 lb/sk Celloflake. Tail with 100 sx Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Displaced with water. Circulated 60 bbl slurry to pit.
 Rig released 0600 hrs, 4-25-91. Notification of job to BLM (recording) at 1615 hrs, 4-23-91, by Robert Nealy.

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

Name & Signature

Christopher S.W. Hill

Title

Operations Engineer

Date

29 Apr 91

(State Use Only)

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MAY 02 1991



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

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MAY 20 1991

DIVISION OF
OIL GAS & MINING



CHUSKA ENERGY COMPANY

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

5 June, 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: Completion Report: Rabbit Brush 4G-1 Well

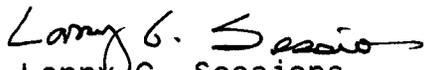
Gentlemen

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

Chuska requests that the information contained in this report be kept confidential.

Please advise if you require additional information concerning this submission.

Sincerely,


Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\RABBRUSH.4G\CRCOVER

encl.

RECEIVED

JUN 10 1991

DIVISION OF
OIL GAS & MINING

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

CONFIDENTIAL

RECEIVED

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

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
Rabbit Brush 4G
WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA
S4 T40S R25E

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 1570' FNL, 1710' FEL
At top prod. interval reported below Same
At total depth Same

14. API NO. 43-037-31575 DATE ISSUED 11-29-90 12. COUNTY San Juan 13. STATE Utah

15. DATE SPUDED 4-9-91 16. DATE T.D. REACHED 4-22-91 17. DATE COMPL. (Ready to prod.) 5-15-91 (Plug & Abd.) 18. ELEVATIONS (DF, RKB, RT, OR ETC.) 5,147' GR/5,160' KB 19. ELEV. CASINGHEAD 5147' GR

20. TOTAL DEPTH, MD & 6,162'(D)/6,163'(L) 21. PLUG BACK T.D., MD & TVD 5,996' 22. IF MULTIPLE COMPL., HOW MANY - 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)

(1) 5,860' - 5,876': Paradox (2) 6,051' - 6,064': Paradox / (3) 6,015' - 6,041': Paradox (4) 6,078' - 6,084' / 6,097' - 6,105': Paradox 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN 5-2-91 DLL MSFL/GR/CAL, LDT CNL/GR/CAL CYBERLOOK MLT/GR/CAL, BHCS/GR/CAL, MSCT MICROLOG 27. WAS WELL CORED YES [X] NO [] (Submit analysis) DRILL STEM TEST YES [] NO [X] (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	521'	12 1/4"	375 sx G + 2% CaCl ₂ . Cement to surface	
5 1/2"	15.5	6,156'	7 7/8"	S1: 875 sx G 35:65 Poz/6% Gel + 430 sx G. 50 bbl to pit S2: 1200 sx G 35:65 Poz/6% Gel + 100 sx G. 60 bbl to pit DV tool at 3,490'	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	30. TUBING RECORD
					SIZE 2 7/8" DEPTH SET (MD) 5,845' PACKER SET (MD) Nil

31. PERFORATION RECORD (Interval, size and number)
All perforations 4" casing gun at 4 spf
6,078' - 6,084' / 6,097' - 6,105': 56 holes
6,051' - 6,064': 52 holes
6,015' - 6,041': 104 holes
5,860' - 5,876': 64 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6078'-84'/6097'-6105'	150 gal 15% HCl/3,050 gal 15% MSR-100
6,051' - 6,064'	150 gal 15% HCl/3,900 gal 15% MSR-100
6,015' - 6,041'	150 gal 15% HCl/7,800 gal 15% MSR-100

See reverse side for remaining acid treatments

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	OIL GRAVITY-API (CORR.)	

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

35. LIST OF ATTACHMENTS
No zone capable of economic production. Suspended pending further evaluation

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Operations Engineer DATE 6-5-91

See Spaces for Additional Data on Reverse Side

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File Chuska Energy
Rabbit Branch 46 #1
(Location) Sec 4 Twp 40S Rng 25E
(API No.) 43-037-31575

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

Other

1. Date of Phone Call: 8-31-92 Time: 4:15 PM

2. DOGM Employee (name) Jemima Thompson (Initiated Call
Talked to:

Name Brad (Initiated Call - Phone No. (505) 326-5525
of (Company/Organization) Chuska Energy

3. Topic of Conversation: Current Status of well.

4. Highlights of Conversation: - Well file and data base indicated that well was shut-in. Inspection by G.D. said well is PA'D. No paper work in file to indicate well was plugged.

Brad w/Chuska said well was PA'D last summer.

Status needs to be changed in files and data base.