

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS	WELL LOG	ELECTRIC LOGS	FILE	X	WATER SANDS	LOCATION INSPECTED	SUB REPORT NO.
DATE FILED	SEPTEMBER 10, 1993						
LAND FEE & PATENTED	STATE LEASE NO		PUBLIC LEASE NO			INDIAN NOG	
DRILLING APPROVED	JANUARY 27, 1992					8702-1116	
SPOUDED IN							
COMPLETED	PUT TO PRODUCING						
INITIAL PRODUCTION							
GRAVITY API							
GOR							
PRODUCING ZONES							
TOTAL DEPTH							
WELL ELEVATION							
DATE ABANDONED							
FIELD	UNDESIGNATED						
UNIT	NA						
COUNTY	SAN JUAN						
WELL NO	SHALENE 11K WELL					API NO. 43-037-31725	
LOCATION	2140' FSL	FT FROM (N) (S) LINE	1950 FEE	FT FROM (E) (W) LINE	NW SE	14 - 14 SEC	11

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
42S	24E	11	CHUSKA ENERGY COMPANY				

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WELL  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL  GAS  OTHER  S. SLOPE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Chuska Energy Company

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

4. LOCATION OF WELL (Show location clearly and in accordance with any State regulations)  
 At Surface 2140' FSL, 1950' FEL - *Surface*  
 At proposed prod zone 2010' FSL, 2570' FWL - *BH4*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
 8 1/2 miles SE of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE FT.  
 (Also to nearest well, and line, if any) 591'

16. ACRES OF ACRES IN LEASE 49,997

17. NO. OF ACRES ASSURED 23 1/4 AC.

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, OR LINE, OR OTHER PROPERTY  
 4429'

19. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, OR LINE, OR OTHER PROPERTY  
 5796 MD/5660 TVD, KB Rotary

20. WELL IDENTIFICATION NUMBER AND DATE OF PERMIT  
 4697' GR/4710' KB procedure not yet started to 43 CFR 3125.3  
 11-14-91

21. PROPOSED GAS USE AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	DEPTH	WEIGHT OF CEMENT
12 1/4"	8.5/8"	24 lb	500'	2' Cement
7 7/8"	5 1/2"	15.5 lb	5,796' MD	3' Cement

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Navajo Tribe

7. JOINT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Shalene

9. WELL NO.  
 11-K

10. FIELD AND POOL, IF APPLICABLE  
 Wildcat

11. SEC., T., R., S., OR ALK AND SURVEY OR AREA  
 S11 T42S R24E

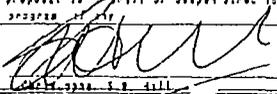
12. COUNTY OR PARISH  
 San Juan

13. STATE  
 Utah

Refer to attached 10-Point Drilling Plan etc

SEP 10 1993

14. ABOVE SPACE DESCRIBE PROPOSED PROGRAM - If proposed to be drilled or deepened, give well or proposed production zone and proposed non production zone. If proposed to be plugged, give well or proposed production zone and proposed non production zone and measured and true vertical depth. Also include completion program.

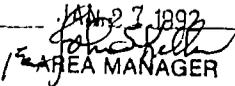
SIGNED  TITLE Operations Engineer DATE 12 July, 1993

(This space for Federal or State's office use)

PERMIT NO 43 031-31725 APPROVAL DATE

APPROVED BY CONDITIONS OF APPROVAL, IF ANY TITLE

APPROVED AS AMENDED

JAN 27 1992  
  
 AREA MANAGER

\*(See Instructions On Reverse Side)

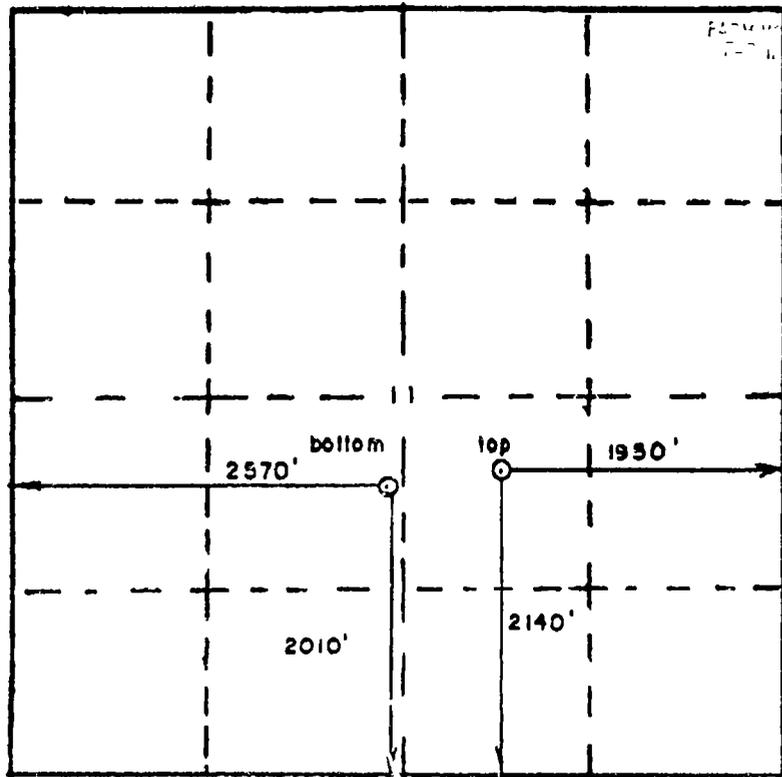
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.

OPERATIONAL

**WELL LOCATION PLAT**

RECEIVED  
GENERAL

12 16 AM 1991



North  
1" = 1000'

◆ brass cap

● stone

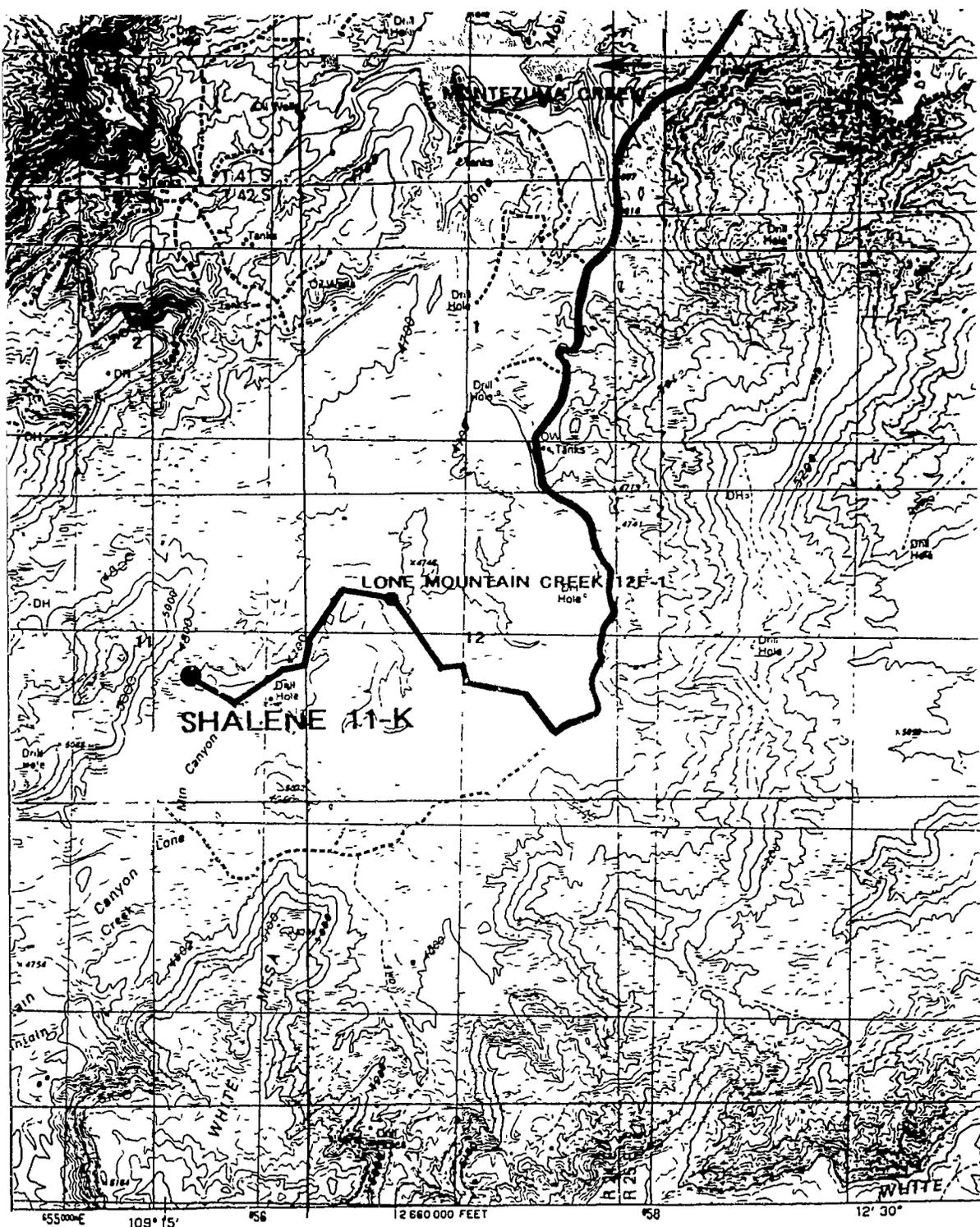
**WELL LOCATION DESCRIPTION:**

CHUSKA ENERGY CO., Shalene 11 - K (J)  
 2140' FSL & 1950' FEL (top hole)  
 2010' FSL & 2570' FWL (bottom hole)  
 Section 11, T.42 S., R.24 E., S1M  
 San Juan County, UT  
 4697' ground elevation  
 State plane coordinates from seismic control:  
 X = 2,656,353      Y = 183,950 (top hole)  
 X = 2,655,593      Y = 183,815 (bottom hole)

The above is true and correct to my knowledge and belief

26 June 1991

*Gerald G. Huddleston*  
 Gerald G. Huddleston, No. 8705  
 COUNTY CLERK  
 STATE OF UTAH



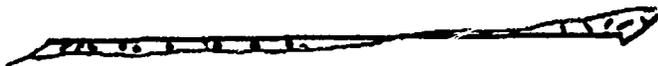


CROSS SECTION

Station 11 - K

Cut // // // //  
Fill 

1"=50' vert. & horiz.



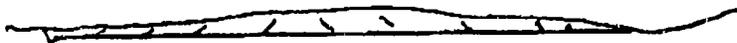
c

c'



b

b'



a

a'

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Shalene Well No. 11-K  
Section 11, Township 42S, Range 24E  
2140' FSL, 1950' FEL (Surface)  
2010' FSL, 2570' FWL (Target)  
1997' FSL, 2495' FWL (TD)  
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4697' GR/4710' KB.

3. ESTIMATED FORMATION TOPS

<u>Depth</u> <u>MD</u>	<u>Depth</u> <u>TVD</u>	<u>Formation</u>	<u>Sub Sea</u> <u>Elevation</u>	
Surface	Surface	Morrison	+ 4,710'	
480'	480'	Navajo	+ 4,230'	
1,184'	1,184'	Chinle	+ 3,526'	
2,380'	2,380'	DeCheily	+ 2,330'	
2,656'	2,656'	Organ Rock	+ 2,054'	
3,310'	3,310'	Cedar Mesa	+ 1,400'	
4,434'	4,380'	Hermosa	+ 330'	
5,317'	5,210'	Upper Ismay	- 500'	
5,434'	5,320'	Lower Ismay	- 610'	
5,498'	5,380'	Desert Creek	- 670'	Primary
5,700'	5,570'	Akah	- 860'	
5,796'	5,660'	Total Depth	- 950'	

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:	5796' MD	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft<sup>3</sup>) Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Slurry volume calculated at 100% excess over annular volume.

## Production Cementing:

### First Stage

T.D. to 3,500' (stage collar @  $\pm$  3,500'). Lead with 160 sx Class 'G' cement, 65:35 Pozmix, with 6% gel. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 194 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 520 ft<sup>3</sup>. 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. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 100 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 772 ft<sup>3</sup>. Cement volumes calculated at 30% excess in open hole.

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

## 5. BLOWOUT PREVENTER (See attached schematics)

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

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

## 6. PROPOSED MUD PROGRAM

### Surface to 3,000'

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

### 3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.3 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 and BHCS-GR from T.D. to 4,500' MD.

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

9. ABNORMAL PRESSURES/GAS

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

10. TIMING

The drilling and evaluation of this well is estimated to be 20 days. Anticipated spud date is 11-14-91.

# EXHIBIT "A" BLOWOUT PREVENTER

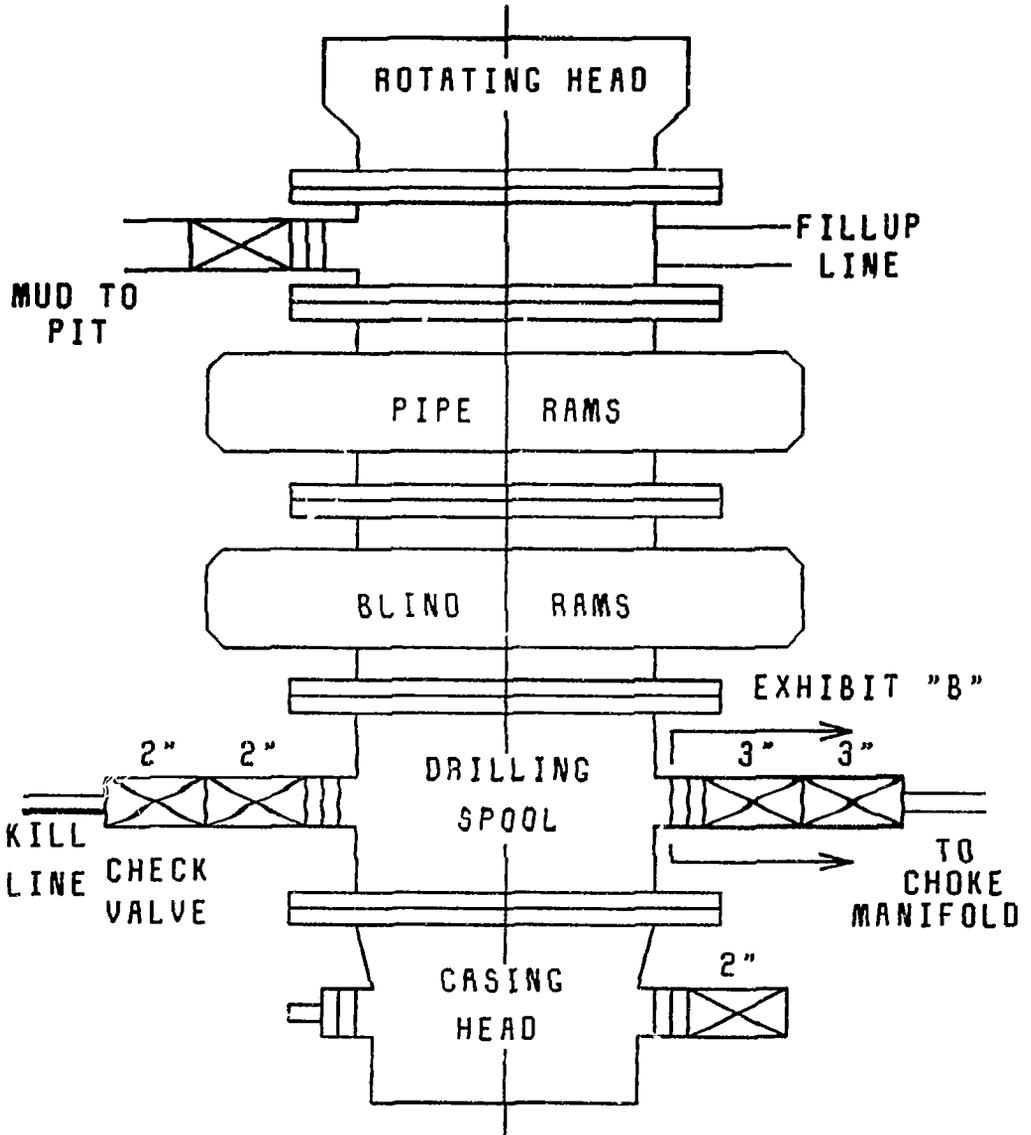
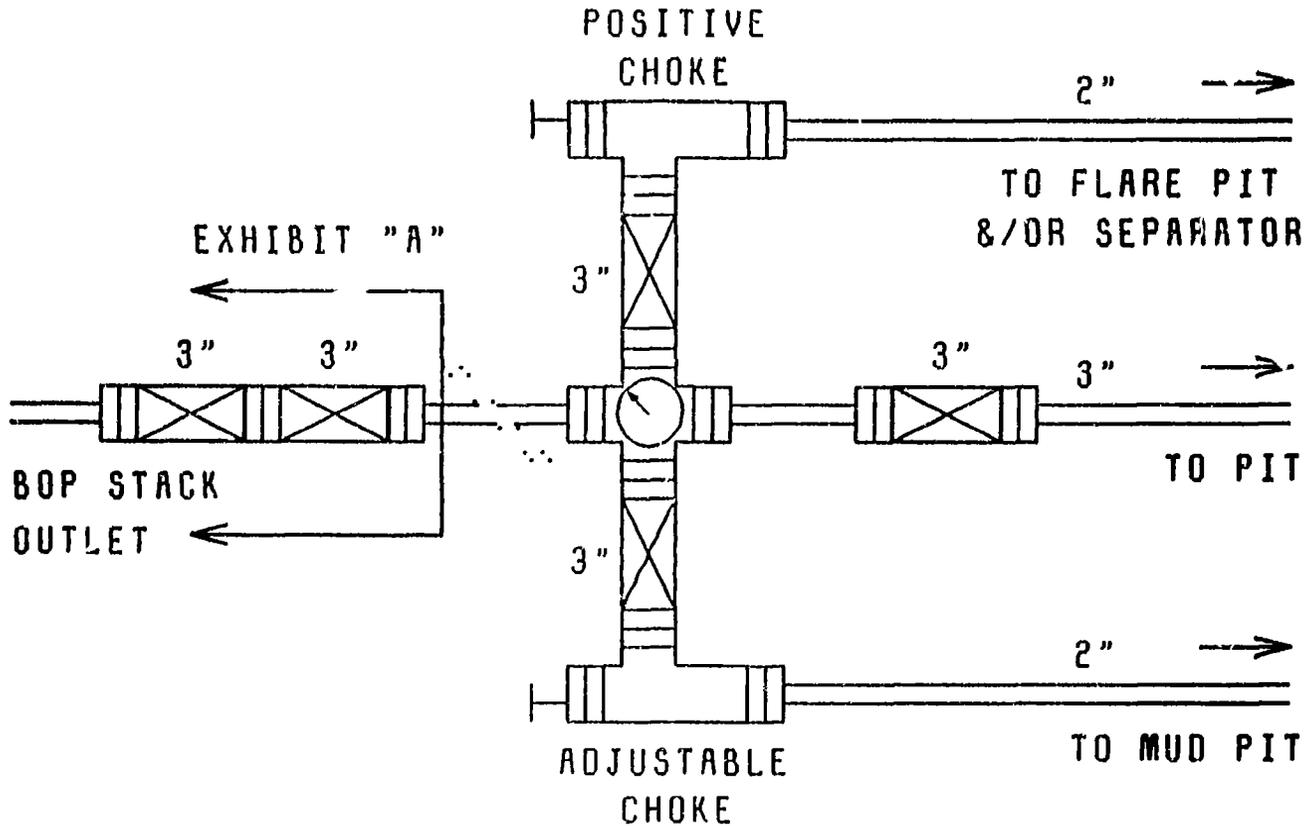


EXHIBIT "B"  
CHOKE MANIFOLD



## DETAILED DRILLING PROGRAM

DATE: 12 July, 1991

WELL NAME: Shalene WELL NO.: 11-K

LOCATION: Section 11, Township 42S, Range 24E  
2140' FSL, 1950' FEL (Surface)  
2010' FSL, 2570' FWL (Target)  
1997' FSL, 2495' FWL (TD)  
San Juan County, Utah

ELEVATION: 4697' GR/4710' KB

TOTAL DEPTH: 5796' MD/5660' TVD KB

PROJECTED HORIZON: Primary target is Desert Creek at 5498' MD,  
5380' TVD.

### DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to  $\pm$  500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1" at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. a minimum of 4 hours prior to nipling 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 2,658'. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5", with the maximum allowable rate of change to be 1"/100'. Take directional survey at 2,658'.
8. Rig up directional tools and start building angle, with rate of build 1.5" per 100 ft. Directional surveys are to be taken every 100', or as directed, while building angle.

9. Build angle to 20.0° by 3,991' MD/3,964' TVD. Continue drilling 7 7/8" hole to T.D. Directional surveys are to be taken at least every 250'.
10. Run multishot survey at total depth.
11. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.
12. If the well is determined to be productive, run 5 1/2", 15.1 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at ± 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.
13. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
14. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Shalene Well No. 11-K  
Section 11, Township 42S, Range 24E  
2140' FSL, 1950' FEL (Surface)  
2010' FSL, 2570' FWL (Target)  
1997' FSL, 2495' FWL (TD)  
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 as required. Detailed procedures to 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.

Shalene Well No. 11-K  
Section 11, Township 42S, Range 24E  
2140' FSL, 1950' FEL (Surface)  
2010' FSL, 2570' FWL (Target)  
1997' FSL, 2495' FWL (TD)  
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. 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. It is anticipated that approximately 3/4 mile of new road will need to be constructed to the location pad, from the Lone Mountain Creek 12F-1 well.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The locations of the Lone Mountain Creek 12F-1 well and tank battery are indicated on the attached topographic map.

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 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.

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on completion of

tify that either I, or persons under my direct  
have inspected the proposed drill site and access  
am familiar with the conditions which presently  
he statements made in this plan are, to the best  
dge, true and correct and that the work planned  
rmed by Chuska Energy, or its sub-contractors, in  
ith the terms and conditions under which it is

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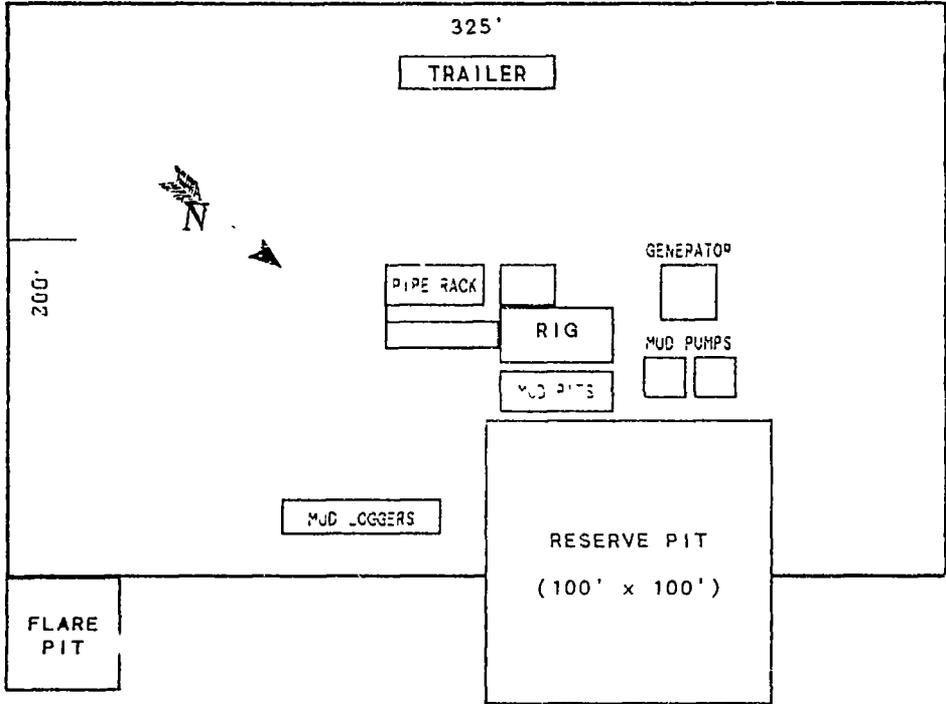
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and fill diagram

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# SHALENE 11-K

SECTION 11, TOWNSHIP 42S, RANGE 24E  
2140' FSL, 1950' FEL (SURFACE)  
2010' FSL, 2570' FWL (TARGET)  
1997' FSL, 2495' FWL (TD)  
SAN JUAN COUNTY, UTAH





F. Prior approval by the BLM-Authorized Officer (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies on Federal leases and an original and four copies on Indian leases).

G. The Area Manager's Office (Inspection and Enforcement Section, phone number (505) 326-6201) is to be notified at least 24 hours in advance of any cementing or plugging operations so that a BLM representative may witness the operations.

H. Unless drilling operations are commenced within one year, approval of the Application for Permit to Drill will expire. A written request for a six month extension may be granted if submitted prior to expiration.

I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the toolpusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.

## II. REPORTING REQUIREMENTS

A. For reporting purposes, all leases, communitization agreements or unit agreements are to be referenced by the numbers and prefixes affixed to the respective contract documents by the issuing agency at the time of issue.

B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed:

1. Original and three copies on Federal and Original and four copies on Indian leases of Sundry Notice (Form 3160-5), giving complete information concerning:

a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of any and all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.

b. Intervals tested, perforated (include; size, number and location of perforations), acidized, or fractured; and results obtained. Show date work was done (a Sundry Notice is not required if a Completion Report is submitted within 30 days of the operation).

c. Subsequent Report of Abandonment, showing the manner in which the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were placed, and dates of the operations.

2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.

3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run),

4. A cement evaluation log if cement is not circulated to surface.

### III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log:

1. Blowout preventer pressure tests, including test pressures and results.

2. Blowout preventer tests for proper functioning.

3. Blowout prevention drills conducted.

4. Casing run, including size, grade, weight, and depth set.

5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..

6. Waiting on cement time for each casing string.

7. Casing pressure tests after cementing, including test pressure and results.

8. Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

### IV. GAS FLARING

A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of \_\_\_\_\_\* days or 50 days following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

\* 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

A. Any change of plans required in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section I.F..

B. If the well is dry it is to be plugged in accord with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section I.F.. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1.c..

C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drillsite without prior approval from the BLM-Authorized Officer.

VII. SPECIAL STIPULATIONS

The following special requirements apply and are effective when checked:

  A. A Communitization Agreement covering the acreage dedicated to the well must be filed for approval with the Bureau of Land Management, Fluids, 1235 La Plata Highway, Farmington, New Mexico 87401. The effective date of the agreement must be prior to any sales.

  B. Note attachments.



16. NA FENCE (S) CROSSED BY THE ACCESS ROAD WILL BE BRACED AND TIED OFF BEFORE CUTTING OF THE WIRES TO PREVENT SLACKENING OF THE FENCE LINES. BOTH A GATE AND CATTLEGUARD WHICH MUST BE BIA APPROVED WILL BE INSTALLED.
17.  STORAGE TANK(S) INSTALLED ON THE LOCATION WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN 1-1/2 TIMES THE STORAGE CAPACITY OF THE TANK(S).
18.  THE STIPULATIONS SET FORTH IN THE ARCHEOLOGICAL CLEARANCE LETTER DATED 10/22/91 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-91-289
19.  UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO FLATE THE SURFACE OF THE WELL PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO RESEEDING.
20. NA THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE INSPECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

ALL CHANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE MANAGEMENT AGENCY CAN BE CONTACTED AT (505) 368-4427.

OTHER:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
NOG 8702-1116

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

6. If Indian, Alutian or Tribe Name  
Navajo Tribal

1A. Type of Well: DRILL  DEEPEN

7. Unit Agreement Name  
N/A

B. Type of Well: OIL  GAS  OTHER  SINGLE ZONE  MULTIPLE ZONE

8. Farm or Lease Name

2. Name of Operator  
Chuska Energy Company

9. Well Number  
Shalene 11 K

3. Address and Telephone Number  
3315 Bloomfield Highway, Farmington, N.M. 87401 505-326-5525

10. Field and Pool, or Wildcat  
Wildcat

4. Location of Well (Footages)  
At Surface 2140' FSL, 1950' FLL - Surface  
At Proposed Producing Zone 2010' FSL, 2570' FWL - BHLL

11. Co./Co., Section Township, Range, Meridian  
Sec. 11, T42S, R24E

14. Distance in miles and direction from nearest town or post office  
8 1/2 miles SE of Montezuma Creek, Utah

12. County San Juan 13. State UTAH

15. Distance to nearest property or lease line (feet) 591'

16. Number of acres in lease 49,997

17. Number of acres assigned in this well

18. Distance to nearest well, drilling completed or applied for on this lease (feet) 4429'

19. Proposed Depth 5796 MD/5660 TVD

20. Rotary or cable tools KB Rotary

21. Elevations (show whether OF RT, GR, etc)  
4697' GR/4710' KB

22. Approximate date work will start  
11-14-91

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl2
7 7/8"	5 1/2"	15.5 lb	5,796' MD	810 sx 'G', 65:35 Poz +6% Gel

DESCRIBE PROPOSED PROGRAM. If proposal is to deepen 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 prevention program if any.

REFER TO ATTACHED 10 POINT DRILLING PLAN

24. Name & Signature   
BARRY A. WIELAND

Title OPERATIONS MANAGER Date 5-27-92

(This space for State Use only)

API Number Assigned 43 621-31725

Approval



# 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

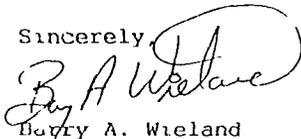
Monument 17E-2  
Mule 31K  
Mule 31K(N)  
Mule 31M  
NW Cajon 1I-1  
North Heron 35C  
Northwest Cajon 6E  
North Cajon Mesa 5E-1  
North Ruins 16K  
Peñ Lake 25B  
Tower 1F  
Box Canyon 5F  
Shalene 11K  
South Triangle 7I  
West Clay Hill 5B(A)

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

10/22/93  
api num: 43-037-31105-D TAIL WELL menu: opt 00  
entity: prod zone: sec twshp range qr-qr  
well name: Shalene 11K 11 425 24L NWSE  
operator: CHUSKA ENERGY COMPANY meridian:  
field: Undesignated  
confidential flag: — confidential expires: alt addr flag:

\*\*\* application to drill, deepen, or plug back \*\*\*  
lease number: NOG 8702-1116 lease type: 2 well type: OW  
surface loc: 2140 FSL 1950 FEL unit name:  
prod zone loc: 2010 FSL 2570 FWL depth: 5660 (rvd) proposed zone: IS-DC  
elevation: 4697GR apd date: 1-27-92 auth code: ~~649~~ (6/...)

\*\*\* completion information \*\*\*  
spud date: date recd: la/pa date:  
producing intervals: compl date: total depth:  
bottom hole: first prod: well status:  
24hr oil: 24hr gas: 24hr water: gas/oil ratio:  
\*\*\* well comments: api gravity:

BLM APD Approval Date used: Directional, BHL NESW  
opt: 21 api: zone: date(yymm): enty acct: