

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE **X** WATER SANDS LOCATION INSPECTED SUB REPORT NO

W-100, 100-01-100-14-17-1

DATE FILED **9-17-90**

LAND FEE & P/ ED STATE LEASE NO PUBLIC LEASE NO INDIAN **8702-1116**

DRILLING APPROVED **9-22-90**

SPOUDED IN
COMPLETED PLT TO PRODUCING

INITIAL PRODUCTION
GRAVITY API **0.2149**

GOR
PRODUCING ZONES

TOTAL DEPTH
WELL ELEVATION
DATE ABANDONED **PA 0-7-90**

FIELD **UNDESIGNATED**

UNIT
COUNTY **SAN JUAN**

WELL NO **MONUMENT 17L #3** API NO. **43-037-31552**

LOCATION **2100 FSL** FT FROM (N) IS. LINE **730 FWL** FT FROM (E) W. LINE **NW SW** 14 - 14 SEC **17**

FWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
40S	25E	17	CHUSKA ENERGY CO.				



CHUSKA ENERGY COMPANY

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

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

13 September, 1990

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

RECEIVED
SEP 17 1990

DIVISION OF
OIL GAS & MINING

Ref: Application for Permit to Drill
Monument 17L-3 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 Monument 17L Well No. 3 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

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\MONUMENT.17L\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

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: 2100' FSL, 730' FWL
At proposed prod. zone: Same

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

6. If Indian, Allottee or Tribe Name: Navajo Tribal

7. Well Agreement Name: Monument 17L

8. Name of Lease Name: Monument 17L

9. Well No.: 3

10. District and Pool, or Village: Monument/Paradox

11. 40, Sec. T, R, N., or S.W. and Survey or Area: Oil GAS & Water

12. County or Parish: San Juan

13. State: Utah

14. Distance in miles and direction from nearest town or post office: 7 miles North of Aneth, Utah

15. Distance from proposed location to nearest property or lease line, ft (Also to nearest drlg line, if any): 783'

16. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft: 1,583'

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

18. Proposed depth: 5,978' GR AKAH

19. Rotary or cable tools: Rotary

20. Elevation (Show whether SF, RT, GR, etc.): 4,878' GR

21. Approx. date work will start: 12-13-90

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24 lb	500'	371 sx 'G' + 2% CaCl ₂
7 7/8"	5 1/2"	15 5 lb	5,978'	828 sx 'G', 65-35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

OIL AND GAS	
DFN	FLF
JFB	GIH
DTS	SLS
1-TAS	
MICROFILM	
FILE	

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new product 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.

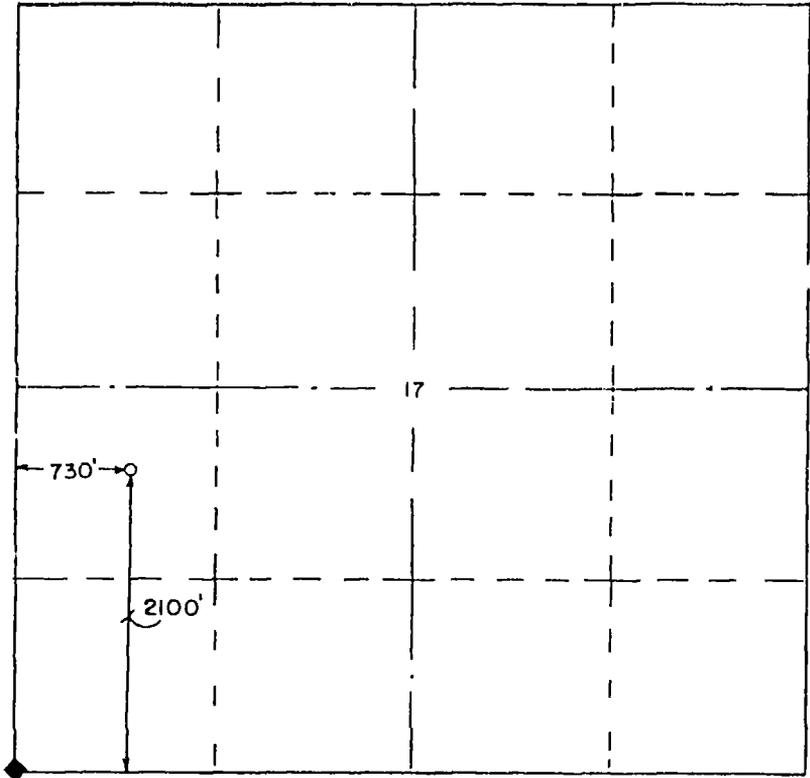
24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: *[Signature]* Title: Petroleum Engineer Date: 13 September, 1990

(This space for engineer's or other office use)
API NO. 43 037 31550 Approval Date: APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
Approved by: *[Signature]* Title: DATE: *[Signature]* BY: *[Signature]*

(3/89) *See Instructions On Reverse Side WELL SPACING: R415-30

WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:
CHUSKA ENERGY COMPANY, Monument 17 - L - 3
2100' FSL & 730' FWL
Section 17, T.40 S., R.25 E., SLM
San Juan, UT.
4878' ground elevation
State plane coordinates from seismic control:
x = 2,668,506 y = 241,645

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

29 August 1990

Gerald G. Huddleston
Gerald G. Huddleston, LS
REGISTERED LAND SURVEYOR
No. 6705
STATE OF UTAH

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Monument 17L Well No. 3
Section 17, Township 40S, Range 25E
2100' FSL, 730' FWL
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,878' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>
Surface	Morrison	+ 4,878'
948'	Navajo	+ 3,930'
1,633'	Chinle	+ 3,245'
2,708'	DeChelly	+ 2,170'
2,873'	Organ Rock	+ 2,005'
3,548'	Cedar Mesa	+ 1,330'
4,658'	Hermosa	+ 220'
5,588'	Upper Ismay	- 710'
5,693'	Lower Ismay	- 815'
5,753'	Desert Creek	- 875'
5,928'	Akah	- 1,050'
5,978'	Total Depth	- 1,100'

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	5,978'	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 193 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 179 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 564 ft³ Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 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 4,500'.

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 16 days. Anticipated spud date is 12-13-90.

EXHIBIT "A"
BLOWOUT PREVENTER

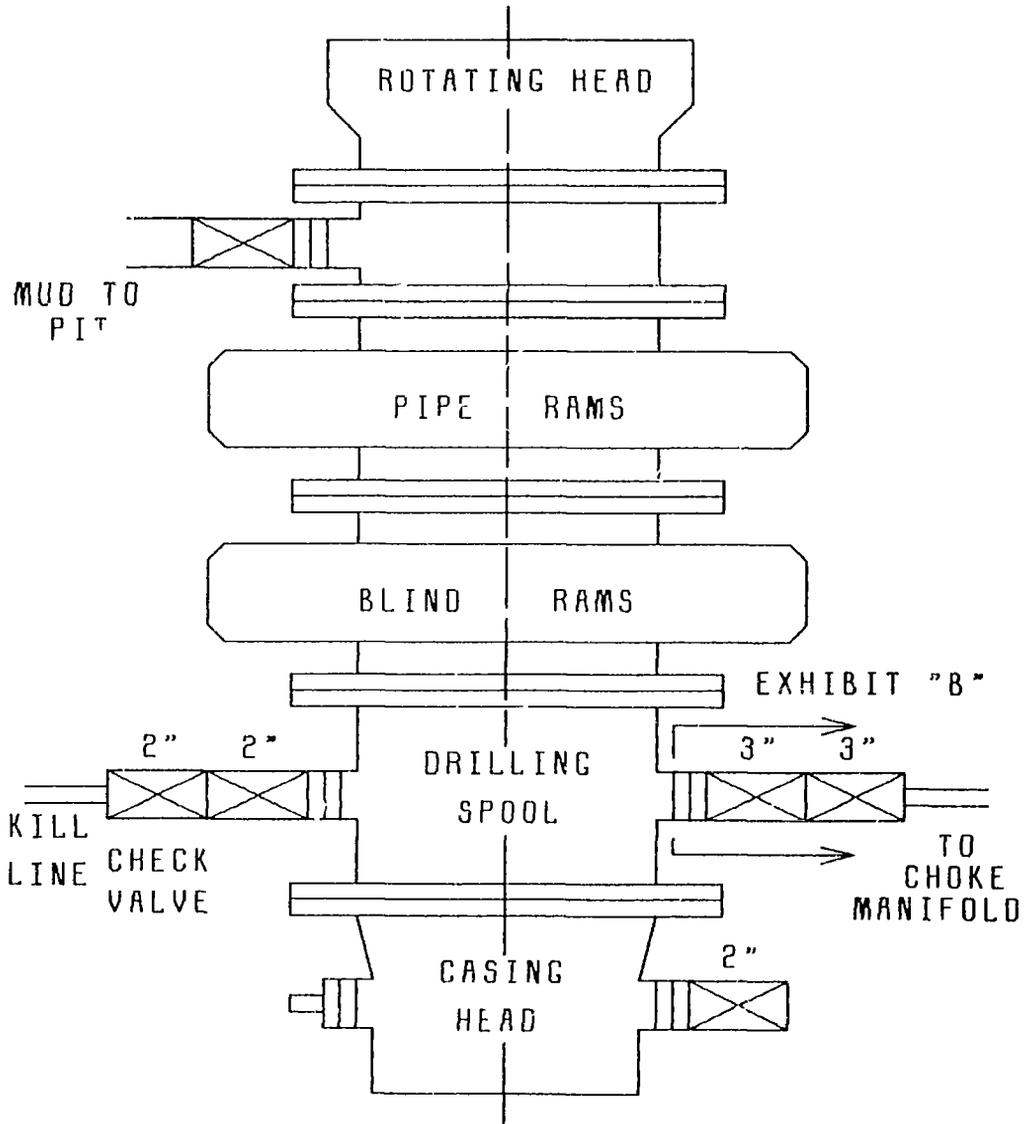
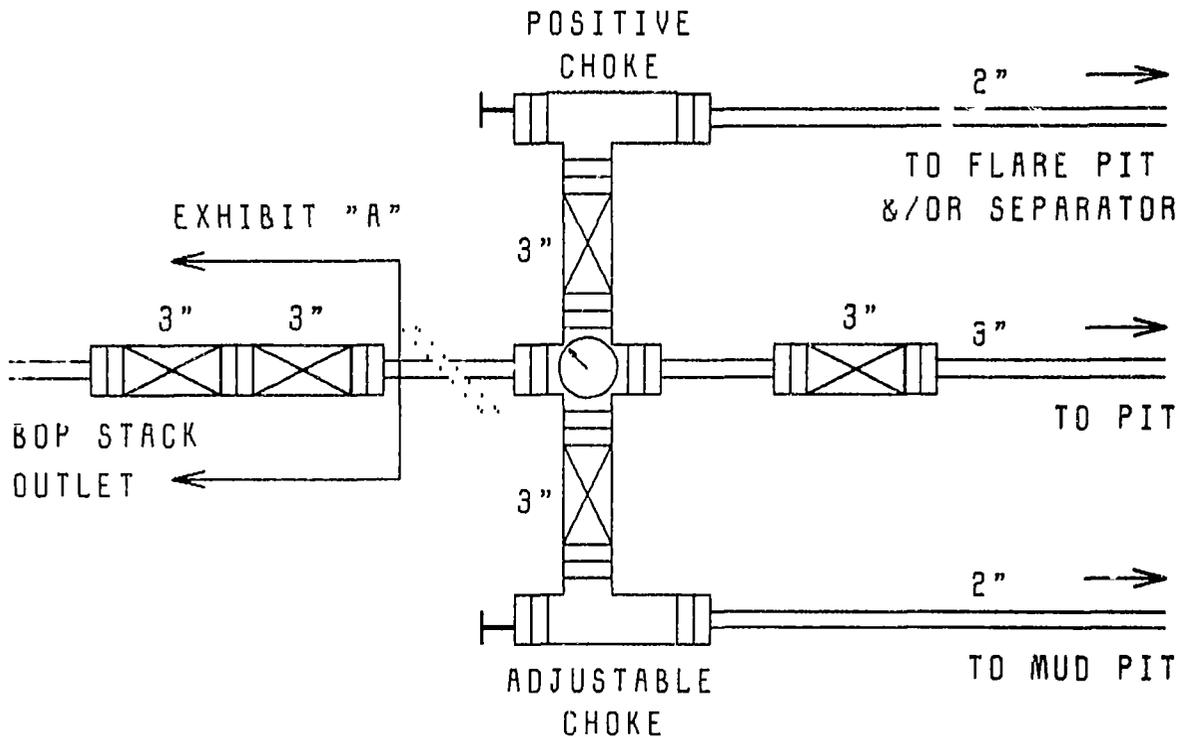


EXHIBIT "B"
CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE: 13 September, 1990

WELL NAME: Monument 17L WELL NO.: 3

LOCATION. Section 17, Township 40S, Range 25E
2100' FSL, 730' FWL
San Juan County, Utah

ELEVATION 4,878' GR

TOTAL DEPTH. 5,978' GR

PROJECTED HORIZON. Primary target is Desert Creek at 5,753'.

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 ft. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1" at 500 ft. Deviation surveys will be run at least at 250' and at casing point.
4. Run 3 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.

Monument 17L Well No 3
Section 17, Township 40S, Range 25E
2100' FSL, 730' FWL
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.

Monument 17L Well No 3
Section 17, Township 40S, Range 25E
2100' FSL, 730' FWL
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 (SHOWN IN RED)

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that less than 100' of new road will be required to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

The location of the Monument 8N-2 well is indicated on the attached topographic map.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Central facilities are shortly to be constructed at the Monument 8N-2 location. Should the well prove to be productive, production will be piped to these central facilities.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 09-1722, (T64794).

6. SOURCE OF CONSTRUCTION MATERIALS

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

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sites 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 south west/north east trend and will require up to 17' of cut in the reserve pit (up to 3' of cut in the eastern corner of the location pad) and up to 2' of fill in the 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
315 NORTH BEHREND AVENUE
FARMINGTON, NEW MEXICO 87401
LARRY G. SESSIONS

12. CERTIFICATION

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

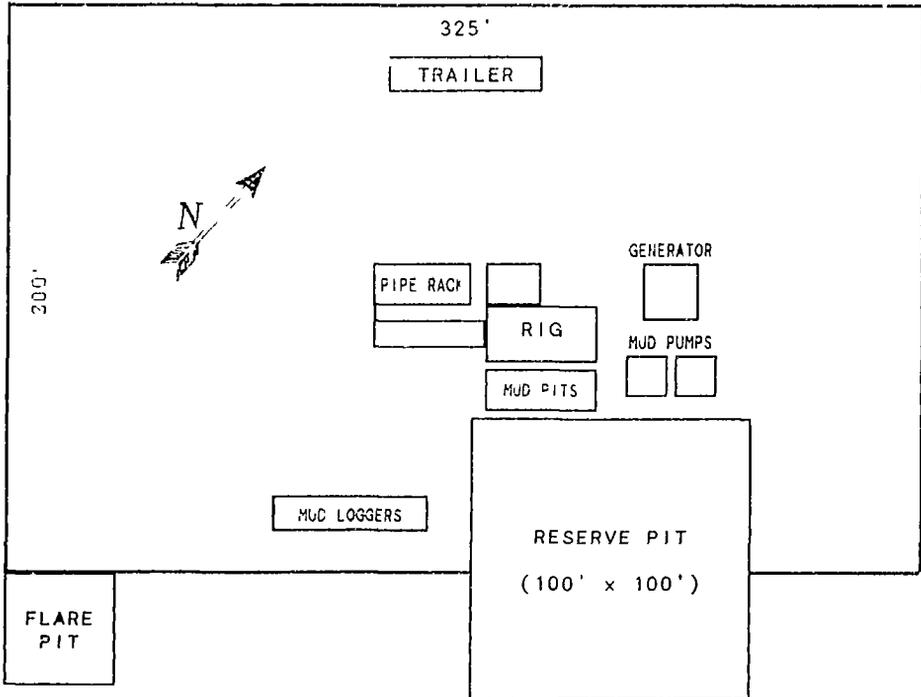

LARRY G SESSIONS
Operations Manager

MONUMENT 17L-3

2100' FSL, 730' FWL

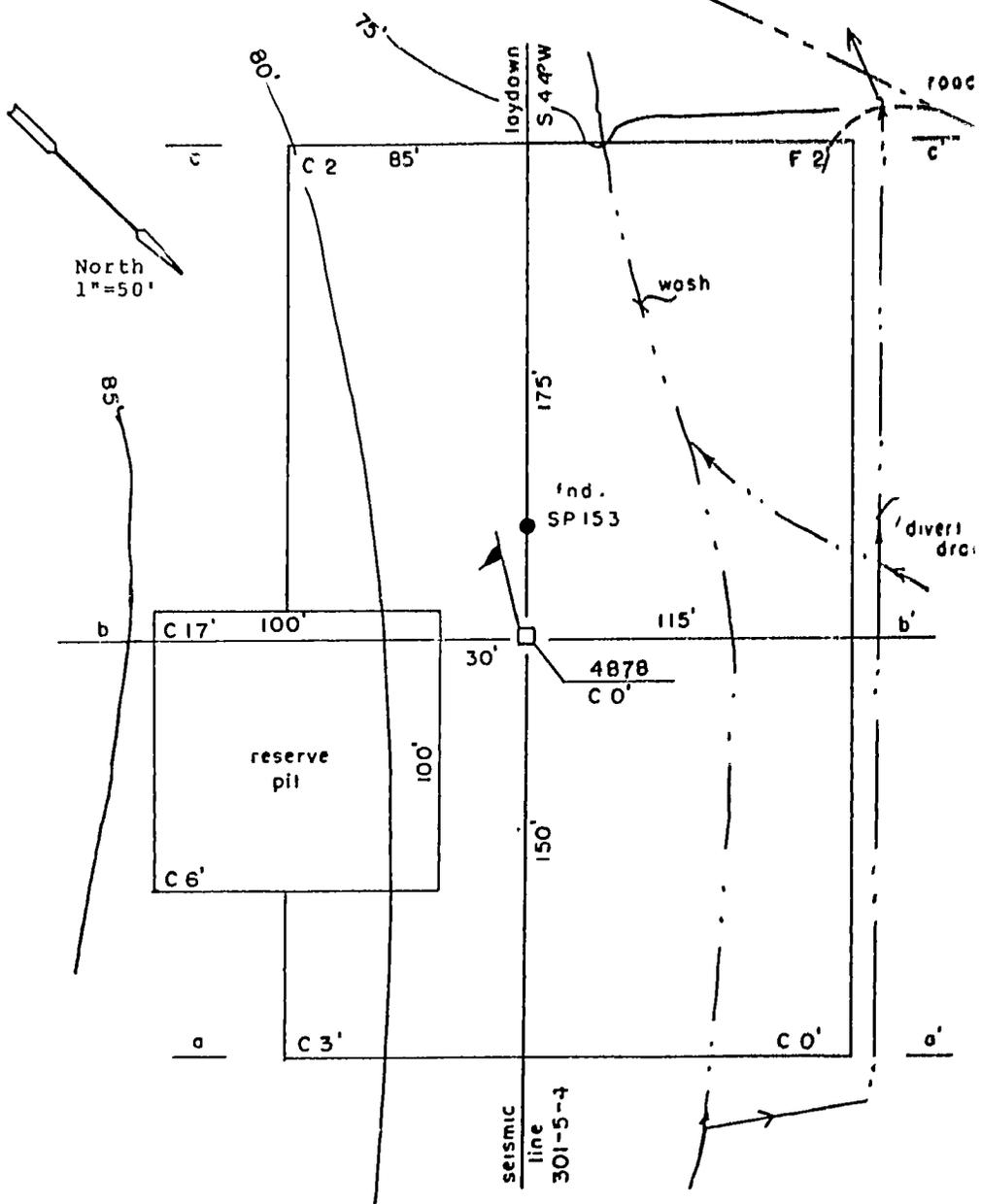
SECTION 17, TOWNSHIP 40S, RANGE 25E

SAN JUAN COUNTY, UTAH



Plan View Sketch

Monument 17 - :



Cross Section

Monument 17 - L - 3

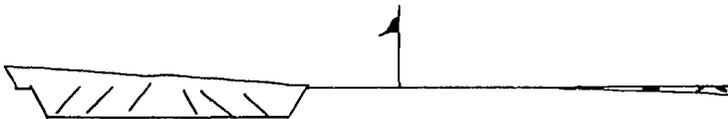
Cut 
Fill 

1"=50' Horz. & Vert.



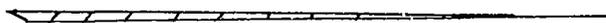
c

c'



b

b'



o

o'

OPERATOR Chuska Energy Co DATE 9-20-90

WELL NAME Monument 17L #3

SEC N1/4 17 T 40S R 05E COUNTY San Juan

43 037 31550
API NUMBER

Ordinary (w)
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

~~Proposed well is north of L/T Ruler on N1/4 or per cause~~
water permit 09-1700 (TL4794)

APPROVAL LETTER:

SPACING:

R615-2-3

N/A
UNIT

R515-3-2

~~17-01-00~~
CAUSE NO. & DATE

R615-3-3

STIPULATIONS

cc: BIA



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert
Governor
Dee C. Hansen
Executive Director
Dianne R. Nicolson, Ph.D.
Division Director

355 West North Temple
3 Triad Center Suite 350
Salt Lake City Utah 84100 1203
801 538 5340

September 22, 1990

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

Gentlemen.

Re Monument 17L #3 - NW SW Sec 17, T 40S, R 25E - San Juan County, Utah
2100' FSL, 730' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, 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
Monument 17L #3
September 22, 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.

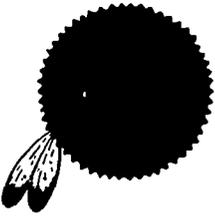
The API number assigned to this well is 43-037-31552

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

tas
Enclosures
cc. Bureau of Land Management
Bureau of Indian Affairs
J. L. Thompson
we i4/1-12



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 Chuska Energy Company data confidential until further notice

Thanks,

A handwritten signature in cursive script, appearing to read "Herb".

Herbert P. Mosca
Chuska Staff Geologist

RECEIVED

MAY 20 1991

DIVISION OF
OIL GAS & MINING

ENTITY ACTION FORM - FORM 6

ADDRESS _____

ACTION CODE	CURRENT ENTITY NO	NEW ENTITY NO	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					00	5C	TP	RG	COUNTY		
A	99999	11548	43-037-31518	<i>Per</i> NORTH RUINS 16L-1	NWSW	16	40S	25E	SAN JUAN		10-19-93
WELL 1 COMMENTS:											
A	99999	11549	43-037-31552	<i>Per</i> MONUMENT 17L-3	NWSW	17	40S	25E	SAN JUAN		10-19-93
WELL 2 COMMENTS:											
A	99999	11550	43-037-31521	<i>Per</i> BARNES 18M #1	SWSW	18	40S	25E	SAN JUAN		10-19-93
WELL 3 COMMENTS:											
A	99999	11551	43-037-31553	<i>Per</i> MONUMENT 18H #2	SENE	18	40S	25E	SAN JUAN		10-19-93
WELL 4 COMMENTS:											
A	99999	11552	43-037-31496	<i>Per</i> BIG BEND 7A-1	NENE	7	40S	26E	SAN JUAN		10-19-93
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)

le
L. CORDOVA (DOGM)
Signature _____

ADMIN. ANALYST _____ 10-19-93
Title _____ Date _____

Phone No (____) _____

NOTE: Use COMMENT section to explain why each Action Code was selected

FEBRUARY 8, 1994

TO: WELL FILE

FROM: K. M. HEBERTSON

Status, Monument 17L-3 43-037-31552 17-40S-25E

Per telephone conversation with the operator concerning the status of this well, it was determined that the well will not be drilled and the operator has acknowledged that the APD has expired. The operator has been informed that the APD will need to be refiled in order to drill this well at a future date.

As of the above date the APD has been rescinded and the file sent to the LA archives.

KMH