

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY 43-037-31601 ³¹⁷³¹

WELL NAME: LARK 19-G # 1 B(G)

Section 19 Township 42S Range 24E County SAN JUAN

Drilling Contractor AZTEC

Rig # 222

SPUDDED: Date 9/24/92

Time _____

How ROTARY

CONFIDENTIAL

Drilling will commence _____

Reported by GLENN GOODWIN-DOGM

Telephone # 1-587-2561

Date 10/2/92 SIGNED JLT



CHUSKA ENERGY COMPANY

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

September 7, 1993

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

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

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

Dear Mr. Firth:

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

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

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

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

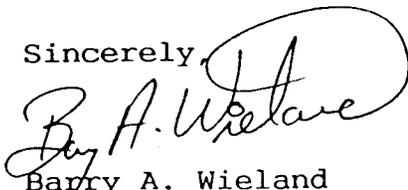
Monument 17E-2
Mule 31K
Mule 31K(N)
Mule 31M
NW Cajon 1I-1
North Heron 35C
Northwest Cajon 6E
North Cajon Mesa 5E-1
North Ruins 16K
Red Lake 25B
Tower 1F
Box Canyon 5F
Shalene 11K
South Triangle 7I
West Clay Hill 5B(A)

LOGS

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

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

Sincerely,



Barry A. Wieland
Operations Manager

Enclosures
cc: Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK			5. Lease Designation and Serial No. NOG 8702-1116																
1a. Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			6. If Indian, Allottee or Tribe Name Navajo Tribal																
b. Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>			7. Unit Agreement Name N/A																
2. Name of Operator Chuska Energy Company			3. Farm or Lease Name																
3. Address of Operator 3315 Bloomfield Hwy, Farmington, N.M. 87401 505-326-5525			9. Well No. Lark 19 B (G)																
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 332' FNL & 1790' FEL (surface) At proposed prod. zone 1340' FNL & 1890' FEL (Subsurface) NWNE			10. Field and Pool, or Wildcat Wildcat																
11. 00, Sec., T., R., N., or 9th. and Survey or Area Sec. 19, T42S, R24E			12. County or Parish San Juan																
14. Distance in miles and direction from nearest town or post office Apprx. 10 miles southwest of Montezuma Creek, Utah			13. State Utah																
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drile. line, if any) 1/4 mile		16. No. of acres in lease 49,997 acres		17. No. of acres assigned to this well															
18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft. apprx. 1,000'		19. Proposed depth 5702'		20. Rotary or cable tools Rotary															
21. Elevations (Show whether DF, RT, GR, etc.) 4989' GR/5002' KB			22. Approx. date work will start April, 1992																
PROPOSED CASING AND CEMENTING PROGRAM																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Size of Hole</th> <th>Size of Casing</th> <th>Weight Per Foot</th> <th>Setting Depth</th> <th>Quantity of Cement</th> </tr> </thead> <tbody> <tr> <td>12 1/4</td> <td>K-55 8 5/8</td> <td>24.0 ppf</td> <td>500'</td> <td>370 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake</td> </tr> <tr> <td>8 5/8</td> <td>J-55 5 1/2</td> <td>15.5 ppf</td> <td>5627'</td> <td>655 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake</td> </tr> </tbody> </table>					Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Quantity of Cement	12 1/4	K-55 8 5/8	24.0 ppf	500'	370 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake	8 5/8	J-55 5 1/2	15.5 ppf	5627'	655 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake
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SEE ATTACHED 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

CONFIDENTIAL

SEP 0

R649-3-3
BLM Approved 5-29-92

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.

Signature: [Signature] Title: Operations Manager Date: 5-27-93
BARRY A. WIELAND

(This space for Federal or State office use)

APT No. 43-037-31731 Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

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 (Report location clearly and in accordance with any State requirements.)
 At surface 332' FNL & 1790' FEL (surface) NWNE
 At proposed prod. zone 1340' FNL & 1890' FEL (Subsurface)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 appx 10 miles southwest of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1/4 mile

16. NO. OF ACRES IN LEASE
 49,997 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 appx 1000'

19. PROPOSED DEPTH
 5702'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4989' GR/ 5002' KB
This action is subject to technical and procedural review pursuant to 43 CFR 3123.3 and appeal pursuant to 43 CFR 3125.4

22. APPROX. DATE WORK WILL START*
 April '92

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	K-55 8 5/8	24.0ppf	500	370 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake
8 5/8	J-55 5 1/2	15.5ppf	5627	655 sx Class 'B' w/2% CaCl and 1/4 sx Celloflake

SEE ATTACHED 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

R649-3-3

APPROVED
AS AMENDED
CONFIDENTIAL
Spaki Deuchon
 for AREA MANAGER

IN ABOVE SPACE 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 preventer program, if any.

24. SIGNED *By A. Wheeler* TITLE Operations Manager DATE 3-17-92

(This space for Federal or State office use)

PERMIT NO. 43-037-31731 APPROVAL DATE _____

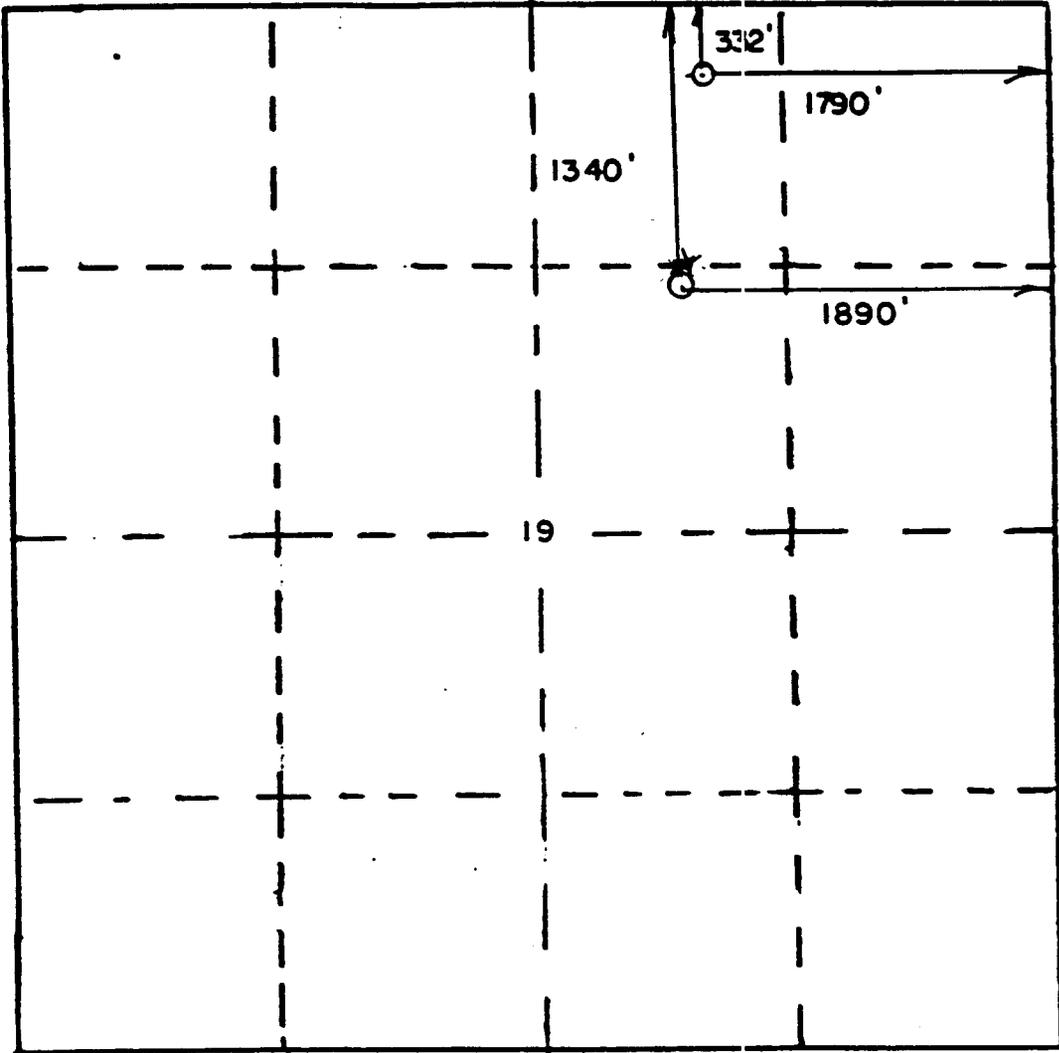
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side OPERATIONS

Well Location Plat

663



North

0' 1000'

1" = 1000'

◆ brass cap

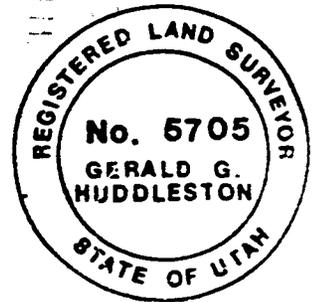
● stone

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Lark 19-B (G)
 332' FNL & 1790' FEL (top hole)
 1340' FNL & 1890' FEL (bottom hole)
 Section 19, T.42 S., R.24 E., SLM
 San Juan County, UT
 4989' ground elevation

State plane coordinates from seismic control:

X = 2,635,588 Y = 175,715 (top hole)
 X = 2,635,489 Y = 174,707 (bottom hole)



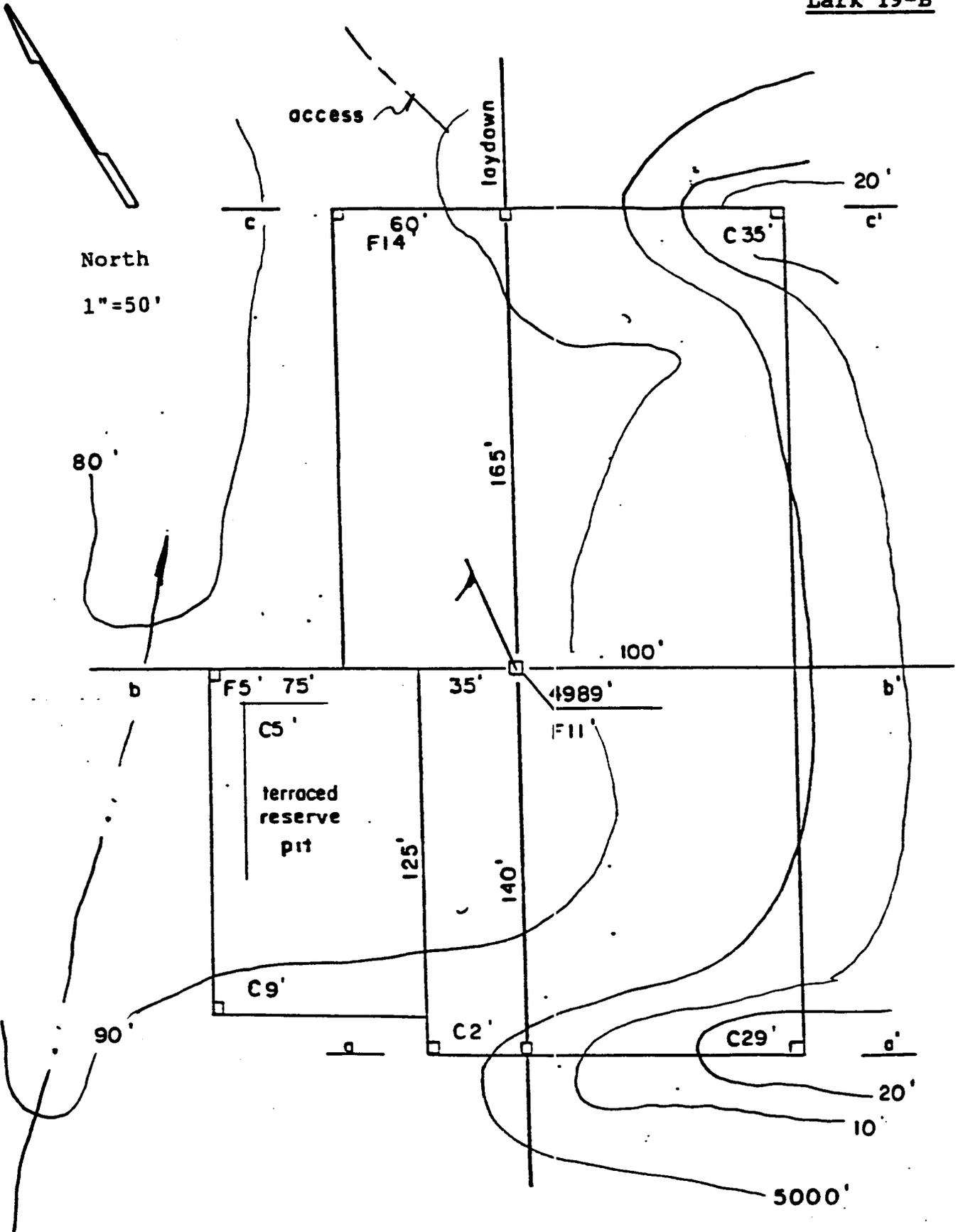
The above is true and correct to my knowledge and belief.

22 January 1992

Gerald G. Huddleston
 Gerald G. Huddleston, LS

PLANVIEW SKETCH

Lark 19-B

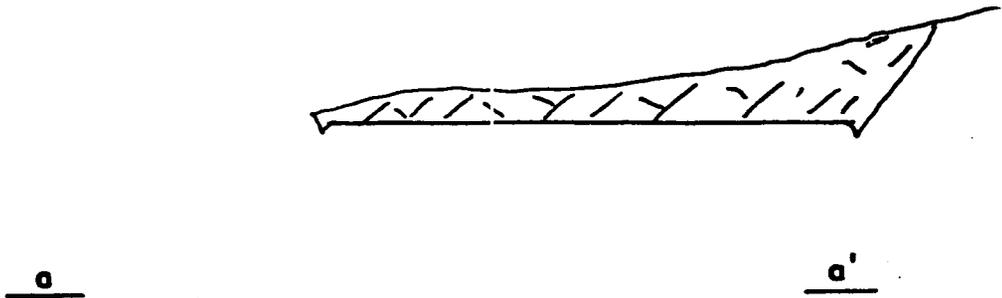
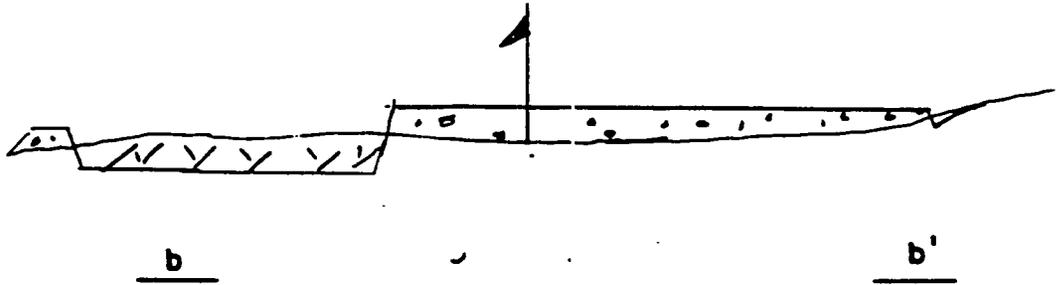
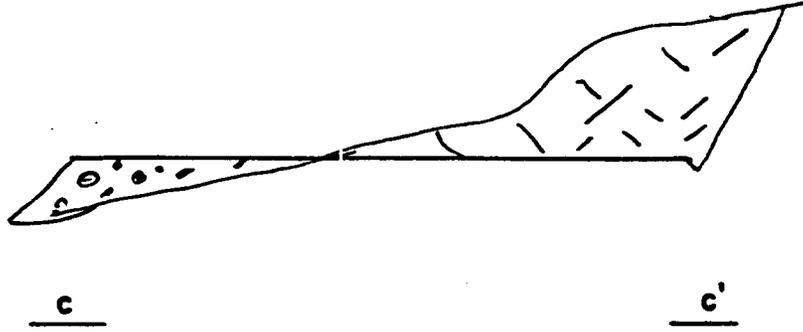


CROSS SECTION

Lark 19-B

Cut //
Fill -

1"=50' vert. & horz.



CHUSKA ENERGY COMPANY

LARK 19B(G)
 SECTION 19, TOWNSHIP 42 SCUTH, RANGE 24 EAST
 332' FNL & 1790' FEL (SURFACE)
 1340' FNL & 1890' FEL (SUBSURFACE)
 SAN JUAN COUNTY, UTAH

10 POINT DRILLING PLAN

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4989' GR/ 5002' KB

ESTIMATED FORMATION TOPS

TVD	MD	FORMATION	SUB-SEA ELEV.	
585'	585'	Navajo	+4417'	Water-bearing
1345'	1345'	Chinle	+3657'	
2495'	2495'	DeChelly	+2507'	Water-bearing
2769'	2769'	Organ Rock	+2233'	
3395'	3605'	Cedar Mesa	+1607'	
4415'	4503'	Hermosa	+587'	
5300'	5453'	Upper Ismay	-298'	
5425'	5587'	Lower Ismay	-423'	Secondary
5505'	5673'	Desert Crk	-503'	Primary
5627'	5804'	Akah	-625'	
5702'	5884'	Total Depth	-700'	

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5884'	5 1/2"	15.5 ppf	J-55	LTC

SURFACE CEMENTING:

370 sx Class 'B' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 175 sx Class 'B' cement, 65:35 Pozmix with 5% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'B' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 439 ft³ w/ 30% excess.

SECOND STAGE

3500' to surface. Lead with 480 sx Class 'B' 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 'B' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 633 ft³ w/ 30% excess.

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.

CENTRALIZERS:

8 5/8" Surface String: Center of shoe jt, jt.3, jt.5, jt.7, and surface jt.

5 1/2" Production String: Center of shoe jtl, jt.2, jt.4, jt.6, jt.8, and every 3rd jt., up to DV Tool @ +/-3500'. Four (4) centralizers through DeChelly and two (2) centralizers @ surface.

NOTE: Put asterik on each pipe tally joint for each centralizer installed.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per 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 3500'

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

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 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 rig floor.
- B. Full Opening Safety Valves (FOSV) will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

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 be 15 days. Anticipated drilling will be July '92.

EXHIBIT "A"

BLOWOUT PREVENTER

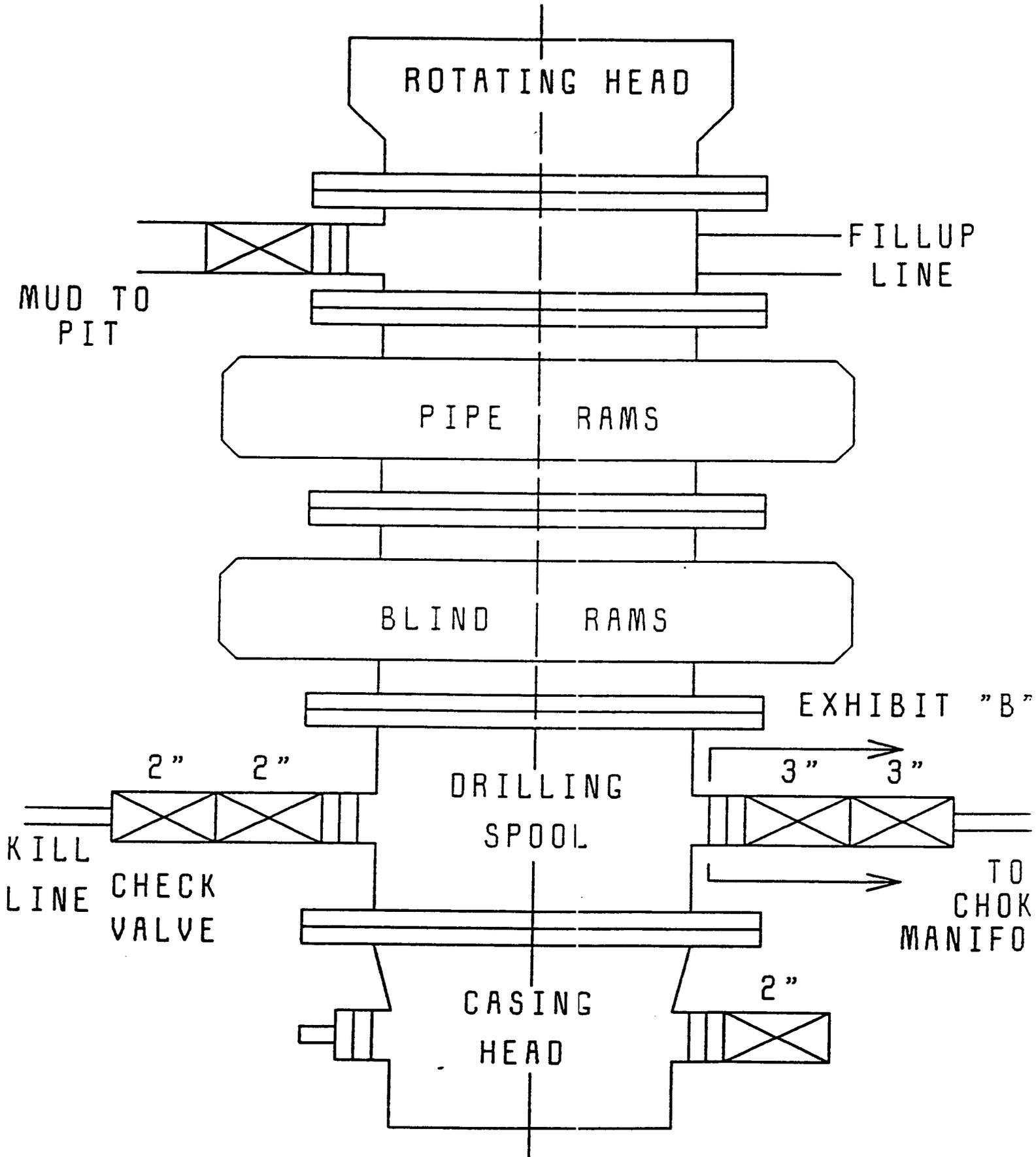
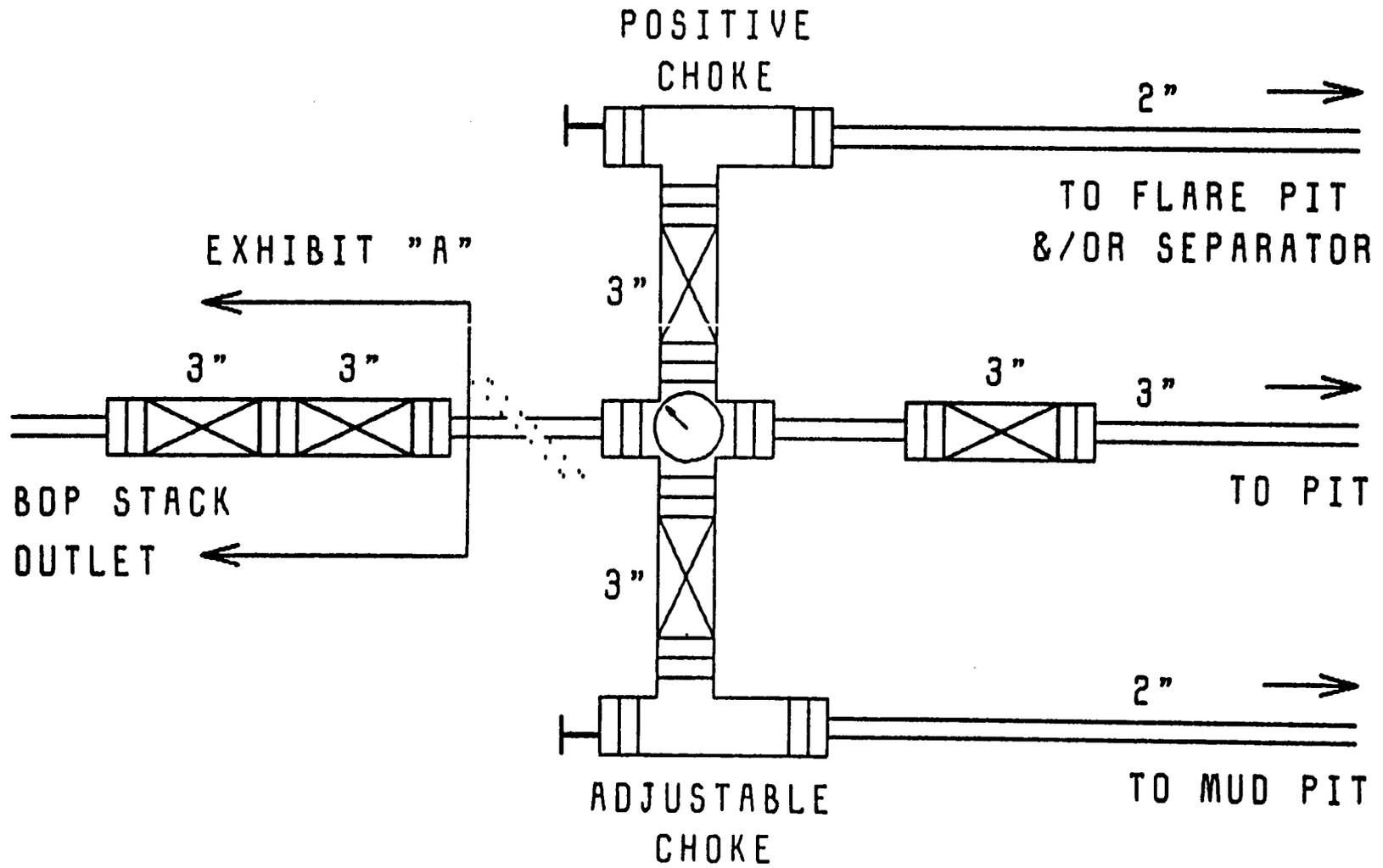
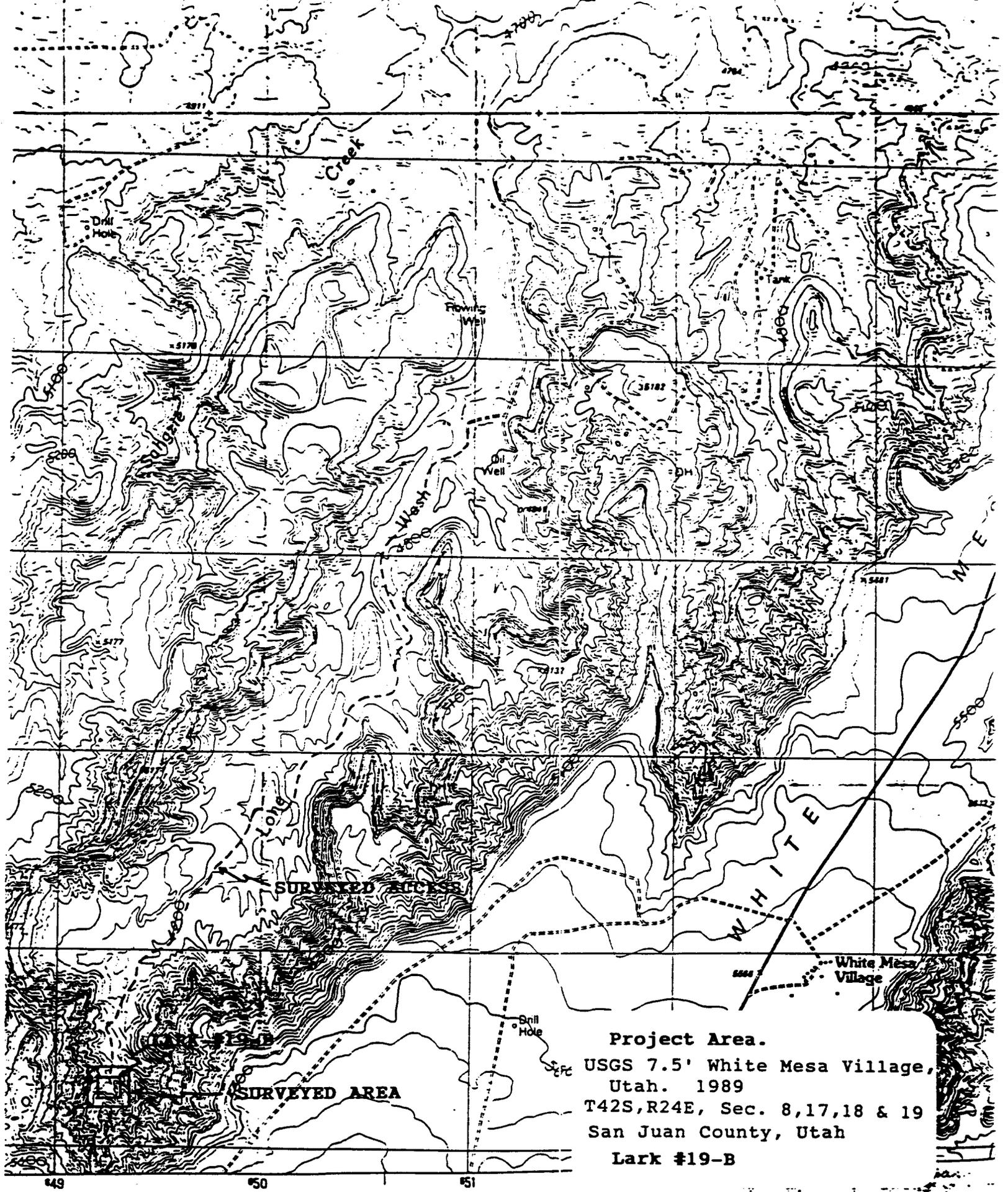


EXHIBIT "B"
CHOKE MANIFOLD





Project Area.
 USGS 7.5' White Mesa Village,
 Utah. 1989
 T42S, R24E, Sec. 8, 17, 18 & 19
 San Juan County, Utah
 Lark #19-B

SCALE 1:24 000



INTERIOR GEOLOGICAL SURVEY RESTON VIRGINIA 1989



Improv

DETAILED DRILLING PROGRAM

DATE: March 9, 1992

WELL NAME: Lark WELL NO.:19B(G)
Section 19, Township 42 South, Range 24 East
332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
San Juan County, Utah

ELEVATION: 4989' GR / 5002' KB

TOTAL DEPTH: 5702' KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5425'
Secondary Target is lower Ismay @ 5505'

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24 lb/ft, K-55, ST&C casing to 515'. Cement with 370 sx (426 ft³) of Class 'B' cement with 2% CaCl₂ and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. W.O.C. a minimum of 4 hours prior to nipping up for 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 2,500 psig for 30 minutes. Pressure test manifold and all related equipment to 2,500 psig. Pressure test casing to 2000 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first.

8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
9. If the well is determined to be productive run 5 1/2" casing to TD., as per casing program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. 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.

Lark 19B(G)
Section 19, Township 42 South, Range 24 East
332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
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 BIA requirements.

Lark 19B(G)
Section 19, Township 4.2 South, Range 24 East
332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed to Montezuma Creek. Existing roads will be maintained, as needed, 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 maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. A new road, 2.4 miles in length will be constructed to access the well location.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

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

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

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

5. LOCATION AND 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 MATERIAL

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 as required, 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

After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. The existing reserve pit will be used. 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 into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and 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, NM 87401
BARRY A. WIELAND

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.


BARRY A. WIELAND
OPERATIONS MANAGER

BLM CONDITIONS OF APPROVAL

Operator Chuska Energy Company Well Name 19B(G) Lark
332'FNL/1790'FEL
 Legal Location 1340'FNL/1890'FEL Sec. 19 T. 42 S. R. 24 E.
 Lease Number NOG-8702-1116 Field Inspection Date 1-17-92

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval shall be present on the location during construction, drilling and reclamation activity.

An agreement between the operator and fee land owner will take precedence over BLM surface stipulations unless (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

I. LOCATION AND ACCESS ROAD

A. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site. Trash cages will be used for all solid waste and removed from location to an approved solid waste disposal site. No solid waste shall be put in reserve pit before, during or after drilling operations.

B. Piñon-juniper trees and brush will be uprooted from road ROW and well pad locations and distributed along ROWs and stockpiled beside well pads for fuelwood salvage. Care will be taken to keep trees as undamaged as practically possible. Large vegetation such as sagebrush, juniper and piñon will not be incorporated into pit walls. All uprooted vegetation will be scattered on the reclaimed portion of location so it does not detract from the natural appearance of the area.

C. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

D. Mud pits and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawlertype tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

E. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with N.M. State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area.

F. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

G. Prior to crossing, using or paralleling any improvement on public land, operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to improvements.

H. All cut fences are to be tied to braces prior to cutting. The opening will be protected during construction to prevent the escape of livestock. A temporary closure will be installed on all cut fences the same day the fence is cut. A permanent cattleguard will be installed and maintained in any cut fence unless otherwise stipulated in writing. A twelve-foot gate will be installed adjacent to all new cattleguards.

I. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank.

J. All roads on public land must be maintained in good passable condition.

K. A proposed use of pesticide, herbicide or other possible hazardous chemical on BLM land shall be cleared for use prior to application.

CULTURAL RESOURCES (ARCHAEOLOGY)

A. EMERGENCY DISCOVERY IN THE ABSENCE OF MONITORING: This stipulation applies in emergency discovery situations where monitoring for cultural resources was not being performed because the presence of cultural resources could not have been anticipated. If, in its operations, operator discovers any historic or prehistoric ruin, monument, or site, or any object of antiquity subject to the Antiquities Act of 1979, and 43 CFR Part 3, then work will be suspended and discovery promptly reported to BLM Area Manager. BLM will then specify what action is to be taken. BLM will evaluate the discovery, evaluate its significance, and consult with the State Historic Preservation Officer. Minor recordation, stabilization, or data recovery may be performed by BLM. However, more significant mitigation shall be carried out by a qualified, permitted archeologist. It is BLM's responsibility to ensure that such mitigation is carried out in accordance with 36 CFR Part 800.11. Given the timeframes involved in BLM's budgeting process, operators are strongly encouraged to fund such required mitigation. Further damage to significant cultural resources and operations in its vicinity will not be allowed until any required mitigation is successfully completed.

B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: This stipulation applies to situations where archeological monitoring was taking place because local geologic conditions favored the presence of subsurface archeological sites in the project area. If monitoring confirms the

presence of subsurface sites, all work will cease in the site area. The monitor will immediately report this find to BLM Area Manager. BLM will specify what further steps must be taken to assess the damage to the site and to mitigate any adverse effects to it. Monitoring in these circumstances is considered to be a form of inventory and the operator will be responsible for obtaining at his/her expense a qualified permitted archeologist to complete a damage assessment report and to carry out any mitigation required by the BLM.

C. **DAMAGE TO PREVIOUSLY IDENTIFIED SITE:** This stipulation applies to situations where operations have damaged a previously identified archeological site that was visible on the surface. If, in its operations, operator damages, or is found to have damaged, any historic or prehistoric ruin/monument/or site/or any object of antiquity subject to the Antiquities Act of 1906, the Archeological Resource Protection Act of 1979, and 32 CFR Part 3, the grantee will prepare and implement a data recovery plan at his/her expense. The grantee will obtain at his/her expense, a qualified permitted archeologist to carry out the specific instruction of BLM.

RESEEDING AND ABANDONMENT

A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.

B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeding. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted between one-half inch deep and three quarter inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.

C. After seeding, remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired front-end loaders.

D. If, in the opinion of the SMA, the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a deadend ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of affected areas may be required).

BUREAU OF INDIAN AFFAIRS
SURFACE MANAGEMENT STIPULATIONS
TO BE INCLUDED IN APD

COMPANY.....: Chuska Energy Co
 WELL NO.....: Lark 19B (G)
 DATE OF INSPECTION: Jan 17, 1992
 PROVIDED BY.....: R Cornett

STIPULATIONS
CHECKED
APPLY

✓ 1. ALL ABOVE GROUND STRUCTURES AND EQUIPMENT WILL BE PAINTED WITH THE FOLLOWING NON-GLARE COLOR.

<input checked="" type="checkbox"/> BROWN	FED. STANDARD	595A - 30318
<input type="checkbox"/> GREEN	FED. STANDARD	595A - 34127
<input type="checkbox"/> GRAY	FED. STANDARD	595A - 36357
<input type="checkbox"/> SAND	FED. STANDARD	595A - 30277
<input type="checkbox"/> MOBIL BEIGE 12-F-38		

✓ 2. COMPACTED AREAS WILL BE PLOWED OR RIPPED TO A DEPTH OF 12 TO 16 INCHES BEFORE RESEEDING. SEED WILL BE DRILLED TO A DEPTH OF .5 TO .75 INCH OR BROADCAST AND FOLLOWED BY A DRAG OR PACKER. IF BROADCAST, THE RECOMMENDED SEED MIX WILL BE APPLIED AT 150% OF THE RECOMMENDED RATE. THE FOLLOWING SEED MIX WILL BE USED.

<u>SPECIES</u>	<u>LBS./ACRE/PLS</u>
CRESTED WHEATGRASS.....	_____
SLENDER WHEATGRASS.....	_____
SMOOTH BROME.....	_____
ORCHARDGRASS.....	_____
YELLOW SWEETCLOVER.....	_____
SAINFOIN.....	_____
WESTERN WHEATGRASS.....	_____
SAND DROPSEED.....	_____
✓ ALKALI SACATON.....	1
✓ INDIAN RICEGRASS.....	3
GALLETA.....	_____
NEEDLE-N-THREAD.....	_____
SQUIRREL TAIL.....	_____
SIDE OATS GRAMA.....	_____
✓ FOUR-WING SALTBUUSH.....	4
SHADSCALE.....	_____
WINTER-FAT.....	_____
(PURITY X GERMINATION = PLS)	8 lb/acre

3. NA THE TOP _____ INCHES OF SOIL WILL BE SALVAGED, STOCKPILED, AND STABILIZED ON THE _____ SIDE/CORNER OF THE WELL PAD AND/OR IN THE "L" CORNER OF THE WELL PAD AND RESERVE PIT FOR USE IN REVEGETATING THE SITE.

4. NA UPON ABANDONMENT, THE WELL PAD WILL BE FENCED WITH A STANDARD FIVE-STRAND BARB WIRE FENCE, OR EQUIVALENT AND WILL HAVE NO GATES. THE FENCE WILL BE MAINTAINED FOR TWO YEARS TO ALLOW FOR SEEDING ESTABLISHMENT AND WILL THEN BE REMOVED.

5. ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESEDED IN ACCORDANCE WITH #2. WATER BARS WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS.

<u>% SLOPE</u>	<u>SLOPE DISTANCE</u>
1 - 5%	200 FEET
5% - 15%	100 FEET
GREATER THAN 15%	50 FEET

6. AN EARTHEN BERM (24 INCHES/~~FEET~~ HIGH) WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE WELL PAD, EXCEPT ON THE HIGH/CUT SIDE OF THE WELL PAD.
7. THE RESERVE PIT WILL BE LINED TO PREVENT SEEPAGE FROM OCCURRING.
8. THE RESERVE PIT WILL BE CONSTRUCTED LONG AND NARROW (75 X 125 FEET) SO THAT THE PIT CAN BE ACCOMODATED AND ANY POTENTIAL HAZARDS REDUCED OR ELIMINATED.
9. NA IMMEDIATELY FOLLOWING DRILLING, THE FLUIDS OF THE RESERVE PIT WILL BE PUMPED AND DISPOSED OF PER BLM INSTRUCTIONS. A SUNDRY NOTICE FOR THIS ACTION IS REQUIRED BY BLM.

10. NA DIVERSION DITCH (ES) WILL BE CONSTRUCTED ON THE _____ SIDE OF THE WELL PAD ABOVE/BELOW (CIRCLE ONE) THE CUT SLOPE DIVERTING ANY RUNOFF TO THE _____.

11. THE WASH (ES) WILL BE DIVERTED AROUND THE w SIDE OF THE WELL PAD. (Partial)

12. CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.

13. NA NO PRODUCTION FLOWLINES NOR GAS SALES LINES WILL BE CONSTRUCTED UNTIL THEIR RIGHT-OF-WAYS/EASEMENTS ARE INSPECTED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY.

14. ANY FLOWLINE(S) (SURFACE/SUBSURFACE) WILL BE CONSTRUCTED PARALLELING NEW AND EXISTING ROAD RIGHT-OF-WAYS, EXCEPT _____.

15. NA THE TOP _____ INCHES OF SOIL OF ANY SUBSURFACE FLOWLINE CONSTRUCTED WILL BE ROLLED/SCRAPED TO ONE SIDE OF THE BLADED LINE AND WILL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE ACTUAL CONSTRUCTION. IMMEDIATELY FOLLOWING INSTALLATION, THE ROLL OF TOPSOIL SALVAGED WILL BE REDISTRIBUTED OVER THE BLADED LINE AND WILL BE RESEDED IN ACCORDANCE WITH ITEM #2. IN ADDITION TO THIS, ALL AREAS DISTURBED (INCLUDING THE REPLACED TOPSOIL) WILL BE IMPRINTED WITH A LAND IMPRINTER OR SHEEP'S FOOT TYPE ROLLER TO CREATE A PATTERN OF SMALL DEPRESSIONS TO ENHANCE VEGETATIVE REGROWTH. ALL DRAINAGES CROSSED BY THESE LINE(S) WILL BE RESTORED, AS NEAR AS POSSIBLE, TO THEIR ORIGINAL FORM. WATER BARS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM #5.

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 5/01/92 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-92-187
19. NA UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO PLATE 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:

SPERRY-SUN DRILLING SERVICES

WELL PROPOSAL DATA
LARK 19(G)
UTAH

CHUSKA ENERGY
08/27/92

NORTH REFERENCE : TRUE NORTH

MEASURED DEPTH	ANGLE DEGREE	DIRECTION DEGREE	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG SEVERITY
5704.94	18.00	185.61	5552.00	-1008.01	-99.00	1012.86	.00

MINIMUM CURVATURE CALCULATION METHOD
HORIZONTAL DISPLACEMENT AT BOTTOM HOLE IS
1012.86 FEET ALONG 185.61 DEG RELATIVE TO WELL HEAD

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION COMPUTED ALONG 185.61 DEG

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



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

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

6. If Indian, Allottee or Tribe Name
Navajo Tribal

7. If Unit or CA Agreement Designation
N/A

8. Well Name and No.
Lark 19B(G)

9. API Well No.

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan County, UT

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Chuska Energy Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 332' FNL & 1790' FEL (Surface)
 1340' FNL & 1890' FEL (Subsurface)
 S19-T42S-R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Re-emption
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Pluging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other Spud/Surface Csg
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of treatment operations or Completion or Recommendation Report and Log on separate sheets.)

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

Larry A. Chambers, Chuska, notified Steve Mason, ELM, on 9-23-92, at 4:00 p.m., of intent to spud Lark 19B(G) w/Aztec Rig #222 and TD surface csg to +/- 425'. Will RIH w/ 8 5/8", 24.0, K-55 ST&C csg and cement w/ +/- 325 sx Premium cement & 2% CaCl2 & 1/4#/sx flocele.

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

Signed [Signature]

Title Operations Manager

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

ACCEPTED FOR RECORD
Date 10-9-92

NOV 19 1992

FARMINGTON RESOURCE AREA

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

*See instruction on Reverse Side

OPERATOR

Form 3160-5
(June 1990)



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

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

3. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Lark 19B(G)

9. API Well No.

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, UT

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

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

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

332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
S19-T42S-R24E

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 Csg

Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

(Note: Report results of test-log completion or Completion or Recommendation Report and Log)

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

RU Aztec Rig #222 & spud Lark 19B(g) well w/ 12 1/4 surface bit @ 3:00 a.m., on 9-23-92. Drill to 427' and RIH w/ 10 jts., of 8 5/8" csg to 426'. Cement w/325 sx Premium cement & 2% CaCl2 & 1/4#/sx flocele. Plug down @ 11:30 a.m., 9-23-92. Larry Chambers, Chuska Energy Co., notified Steve Mason, BLM, on 9-22-92, at 2:00 PM.

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

Signed

Title Operations Manager

Date 10-9-92

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by

Conditions of approval, if any:

Title

Date

NOV 10 1992

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*See Instruction on Reverse Side

OPERATOR

STATE OF UTAH
DEPARTMENT 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 N/A
9. Well Name and Number Lark 19B (G)
10. API Well Number
11. Field and Pool, or Wildcat Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		
2. Name of Operator Chuska Energy Company		
3. Address of Operator 3315 Bloomfield Hwy, Farmington, N.M. 87401		4. Telephone Number 505-326-5525
5. Location of Well Footage : 332' FNL & 1790' FEL (Surface) OO, Sec. T., R., M. : Sec. 19, T42S, R24E County : San Juan State : UTAH		

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<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"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other <u>Spud/Surface Csg</u>	
<input type="checkbox"/> Other _____			
Approximate Date Work Will Start _____		Date of Work Completion _____	

Repor: 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.)

RU Aztec Rig #222 & spud Lark 19B (G) well with 12 1/4" surface bit @ 3:00 A.M., on 9-23-92. Drill to 427' and RIH with 10 jts. of 8 5/8" csg to 426'. Cement with 325 sx premium cement & 2% CaCl2 & 1/4#/sx flocele. Plug down @ 11:30 A.M., 9-23-92. Larry Chambers, Chuska Energy Company, notified Steve Mason, BLM, on 922-92, at 2:00 P.M.

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

Name & Signature <i>B. A. Wieland</i>	BARRY A. WIELAND	Title OPERATIONS MANAGER	Date 5-27-93
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(State Use Only)

IN REPLY REFER TO
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 192(G) Lark

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."

2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.

3. Blowout prevention equipment is required.

4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.

2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.

3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.

4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when CaCl₂ is used. Use the recommended slurry weight of other type cements when they are used (Class C, Pozzolan etc.).

5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perfs-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.

5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.

6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer. Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.

7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), in quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending 4' above the ground line) containing the information as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Fluids Surface Management Section of the Farmington Resource Area Office.

All above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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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

N/A

8. Well Name and No.
Lark 19B(G)

9. API Well No.

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San Juan County, UT

SUBMIT IN TRIPLICATE

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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., M., or Survey Description)

332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
S19-T42S-R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Plugging Casing
	<input type="checkbox"/> Other P&A
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

PROPOSED P&A PROGRAM

Notice of Intent accepted by Mark Kelley and verbal approval of plugging program accepted by Steve Mason, BLM, from Larry Chambers, Chuska, on 10-9-92, 2:00 p.m.. Plugging operations to begin at 3:00 p.m., 10-9-92.

PLUG#	Setting Depth	Formation	%Excess	No. Sac.
1	5649-5890	Akah, DC	100	145
2	4517-4617	Hermosa	100	90
3	2503-2603	DeChelly	100	90
4	1378-1478	Chinle	100	95
5	569-669	Navajo	100	90
6	375-475	CSG Shoe	100	65
7	0-50	Surface	50	30

Yield = 1.15 cft/sx

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed: [Signature] Title: Operations Manager Date: 10-13-92

(This space for Federal or State office use)

Approved by: _____ Title: _____

APPROVED

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

*See instruction on Reverse Side

OPERATOR

AREA MANAGER

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
N/A

9. Well Name and Number
Lark 19B(G)

10. API Well Number

11. Field and Pool, or Wildcat
Wildcat

SUNDRY NOTICES AND REPORTS ON WELLS

1. Type of Well
 Oil Well
 Gas Well
 Other (specify) P & A

2. Name of Operator
Chuska Energy Company

3. Address of Operator
3315 Bloomfield Highway, Farmington, N.M. 87401

4. Telephone Number
505-326-5525

5. Location of Well
 332' FNL & 1790' FEL (Surface)
 Footage : 1340' FNL & 1890' FEL (Subsurface)
 O.G. Sec., T., R., M. : Sec. 19, T42S, R24E

County : San Juan
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

Abandonment
 Casing Repair
 Change of Plans
 Conversion to Injection
 Fracture Treat
 Multiple Completion
 Other P&A

New Construction
 Pull or Alter Casing
 Recompletion
 Shoot or Acidize
 Vent or Flare
 Water Shut-Off

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

Abandonment
 Casing Repair
 Change of Plans
 Conversion to Injection
 Fracture Treat
 Other _____

New Construction
 Pull or Alter Casing
 Shoot or Acidize
 Vent or Flare
 Water Shut-Off

Date of Work Completion _____

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

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

PROPOSED P&A PROGRAM:

Notice of Intent accepted by Mark Kelley and verbal approval of plugging program accepted by Steve Mason, BLM, from Larry Chambers, Chuska, on 10-9-92, 2:00 P.M. Plugging operations to begin at 3:00 P.M., 10-09-92.

PLUG #	SETTING DEPTH	FORMATION	EXCESS	NO. SACKS
1	5649-5890	Akah, DC	100	145
2	4517-4617	Hermosa	100	90
3	2503-2603	DeChelly	100	90
4	1378-1478	Chinle	100	95
5	569-669	Navajo	100	90
6	375-475	CSG Shoe	100	65
7	0-50	Surface	50	30

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

Name & Signature B. A. Wieland Title OPERATIONS MANAGER Date 5-27-93

(State Use Only)

SEP 10

Form 3160-1
(June 1989)



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

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
N/A

8. Well Name and No.
Lark 19B(G)

9. API Well No.

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
San Juan County, U

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Chuska Energy Company

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
S19-T42S-R24E

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Redrilling Casing
	<input type="checkbox"/> Other P&A
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of tracer concentration or permeability report in consultation or recommendation report in.)

CONFIDENTIAL

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 cased give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

P&A Program

The Lark 19B(G) well was plugged with the following program on 10-9-92 with Haliburton Premium cement (yield = 1.15 cft/sx). Aztec Rig #222 was released on 10-10-92 at 2:00 p.m., after final plug was pumped.

PLUG#	Setting Depth	Formation	%Excess	No. Sacks
1	5649-5890	Akah, DC	100%	145
2	4517-4617	Hermosa	100%	90
3	2503-2603	DeChelly	100%	90
4	1378-1478	Chinle	100%	95
5	569-669	Navajo	100%	90
6	375-475	CSG Shoe	100%	65
7	0-50	Surface	50%	30

Approved as in plug log of the well being plugged under bond is released with surface restoration is completed.

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

Signed: [Signature] Title: Operations Manager Date: 10-13-92

(This space for Federal or State office use)

Approved by: _____ Title: _____

Conditions of approval, if any:

APPROV

NOV 10 1992

AREA MANAGER

OPERATOR

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

1. LEASE DESIGNATION AND SERIAL NO.

NOG 8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

9. WELL NO.

Lark 19 B(G)

10. FIELD AND POOL OR WILDCAT

Wildcat

11. SEC. T. R. M. OR BLOCK AND CORNER OR AREA

Sec. 19, T42S, R24E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

14. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

15. TYPE OF COMPLETION: NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RESV. Other _____

2. NAME OF OPERATOR

1. ADDRESS OF OPERATOR

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 332' FNL & 1790' FEL (Surface)

At 100 prod. interval reported below 1340' FNL & 1890' FEL (Subsurface)

At total depth

19. API NO.

43-037-3173

DATE ISSUED

SEP 90

12. COUNTY

San Juan

13. STATE

Utah

13. DATE SPUDDED

9-23-92

16. DATE T.D. REACHED

10-7-92

17. DATE COMPL. (Ready to prod.)
N/A 10/10/92

18. ELEVATIONS (OP. RES. AT, CR. ETC.)

4989' GR/5002' KB

19. ELEV. CASINGHEAD

Same

22. TOTAL DEPTH, MD & TVD

5898' MD/5724' TVD

21. PLUG BACK T.D. MD & TVD

20. IF MULTIPLE COMPLET. HOW MANY

23. INTERVALS DRILLED BY

ROTARY TOOLS

Yes

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS LOG

27. WAS WELL CORED YES NO
DRILL STEM TEST YES NO

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

CASING SIZE	WEIGHT, LB. FT.	DEPTH SET (MD)	HOLES SIZE	CEMENTING RECORD	AMOUNT FILLED
8 5/8, K-55	24.0	426'	12 1/4	325 sx C1 "B" & 2% CaCl2 + 1/4# Floccelle	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. PREPARATION RECORD (Injection, time and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

32. PRODUCTION

DATE FIRST PRODUCTION: P&A
PRODUCTION METHOD: Flowing, gas lift, pumping—oil and type of pump
WELL STATUS: Producing or abandoned

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD. FOR TEST PERIOD	OIL—BBL	GAS—MCF	WATER—BBL	GAS-OIL RATIO

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

TEST WITNESSED BY

33. LIST OF ATTACHMENTS

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

SIGNED: *Barry A. Wetland*
BARRY A. WETLAND

TITLE: OPERATIONS MANAGER

DATE: 5-27-93

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

37. SUMMARY OF POROUS ZONES

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

Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth	True Vert. Depth
Core #1	5714'	5744'	Desert Creek: Dole & Annhy.	Navajo	620'	620'
P&A 10-9-92				Guinie	1428'	1428'
Plug #1	5649'	5898'	145 sxs C1 'B' (yield = 1.18 ft3/sx)	DeChelly	2553'	2550'
#2	4517'	4617'	90 sxs	Organ Rock	2821'	2807'
#3	2503'	2603'	90 sxs	Cedar Mesa	3600'	3546'
#4	1378'	1478'	95 sxs	Hermosa	4629'	4513'
#5	569'	669'	90 sxs	U. Ismay	5507'	5348'
#6	375'	475'	90 sxs	Hovenweep Sh.	5628'	5463'
#7	0'	50'	65 sxs	L. Ismay	5642'	5477'
			30 sxs	Gothic Shale	5676'	5510'
				Desert Creek	5700'	5532'
				Chimney Rock Sh	5850'	5677'
				Akah	5856'	5682'

38.

GEOLOGIC MARKERS

Name	Meas. Depth	Top
Navajo	620'	620'
Guinie	1428'	1428'
DeChelly	2553'	2550'
Organ Rock	2821'	2807'
Cedar Mesa	3600'	3546'
Hermosa	4629'	4513'
U. Ismay	5507'	5348'
Hovenweep Sh.	5628'	5463'
L. Ismay	5642'	5477'
Gothic Shale	5676'	5510'
Desert Creek	5700'	5532'
Chimney Rock Sh	5850'	5677'
Akah	5856'	5682'

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

SUBMIT IN DUPLICATE

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

LEASE DESIGNATION AND SERIAL NO.

NOG 8702-1116

IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

UNIT AGREEMENT NAME

N/A

FARM OR LEASE NAME, WELL NO.

Lark 19 B(G)

API WELL NO.

FIELD AND POOL, OR WILDCAT

Wildcat

SEC. T. R. M. ON BLOCK AND SURVEY OR AREA

Sec 19-T42S-R24E

COUNTY OR PARISH

San Juan

STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. GRVLR. Other _____

3. NAME OF OPERATOR
Chuska Energy Company

4. ADDRESS AND TELEPHONE NO.
3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 332' FNL & 1790' FEL (Surface)
1340' FNL & 1890' FEL (Subsurface)
At top prod. interval reported below
At total depth

14. PERMIT NO. DATE ISSUED
43-037-317,311

15. DATE SPUDDED 9-23-92 16. DATE T.D. REACHED 10-7-92 17. DATE COMPL. (Ready to prod.) N/A PA 10/10/92 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4989' GR/5002' KB 19. ELEV. CASING HEAD Same

20. TOTAL DEPTH, MD & TVD 5898' MD/5723'TVD 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS Yes 25. CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN 9-10-93 BHC Sonic, DLL Micro SFL, CNL FDC Litho density BHC CYBERLOOK, T/D LDT-CUL, T/D DLL-MSFC 27. WAS WELL CORRED Yes

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8, K-55	24.0	426'	12 1/4	325 sx C1"B" & 2% CaCl2 +	1/4# Flocelle

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PREPARATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
P&A		

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW, TURNING 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

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
 SIGNED: [Signature] TITLE: Operations Manager
 ACCEPTED FOR RECORD DATE: 11/19/92

*(See Instructions and Spaces for Additional Data on Reverse Side) NOV 19 1992

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.

OPERATOR

FARMINGTON RESOURCE AREA
BY [Signature]

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Core #1	5714'	5744'	Desert Creek: Dole Anhy.			
P&A 10-9-92						
Plug #1	5649'	5898'	145 sxs Cl'B' (yield = 1.18 ft3/sx)	Navajo	620'	620'
#2	4517'	4617'	90 sxs	Chinle	1428'	1428'
#3	2503'	2603'	90 sxs	DeChelly	2553'	2550'
#4	1378'	1478'	95 sxs	Organ Rock	2821'	2807'
#5	569'	669'	90 sxs	Cedar Mesa	3600'	3546'
#6	375'	475'	65 sxs	Hermosa	4629'	4513'
#7	0'	50'	30 sxs	U. Ismay	5507'	5348'
				Hovenweep Sh.	5628'	5463'
				I. Ismay	5642'	5477'
				Gothic Shale	5676'	5510'
				Desert Creek	5700'	5532'
				Chimney Rock Sh	5850'	5677'
				Akah	5856'	5682'

38. GEOLOGIC MARKERS

OPERATOR Chuska Energy Company

OPERATOR ACCT. NO. N 9298

ENTITY ACTION FORM - FORM 6

ADDRESS 3315 Bloomfield Highway

Farmington, N.M. 87401

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	11578	43-037-31731	Mark 19B (G)	SWNE	19	42S	24E	San Juan	9-23-92	

WELL 1 COMMENTS:
 Spudded 3:00 A.M. 9-23-92. Drilled to 427'. Ran and cemented surface casing at 426'.
Entity added 11-3-93. Lee

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

WELL 2 COMMENTS:

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

WELL 3 COMMENTS:
SEP 10 1993

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

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.

Signature _____

Title _____ Date _____

Phone No. (_____) _____

10/22/93
api num: 43-037-31731
entity:
well name: LARK 19B(4)
operator: CHUSKA ENERGY COMPANY
field: WILDCAT
confidential flag: Y confidential expires: 11/10/93 alt addr flag:

D TAIL WELL DAT
prod zone: sec twnshp

menu: opt 00
range qr-qr
24E NWE

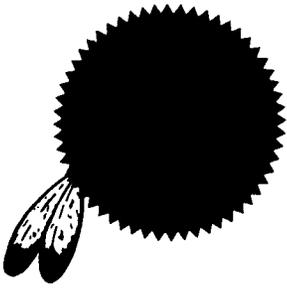
*** application to drill, deepen, or plug back ***
lease number: NOG 8702 1116 lease type: 2 well type: OW
surface loc: 332 FNL 1790 FEL unit name:
prod zone loc: 1340 FNL 1890 FEL depth: 5702
elevation: 4989 GR apd date: 5-29-92 proposed zone: IS-DC
auth code: 649-3-3

*** 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 SWNE

opt: 21 api: zone: date(yymm): enty acct:

CONFIDENTIAL



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

June 30, 1994

M-5

Mr. Mike Hebertson
State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 85180

Dear Mike:

Pursuant to your request enclosed are the Directional Surveys for the following wells:

Mule 31K 43-037-31617	Sec 31 T41S R24E
N. Cajon Mesa 5E#1 43-037-31624	Sec 5 T40S R25E
N.W. Cajon Mesa 6E 43-037-31627	Sec 6 T40S R25E
D.C. Anticline 35K 43-037-31726	Sec 35 T41S R23E
Lark 19B 43-037-31731	Sec 19 T42S R24E

Should you need additional information please let me know.

Very truly yours,

HARKEN SOUTHWEST CORPORATION

Rachelle Montgomery
Rachelle Montgomery
Production Administrator

RM/jkw

Enclosure

SPERRY-SUN DRILLING SERVICES

PAGE

WELL PROPOSAL DATA
LARK 19(G)
UTAH

CHUSKA ENERGY

08/27/91

NORTH REFERENCE : TRUE NORTH

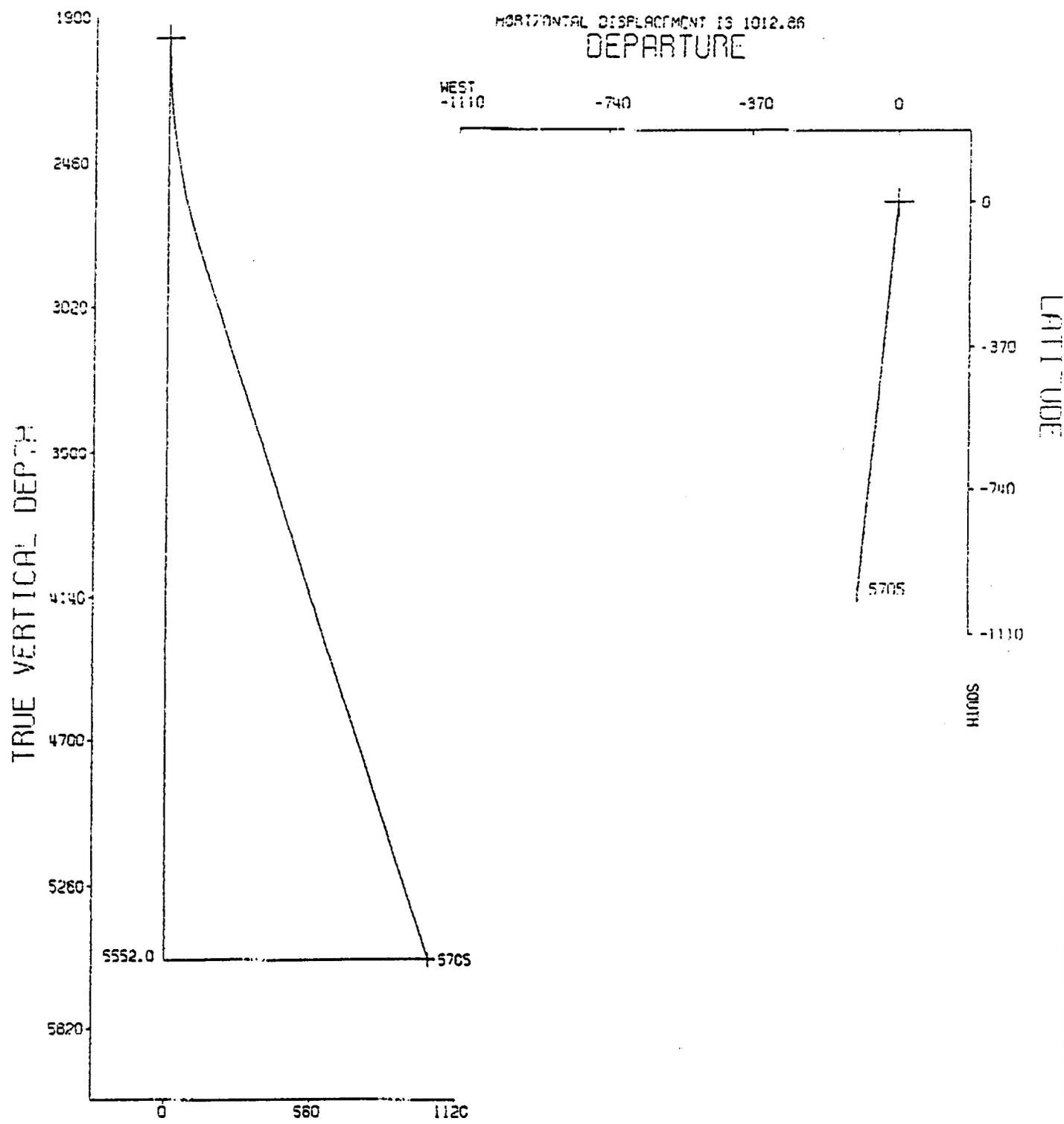
MEASURED DEPTH	ANGLE DEGREE	DIRECTION DEGREE	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG SEVERITY
1981.00	.00	.00	1981.00	.00	.00	.00	.00
2000.00	.38	185.61	2000.00	-.06	-.01	.06	2.00
2100.00	2.38	185.61	2099.97	-2.46	-.24	2.47	2.00
2200.00	4.38	185.61	2199.79	-8.33	-.82	8.37	2.00
2300.00	6.38	185.61	2299.34	-17.66	-1.73	17.74	2.00
2400.00	8.38	185.61	2398.51	-30.44	-2.99	30.59	2.00
2500.00	10.38	185.61	2497.17	-46.66	-4.58	46.88	2.00
2600.00	12.38	185.61	2595.19	-66.30	-6.51	66.61	2.00
2700.00	14.38	185.61	2692.48	-89.32	-8.77	89.75	2.00
2800.00	16.38	185.61	2788.89	-115.72	-11.36	116.27	2.00
2880.99	18.00	185.61	2866.26	-139.54	-13.70	140.21	2.00
2900.00	18.00	185.61	2884.34	-145.38	-14.28	146.08	.00
3000.00	18.00	185.61	2979.44	-176.14	-17.30	176.99	.00
3100.00	18.00	185.61	3074.55	-206.89	-20.32	207.89	.00
3200.00	18.00	185.61	3169.66	-237.65	-23.34	238.79	.00
3300.00	18.00	185.61	3264.76	-268.40	-26.36	269.69	.00
3400.00	18.00	185.61	3359.87	-299.15	-29.38	300.59	.00
3500.00	18.00	185.61	3454.97	-329.91	-32.40	331.49	.00
3600.00	18.00	185.61	3550.08	-360.66	-35.42	362.40	.00
3700.00	18.00	185.61	3645.18	-391.41	-38.44	393.30	.00
3800.00	18.00	185.61	3740.29	-422.17	-41.46	424.20	.00
3900.00	18.00	185.61	3835.40	-452.92	-44.48	455.10	.00
4000.00	18.00	185.61	3930.50	-483.68	-47.50	486.00	.00
4100.00	18.00	185.61	4025.61	-514.43	-50.52	516.90	.00
4200.00	18.00	185.61	4120.71	-545.18	-53.54	547.81	.00
4300.00	18.00	185.61	4215.82	-575.94	-56.56	578.71	.00
4400.00	18.00	185.61	4310.92	-606.69	-59.58	609.61	.00
4500.00	18.00	185.61	4406.03	-637.44	-62.60	640.51	.00
4600.00	18.00	185.61	4501.13	-668.20	-65.62	671.41	.00
4700.00	18.00	185.61	4596.24	-698.95	-68.64	702.31	.00
4800.00	18.00	185.61	4691.35	-729.71	-71.66	733.22	.00
4900.00	18.00	185.61	4786.45	-760.46	-74.68	764.12	.00
5000.00	18.00	185.61	4881.56	-791.21	-77.70	795.02	.00
5100.00	18.00	185.61	4976.66	-821.97	-80.72	825.92	.00
5200.00	18.00	185.61	5071.77	-852.72	-83.75	856.82	.00
5300.00	18.00	185.61	5166.87	-883.47	-86.77	887.72	.00
5400.00	18.00	185.61	5261.98	-914.23	-89.79	918.63	.00
5500.00	18.00	185.61	5357.09	-944.98	-92.81	949.53	.00
5600.00	18.00	185.61	5452.19	-975.74	-95.83	980.43	.00
5700.00	18.00	185.61	5547.30	-1006.49	-98.85	1011.33	.00

SPERRY-SUN DRILLING SERVICES

VERTICAL/HORIZONTAL PROJECTION

CHUSKA ENERGY
LARK 19 (G)
08/27/92
UTAH

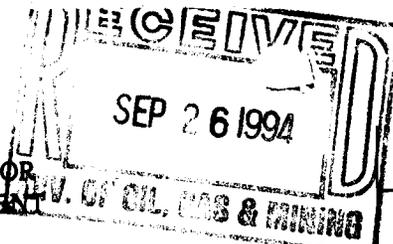
START TVD = 1981.00
FINISH TVD = 5552.00
VERT SECT SCALE IS 560 FEET/IN
HORI SECT SCALE IS 370 FEET/IN



VERTICAL SECTION

5505 2.10 1012.86 FEET AT 0 5 DEG 37 MIN W

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
NOG 8707-1202

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other P&A

8. Well Name and No.

Lark 19B (G)

2. Name of Operator

Harken Southwest Corporation

9. API Well No.

13-037-31731

3. Address and Telephone No.

P. O. Drawer 612007 - Dallas, TX 75261 (817) 695-4900

10. Field and Pool, or Exploratory Area

Wildcat

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

SURFACE: 332' FNL & 1790' FEL Sec 19-42S-24E

11. County or Parish, State

San Juan Co., Utah

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Reclamation
- Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

Harken Southwest has filled in the reserve pit and restored the surface areas disturbed during drilling operations on the subject location.

Please be advised final reclamation and reseeding is scheduled for Tuesday, September 27, 1994.

CC: BIA
Navajo Nation - Minerals Dept
State of Utah

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

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

Signed R. Montgomery Title Production Administrator Date 9/22/94

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side