

**FILE NOTATIONS**

Entered in NID File ..... ✓  
Location Map Pinned ..... ✓  
Card Indexed ..... ✓

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

**COMPLETION DATA:**

Well Completed 8/21/79

Location Inspected .....

Bond released

State or Fee Land .....

OS..... PA.....

**LOGS FILED**

Driller's Log..... ✓

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

W. DON QUIGLEY

OIL AND MINERALS CONSULTANT  
SUITE 440, 57 W. SO. TEMPLE - SALT LAKE CITY, UTAH 84101

July 16, 1979

Mr. Jack Feight  
Oil & Gas Division  
Dept. of Natural Resources  
1588 West North Temple  
Salt Lake City, Utah 84116



Dear Jack:

The enclosed well permit application for the N. P. Energy State #32-3 well requests a location which is not the required 500 ft. from a sectional division line. It is 964' from the lease line and 2700' from a previous oil and gas well on the section. There are two reasons for the unorthodox location. The one reason is that the well is near the bank of a major wash passing through the area and had to be removed far enough away to permit the size of the location required, and to prevent any potential fluids getting into the wash. The second reason is due to the geologic-fault conditions in the area; it was necessary to locate the well a sufficient distance from this fault.

It is therefore requested that an exception to the regular spacing rule be granted for this well. N. P. Energy Corp. controls all of Lease #ML-24295-A, which covers the E $\frac{1}{2}$  of Section 32-20S-22E.

Sincerely yours,

*W. Don Quigley*  
W. Don Quigley

WDQ:sb

Enclosure

cc: N. P. Energy

*P.S. This lease expires at the end of the month, so we would appreciate prompt action.*  
*Don*

5 Copies

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

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO. ML-24295-A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME State
9. WELL NO. St.#32-3
10. FIELD AND POOL, OR WILDCAT Cisco Dome
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW.SE.Sec.32-20S-22E S.L.M.
12. COUNTY OR PARISH Grand 13. STATE Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [x] DEEPEN [ ] PLUG BACK [ ]
b. TYPE OF WELL OIL WELL [ ] GAS WELL [x] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]
2. NAME OF OPERATOR N.P. Energy Corp.
3. ADDRESS OF OPERATOR Suite 320, 57 W. So. Temple, Salt Lake City, Utah 84101
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At surface SW.SE.SEC.32,T20S,R22E, S.L.M. At proposed prod. zone 1631'fr.E-line & 964'fr.S-line
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* About 12 miles NW.of Cisco, Utah
15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 964'
16. NO. OF ACRES IN LEASE 320
17. NO. OF ACRES ASSIGNED TO THIS WELL 160
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2700'
19. PROPOSED DEPTH 3200'
20. ROTARY OR CABLE TOOLS Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4840'grd.; 4850'D.F.
22. APPROX. DATE WORK WILL START\* July 25, 1979

PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Row 1: 11", 8-5/8", 24.00, 150', 80 sks. Row 2: 7-7/8", 4 1/2", 10.50, Set thru pay-zone; cemented to 200' above

It is planned to drill a well at the above location to test the natural gas or oil production possibilities of the Dakota, Cedar Mountain,, and Morrison formations. The well will be drilled to approx. 50 to 100' below the top of the Entrada formation, if conditions permit. The well will be drilled with rotary tools, using air for circulation. The surface casing (8-5/8") will be set at about 200' K.B. and cemented with returns to the surface. A blowout preventer and rotating head will be installed on top of the surface casing. Fill and kill lines will be connected to the well head below the blind rams on the blowout preventer. Any gas encountered will be flared at the end of the blewie line, and roughly checked for volume thru a 2" line after the pipe rams have been closed. A float valve will be used in the bottom drill collar at all times. A prognosis of the well is attached.

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

24. SIGNED [Signature] TITLE VicePres. Operations DATE July 16, 1979

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

PROGNOSIS FOR  
N. P. ENERGY CORP.  
STATE #32-3 WELL

Location: SW. SE. Sec. 32, T 20S, R 22E, S.L.M., Grand County, Utah  
(1631' fr. E-line and 964' fr. S-line)

Elevation: 4840' grd; 4850' K.B.

Surface Casing: 150 ft. of 8-5/8", 24.00#, K-55, R-3 casing set and cemented w/80 sks of cement w/3% CaCl, with returns to the surface. The surface hole (11 in.) will be drilled to 150' K.B. and will be less than 1½° deviation.

Expected Formation Tops:

<u>Formation</u>	<u>Depth to Top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	2300'	4850' K.B.
Dakota	2300'	80'	2550'
Cedar Mountain	2380'	90'	2470'
Morrison (Brushy Basin)	2470'	250'	2380'
(Salt Wash)	2720'	280'	2130'
Curtis-Summerville	3000'	70'	1850'
Entrada	3070'	—	1780'
Total Depth	3150'		

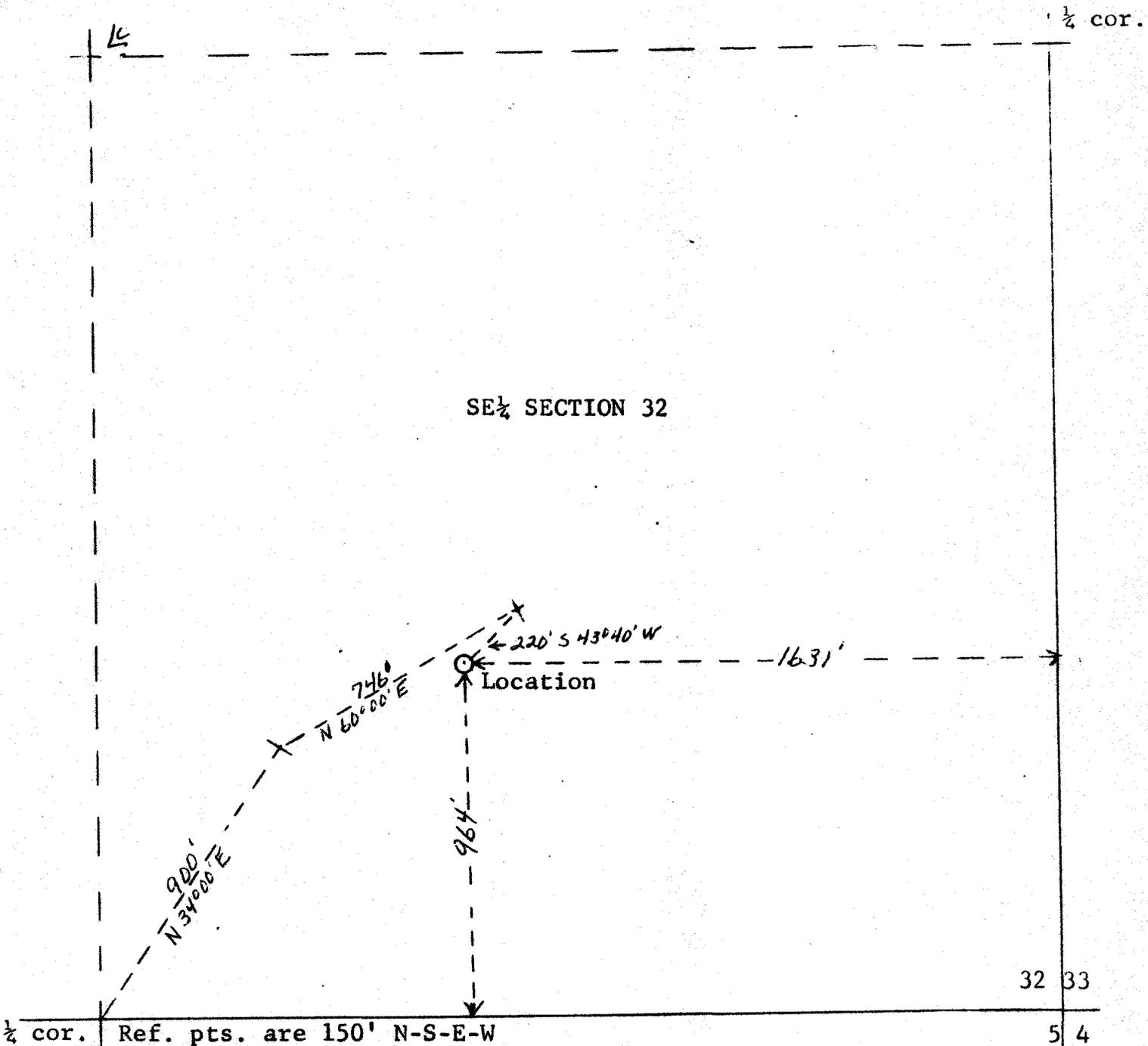
1. It is planned to drill a 11" surface hole for the surface casing down to a depth of about 150 ft. and set 8-5/8" casing with approx. 80 sks of cement with returns to the surface. A casing head or flange will be mounted on top of the surface casing and a blowout preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 100 ft. long will then be attached to the rotating head and extended into the reserve pit.
2. A 7-7/8" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at the end of the blewie line at all times while drilling below 1500'. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir.

3. Samples of the cuttings will begin at 1800'. 30-ft. samples will be taken from 1800' to 2200', and then 10-ft. samples will be taken from 2200' to total depth.
4. It is planned to drill the well to a depth which is approximately 100 feet below the top of the Entrada formation unless good commercial flow of gas is obtained above this depth.
5. If a high gas flow (several million cubic feet) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less than 100 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. A dual-induction-latero-log will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.
6. If good production (over 500 MCF) is obtained, 4½" O.D., 10.50#, K-55, R-3 new casing will be run and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2-3/8" O.D. tubing run, and completed conventionally.
7. It is anticipated that the drilling of the well will require less than one week.

*W. Don Quigley*

W. Don Quigley  
Consulting Geologist  
Salt Lake City, Utah

LOCATION PLAT FOR  
 N.P. ENERGY CORPORATION  
 STATE #32-3 WELL  
 SW. SE. SEC. 32-26S-22E  
 GRAND COUNTY, UTAH  
 (1631' fr. E-line & 964' fr. S-line)  
 Elev. 4840' grd.



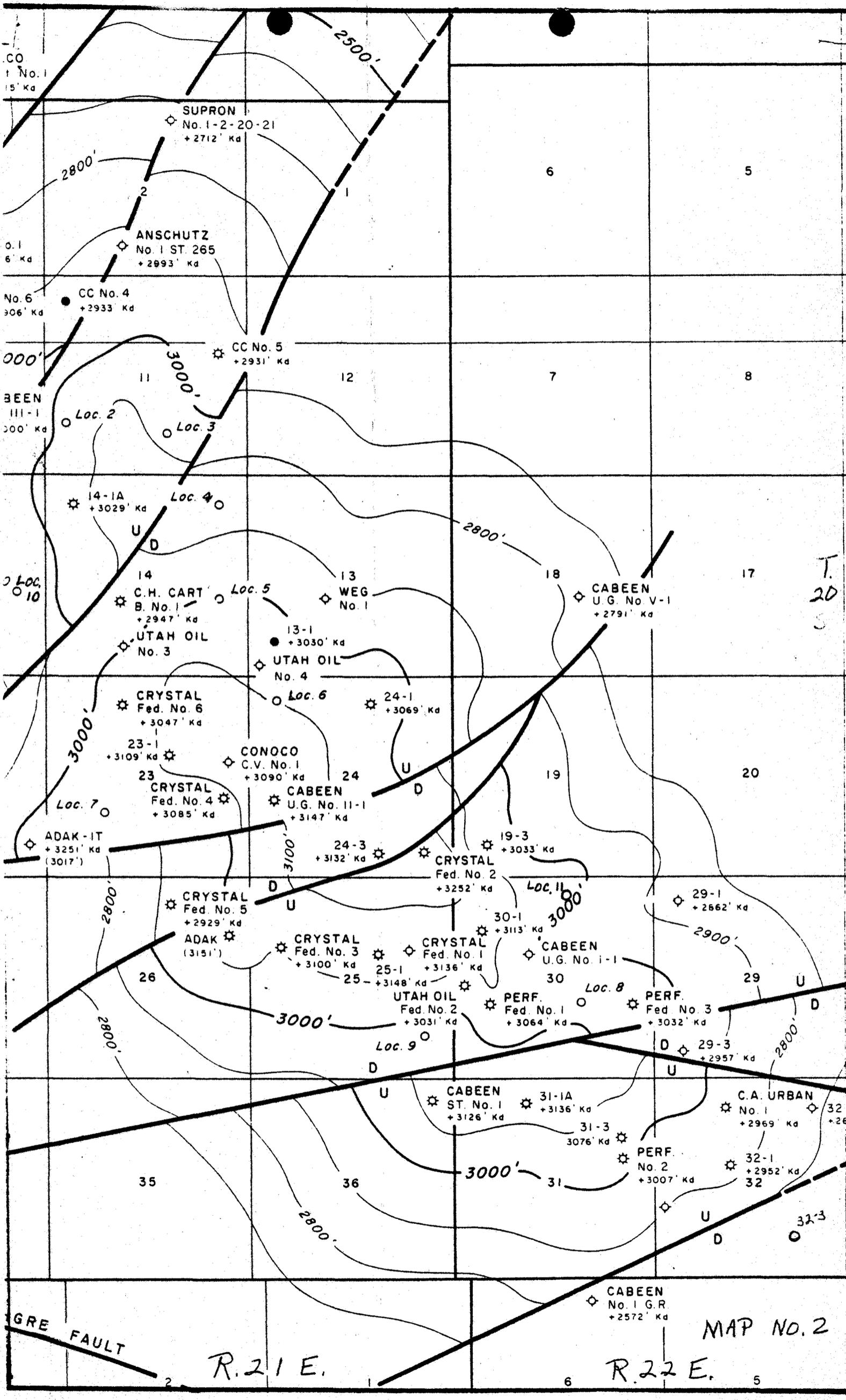
I, Sherman D. Gardner, do hereby certify that this plot was plotted from notes of a field survey made under my direct responsibility, supervision and checking on July 7, 1979.

Scale: 1" = 400 ft.  
 Date: July 13, 1979

*Sherman D. Gardner*  
Sherman D. Gardner  
 Registered Land Surveyor  
 State of Utah #1556

PLAT NO. 1





CO  
1 No. 1  
15' Kd

o. 1  
6' Kd

No. 6  
306' Kd

BEEN  
111-1  
300' Kd

SUPRON  
No. 1-2-20-21  
+2712' Kd

ANSCHUTZ  
No. 1 ST. 265  
+2993' Kd

CC No. 4  
+2933' Kd

CC No. 5  
+2931' Kd

14-1A  
+3029' Kd

14  
C.H. CART  
B. No. 1  
+2947' Kd

UTAH OIL  
No. 3

CRYSTAL  
Fed. No. 6  
+3047' Kd

23-1  
+3109' Kd

23  
CRYSTAL  
Fed. No. 4  
+3085' Kd

ADAK-IT  
+3251' Kd  
(3017')

CRYSTAL  
Fed. No. 5  
+2929' Kd

ADAK  
(3151')

CRYSTAL  
Fed. No. 3  
+3100' Kd

CRYSTAL  
Fed. No. 1  
+3136' Kd

25-1  
+3148' Kd

UTAH OIL  
Fed. No. 2  
+3031' Kd

CABEEN  
ST. No. 1  
+3126' Kd

31-1A  
+3136' Kd

31-3  
3076' Kd

PERF.  
No. 2  
+3007' Kd

C.A. URBAN  
No. 1  
+2969' Kd

32-1  
+2952' Kd

CABEEN  
No. 1 G.R.  
+2572' Kd

MAP NO. 2

GRE FAULT

R. 21 E.

R. 22 E.

T.  
20  
5

WELL CONTROL EQUIPMENT FOR  
N. P. ENERGY CORP.  
STATE #32-3 WELL  
SW. SE. SEC. 32-20S-22E.  
GRAND COUNTY, UTAH

The following control equipment is planned for the above designated well: (See attached diagram)

1. Surface Casing:

- A. Hole size for surface casing is 11"
- B. Setting depth for surface casing is approx. 150 ft.
- C. Casing specs. are: 8-5/8" O.D., K-55, 24.00#, 8 rd. thread, R-3 new or used.
- D. Anticipated pressure at setting depth is approx. 20 lbs.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 80 sks of cement with returns to the surface.
- F. Top of the casing will be near ground level.

2. Casing Head:

Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2", 2000# W.P. ball or plug valves. Casing head and valves set above ground level. (A flange only may be used on top of the casing, if the B.O.P. is equipped with 2" outlets below the blind rams.)

3. Intermediate Casing:

None

4. Blowout Preventors:

- A. Double rams; hydraulic; one set of blind rams; one set of rams for 3½" or 4" drill pipe; 10" flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000# p.s.i. A hydraulically operated hy-drill may be used in place of the above B.O.P., if equipped with 2" outlets below the rams.
- B. Rotating Head: Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3½" or 4" rubber for

2000# W.P.; need not have hydril assembly on bottom, if a separate hydril or B.O.P. is used.

- C. Fill and Kill Lines: The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head and thru a manifold to permit ready switching from the fill to kill lines.

5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A safety valve that can be used in the drill pipe will be kept within easy reach on the rig floor at all times.

6. Anticipated Pressures:

The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 2000' to 3000' in the area have been measured at about 500# to 800# maximum. No toxic gases are anticipated.

7. Drilling Fluids:

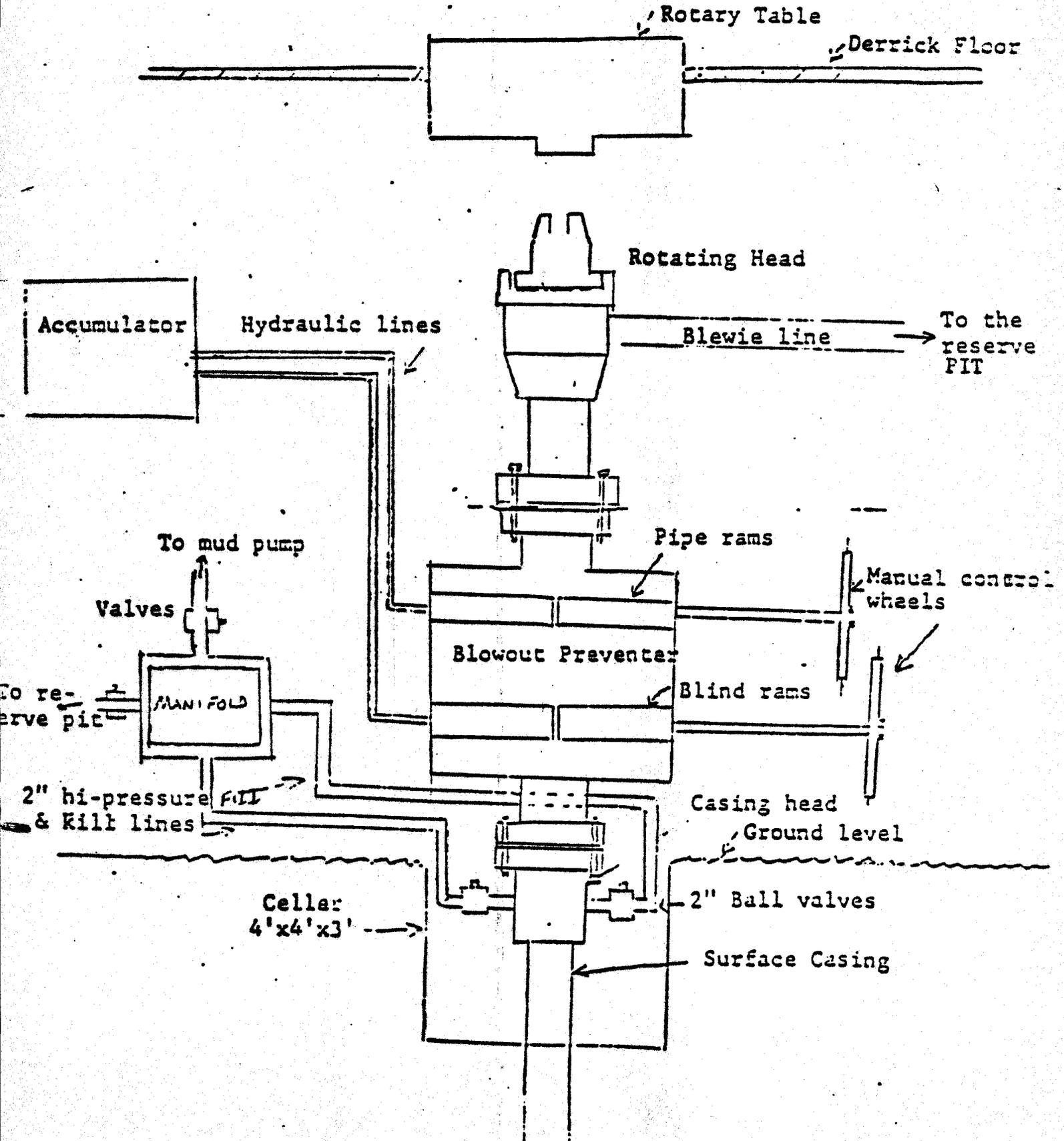
Air will be used to drill the subject well until water is encountered, then air-soap-water mist will be used to drill the well deeper. In case of excessive caving problems, it may be necessary to convert to mud.

8. Production Casing:

- A. Hole size for production casing will be 6½".  
B. Approx. setting depth will be about 3500'.  
C. Casing Specs. are: 4½" O.D.; K-55; 10.50#; 8-rd thread; R-3, new.  
D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8" O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.  
E. Casing will be run with about six centralizers and a cement basket with DV tool set above the production zone.

There will be sufficient casing to extend thru the production zone below the basket with a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the DV tool. Two inch tubing will be run and secured in the tubing head prior to perforating.

SCHEMATIC DIAGRAM OF  
CONTROL EQUIPMENT FOR THE  
N. P. ENERGY CORP.  
STATE #32-3 WELL  
SW. SE. SEC. 32-20S-22E.



1125  
SCOTT M. MATHESON  
Governor



OIL, GAS, AND MINING BOARD

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Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

I. DANIEL STEWART  
Chairman

CLEON B. FEIGHT  
Director

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

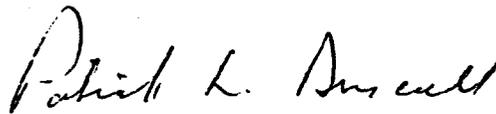
CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

ON-SITE EQUIPMENT AND GENERAL PRACTICES  
FOR DRILLING IN KNOWN AREA OR IN A KNOWN  
FORMATION CONTAINING HYDROGEN SULFIDE

1. A minimum of three cleared areas designated as crew briefing or safety areas. These are to be located no less than 250 feet from the BOP stack, and further, are to be placed so that at least one location is always upwind.
2. The drilling rig should be spotted so as the general prevailing wind is blowing towards the pits.
3. The location and the reserve pit should be made larger than normal to allow reasonable safe distances from the well for on-site trailers. The reserve pit is to be larger in order to accommodate safe flaring of gas.
4. There shall be a minimum of three wind sack poles, and each pole shall have two streamers. The lower most streamer shall be located no more than 8 feet above ground level or, when attached to the rig, no more than 8 feet above the rotary table. Streamers shall be illuminated for night operations.
5. The mud logging unit should be no closer than 125 feet from the BOP unit, and the electrical generator is to be at least 150 feet from the BOP unit.
6. Well marked, highly visible warning signs are to be located no less than  $\frac{1}{2}$  mile on all access roads to the rig.
7. An approved contingency plan must be submitted prior to commencing drilling operations into known formations containing, or suspected of containing hydrogen sulfide.
8. A minimum of 5 self-contained breathing apparatus on the rig floor, and 2 self-contained breathing apparatus for each occupied trailer on location.
9. At least two "bug fans" on location; one to be located in the cellar area blowing towards the pits, and the other to be located on the rotary floor blowing towards the pits.

10. Prior to drilling into a potentially hazardous formation, the following additional equipment shall be on hand:
  - A. Safety trailer containing no less than 10 - 380 cubic foot bottles of breathing air. The bottles are to be connected to a manifold system that provides outlets on the rig floor for at least 9 men; on the shale shaker and choke manifold for at least 4 men; and at the mud pump and hopper area for 4 men.
  - B. One resuscitator complete with medical oxygen.
  - C. One hand H<sub>2</sub>S detector located on the rig floor.
  - D. One flare gun located in the rig supervisors trailer.
  - E. One additional stretcher and one additional first aid kit.
  - F. One high pressure air compressor suitable for recharging air cylinders.
  - G. One visible and one audible alarm system, complete with monitors located at the shale shaker and at the bell nipple.
  - H. A sufficient quantity of 50/50 aqueous ammonia and water to be able to load the drill pipe when pulling a D.S.T.
  - I. Radio or telephone communication equipment.

Sincerely,



PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER  
DIVISION OF OIL, GAS, AND MINING

PLD/lw

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: July 18, 1979

Operator: N. P. Energy Corporation

Well No: State 32-3

Location: Sec. 32 T. 20S R. 22E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-09-30529

CHECKED BY:

Administrative Assistant: \_\_\_\_\_

Remarks:

Petroleum Engineer: M. J. Minder 7-30-79

Remarks: Verbal approval given by Jack prior to this date.

Director: Z

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. \_\_\_\_\_

Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3

O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

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E. STEELE McINTYRE

July 30, 1979

N.P. Energy Corporation  
Suite 230, 57 W. So. Temple  
Salt Lake City, UT 84101

RE: State 32-3  
Sec. 32, T. 20S, R. 22E  
Grand County

Dear Sir:

Persuant to your conversation with Cleon B. Feight and in view of this lease expiration at the end of this month; the above referred to well may be conditionally approved as follows:

As long as you do meet the spacing requirement of cause No. 102-16 and it is accepted by the Board of Oil, Gas, and Mining you may produce from this well. Should the Board fail to pass cause No. 102-16, your gas well would be in violation of present well spacing under Rule C-3, and as such would not be permitted to produce from the same stratigraphic intervals as any other gas well written in a radius of 4960 feet. Upon completion, you will be required to plug this well, if present spacing is not modified.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer  
HOME: 876-3001  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operation commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30529.

N.P. Energy Corporation  
Page Two  
July 30, 1979

Sincerely,

DIVISION OF OIL, GAS AND MINING

*M.T. Minder*

MICHAEL T. MINDER  
GEOLOGICAL ENGINEER

MTM/tlh

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

*State*

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. <input type="checkbox"/> OIL WELL    <input type="checkbox"/> GAS WELL    <input checked="" type="checkbox"/> OTHER    Dry</p> <p>2. NAME OF OPERATOR N. P. Energy Corporation</p> <p>3. ADDRESS OF OPERATOR Suite 320, 57 W. So. Temple, S.L.C., Utah 84101</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW. SE. Sec. 32, T 20S, R 22E, S.L.M. 1631' fr. E-line and 964' fr. S-line</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. ML-24295-A</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME State</p> <p>9. WELL NO. St. #32-3</p> <p>10. FIELD AND POOL, OR WILDCAT Cisco Dome</p> <p>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA SW. SE. Sec. 32-20S-22E. S.L.M.</p> <p>12. COUNTY OR PARISH    13. STATE Grand                      Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4840' grd; 4850' K.B.</p>	

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

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

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

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

The above well was drilled to a depth of 3088' which was about 70 feet below the top of the Entrada formation; and was unsuccessful in obtaining any commercial flow of gas or oil and was therefore plugged in the following manner:

- A. Hole bridged at 2300' and two attempts to remove bridge failed. During the last attempt, the drill pipe became stuck and had difficulty in getting loose.
- B. Cement plugs were placed as follows:
  - Plug #1: 2300-2100' (60 sks) across top of Dakota
  - Plug #2: 200-80' (50 sks) across bottom of surface casing
  - Plug #3: 0-10' (10 sks) placed in top of surface casing with well marker

Location has been cleaned, pits folded in and covered; and road has been erased and scarred.

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

SIGNED *J. Don Gungley* TITLE Vice-President DATE Jan. 14, 1980

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

15

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.  
ML-24295-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
State

9. WELL NO.  
St. #32-3

10. FIELD AND POOL, OR WILDCAT  
Cisco Dome

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
SW.SE. Sec. 32-20S-22E.

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
N. P. Energy Corporation

3. ADDRESS OF OPERATOR  
Suite 320, 57 W. So. Temple, S.L.C., Utah 84101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface SW.SE. Sec. 32, T 20S, R 22E, S.L.M.  
At top prod. interval reported below 1631' fr. E-line and 964' fr. S-line  
At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED Jul. 31, 79 16. DATE T.D. REACHED Aug. 19, 79 17. DATE COMPL. (Ready to prod.) 8-21-79 18. ELEVATIONS (DF, RER, RT, GR, ETC.)\* 4840' grd; 4850' K.B. 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 3088' 21. PLUG, BACK T.D., MD & TVD \_\_\_\_\_ 22. IF MULTIPLE COMPL., HOW MANY\* None 23. INTERVALS DRILLED BY ROTARY TOOLS 0-3088' CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* None 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual-Induction-Laterolog 27. WAS WELL CORED No

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

CASING SIZE	WRIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.00#	166' K.B.	12 1/4"	100 sks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None	

31. PREPARATION RECORD (Interval, size and number) None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) Plugged & abandoned

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
				None	None	None	

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

35. LIST OF ATTACHMENTS  
Drilling History and Geologic Report

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

SIGNED N. P. Energy Corporation TITLE Vice-President DATE Jan. 15, 1980

\*(See Instructions and Spaces for Additional Data on Reverse Side)

DRILLING HISTORY  
AND  
GEOLOGIC REPORT  
ON  
N. P. ENERGY CORPORATION  
STATE #32-3 WELL  
GRAND COUNTY, UTAH

By

W. Don Quigley  
Consultant  
Salt Lake City, Utah

January 16, 1980

DRILLING HISTORY  
N. P. ENERGY CORP.  
STATE #32-3 WELL  
GRAND COUNTY, UTAH

Operator: N. P. Energy Corp.  
Suite 320, 57 W. South Temple, Salt Lake City, Utah 84101

Contractor: Shumway Drilling Co.  
Spanish Trail Drive, Moab, Utah 84532

Location: SW. SE. Section 32, T 20S, R 22E, S.L.M., Grand County,  
Utah (1631' from E-line and 964' from S-line)

Elevation: 4840' grd; 4850' K.B.

Spudded-in: July 31, 1979

Finished Drilling: Aug. 19, 1979

Total Depth: 3088'

Surface Casing: 4 jts (156') of 8 5/8", 24.00#, K-55, R-3 casing  
set at 166' K.B. and cemented w/100 sks reg. cement  
w/3% CaCl. Returns to the surface.

Plugged & Abandoned: August 21, 1979

Drilling History

July 31: Moved in rig and drilled to 21' with air.

Aug. 1-Aug. 4: Moved in large air compressor, drill pipe, collars,  
dog house, etc. (Rig truck broke down.) Had to water  
down road to get trucks to site. Drilled to 59' with  
air. Hit gravel and boulders and couldn't keep hole  
open.

Aug. 5: Drilled 59' to 117' (58'). Rigged up to drill 12 1/4"  
surface hole with mud. Drilled hole to 117' but couldn't  
keep hole clean and circulate gravel out with rig pump.

Aug. 6: Worked on pump. Got stuck and couldn't get loose. Cir-

culated hole for a time until pressure built up and couldn't circulate. Working pipe.

- Aug. 7: Worked pipe but couldn't get loose - so backed off and left two collars and bit in hole. Rigged down and slid rig 5 ft. to redrill surface hole. Rigged up and mixed mud. Moved in mud tank and larger pump.
- Aug. 8: Drilled 0' to 155' (155'). Redrilled 12½" surface hole to 155'. Circulated and washed hole to clean out.
- Aug. 9: Drilled 155' to 176' (21'). Started out of hole and drill collar twisted off 30 ft. down. Fishing.
- Aug. 10: Fished out drill collars. Worked on mud pump, rotary table, and hydraulic system.
- Aug. 11: Replaced swabs in large pump. Mixed mud and reamed hole to bottom (176'). Circulated hole for 1½ hrs and came out to run casing. Ran 4 jts. of casing, and cemented casing with 100 sks of reg. cement w/3% CaCl. Plug down at 6 P.M.
- Aug. 12: Waited on cement and parts for rig.
- Aug. 13-14: Rotary table went out and waited on parts and repaired same. Drilled out cement to 162'.
- Aug. 15: Drilled 176' to 1605' (1429'). Drilled ahead with 6 5/8" bit. Drilling at average rate of 90 ft/hr. Encountered some water at 440' but could dry up as long as drilling was continuous.
- Aug. 16: Drilled 1605' to 2025' (420'). Made rd-trip at 2025' for button bit. Bit #2 (Hughes OSC3-J) made 1850' (175' to 2025') in 24 hrs. Drilled at avg. rate of 77 ft/hr. Encountered some gas or oil at 1930' to 1960'. Flared with 10 ft. cont. flare with air off. This is in Mancos (shale) formation. Clutch went out on Booster so had to wait for parts and repair same.

- Aug. 17: Drilled 2025' to 2421' (396'). Came out of hole at 2025' while repairing booster clutch. Booster clutch went out while unloading hole. Couldn't dry up so had to convert to mist-drilling. Estimate top of Dakota at 2300'. Sand is hard and tight with no shows. Top of Cedar Mt. at 2365'.
- Aug. 18: Drilled 2421' to 2848' (427'). Cedar Mt. had no porous sands or shows. Estimate top of Morrison at 2450'. Brushy Basin section had no porous sands or shows. Est. top of Salt Wash section at 2710'. Shut down for 2½ hours waiting on soap.
- Aug. 19: Drilled 2848' to 3088' (240'). Salt Wash section had no porous sands and no shows; (no gas recovery or oil out blewie line). Estimate top of Curtis-Summerville formation at 2950', and top of Entrada at 3020'. Entrada was medium-grained, loose, clear, rounded sandstone without shows. Had an increase in water also.
- Aug. 20: Pulled 10 jts. of drill pipe and began mudding-up to log. Didn't get circulation with 400 bbl of mud so had to mix more mud. Still didn't get circulation. Came out of hole to log. Rigged up Schlumberger and went in hole. Tool wouldn't go below 2300'; so ran a Dual-Induction-SFL log on upper part of hole. Went back in with drill string and drilled out bridge but didn't get circulation. Came out of hole and went back in with logging tool. Tool wouldn't go past 2300'. Decided to give up trying to log lower part of hole.
- Aug. 21: Came out of hole with logging tool and rigged down. Went back in hole with drill pipe (open ended). Placed cement plugs as follows:
- Plug #1: 2300' to 2100' (60 sks) across top of Dakota
  - Plug #2: 200' to 80' (50 sks) across bottom of surface casing
  - Plug #3: 10 ft. to surface (10 sks) with well marker
- Aug. 22: Rigged down and moved. rig. Location has been cleaned, pits folded-in; road has been erased and scarred.

GEOLOGIC REPORT  
ON  
N. P. ENERGY CORPORATION  
STATE #32-3 WELL

1. The N. P. Energy Corporation State #32-3 Well was located far down the southeastern flank of the Cisco Dome Anticline. The well was also located south of a northeast trending fault and it was felt that this could provide further entrapment of hydrocarbons on the south side of the fault, not withstanding its low position on the flank of the structure. The well, however, was unsuccessful in obtaining any appreciable flow of gas or any free oil. Some good thick sand bodies were found in the Dakota formation and in the Salt Wash section of the Morrison formation, but none of these produced any free gas or oil while drilling with air or air-mist.
2. The only gas obtained was from a zone, 1900' to 2040', in the Mancos which produced a continuous flare of about 8 ft. long while shut down. This small gas flow, however, was insufficient to attempt completion of an economical well.
3. Considerable difficulties were encountered in the drilling of this well due to the inadequate drilling rig and lack of supporting equipment. The rig was a Speed-Star 2500 with no auxillary mud pumps, cat walks, pipe racks, dog houses, water tanks, mud tanks, fuel tanks, etc. Thus any problems encountered required several days to overcome, due to the inadequate equipment. See the details in the 'Drilling History' part of this report.
4. The well was finally drilled to a total depth of 3088' and tried to log hole. When the well was mudded-up, it was not possible to get circulation and returns to the surface so the hole couldn't be cleaned-up properly. Consequently, the logs wouldn't go below 2300', which is at the top of the Dakota formation. Two attempts were made to get the logging tools below 2300' without success, so the upper part of the hole, 0' to 2300', was the only portion logged.
5. A detailed descriptive log of the samples, however, was compiled and is attached hereto. The formations with their tops, thicknesses, and datum points which were encountered in the St. #32-3 well, as determined from the sample log, are as follows:

<u>Formation</u>	<u>Depth to Top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos *	Surface	2300'	4850' K.B.
Dakota	2300'	65'	2550'

Cedar Mountain	2365'	85'	2485'
Morrison (Brushy Basin)	2450'	260'	2400'
(Salt Wash)	2710'	240'	2140'
Curtis-Summerville	2950'	70'	1900'
Entrada	3020'	—	1830'
Total Depth	3088'		

\*Formation with hydrocarbon shows

6. It is concluded that, even though the subject well may have been an inadequate test due to the inadequacy of the drilling equipment and the difficulties encountered as a result thereof, the position of the well site on the far southeastern flank of the Cisco Dome structure and south of and on the downthrown side of a northeast trending fault definitely indicates the unfavorable possibilities of good production from this part of the structure. Other wells drilled in this area and even further to the south, have also proven to be unsuccessful. Therefore, it is recommended that no further drilling be attempted on any N. P. Energy land which lies south of the above mentioned fault.

*W. Don Quigley*  
W. Don Quigley  
Consultant

Shaly lime  
Min / ft.

N Energy Corp. - State # 32-7  
SW. SE. Sec 32 - 20S - 22E  
Elev: 4850 K.B.

46 0860

5 X 5 TO 1/2 INCH \* 7 X 10 INCHES  
KEUFFEL & ESSER CO. MADE IN U.S.A.

0 5 10

1800  
1900  
2000  
2100  
2200  
Kd  
2300  
Ker  
2400  
Jm  
2500  
2600  
2700



Blk. tabular calc. sh.

\* DK. ban to blk. calc. sist w/oi st. + don

DK. gray to blk. mica. calc. sh.

\* Blk. vfg. ang. mica. ss. w/ pyrid sh. gray silt. sh. w/wh. calc. spots.

Has. oi don + st.

DK. gray ang. vfg. gray wacke. + gray silt. sh. w/oi. don

\* Blk. dns. sh. + some ban ms

- CONT. - 8 ft. Above while shut down

Some wh. mica bent. |

Blk. sdy sist.

+ dk. gray, sdy sist + pyrid

DK. gray ang. - glauc. vfg. ss.

+ dk. gray sist

Blk. calc. sdy sist.

+ dk. gray vfg. ss. + wh. mica bent.

DK. gray calc. mica. ang. ss. w/ang. gans. - blk. calc. sist.

Light wh. gray ang. - gray ss. + gray sist.

Red wh. vfg. dns. ss. + oi to ban ch.

Gray - ban sist. + ch. + gray vfg. dns. ss.

Gray - ban vfg. tact. ss. + oi sist.

Gray - ban vfg. tact. ss. + blk. sh.

Wh. to gray + tact. ss.

Ban sh. + dk. ban ms. + gray sist. + ss.

ban sh. + sist.

+ ban sdy, dns. + gray gtztc ss.

As above + some pun sist.

+ wh. gtztc ss.

Pun. sist, ban sh, gray sh + gray sandst.

Red sh + sist, pun, gray, gray sist. + sh.

+ wh. gtztc ss.

Black. rd. sh + sist.

+ gray, pun, + gray sist. + sh.

Wh. sil. calc. gtztc ss. + gray + pun sh.

Gray, pun, blk, rd, + ban. sist. + sh.

Hd. gray - gray sist. + sh.

+ varic. sist. + sh.

Varic. sist. + sh.

Mostly dk. gray to blk. sist. + sh.

Varic. sist. + sh. (Lots of dk. gray to blk. sist. + sist)

Dip Lime  
5 10

# State # 32-3 Cont

2700  
In SW

Varic. sh + sst (lots of dk. gray + blk)  
+ wh. gtz to ss.

2800

Some lt. gray to lt. tan med bent vfg ss  
Wh. to dk. vfg - gtz to ss  
DK. gray to blk. calc. sst.  
Wh. to lt. gray vfg. calc. ss + varic. sh + sst.

2900

Varic. calc. sh + sst. some tan chty ms + lt. gray vfg ss  
+ lt. gray vfg. calc. ss.  
DK. gray + dk. calc. sst + sh.  
Med. base md ss  
DK. gray to blk. calc. sh + sst. + wh. gtz to ss.

3000

As above + blk. md dns sh.  
Varic. sst + sh + tan dns ms  
DK. gray calc. sh + gray ms.

3100

Rd. sst, gray sh + ms  
DK. gray calc. med + gray ms  
No. sh to lt. blue chty + gray calc. sh + md sst  
As above + dk. gray ms  
Rd. dns sh. + varic. calc. sh + sst.  
Rd. sst, gray calc. sh + gray ms.  
Gln sh. + gray calc. sh + gray - blk. ms. - wh. bent.  
Gln. base md. ss. NO sh + ms.

T.D. = 3088'

Δ Δ  
Δ Δ  
b

46 0860

February 28, 1980

NN  
N.P. Energy Corp.  
Suite 320  
57 W. So. Temple  
Salt Lake City, Utah 84101

Re: Well No.State 32-3  
Sec.32, T. 20S, R.22E.  
Grand County, Utah

Gentlemen:

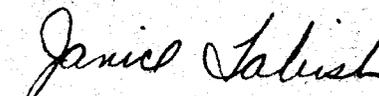
According to our record, a "Well Completion Report " filed with this office Jan. 15, 1980, from above referred to well indicates the following electric logs were run: Dual-Induction-Laterolog. As of today's date this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



JANICE TABISH  
CLERK TYPIST