

**FILE NOTATIONS**Entered in NID File 

Entered On S R Sheet \_\_\_\_\_

Location Map Pinned \_\_\_\_\_

Card Indexed 

FWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

**COMPLETION DATA:**

Date Well Completed \_\_\_\_\_

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Band released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

State of Fee Land \_\_\_\_\_

**LOGS FILED**

Drill-r's Log \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-F \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Log \_\_\_\_\_ M-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

Subsune

U-17309

X  
ROBERT S WEST

X  
ROBERT S. WEST

1983 E 1/2 ROAD GRAND JUNCTION COLO

WK 4 J

WILDCAT

SOUTH 2300 FEET FROM THE NORTH  
BOUNDARY - WEST 2319 FEET FROM THE EAST  
BOUNDARY OF SEC 1

SEC 1, T. 21 S R. 25 E

APPROX 1/2 MILE NORTH OF CISED, GRASSY HILLS  
MILES WEST OF GRAND JUNCTION COLO. GRASSY HILLS

2600'

2640

10

1650

ROTARY

4300'

8 3/4"  
6 1/2"

7"  
4 1/2"

2 1/4"  
9.5

150'  
1650'

30 SACKS  
30 SACKS

WELL WILL BE DRILLED TO TEST DAKOTA & ENTRADA  
SAND FORMATION FOR OIL OR GAS. ALL SHOWS  
ENCOUNTERED WILL BE TESTED.

BLOW OUT EQUIPMENT TO BE USED.

1. RIGGING BOP 3000 PSI (HYD CROSSING 400)  
TESTED TO 1000 PSI AFTER CEMENT JOB  
ON SURFACE PIPE.

2. JACOBS ESTIMATE HEAD ABOVE BOP.

3. FULL SHUT OF GATE VALVE ON WELL  
EXHAUST LINE.

Phil West

Operator

11-17-75

43-019-3020P

December 9, 1975

Robert S. West  
1983 E 7/8 Road  
Grand Junction, Colorado

Re: Well No. WK #3 & WK #4  
Sec. 1, T. 21 S, R. 23 E,  
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5. Said approval is, however, conditional upon this Division receiving a surveyor's plat of each of the proposed locations as well as your previously approved WK #1.

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
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.

The API numbers assigned to these wells are:

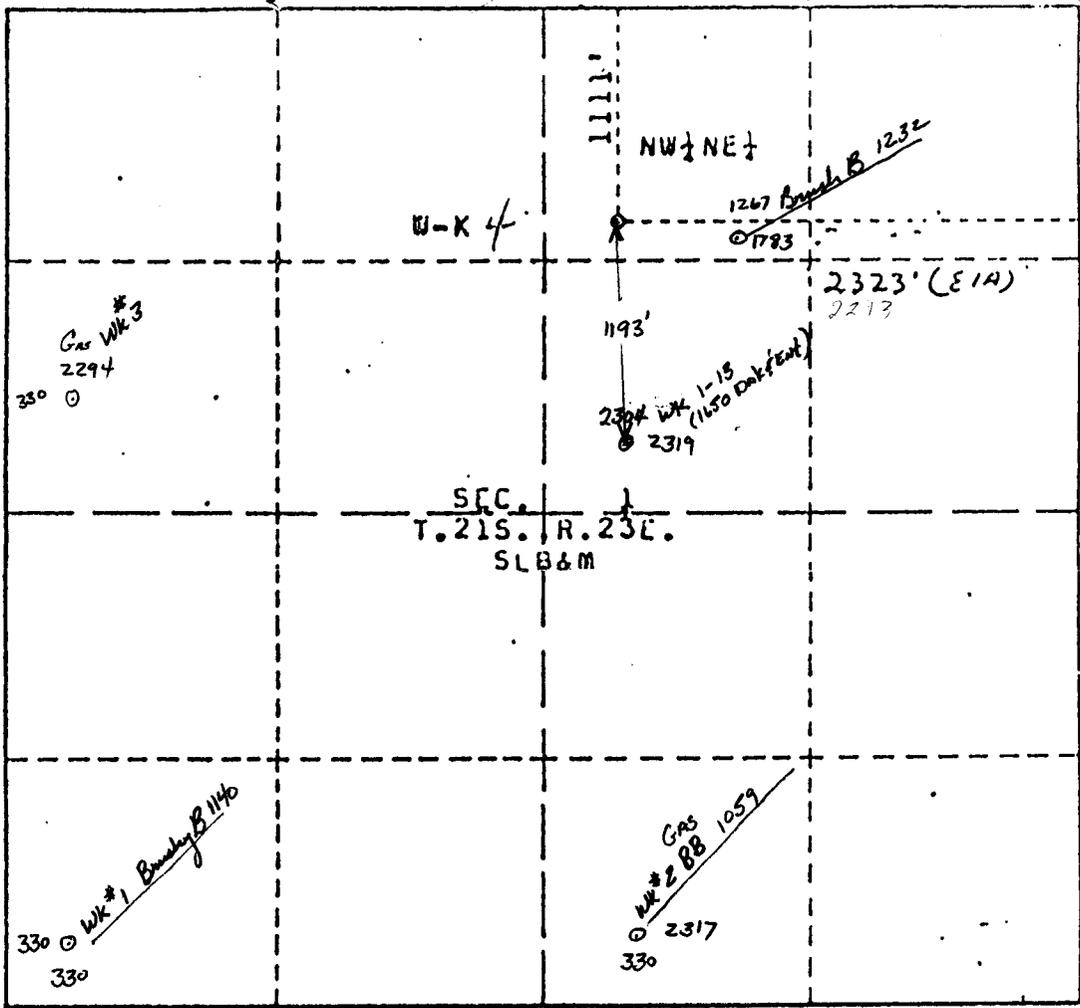
WK #3 - 43-019-30267;      WK #4 - 43-019-30268

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
DIRECTOR

CBF:sw  
cc: U.S. Geological Survey

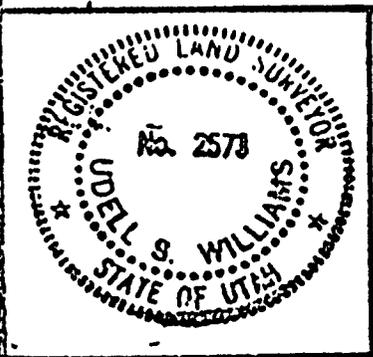


SCALE: 1" = 1000'

W-K 4

located South 1111 feet from the North boundary and west 2293 feet from the East boundary of Section 1, T.21S., R.23E., S.L.B.&M.

Groundline Elev. 4503



**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

*[Signature]*  
UTAH R.L.S. NO. 2573

UDELL S. WILLIAMS  
751 ROOD AVENUE  
GRAND JUNCTION, COLORADO  
81501

---

PLAT OF  
PROPOSED LOCATION  
W-K 4  
SW 1/4 NW 1/4 NE 1/4 SEC. 1  
T.21S., R.23E., S.L.B.&M.

---

SURVEYED BY: USW DATE 7/2/79

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DRAWN BY: USW DATE 7/2/79

PLAT 1

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL

DEEPEIN

PLUG BACK

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

MULTIPLE ZONE

2. NAME OF OPERATOR

ROBERT S. WEST

3. ADDRESS OF OPERATOR

1983 E 7/8 ROAD GRAND JUNCTION COLO

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

At surface SOUTH 2304 FEET FROM THE NORTH BOUNDARY + WEST 2319 FEET FROM THE EAST At proposed prod. zone BOUNDARY OF SEC 1

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

APPROX 4 1/2 MILES NORTH OF CISED, UTAH + 55 MILES WEST OF GRAND JUNCTION COLO

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any) 2640'

16. NO. OF ACRES IN LEASE

8640

17. NO. OF ACRES ASSIGNED TO THIS WELL

10

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

1650

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4500'

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows show 8 3/4" hole with 7" casing, 21 lb weight, 150' setting depth, 30 sacks cement; and 6 1/4" hole with 4 1/2" casing, 9.5 weight, 1650' setting depth, 30 sacks cement.

WELL WILL BE DRILLED TO TEST DAKOTA + ENTRADA SAND FORMATION FOR OIL OR GAS. ALL SHOWS ENCOUNTERED WILL BE TESTED.

- BLOW OUT EQUIPMENT TO BE USED. 1. RIGAN B.O.P. 3000 PSI (HYD CLOSING UNIT) TESTED TO 1000 PSI AFTER CEMENT JOB ON SURFACE PIPE. 2. JACOBS ROTATING HEAD ABOVE B.O.P. 3. FULL SHUT OF GATE. VALVE ON WELL EXHAUST LINE.

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 Operator DATE 11-17-75

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY [Signature] TITLE ASST. ENGINEER DATE DEC 09 1975

CONDITIONS OF APPROVAL, IF ANY:

Approval Notice - STATE OF CO \*See Instructions On Reverse Side

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH



Well

Location

Robert S. West WK #4

2304' FNL, 2319' FEL, sec. 1, T. 21 S., R. 23 E., SLM, Grand Co. Gr. El. 4500'

Lease No.

U-17309

1. **Stratigraphy and Potential Oil and Gas Horizons.** The surface rocks are Mancos. Promontory Oil Co. well #10 (Gr.El. 4638 KB), in sec. 2, same township, reported the following tops: Dakota-924', Morrison-1044', Buckhorn-1154', Salt Wash-1285', Entrada-1665'.
2. **Fresh Water Sands.** WRD reports from sec. 29, T. 20 S., R. 24 E. "Usable water, fresh or slightly saline, may occur in sandstone units of the Mancos Shale, Dakota Sandstone, and the conglomerate member of the Cedar Mtn. Shale. Moderately saline water occurs in the sandstones of the Morrison Formation in this area." Important water sands noted: Well-A.Lansdale #2 (Gr.El.4430') sec. 10, between 1280'-1287', A.Lansdale #1-A (Gr.El.4434') sec. 10, between 840'-871', and A.Lansdale #5 (Gr.El.4444') sec. 10, between 874'-892'.
3. **Other Mineral Bearing Formations.** (Coal, Oil Shale, Potash, Etc.) None. In Bull. 852 Fisher commented: "Inasmuch as the area embraced in Tps. 19, 20, and 21 S., Rs. 22 and 23 E., and the southern part of T. 18 S., R. 23 E., contains no coal resources of any value, it is discussed as a unit for the sake of brevity." The drilling area is within the valuable prospective for coal lands.
4. **Possible Lost Circulation Zones.** Unknown.
5. **Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.** Unknown.
6. **Possible Abnormal Pressure Zones and Temperature Gradients.** Unknown.
7. **Competency of Beds at Proposed Casing Setting Points.** Weathered shale may cave readily.
8. **Additional Logs or Samples Needed.** None.
9. **References and Remarks** Within 2 mile radius of KGS.

COPY RETAINED DISTRICT OFFICE

Date: December 11, 1975 *State 006* Signed: *Ellen M. Rera*



# United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
8426 Federal Building  
Salt Lake City, Utah 84138

March 2, 1976



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Robert S. West  
4169 Lakeview Drive  
Ogden, Utah 84403

Re: 4-Well Program  
Oil and Gas Lease U-17309  
Sec. 1, T21S, R23E, SLB&M  
Grand County, Utah

Dear Mr. West:

Congratulations on your discovery on the referenced as reported by telecon March 1, 1976 for Well No. WK 2. Your comment in your report that you "were glad that this office required that you install the (well control) equipment for drilling this well" was appreciated.

In view of the magnitude of volumes and pressures encountered at the depth for Well No. WK 2, it is the opinion of this office that we should realign the drilling and casing programs for the remaining three wells (WK 1, WK 3 and WK 4) for the reservoir conditions encountered by Well No. WK 2. The well control program as prescribed by this office in the special conditions of approval for the drilling program, by letter December 10, 1975, apparently were adequate, but the actual conditions encountered indicate that they should be improved to better assure safety of personnel and operations.

Accordingly, approvals of the Applications for Permit to Drill Wells No. WK 1, WK 3 and WK 4 of December 9, 1975 are suspended effective immediately until we can discuss realignment of the program. It is expected that this can be completed in one day.

Please stop by this office (8426 Federal Building, Salt Lake City) with your drilling foreman, or others you may wish to bring, at your convenience, so that we may formulate the revised program.

Thank you. Again, congratulations.

Sincerely yours,

E. W. Guynn  
District Engineer

cc: Oil, Gas & Mining Conservation  
Commission, Utah



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director*  
NATURAL RESOURCES

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

I. DANIEL STEWART  
*Chairman*

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

CLEON B. FEIGHT  
*Director*

March 6, 1978

Mr. Robert West  
11118 South Mary Drive  
Sandy, Utah 84070

Re: Robert West  
Well No. Wk-4  
SW NE Sec. 1, T. 21S., R. 23E.  
Grand County, Utah

Dear Mr. West:

As a considerable period of time has elapsed since the filing of the above permit, it is deemed to be in the best interest of the State if the above drilling permit were cancelled.

If you should care to reactivate this permit, please let us know.

Sincerely,

PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD/rsw

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

PERMIT TO DRILL, DEEPEN, OR PLUG BACK  
(SEE REVERSE SIDE)

Form Approved  
Budget Bureau No. 42-11427

5. LEASE DESIGNATION AND SERIAL NO.  
U 17309

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
WEST KOILMAN

9. WELL NO.  
WK #4

10. FIELD AND POOL, OR WILDCAT  
Cisco

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 1-21S-23E

12. COUNTY OR PARISH 13. STATE  
Grand Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL  
10

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
Nov. 1, 1979

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

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

2. NAME OF OPERATOR  
Robert S. West

3. ADDRESS OF OPERATOR  
749 Sunset Drive      Kaysville, Utah 84037

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
2319 ft. West of East Boundry, 2304' South of North Boundry  
Sec. 1-21S-23E  
At proposed prod. zone

14. DISTANCE IN MILES, AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approx. 4 1/2 miles North of Cisco, Utah & 55 miles West of Grand Junction, Colorado

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 2304'

16. NO. OF ACRES IN LEASE  
640

17. NO. OF ACRES ASSIGNED TO THIS WELL  
10

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
1400' from WK 1-14oil well      1650'

19. PROPOSED DEPTH  
1650'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GR. 4500'

22. APPROX. DATE WORK WILL START\*  
Nov. 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4	7 5/8	24 lb.	150'	75 sks.
6 1/2	4 1/2	10.50	1650'	75 sks.

Well will be drilled to test Dakota & Entrada Sand formations for oil or gas. All shows encountered will be tested. The well will be drilled with Rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated Blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume thru 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 for the well is attached.

**APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING**  
 DATE: February 14 1980  
 BY: Clare B. Light / atm

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 Robert S. West TITLE Operator DATE 2-8-80

(This space for Federal or State office use)

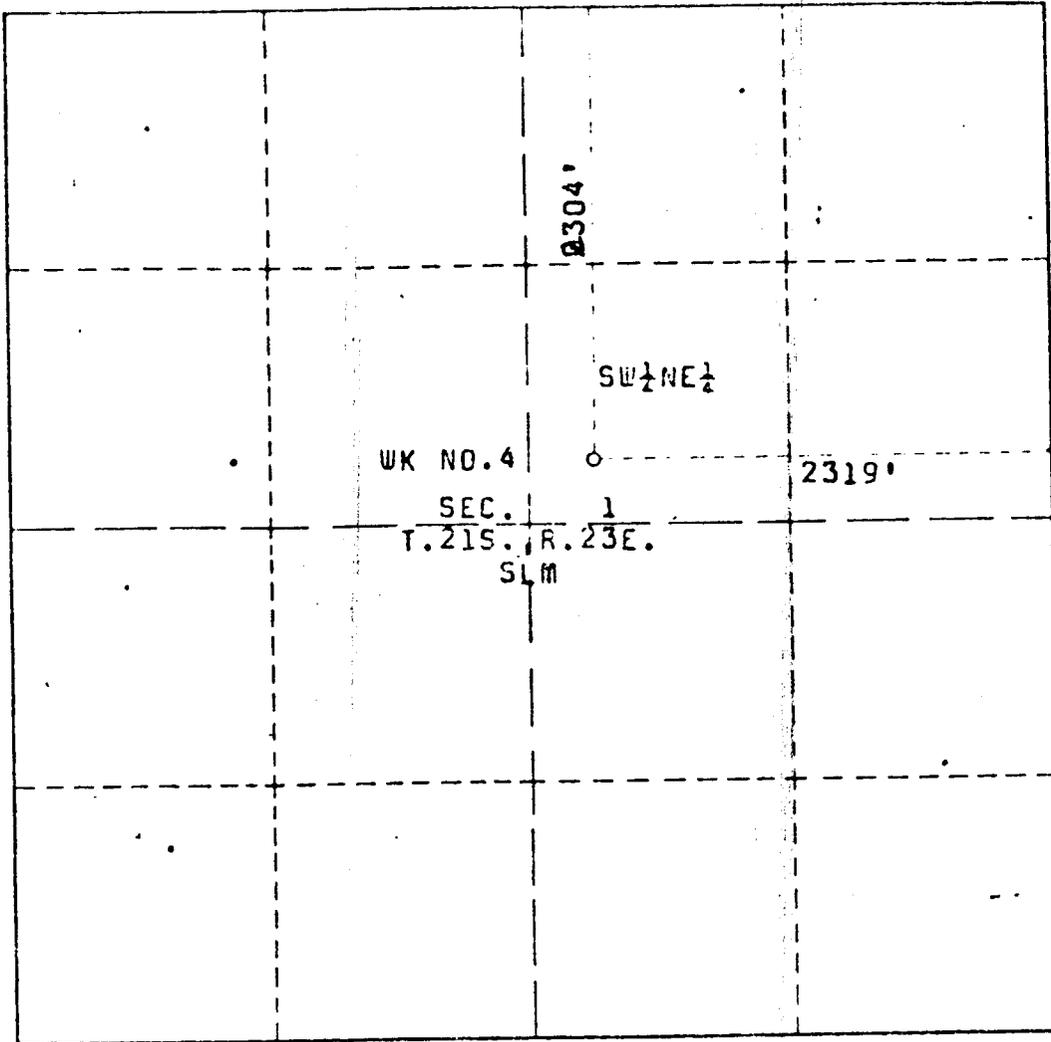
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE FEB 13 1980

CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF  
OIL, GAS & MINING

\*See Instructions On Reverse Side

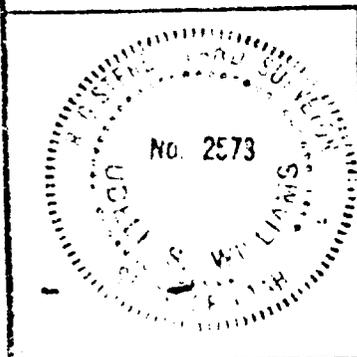


SCALE 1" = 1000'

WK NO. 4

Located South 2304 feet from the North boundary and West 2319 feet  
 XXXX from the East boundary of Section 1, T.21S., R.23E., S.L.M.

Groundline Elev. 4500



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED  
 FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR  
 UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE  
 AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

*Udell S. Williams*  
 UTAH R.L.S. NO 2573



UDELL S. WILLIAMS  
 751 ROOD AVENUE  
 GRAND JUNCTION, COLORADO  
 81501

PLAT OF  
 PROPOSED LOCATION

WK NO. 4  
 SW 1/4 SW 1/4 NE 1/4 SEC. 1  
 T.21S., R.23E., SLM

SURVEYED BY: DATE:

DRAWN BY: USW DATE: 11/9/75

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

U-17309

5. Lease Designation and Serial No.

N/A

6. If Indian, Allottee or Tribe Name

None

7. Unit Agreement Name

None

8. Farm or Lease Name

West Kolman

9. Well No.

WK #1-13 ~~(was WK #4)~~

10. Field and Pool, or Wildcat

Cisco Gtr Cisco Area

11. Sec., T., R., M., or Bk. and Survey or Area

SW NE Section 1, T21S, R23E

12. County or Parrish 13. State

Grand Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

(was Robert West)  
COLORADO-PACIFIC PETROLEUM CORPORATION (303)629-1564

3. Address of Operator

1020-15th Street, Suite 41N, Denver, CO 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

SW NE Section 1, T21S, R23E

At proposed prod. zone

2319' FEL, 2304' FNL

operator change + well # change

14. Distance in miles and direction from nearest town or post office\*

Approx. 4 1/2 miles North of Cisco, Utah and 55 miles West of Grand Junction, Colorado

15. Distance from proposed location to nearest property or lease line, ft.

2304'

16. No. of acres in lease

640

17. No. of acres assigned to this well

10

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

1400' from

19. Proposed depth

1650'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

4500' GR

22. Approx. date work will start\*

April 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24 lb.	150'	Cement to surface
7 7/8"	4 1/2"	10.5 lb.	Thru pay zone	150-200' above uppermost hydrocarbon section

Well will be drilled to test Dakota and Entrada Sand formations for oil or gas. All shows encountered will be tested. The well will be drilled with Rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume through 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 for the well is attached.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 4-15-80  
BY: [Signature]

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]  
KAREN K. FRENCH

Title: LANDMAN

Date: 3/17/80

Permit No. 43-019-30268

Approval Date

Approved by: Conditions of approval, if any:

Title:

Date:

NAME: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH  
DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH  
SUBJECT: APD MINERAL EVALUATION REPORT

Glenn

LEASE NO. U-17309

OPERATOR: Robert S. WEST WELL NO. WK-4

LOCATION: 1/4 1/4 1/4 sec. 1, T. 21S, R. 23E, S1M  
Grand County, UTAH

Stratigraphy: Operators estimated tops seem reasonable.

Fresh Water: Usable water may occur in sandstone units of the Mancos shale, Dakota Sandstone + the conglomerate member of the Cedar Mtn.  
Leasable Minerals:

Coal may occur in the Dakota Sandstone. Coal beds should be thin and discontinuous.

Additional Logs Needed: Resistivity log to identify the coal beds

Potential Geologic Hazards: Not anticipated by the operator.

References and Remarks: U.S.G.S. Bull 852

12 MAR 1980

Signature: emb Date: 3-5-80

*Glenn*

*Colorado Pacific*  
*1-213-23E*  
*Well # WK-4*

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. \_\_\_\_\_

1. The location appears potentially valuable for:

- strip mining\*
- underground mining\*\*
- has no known potential.

2. The proposed area is

- under a Federal lease for \_\_\_\_\_ under the jurisdiction of this office.
- not under a Federal lease under the jurisdiction of this office.
- Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

\*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at \_\_\_\_\_ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

\*\*If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen S. Vance*

10 MAY REC'D

# DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: SALT LAKE  
SERIAL NO.: U - 17309

and hereby designates

NAME: COLORADO - PACIFIC PETROLEUM CORPORATION  
ADDRESS: 1020 15th St.  
Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

T. 21 S., R. 23 E. S.L.M. Grand County, Utah  
Section 1 ALL

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

BY: Ross L. Jacobs

Ross L. Jacobs  
2467 Commerce Blvd.  
Grand Junction, Colorado 81501  
(Address)

March 28, 1980  
(Date)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

DUPLICATE LEASE DESIGNATION AND SERIAL NO. #U-17309

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL OIL WELL [X] GAS WELL [X] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR COLORADO-PACIFIC PETROLEUM CORPORATION (303)629-1564

3. ADDRESS OF OPERATOR 1020-15th Street, Suite 41N, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*) At surface SW-NE Section 1, T21S, R23E 2310' FNL At proposed prod. zone 2319' FEL, 2304' FNL 2310' FWL Dakota and Entrada

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* Approx. 4 1/2 miles North of Cisco, Utah and 55 miles West of Grand Junction, Colorado

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2304'

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 10

18. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. WK 1-14 oil well 1400' from 1650'

19. PROPOSED DEPTH 1650'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4500' GR

22. APPROX. DATE WORK WILL START\* April 20, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Includes rows for 12 1/4" and 7 7/8" hole sizes.

Well will be drilled to test Dakota and Entrada Sand formations for oil or gas. All shows encountered will be tested. The well will be drilled with Rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume through 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 for 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 LANDMAN DATE 4-20-80

PERMIT NO. APPROVAL DATE

APPROVED BY (Orig. Sgd.) R. A. Henricks TITLE FOR E. W. GYNN DISTRICT ENGINEER DATE 4-21-1980

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY \*See Instructions On Reverse Side

FLARING OR BURNING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

NOTICE OF APPROVAL

Production Facilities and Flowline NOT Approved

State Oil & Gas

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL OIL WELL [X] GAS WELL [X] OTHER [ ] SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR COLORADO-PACIFIC PETROLEUM CORPORATION (303)629-1564

3. ADDRESS OF OPERATOR 1020-15th Street, Suite 41N, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface SE NE Section 1, T21S, R23E At proposed prod. zone 2323' EEL, 1111' FNL 960' FEL & 2940' FSL LOCATION CHANGE Dakota and Entrada

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* Approx. 4 1/2 miles North of Cisco, Utah and 55 miles West of Grand Junction, Colorado

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1111'

16. NO. OF ACRES IN LEASE 640

17. NO. OF ACRES ASSIGNED TO THIS WELL 10

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 600' from WK #1-14 oil

19. PROPOSED DEPTH 1650'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) well 4503' GR

22. APPROX. DATE WORK WILL START\* April 15, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Rows include 12 1/4" casing (24 lb., 150' depth, cement to surface) and 7 7/8" casing (10.5 lb., thru pay zone, 150'-200' above uppermost hydrocarbon section).

Well will be drilled to test Dakota and Entrada Sand formations for oil or gas. All shows encountered will be tested. The well will be drilled with Rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated Blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume through 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 for this 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 LANDMAN DATE 4/21/80

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE FOR E. W. GUYNN DISTRICT ENGINEER DATE NOV 10 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

\*See Instructions On Reverse Side

NOTICE OF APPROVAL

Production Facilities and Flowline NOT Approved

State Oil & Gas

4-26-77

Ed Couyat  
ASSISTANT ENGINEER

LETTER OF APRIL 18, 1977

1. WELL NO 12-57

SUBSEQUENT REPORT (9-331)

PLUG & ABANDONMENT - ENCLOSED

RE: WELLS NO 12-55 & 12-57  
LEASE UTM 7629-C

WELLS NO. WK 1-14  
WK 1, WK 3

WK 1-12

LEASE UTM 17309

WK-4)\*  
over for  
details

\* 2. WELL NO WK 1: WE BELIEVE WK #1 IS CAPABLE  
OF PRODUCTION. WE PLAN TO PUT A PIPE TO TEST  
TANK & TEST ITS OWN PRODUCTION. IF THIS NOT  
EFFECTIVE WE PLAN TO USE JACOBS DRILLING  
WORK OVER RIG LUNEN IN THE AREA. ACCORDING  
TO JACOBS THAT WILL BE WITH IN THE NEXT  
TWO MONTHS. WE WILL FAIL OR USE PUMPING  
PRODUCTION. TANK IS SET & WE ARE SIMPLY WAITING  
FOR RIG.

3. WELL NO WK 1-14 FORM 9-330 ENCLOSED  
WELL HAS BEEN PRODUCED SINCE FEB 14-77. REPORTS  
BEING SENT TO USGS CASPER. OIL IS BEING  
COLLECTED IN CASERVE TANK & WILL BE SOLD SHORTLY.

4. WELLS NO 12-55 - PLAN TO DRILL BEFORE YEAR  
END AND HOPEFULLY WHEN JACOBS IS IN AREA  
OF OILCO TO RE ENTER WK 2 IN MAY OR JUNE  
WK-3 - WILL DRILL DEPENDING ON  
RESULTS OF WK #2 REENTRY - WE NEED  
TO DRILL IN ORDER TO TEST ALL QUARTERS  
OF SECTION 1

4. Cont'

WK-3

WK-4

WK 1-13

& WK 1-46

AS STATED WK-3 WILL BE DRILLED NEXT

DEPENDING ON THE TOTAL RESULTS  
OF DRILLING OF WK #3 & PRODUCTION HISTORY  
OF WK #1 WK #2 & WK #1-14. WE WILL  
THEN DETERMINE BETWEEN WK-4 WK 1-13  
OR WK 1-46 - WE BELIEVE OIL IN  
THESE THREE.

PLEASE CONTINUE APPROVAL OF THE UNDRILLED  
WELLS. WE ARE TRYING AT A SLOW RATE  
AS TO LARGE OPERATIONS, BUT WE ARE  
DRILLING.

IF ANY OTHER QUESTIONS PLEASE ADVISE &  
I'LL ANSWER.

NEED YOUR APPROVAL TO ENTER WK #2  
GAS WELL AS STATED IN SUNDAY NOTICE  
DATED 4-4-77

THANK YOU

Robert J. Watt  
Operator 4-26-77



COLORADO - PACIFIC PETROLEUM CORPORATION

1020 15TH STREET  
DENVER, COLORADO 80202  
303-629-1564  
OIL AND GAS EXPLORATION

RECEIVED  
APR 28 1980

April 24, 1980

Utah Division of Oil, Gas  
and Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

DIVISION OF  
OIL, GAS & MINING

Re WK-4, NW NE Section 1,  
WK-3, SW NW Section 1,  
in T21S, R23E, Grand  
County, Utah  
Federal Lease No. U-17309

Gentlemen:

Enclosed please find three copies each of Sundry Notices which we are filing to change the operator for these locations.

Very truly yours,

*Sandra J. Rodriguez*  
Sandra J. Rodriguez  
Secretary

sjr

Encls.

*operator name change will change*



# United States Department of the Interior

IN REPLY REFER TO

3100  
(U-603)

BUREAU OF LAND MANAGEMENT

Moab District  
Grand Resource Area  
P. O. Box M  
Moab, Utah 84532



June 6, 1980

## Memorandum

To: Oil & Gas Office, USGS Conservation Division,  
P.O. Box 1037, Vernal, Utah

From: Acting Area Manager, Grand

Subject: Colorado Pacific Petroleum Corporation  
West Kolman #4 (WK-4), Lease U-17309  
NW/NE Section 1, T. 21 S., R. 23 E., SLB&M  
Grand County, Utah

On May 20, 1980, a representative from this office met with Greg Darlington, USGS, and Karen K. French agents of Colorado Pacific Petroleum Company for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Colorado Pacific Petroleum Company.

Enclosures (2)  
1-Reclamation Procedures  
2-Seed Mixture



*Save Energy and You Serve America!*

## STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

Contact this office at least 24 hours prior to beginning construction of access road and pad.

Stockpile the surface nine inches of topsoil in a wind-row on the northwest quadrant of the location.

The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.

Notify the BLM District Archaeologist if cultural material from sub-surface deposits is exposed during the operation.

The trash pit will be at least six feet by six feet by eight feet deep and fenced with fine mesh wire during drilling operations.

The "blooey" line will be centered and directed into the pit.

If production is obtained, the access road will be upgraded to BLM specifications for long-term roads as outlined in the surface use standards section of the "Oil and Gas" pamphlet (joint BLM, USGS, and USFS publication).

If production is obtained, all production facilities will be painted "desert tan" or a similar color approved by the Grand Resource Area Manager.

Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

Production facilities and pipeline route are approved on this location under lease rights.

As agreed on during on-site field examination -

The unimproved road (10 miles long) between Cisco Mesa County Road and the new access road will be upgraded where needed. Low water crossing(s) will be improved, borrow ditching where needed to control water, berms pulled from both sides of the road, a four inch to six inch center crown maintained to facilitate water drainage.

### New Access Road

Topsoil will be windrowed along the east side of the short road and kept for rehabilitation use.

## RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
  - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
  - a. Lay berms into centers.
  - b. Use cut material for fill areas.
  - c. Lay stockpiled surface soil over top of pads and spread evenly.
  - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
  - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils, scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by the BLM.

* 2%	Grade -	200 ft. intervals
2-4%	Grade -	100 ft. intervals
4-5%	Grade -	75 ft. intervals
5%	Grade -	50 ft. intervals

\* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars will be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (October through mid-December).

<u>SPECIES</u>	<u>LB/ACRE</u>
<u>Grasses</u>	
Oryzopsis hymenoides	1
Hilaria jamesii	1
<u>Forbs</u>	
Sphaeralcea coccini	1
<u>Shrubs</u>	
Artiplex confertifolia	1
Ceretoides lanata	1
	<hr/>
	5

United States Department of the Interior  
Geological Survey  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date June 16, 1980

Operator Colorado Pacific Petroleum Well No. WK-4  
Location 960' FEL 2940' FSL Section 1 Township 21S Range 23E  
County Grand State Utah Field/Unit Cisco  
Lease No. U-17309 Permit No. \_\_\_\_\_

Prepared by: Greg Darlington & Glenn Doyle  
Environmental Scientists

Joint Field Inspection Date: May 20, 1980 and August 27, 1980

Field Inspection Participants, Titles, and Organizations:

<u>Greg Darlington</u>	<u>U. S. Geological Survey, Vernal</u>
<u>Elmer Duncan</u>	<u>Bureau of Land Management, Moab</u>
<u>Karen French, Lyle Bergner</u>	<u>Colorado Pacific</u>
<u>Chip Hopkins</u>	<u>Colorado Pacific Construction</u>
<u>Typing In: 10/15</u>	
<u>Out: 10/16</u>	

Related Environmental Documents:

BLM-Moab, Book Mountain Unit Resource Analysis.

*Admin Compil?  
 Pad 200 x 300  
 Pit 25 x 100  
 1500' x 22' new access  
 Loc  
 10 mi exit road  
 Loc marked  
 Access clear  
 Cond of it improved  
 pg 6 1-4*

## DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location                    State:     Utah  
                                  County:   Grand  
  
          960 ' F E L, 2940 ' F S L, SE ¼ NE ¼  
          Section 1, T21S, R23E, SLM
2. Surface Ownership                    Location:     Public  
    Access Road:   Public

Status of Reclamation Agreements: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

3. Dates                            APD Filed:                            April 23, 1980  
    APD Technically Complete:        May 12, 1980  
    APD Administratively Complete:    *Oct 28, 1980*
4. Project Time Frame                    Starting Date: Upon approval  
    Duration of drilling activities:    10 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:  
None known
6. Nearby pending actions which may affect or be affected by the proposed action:  
None known
7. Status of variance requests:  
None known

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 200' wide x 300' long including a reserve pit 25' x 100' would be constructed. Approximately 1500 feet of new access road, averaging a 16' driving surface, would be constructed from a maintained road. Two (2.0) acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 22'. The presently unimproved, 10-mile long dirt road will be upgraded to a

maintained road (mentioned above) for use as an oil service road for the three existing and six proposed wells in this section.

2. Drilling would be to a depth of 1650'.
3. Waste disposal
4. Traffic
5. Water requirements
6. Completion
7. Production
8. Transportation of hydrocarbons

Details of the proposed action are described in the Application for Permit to Drill.

The location was moved to avoid a historic railroad right-of-way. The access road was changed to avoid infringing on the railroad right-of-way and to provide for more stable access.

#### Environmental Considerations of the Proposed Action:

Regional Setting/Topography - Regional topography is flat desert and rolling hills grading to the talus-flanked Book Cliffs.

#### PARAMETER

##### A. Geology

1. Other Local Mineral Resources to be Protected: Potential for coal to be encountered in Dakota Formation. It is anticipated that the beds are thin and lenticular and therefore subcommercial.

Information Source: Mineral Evaluation Report

2. Hazards:

- a. Land Stability: Location and access built on Mancos Formation. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Application to Drill.

- b. Subsidence: Subsidence can occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

c. Seismicity: The location is in an area of minor seismic risk.

Information Source: RMAG, 1972, "Earthquakes of record and interpreted seismicity 1852-1969" In Geologic Atlas of the Rocky Mountain Region.

d. High Pressure Zones/Blowout Prevention:

Information Source:

## B. Soils

1. Soil Character: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill.

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done.

Information Source: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done.

C. Air Quality - Wellsite lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: Field observation.

D. Noise Levels - Ambient noise levels temporarily elevated. Personnel safety could be jeopardized. Wildlife would avoid area.

Information Source: Field observation.

## E. Water Resources

### 1. Hydrologic Character

a. Surface Waters: Nonperennial drainages are to the north, then east of the location, then southeast to the Colorado River which is about five miles from the location.

Information Source: Application to Drill.

b. Groundwaters: Fresh water not anticipated but may occur in the sandstone units of the Mancos and Dakota Formations.

Information Source: Mineral Evaluation Report

### 2. Water Quality

a. Surface Waters: Drainages in the area are nonperennial. Proper construction of the location as outlined in the APD layout diagram should tend to minimize any hazards to surface water quality.

Information Source: Field observation.

b. Groundwaters: Operator proposes 150' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be unlined.

Information Source: Field observation and Application to Drill.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the Bureau of Land Management comments received from the Moab District Office on June 9, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Consists of shadscale, sagebrush, sparse native grasses, wildflowers, rabbitbrush and various weeds.

Information Source: Field observation.

3. Fauna: Mule deer, antelope, small rodents, small reptiles, and various birds.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis.

G. Land Uses

1. General: Oil and gas operations, recreation, and grazing are major land uses. Amount and quality of land available to livestock, wildlife, and recreationists would be reduced during well life.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: None

Information Source: Field observation.

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well. However, recreationists are not likely to visit this area although many of them may drive past it on I-70.

Information Source: Field observation.

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: Field observation.

J. Cultural Resources Determination: Based on the Bureau of Land Management comments received from the Moab District Office on June 9 and October 15, 1980, we determine that there would be no effect on cultural resources subject to the statement "the archeological requirement has been fulfilled on this location."

Information Source: Bureau of Land Management Stipulations for this well  
(See attachments)

K. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: Field observation.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.0 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems <sup>could</sup> occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

d. The potential for fires, leaks, spills of gas and oil or water exists.

e. During construction and drilling phases of the operation, noise and dust levels would increase.

f. Distractions from aesthetics during the lifetime of the project would exist.

g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to the Colorado River would exist through leaks and spills.

h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

i. Other:

- 1) The pad and access infringe upon a historic railroad right-of-way.
- 2) The reserve pit would be constructed in fill material unless the location is rotated N90°E.

## 2. Conditional approval

a. All adverse impacts described in section one above would occur, except

- 1) By moving the location and access 100' due west, no impacts would occur to the historic railroad right-of-way.
- 2) By rotating the location N90°E, the reserve pit would be placed in native soil, not fill material.

### Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached BLM Stipulations.
3. Move location and access 100' due west.
4. Rotate location N 90°E.

Controversial Issues and Conservation Division Response: None at present.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination

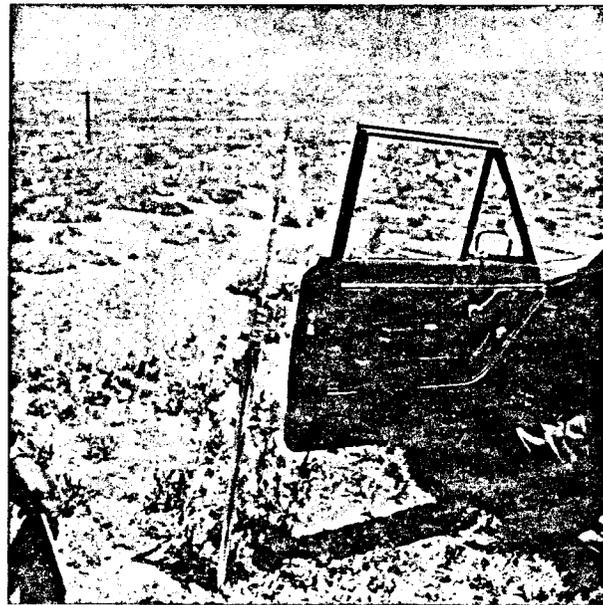
I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).

*E. L. ...*

*10/28/80*

District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil & Gas Operations  
Salt Lake City District

Date



East View of  
WK-4      Sec 1, T21S, R23E  
5/20

ISO 3110-1  
1/70

Serial No.  
U-17309

### STIPULATION

As to lands administered by the Bureau of Land Management under the above oil and gas lease, the lessee hereby agrees that the following stipulations are by this reference incorporated as terms and conditions of said lease:

Before undertaking any exploratory operations involving use of bulldozers, earth-moving, or similar mobile equipment which may result in scarring of public lands, damaging surface resources, or inducing erosion thereon, he or his designee shall submit in writing to the Bureau of Land Management District Manager in the District in which the land is located, advance notice of such operation. Said operations include but are not limited to exploratory drilling, construction of access roads or airstrips, and the conduct of seismic operations.

  
\_\_\_\_\_  
Lessee



COLORADO - PACIFIC PETROLEUM CORPORATION

1020 15TH STREET  
DENVER, COLORADO 80202  
303-629-1564  
OIL AND GAS EXPLORATION

Utah Division of Oil, Gas  
and Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Attention: Bonnie

Re: WK #4  
NW NE Section 1, T21S, R23E  
Grand County, Utah  
Lease No. U-17309

Dear Bonnie,

Enclosed per your instructions are two copies of an Application for Permit to Drill the referenced well. I am sending you two copies of this permit and are requesting that you return one copy to this office, when approved.

Bonnie, if there is any other information we can furnish you to expedite the processing of this Application, please advise.

Very truly yours,

Sandra J. Rodriguez  
Secretary

sjr

Encls.

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

5. Lease Designation and Serial No.  
U-17309

6. If Indian, Allottee or Tribe Name  
N/A

7. Unit Agreement Name  
None

8. Farm or Lease Name  
West Kolman

9. Well No.  
WK 4

10. Field and Pool, or Wildcat  
Greater Cisco Area

11. Sec., T., R., M., or Blk. and Survey or Area  
SE NE Section 1, T21S, R23E

12. County or Parrish 13. State  
Grand Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL  DEEPEN  PLUG BACK

b. Type of Well

Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
COLORADO-PACIFIC PETROLEUM CORPORATION (303)629-1564

3. Address of Operator  
1020-15th Street, Suite 41N, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface SE NE Section 1, T21S, R23E

At proposed prod. zone  
960-860' FEL, 2940' FSL  
Same

LOCATIONAL CHANGE ONLY

14. Distance in miles and direction from nearest town or post office\*  
Approximately 4 1/2 miles North of Cisco, Utah and 55 miles West of Grand Junction, Colorado

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)  
860'

16. No. of acres in lease  
640

17. No. of acres assigned to this well  
10

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
1485'

19. Proposed depth  
1650'

20. Rotary or cable tools  
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
4485' GR

22. Approx. date work will start\*  
September 1, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	8 5/8"	24#	150'	Cement to surface
7 7/8"	4 1/2"	10.5#	Thru pay zone	150-200' above upper-most hydrocarbon section

Well will be drilled to test Dakota and Entrada Sand formation for oil or gas. All shows encountered will be tested. The well will be drilled with rotary tools, using air for circulation. The surface casing will be set at about 150' and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing, and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line and roughly checked for volume through 2" line after the pipe rams have been closed. A prognosis for the well is attached.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
DATE: 8-6-80  
BY: W.J. Minder

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: Elaine Johnson Title: LANDMAN Date: July 25, 1980  
ELAINE JOHNSON

Permit No. .... Approval Date .....

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



NTL-6 13 POINT REPORT

SURFACE USE PROGRAM

1. A LEGIBLE MAP SHOWING EXISTING ROADS (SEE EXHIBIT 1)

- A. PROPOSED WELL SITE LOCATION AS STAKED (STAKING TO INCLUDE TWO (2) EACH 200-FOOT DIRECTIONAL REFERENCE STAKES):

Location has been staked under the direction of a registered land surveyor. The well site location is:

WK-4; SE NE Section 1, T21S, R23E

Grand County, Utah, Lease No. U-17309  
County, State

- B. PLANNED ACCESS ROAD (ROUTE AND DISTANCE FROM NEAREST TOWN OR LOCATABLE REFERENCE POINT TO WHERE WELL ACCESS ROUTE LEAVES THE MAIN ROAD): Take the East Cisco Exit to the NW for 0.4 miles. At this point there exists a sign to the wellsite. Proceed South for approximately 3 miles at which point a new road travels to the SE for 1320' to our WK 4 drillsite.

- C. ACCESS ROAD(S) TO LOCATION COLOR-CODED OR LABELED:

Access roads are labeled on Exhibit 1.

- D. IF EXPLORATION WELL, ALL EXISTING ROADS WITHIN A 3 MILE RADIUM (TYPE OF SURFACE, CONDITIONS, ETC.):

Existing roads within 3 miles of the site are shown on Exhibit 1. Unimproved roads near the well are shown in yellow.

- E. IF DEVELOPMENT WELL, ALL EXISTING ROADS WITHIN A 1 MILE RADIUM OF WELL SITE:

This well is a wildcat.

- F. PLANS FOR IMPROVEMENT AND/OR MAINTENANCE OF EXISTING ROADS:

Existing roads will be maintained for vehicle traffic.

continued...

2. MAP SHOWING ALL NECESSARY OR PLANNED ACCESS ROADS TO BE CONSTRUCTED OR RECONSTRUCTED (SEE EXHIBIT 1):

- A. WIDTH: The average width of the road will be 16' with maximum of 18'.
- B. MAXIMUM GRADES: The maximum grade will be 10% or less
- C. TURNOUTS: See Exhibit 1.
- D. DRAINAGE DESIGN: None needed.
  
- E. LOCATION AND SIZE OF CULVERTS AND BRIEF DESCRIPTION OF ANY MAJOR CUTS AND FILLS: See Exhibit 2 for cut and fill diagram.
- F. SURFACING MATERIAL: None is needed.
- G. NECESSARY GATES, CATTLEGUARDS, OR FENCE CUTS: None.
- H. NEW OR RECONSTRUCTED ROADS ARE TO BE CENTER-LINE FLAGGED AT THE TIME OF LOCATION STAKING: All new roads are flagged.

3. LOCATION OF EXISTING WELLS (SEE EXHIBIT 1):

A two mile radius map, if exploratory, or a one mile radius map, if development well, showing and identifying existing 1) WATER WELLS, 2) ADANDONED WELLS, 3) TEMPORARY ABANDONED WELLS, 4) DISPOSAL WELLS, 5) DRILLING WELLS, 6) PRODUCING WELLS, 7) SHUT-IN WELLS, 8) INJECTION WELLS, and 9) MONITORING OR OBSERVATION WELLS FOR OTHER RESOURCES is attached.

The proposed well is a wildcat.  
See Exhibit 1.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. Within one mile radius of location showing the following existing facilities owned or controlled by lessee/operator: 1) TANK BATTERIES, 2) PRODUCTION FACILITIES, 3) OIL GATHERING LINES, 4) GAS GATHERING LINES, 5) INJECTION LINES, 6) DISPOSAL LINES.
- B. NEW FACILITIES IN THE EVENT OF PRODUCTION:

Christmas tree for production of gas will be installed at the wellhead; separators or heater-treaters will be set on gravel pads.

continued...

1. DIMENSIONS OF FACILITIES:

All producing facilities will be inside a 200' X 300' area around the well. See Plat 3.

2. CONSTRUCTION METHODS AND MATERIALS:

Location will be level for production equipment. Separators and/or heater-treaters will be placed on gravel pads.

3. PROTECTIVE MEASURES TO PROTECT LIVESTOCK & WILDLIFE:

All open pits will be fenced with woven wire (sheep) fence (40") and pump jacks or rotating machinery will have guards to prevent danger by moving parts.

C. REHABILITATION OF DISTURBED AREAS UNNECESSARY FOR PRODUCTION:

Following completion of construction, these areas required for continued production will be graded to provide drainage and minimize erosion. The area unnecessary for use will be totally rehabilitated to original and undisturbed natural condition by grading to blend with the surrounding topography. Any disturbed topsoil will be replaced on those areas and seeded according to BLM recommendations.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. WATER TRANSPORTATION SYSTEM:

Cisco Springs (natural flow) located in Sec. 9 of T20S, R23E. The water will be hauled from the spring to the wellsite by company truck along the Cisco Mesa Rd. and then along the unimproved road described above.

B. WATER WELLS:

None

6. SOURCE OF CONSTRUCTION MATERIALS:

A. MATERIALS:

Construction materials will consist of soil encountered within the boundaries of the proposed site. Topsoil, if present on the site, will be stripped to a depth of six inches and stockpiled in an area not to be disturbed by continuing construction. A small volume of sand and gravel may be used.

continued...

B. LAND OWNERSHIP

The planned site and access road lies on Federal land administered by the Bureau of Land Management.

C. MATERIALS FOREIGN TO SITE:

Sand and gravel, if any should be required, will be obtained from private land. If so, it will be used in a small quantity for tank or heater-treater base material.

D. ACCESS ROADS.

7. METHODS FOR HANDLING WASTE DISPOSAL:

A. CUTTINGS:

Cuttings will be contained in the reserve pit.

B. DRILLING FLUIDS:

Drilling fluids, if any, will be retained in the reserve pit.

C. PRODUCED FLUIDS: No substantial production of water is expected. The small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Previous to cleanup operations, the hydrocarbon material will be skimmed or burned as the situation dictates.

D. SEWAGE:

Chemical Toilet moved on location during operations.

E. GARBAGE:

A burn pit will be constructed and fenced with small mesh wire. The small amount of refuse will be burned. That portion which does not burn will be buried upon completion, allowing for 5 feet of cover.

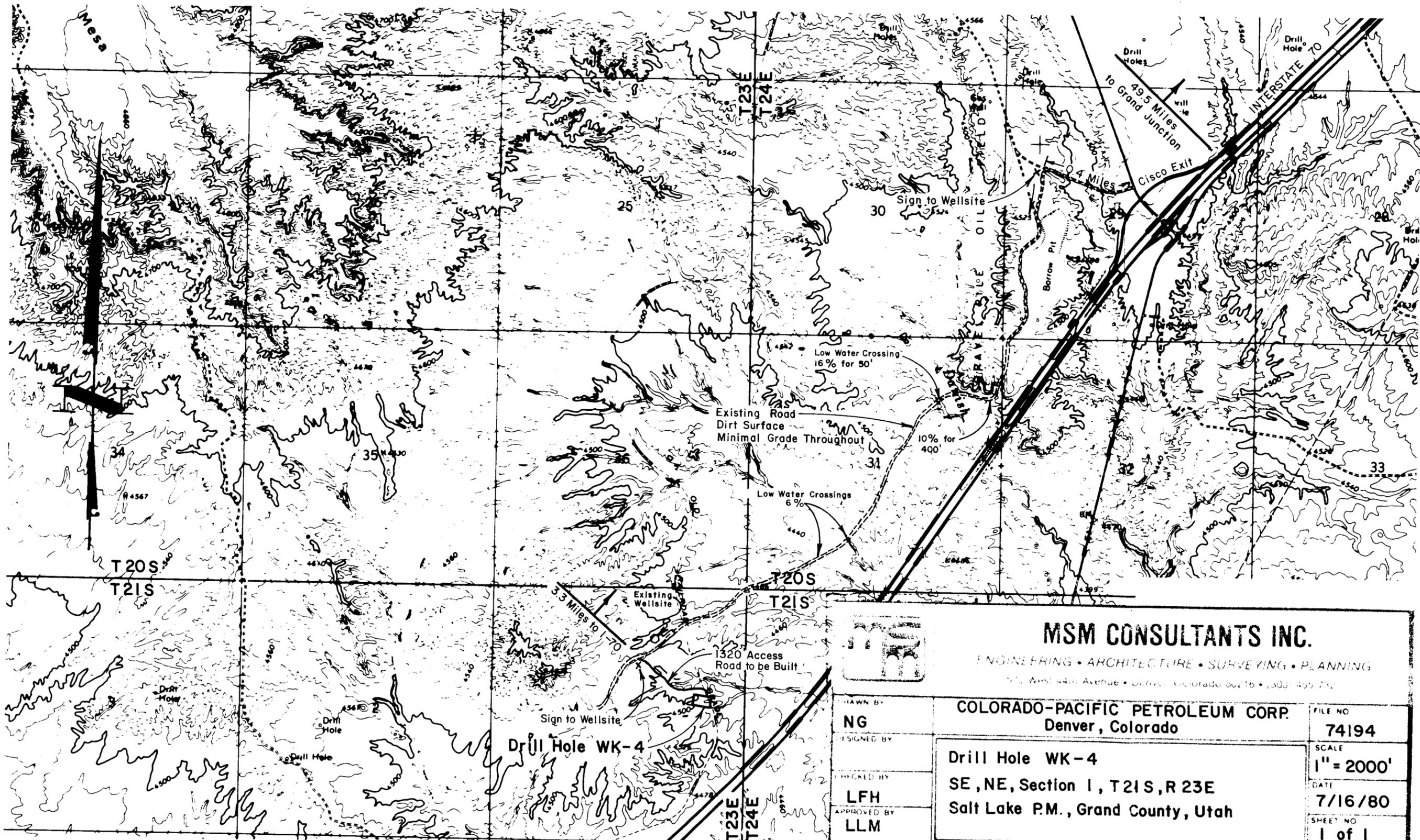
F. CLEAN-UP OF WELL SITE:

The "mouse" hole and "rat" hole will be fenced or covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Clean-up will be performed prior to final restoration of the site.

8. ANCILLARY FACILITIES:

None required.

continued...



**MSM CONSULTANTS INC.**

ENGINEERING • ARCHITECTURE • SURVEYING • PLANNING  
 1715 West 44th Avenue • Denver, Colorado 80215 • (303) 455-7111

DRAWN BY <b>NG</b>	<b>COLORADO-PACIFIC PETROLEUM CORP.</b> Denver, Colorado	FILE NO <b>74194</b>
DESIGNED BY	<b>Drill Hole WK-4</b> <b>SE, NE, Section 1, T21S, R 23E</b> <b>Salt Lake P.M., Grand County, Utah</b>	SCALE <b>1" = 2000'</b>
CHECKED BY <b>LFH</b>		DATE <b>7/16/80</b>
APPROVED BY <b>LLM</b>		SHEET NO <b>1 of 1</b>



WELL CONTROL EQUIPMENT FOR

WELL NO. WK #4  
SE NE SECTION 1, T21S, R23E  
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 12 1/4".
- B. Setting depth for surface casing is approximately 150 ft.
- C. Casing specs. are: 8 5/8" O.D., K-55, 24#, 8rd thread, R-3 new or used.
- D. Anticipated pressure at setting depth is approximately 3600 lbs.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented 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#, Series 600; Cameron, OCT, or equivalent; new or used; equipped with 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 Preventers:

- 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 backup; set on top of casing head flange and securely bolted down and pressure tested for leaks up to 2000# P.S.I.

B.O.P. will be tested for leaks at 2000# P.S.I. prior to drilling below surface casing.

- B. Rotating head: Shaffer, Grants or equivalent; set on top of blowout preventer and bolted securely; complete with kelly drive, pressure lubricator; 3½ or 4" rubber for 2000# W.P.
- C. Fill and kill lines: The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected through the 2" valves on the casing head and through 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 and Entrada formations at depths of 800' to 1200' in the area have been measured at about 300# maximum. No toxic gases have ever been encountered in the area and none 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 7 7/8".
- B. Approximate setting depth will be about 1650'.
- C. Casing specs. are: 4½" O.D., K-55, 9.5#, 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 150'-200' above the top of the uppermost hydrocarbon section. 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.

NTL-6 ENVIRONMENTAL STATEMENT

10 POINT REPORT

OPERATOR: COLORADO-PACIFIC PETROLEUM CORPORATION  
1020 15th Street, Suite 41N  
Denver, CO 80202

LEASE & WELL NAME: Cisco Springs #WK-4 Lease #U-17309  
LOCATION : SE NE Section 1, T21S, R23E  
COUNTY & STATE : Grand County, Utah

TO: The United States Geological Survey (USGS) and the  
Bureau of Land Management (BLM)

The following information, maps, plats, and descriptions  
of various surface characteristics should fulfill the  
requirements of the various agencies as to the environmental  
commitment of the operator at the above named well site.

GEOLOGIC NAME OF THE SURFACE FORMATION

MANCOS SH

ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

MANCOS SH	Surface to 800'
DAKOTA	800'
CEDAR MTN.	900'
BRUSHY BASIN	950'
SALT WASH	985'
MORRISON	1115'

ESTIMATED DEPTHS AT WHICH ANTICIPATED WATER, OIL, GAS OR OTHER  
MINERAL-BEARING FORMATION ARE EXPECTED TO BE ENCOUNTERED

Oil and gas are potentially productive out of all of the zones  
listed in the section above and the production from each zone  
may be expected at the depth shown.

PROPOSED CASING PROGRAM

150' of 8 5/8", 24 lb., Grade 40# casing. Cemented with 75 sacks  
cement with 3% CaCl, with returns to surface. The surface hole  
will be drilled to 150' K.B. and be no more than 1° deviation.

If good production (over 750 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' above the top of the Dakota  
formation. The production zone will be perforated, 2 3/8" O.D.  
tubing run, and completed conventionally.

## PRESSURE CONTROL EQUIPMENT WITH SCHEMATIC DIAGRAM

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 bleed line at least 125' long will then be attached to the rotating head and extended into the reserve pit. B.O.P. will be tested to 2000 lbs. before drilling below surface casing.

## CIRCULATING MEDIUMS, QUANTITIES AND TYPE OF MUD AND WEIGHTING MATERIAL

A 7 7/8" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at 500' and below. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir. No toxic gases have been encountered in this area and none are expected.

## AUXILIARY EQUIPMENT

The kelly cock will be on the kelly, a float sub and float immediately above the bit and a sub with the DP threads and a full opening valve (capable of being stabbed into the drill string) will be on the floor at all times.

## TESTING, LOGGING AND CORING PROGRAMS

If a high gas flow (several million cubic feet) and/or when the total depth of this 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 laterolog 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. There will be no cores taken on this well.

## ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES OR POTENTIAL HAZARDS

No abnormal pressures are expected and no toxic gases have previously been encountered in this area and none are expected.

## ANTICIPATED STARTING DATE AND DURATION

This well is one of a group of six wells which will be commenced as soon as permits are issued, and all six will be drilled in sequence with the same rig. It is anticipated that the drilling of each well will require approximately 10 days.

9. WELL SITE LAYOUT.

A. CROSS-SECTION OF DRILL PAD:

See Plat #3, Proposed Rig Layout.

B. LOCATION OF BURN, TRASH, AND RESERVE PITS, SOIL MATERIAL STOCKPILES, ACCESS ROADS, MUD TANKS, PIPE RACKS, LIVING FACILITIES:

See Plat #3.

C. RIG ORIENTATION AND LAYOUT:

See Plat #3.

D. LINING OF PITS:

No liners are planned.

10. PLANS FOR RESTORATION OF SURFACE UPON COMPLETION OF OPERATION:

A. BACKFILLING, LEVELING, CONTOURING, AND WASTE DISPOSAL: SEGREGATION OF SPOILS MATERIALS AS NEEDED:

Site will be cleaned; debris removed or buried in pits; pits will be folded-in or fenced with woven wire until reclaimed. All unused portions will be contoured, graded, seeded with seed mix acceptable to BLM and scarified.

B. REVEGETATION AND REHABILITATION - INCLUDING ACCESS ROADS:

Site will be seeded with a seed mixture suggested by BLM for drilling, or scarified with a dozer or spike-tooth drag. The access road, when no longer needed, will be contoured, seeded and scarified as above except where it existed prior to operator's entry into the area.

C. PRIOR TO RIG RELEASE, PITS WILL BE FENCED AND SO MAINTAINED UNTIL CLEAN-UP:

The reserve pit will be fenced on three sides during operations, and the fourth side will be fenced after rig is moved out.

D. OIL ON PIT:

None anticipated; however, in that event, oil on pit will be removed by vacuum pump prior to pit backfill operations.

continued...



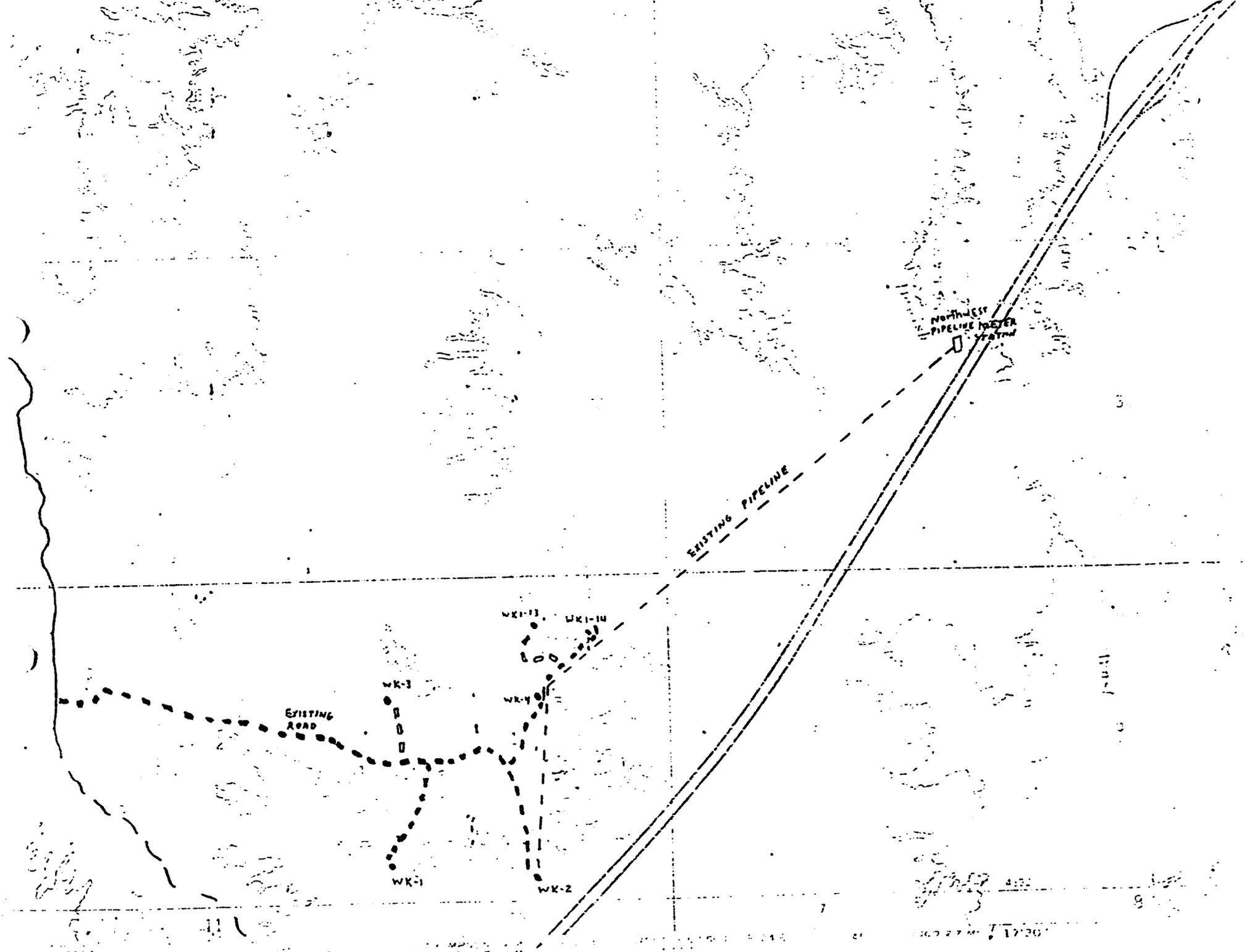
Lyle Bergner  
640 1/2 Broken Spoke Road  
Grand Junction, Colorado 81501

Home: (303) 245-8541  
Mobile Rig Phone: (303) 245-3660, Extension 437  
Mobile Phone: (303) 245-3660, Extension 293

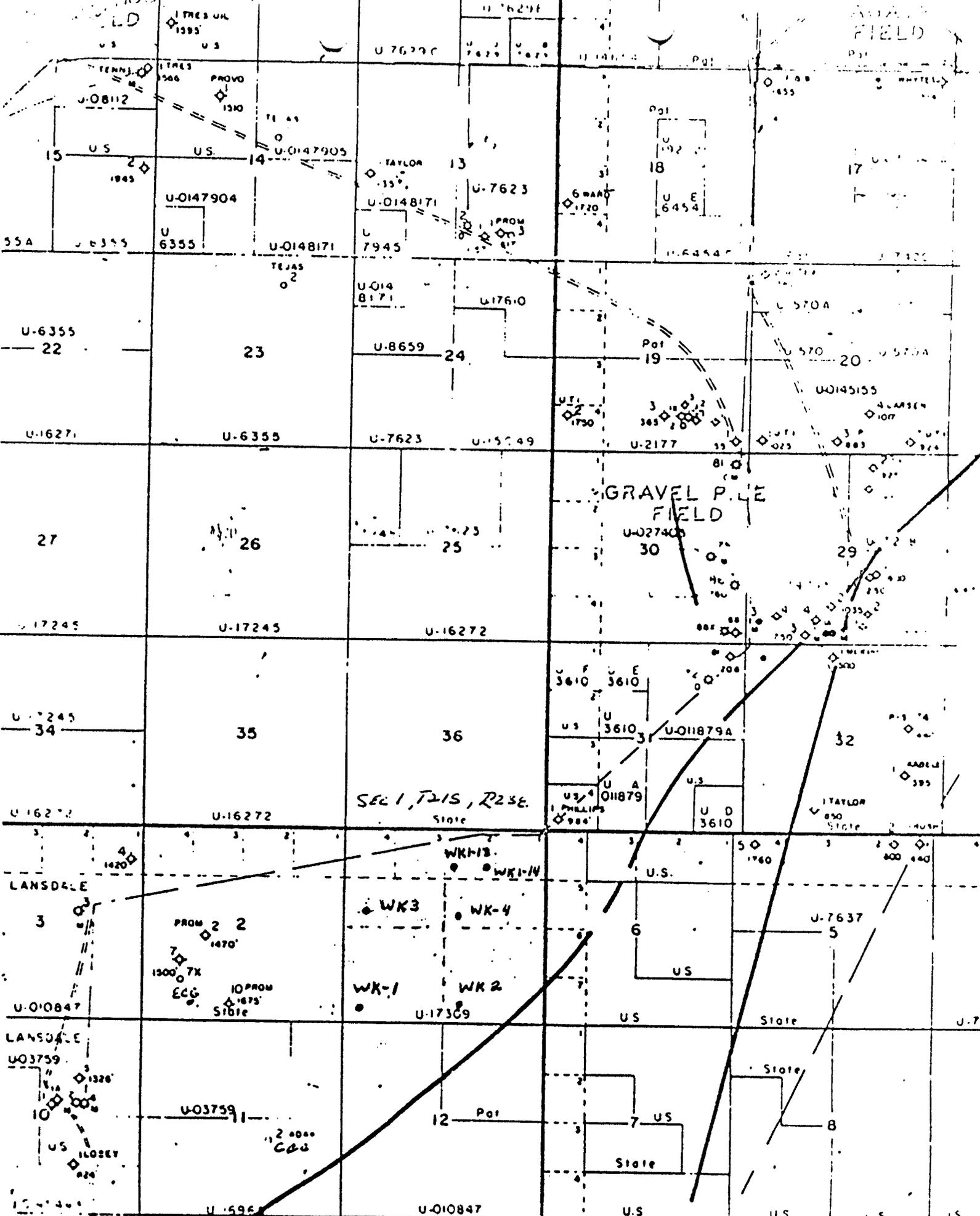
13. CERTIFICATION:

I hereby certify that 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 associated with the operations proposed herein will be performed by the COLORADO-PACIFIC PETROLEUM CORPORATION and its constructors and sub-constructors in conformity with this plan and the terms and conditions under which it is approved.

  
\_\_\_\_\_  
ELAINE JOHNSON



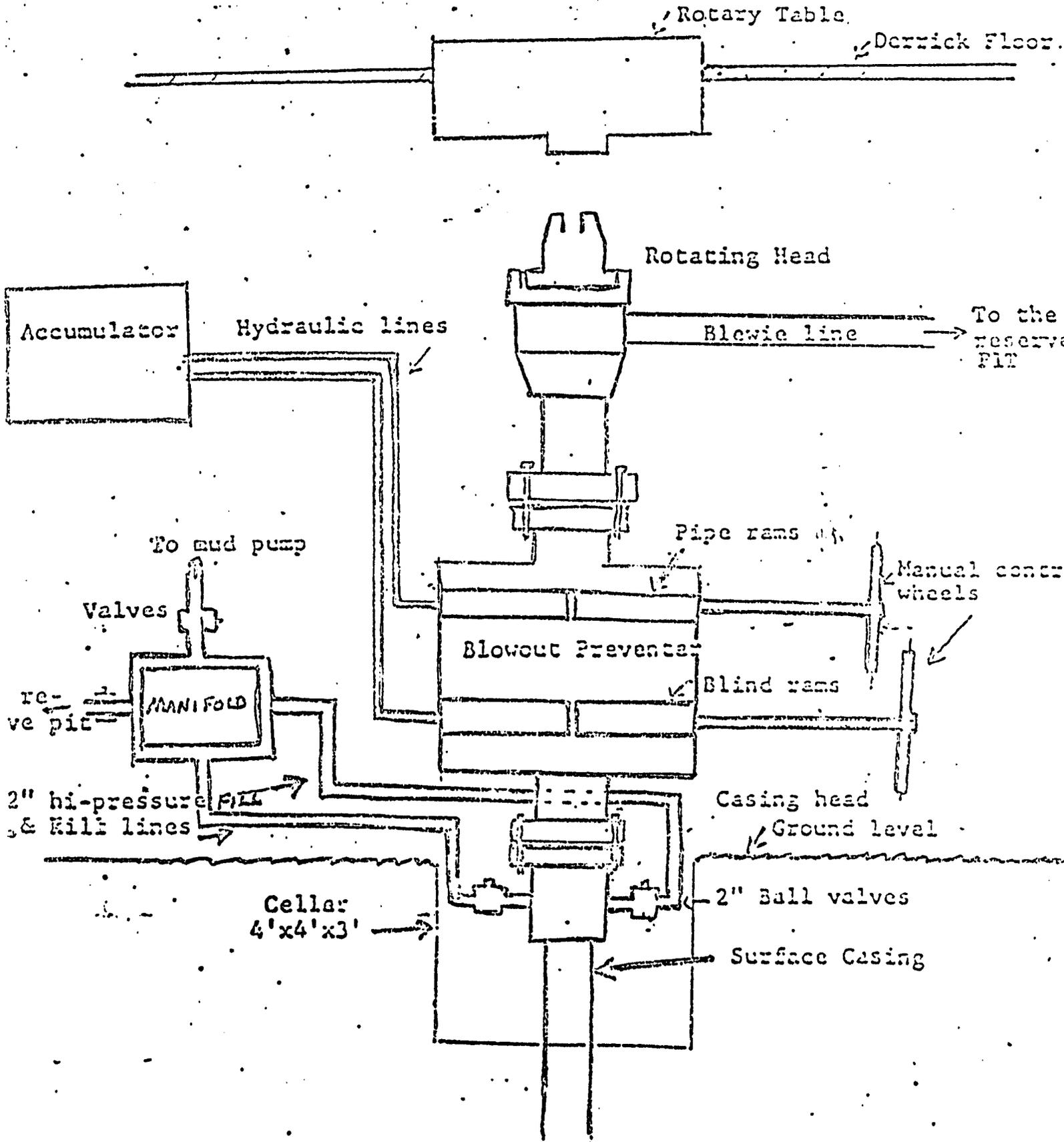
MAP NO. 1



MAP NO. 2

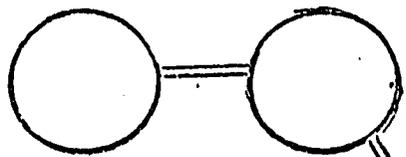
SCHEMATIC DIAGRAM OF CONTROL  
EQUIPMENT FOR THE #WK-4,  
SE NE Section 1, T21S, R23E,  
GRAND COUNTY, UTAH

U-17309





210 BARREL TANKS  
FOR OIL WELL



ACCESS ROAD

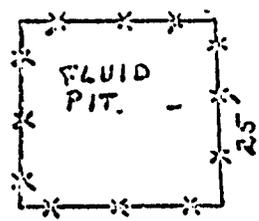
WELL  
HEAD

2" LINE  
100'

D-6  
PUMP JACK

2" LINE  
125'

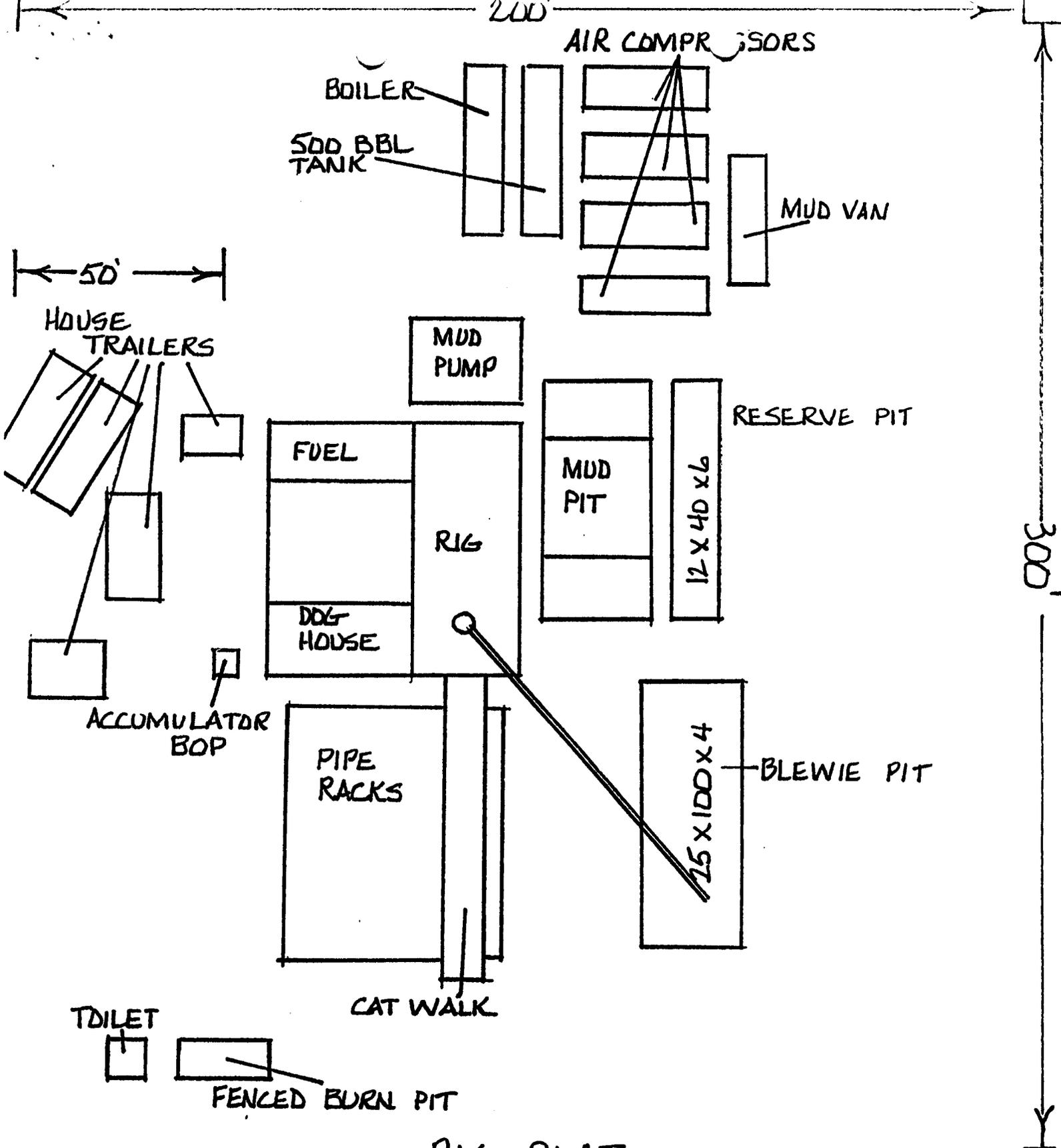
OIL HEATER-TREATER  
OR  
GAS DEHYDRATOR



FLUID  
PIT.  
WOVEN WIRE  
FENCE

SCALE: 1 IN = 30 FT.

PLAT NO. 2



RIG PLAT  
 COLDRADD-PACIFIC  
 TOOLS

PLAT NO. 3

\*\* FILE NOTATIONS \*\*

DATE: Aug 6, 1980  
OPERATOR: Colorado - Pacific Petro Corp  
WELL NO: # WR 4  
Location: Sec. 1 T. 21S R. 23E County: Grand

File Prepared:  Entered on N.I.D:   
Card Indexed:  Completion Sheet:

API Number 43-019-30420

CHECKED BY:

Petroleum Engineer: M. J. Menden 8-6-80  
Approved as location change for old well.

Director: \_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: \_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3   
Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site

Lease Designation  Plotted on Map

Approval Letter Written

Hot Line  P.I.



# United States Department of the Interior

IN REPLY REFER TO

3100  
(U-603)

BUREAU OF LAND MANAGEMENT  
Moab District  
Grand Resource Area  
P. O. Box M  
Moab, Utah 84532

October 7, 1980

Memorandum

To: Oil & Gas Office, USGS Conservation Division,  
P.O. Box 3768, Grand Jct., CO 81501

From: Area Manager, Grand

Subject: Colorado-Pacific Petroleum Corporation  
West Kolman (WK-4), Lease U-17309  
SE/NE Section 1, T. 21 S., R. 23 E.  
Grand County, Utah

On August 27, 1980, a representative from this office met with Glen Doyle, USGS, and Jim Lucas agent of Colorado-Pacific Petroleum Corporation for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Colorado-Pacific Petroleum Corporation.

*Gregg R. Dawson*  
ACTING

OCT 15 1980

These stipulations are an addendum to the June 6, 1980 stipulations, due to Utah State well spacing requirements.

1. New location by Sundry Notice was to be 1,529 feet east, 1,467 feet south from the original location. During the pre-drill field examination, the company agreed to move the well 100 feet northwest from the above location.
2. Rig layout will be turned 90 degrees to put the blooie pit in solid earth in the northwest corner of the location. The pit will be 100 feet long by 25 feet wide by 8 feet deep.
3. Top soils from the new access road will be windrowed along the west side. Access will be at the northeast corner of the location.
4. Top soils from the well pad 9 inches will be windrowed along the northeast corner of the location.
5. A trash cage will be used on location and trash will be hauled to a sanitary landfill.

October 29, 1980

Colorado-Pacific Petroleum Corp.  
1020-15th Street, Suite #41N,  
Denver, Colo. 80202

RE: **Well No. West Kolman WK#4**  
**Sec. 1, T. 21S, R. 23E,**  
**Grand County, Utah**  
Well No. West Kolman WK#1-13  
Sec. 1, T. 21S, R. 23E,  
Grand County, Utah

Dear Sirs:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well (these wells) and action will be taken to terminate the application.) If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

Division of Oil, Gas, and Mining



Debbie Beauregard  
Clerk-Typist



**COLORADO - PACIFIC PETROLEUM CORPORATION**

1020 15TH STREET  
DENVER, COLORADO 80202  
303-629-1564  
OIL AND GAS EXPLORATION

November 6, 1980

**RECEIVED**

NOV 10 1980

State of Utah  
Division of Oil, Gas and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

DIVISION OF  
OIL, GAS & MINING

Attention: Debbie Beauregard

Re: Well No. West Kolman WK#8  
Sec. 1, T21S, R23E  
Grand County, Utah  

---

Well No. West Kolman WK #1-13  
Section 1, T21S, R23E  
Grand County, Utah

Dear Ms. Beauregard:

We have not drilled the locations in Section 1, T21S, R23E, Grand County, Utah, as we have not received all of the approved permits from the USGS to drill in this Section.

Please keep these applications on an active status.

We will give you advance notification of spudding.

Very truly yours,

Elaine Johnson  
Landman

EJ:sjr

# National Cementers Corporation

P. O. Box 2370  
GRAND JUNCTION, COLORADO 81502

INVOICE  
No 2835

Home Office - Grand Junction, Colo.  
Phone (303) 243-4358

Field Operations  
Grants, New Mexico - Phone (505) 287-4596  
Aztec, New Mexico - Phone (505) 334-9491

DATE OF JOB 11 March, 1981

TO Colorado Pacific  
1020 15TH ST  
Denver, CO 80202

DATE 17 March 1981

*LK 4*

DATE	DESCRIPTION	AMOUNT
3-11-81	Field Receipt #2982	\$2,398.07
	4.75% Sales Tax	<u>113.91</u>

\$2,511.98

PAID IN FULL

The services, materials, products and supplies provided for in this order shall be subject to the terms and conditions appearing on the front and reverse sides of the customer copy hereof and no additional terms and conditions shall apply to this order without the consent of an authorized representative of National Cementers Corporation.

PLEASE PAY FROM THIS INVOICE - NO OTHER STATEMENT WILL BE RENDERED

# National Cementers Corporation

P.O. Box 2370, Grand Junction, Colorado 81502  
(303) 243-4350

## FIELD RECEIPT

No 2982

CUSTOMER <b>Colorado Pacific</b>		DATE SERVICE PERFORMED <b>3-11-81</b>	
MAIL INVOICE TO:		CITY	STATE
STATION <b>Grand Junction</b>		SERVICE SUPERVISOR <b>Ken Burdine</b>	JOB NUMBER
WELL NAME AND NUMBER <b>WKA 4</b>		LOCATION (FIELD, CITY, POOL, SECTION) <b>Cisco</b>	
COUNTY <b>Grand</b>	STATE <b>UTAH</b>	PURCHASE ORDER NUMBER	CUSTOMER REPRESENTATIVE (PRINT) <b>CARY RAMSAY</b>

UNITS	CODE	DESCRIPTION	UNIT PRICE	AMOUNT
1	9-001-030	Pump Trk Service Chg		90.00
75	9-200-100	Pump Trk Mileage Chg 75		150.00
150	m-010-100	Class B Cement	1.75	262.50
150	m-600-600	Material Blending Chg	.80	111.00
151.25	m-700-750	Material Mileage Chg 75	.73	110.38
		Sub		2398.07
		Utah Tax @ 5%		113.91
		Total		2511.98
		Plugs		
		60sa 900-700		
		60sa 300-100		
		105# Top		

JOB TYPE <b>ITA</b>	WELL TYPE <b>oil</b>	APPROVED BY <b>Bob H. [Signature]</b>
		PUMP TRUCK NUMBER <b>11007</b>

Time left Station	3-11	09:00
Time on Location	3-11	11:00
Time Start Job	3-11	9:00
Time Stop Job	3-11	3:00
Arrive Station/Location	3-11	11:00

By signing this receipt, customer acknowledges that he has read, is familiar with and accepts all terms and conditions of sale in current price book and on the reverse side of this field receipt.

x **[Signature]**

December 23, 1981

Colorado Pacific Petroleum Corp.  
1020 15th Street. Suite #41N.  
Denver, Colorado 80202

Re: Well No. West Kolman Wk #4  
Sec. 1, T. 21S, R. 23E  
Grand County, Utah

Gentlemen:

Approval to drill the above mentioned well, which was granted ~~in our letter of~~  
in our letter of August 6, 1980, is hereby terminated for failure  
to spud ~~in~~ within a reasonable period of time.

If and when you should decide to drill this well, it will be  
necessary for you to again obtain the approval of this Division.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

*Clem F. Braught*  
Clem F Braught  
District Typist



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 2, 1982

Colorado Pacific Petroleum Corporation  
1020 15th Street, Suite 41-N  
Denver, Colorado 80202

Re: Well No. Wk #4  
Sec. 1, T. 21S, R. 23E.  
Grand County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR

COLORADO-PACIFIC PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

1020 15th St., Ste. 41-N, Denver, Co.

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: SENE- 960' FEL, 2940' FSL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:  
TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
PULL OR ALTER CASING   
MULTIPLE COMPLETE   
CHANGE ZONES   
ABANDON\*   
(other)

SUBSEQUENT REPORT OF:

**RECEIVED**  
APR 19 1982

DIVISION OF  
OIL, GAS & MINING

5. LEASE <u>U-17309</u>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>N/A</u>	
7. UNIT AGREEMENT NAME <u>N/A</u>	
8. FARM OR LEASE NAME <u>West Kolman</u>	
9. WELL NO. <u>WK-4</u>	
10. FIELD OR WILDCAT NAME <u>Greater Cisco</u>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 1: 21-S, 23-E</u>	
12. COUNTY OR PARISH <u>GRAND</u>	13. STATE <u>UTAH</u>
14. API NO.	
15. ELEVATIONS (SHOW DF, KDB, AND WD)	

NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Plugs set at:	<u>900'-700'</u>	<u>60 sacks</u>
	<u>300'-100'</u>	<u>60 sacks</u>
	<u>Surface</u>	<u>10 sacks</u>

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED [Signature] TITLE Landman DATE 1/8/82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 18, 1982

~~Colorado Pacific Petroleum Corporation  
1020 15th Street, Suite 41-N  
Denver, Colorado 80202~~

*These people are no longer operators.  
Please send all notices to  
R. J. JACOBS OIL & GAS CO.  
2467 COMMERCIAL BLD.  
GRAND JCT, CO. 81501*

Re: Well No. Wk #4  
Sec. 1, T. 21 S, R. 23 E.  
Grand County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

\*\*If we do not hear from your office within fourteen days, this file will be turned over to the Attorney at the Division of Oil, Gas and Mining for legal action.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

*Cari Furse*

Cari Furse  
Clerk Typist

**RECEIVED**

DEC 02 1982

DIVISION OF  
OIL, GAS & MINING

*Sent Form 9-331 11/30/82*

CF/cf  
Enclosure

*See attached  
note: I have reviewed all the files on this well and there is no completion report. The well was plugged as per attached. If you need more info. please let me know.*

RECEIVED NOV 22 1982

*Sen Collins*

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck  
Robert R. Norman • Margaret R. Bird • Herm Olsen

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STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 9, 1982

R. L. Jacobs Oil & Gas Co.  
Att: Len Collins  
2467 Commerce Blvd.  
Grand Junction, Colorado 81501

Re: Well No. Wk #4  
Sec. 1, T. 21S, R. 23E.  
Grand County, Utah

Dear Mr. Collins,

In reference to receiving your answer to my inquiry of November 18 (enclosed). I do need more information. The Well Completion form that I have enclosed is the only form that we accept to complete our files in that manner. Could you please fill out the proper form (enclosed- OGM-3 WELL COMPLETION REPORTS ON WELLS) and return it to me promptly.

Thank you for your cooperation.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

SUBMIT IN DUPLICATE\*

STATE OF UTAH

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

U-17309

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

WK-4

10. FIELD AND POOL, OR WILDCAT

GREATER CISCO

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SEC. 1, T 21 S, R 23 E

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

R.L. JACOBS OIL AND GAS COMPANY

3. ADDRESS OF OPERATOR

2467 Commerce Blvd. GRAND JCT., CO. 81501

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

At surface  
960' FEL 2940' FSL  
At top prod. interval reported below

At total depth

14. PERMIT NO. 30268 DATE ISSUED  
43-019-30420

15. DATE SPUNDED

2-24-81

16. DATE T.D. REACHED

3-10-81

17. DATE COMPL. (Ready to prod.)

NA

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

900

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

NONE

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

NO.

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
NONE					

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION 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)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. 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

35. LIST OF ATTACHMENTS

NONE

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

SIGNED L. Collins TITLE CONTROLLER DATE 12-15-82

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



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

January 8, 1991

MEMO TO FILE: WK 1-13, API # 43 019 30420, T21S R23E Sec 1, Grand County  
WK # 4, API # 43 019 30268, T21S R23E Sec 1, Grand County

FROM: Vicky Carney

RE: Adjusting API Numbers

The above two files have been confused for quite some time. There is evidence at one time that they were thought to be the same well. They were each assigned an API # but over a period of time, the API #'s have been transposed. I checked with the API list and will put the above API #'s on the card file, well file, and computer as they should have been from the beginning.

WE122/25