



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

January 24, 1983

Overland Oil & Gas Corporation
3539 E. 30th Street, Suite 108
Farmington, NM 87401

ATTENTION: Ralph Abbott

RE: Administrative Application for
Conversion of Well No. 5, Sec-
tion 4, T-30N, R-17W, NMPM,
San Juan County, NM to an Injec-
tion Well

Dear Sir:

Your application for King Kong Well No. 5 (K-4-30N-17W) for conversion from a producing well to an injection well cannot be processed by administrative approval until all the information as required by Form C-108 is submitted.

The following specific information is requested:

1. Submit the information required by Items III to VIII of Form C-108.
2. Submit a detailed work over summary of converting the King Kong Well No. 5 from a producer to a injection well.
3. Submit documentation that demonstrates that the Bureau of Indian Affairs instructed you to convert Well No. 5 from a producer to an injection well in the manner you have outlined.
4. What is the location of Clark Kent No. 1 Well and is the chemical analysis of produced water from the Dakota formation?
5. Does the 2 3/8" tubing have a protective coating?
6. The pressure of 750 pounds for well No. 5 is too high. The OCD only allows 0.20 psi per foot of depth for pressure determination limits. Refer to the enclosed OCD Memo for further explanation. The OCD will allow you 215 pounds psi maximum inject pressure, (1064' x 0.20 psi/ft of depth = 212.80 pounds = 215 psi). In order to substantiate a request for increased injection pressures above the 0.20 psi/ft of depth rule, a step-rate test must be run.

I have enclosed examples of other applications which might help you with the content and format of Form C-108.

If you have any questions concerning this matter, do not hesitate to call me at (505) 827-5822.

Sincerely,

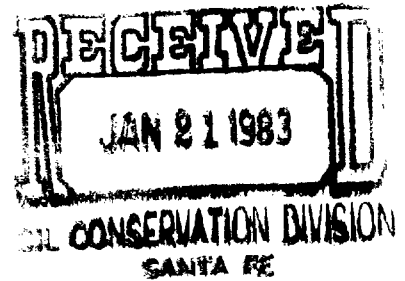
A handwritten signature in cursive script that reads "Oscar A. Simpson III". The signature is written in dark ink and is positioned above the typed name.

Oscar A. Simpson, III
Water Resource Specialist

OAS/dp

Enc.

OVERLAND OIL & GAS CORP.
3539 E. 30th St. Suite 108,
Farmington, New Mexico 87401



January 15, 1983

Re: King Kong # 5 K-4-30N-17W

Oil & Gas Commission
1000 Rio Brazos Rd.
Aztec, New Mexico

Dear Sir:

We converted this oil well to a water injection well.
We will inject 40 to 80 barrels of Salk Creek Dakota
formation water back into the same formation.

The maximum injection pressure will be 750 psi. We have
cemented 2 3/8" EUE tubing in 4 1/2" casing from top
to bottom.

I certify that Overland Oil & Gas owns & operates all
wells with in a two mile radius

I certify that BIA has been notified and the U.S.G.S.
has given their approval.

I am attaching a copy of the U.S.G.S. approval, dated Dec.
26, 1982.

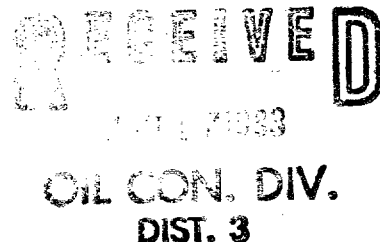
Thank you

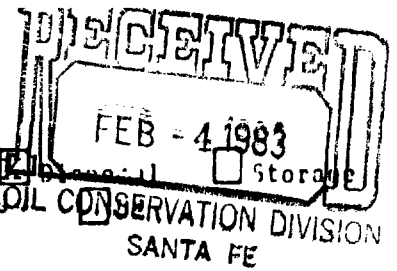
A handwritten signature in cursive script that reads "Ralph Abbott".

Ralph Abbott
President
Overland Oil & Gas Corp.

CC/ file, U.S.G.S.

RA/ka





APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. Operator: Overland Oil & Gas Corp.
Address: 3539 E. 30th Suite 108 Farmington, New Mexico
Contact party: Ralph Abbott Phone: 325-4681 or 325-0180.
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification
- I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- Name: Ralph Abbott Title: Owner operator
Signature: *Ralph Abbott* Date: 1-15-83
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

INJECTION WELL DATA SHEET

OVERLAND OIL & GAS INC.

King Kong

OPERATOR

LEASE

5

1830 FSL & 430 FWL Sec. 4 T-30N, R-17W.

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

SchematicTubular DataSurface CasingSize 7 " Cemented with 2 sx.TOC Surface feet determined by circulatedHole size 8 3/4"Intermediate CasingSize None " Cemented with _____ sx.

TOC _____ feet determined by _____

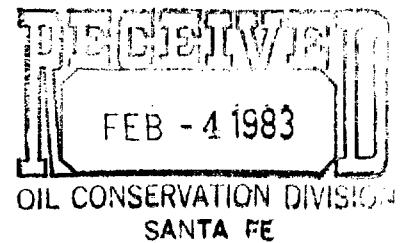
Hole size _____

Long stringSize 4 1/2 " Cemented with 65 sx.TOC Surface feet determined by circulatedHole size 5 5/8"Total depth 1064Injection intervalOpen hole 1064 feet to 1078 feet
(perforated or open-hole, indicate which)Tubing size 2 3/8" lined with none set in a
(material)Cemented from top to bottom packer at _____ feet.
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Salt Creek Dakota
2. Name of Field or Pool (if applicable) Salk Creek Dakota
3. Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producer
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Unknown



OVERLAND OIL & GAS CORP.
3539 E. 30th St. Suite 108
Farmington, New Mexico 87401

New Mexico Oil Commission
P.O. Box 2088
Santa, Fe, New Mexico 87501

RE: King King well # 5
Surface owner approval

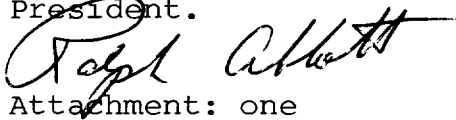
Dear Sir:

Pleased be advised we are attaching an approved copy form #9-331 C. This form has to be approved by the BIA which have legal right for the surface in this area. The Department of the Interior has approved and met all requirements.

I contacted the B.I.A. and was told that all requirements had been approved.

Thank you.

Ralph Abbott
OVERLAND OIL & GAS CORP
President.


Attachment: one

CC/ file
RA/ka

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OIL CONSERVATION DIVISION

SUBMIT IN TRIPPLICATE*

(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-B1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-639
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
2. NAME OF OPERATOR Overland Oil & Gas Corp		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 3539 E 30th St Suite 108 Farmington, New Mex 87401		8. FARM OR LEASE NAME King Kong
4. LOCATION OF WELL (Report location clearly and in accordance with instructions on reverse side) At surface 1830' FSL 430' FWL At proposed prod. zone		9. WELL NO. 5
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 4 miles northeast of Shiprock, N. M.		10. FIELD AND POOL, OR WILDCAT Salt Creek Dakota
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 165'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 4-30N-17W
16. NO. OF ACRES IN LEASE 640		12. COUNTY OR PARISH San Juan
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE N. Mex.
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 248'		19. PROPOSED DEPTH 1078
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* N.A.
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5071 G.L.		
23. PROPOSED CASING AND CEMENTING PROGRAM		

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	20.50#	10'	2 SX
5 5/8"	4 1/2"	9.50#	1064'	65 SX
4 1/2"	2 3/8"	2.90#	1064'	200 SX

We intend to convert this oil well to a water injection well. We cemented 2 3/8" tubing in 4 1/2" casing top to bottom. The maximum pressure will be 750 psi which is the top rate on the injection pump. We have a pressure gauge-at the discharge. We will monitor this daily when injection pump is running. We will inject from 40 barrels to 80 barrels a day. The water will be injected in the Salt Creek Dakota from 1065' to 1078' open hole, this water will come out of the Salt Creek Dakota. The total depth of well is 1078'. Attached is a water analysis. Attached is a map with roads and wells. Attached is a certified location plat. Attached is a topo map.

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 Repl Abbott TITLE Operator DATE _____

(This space for Federal or State office use)

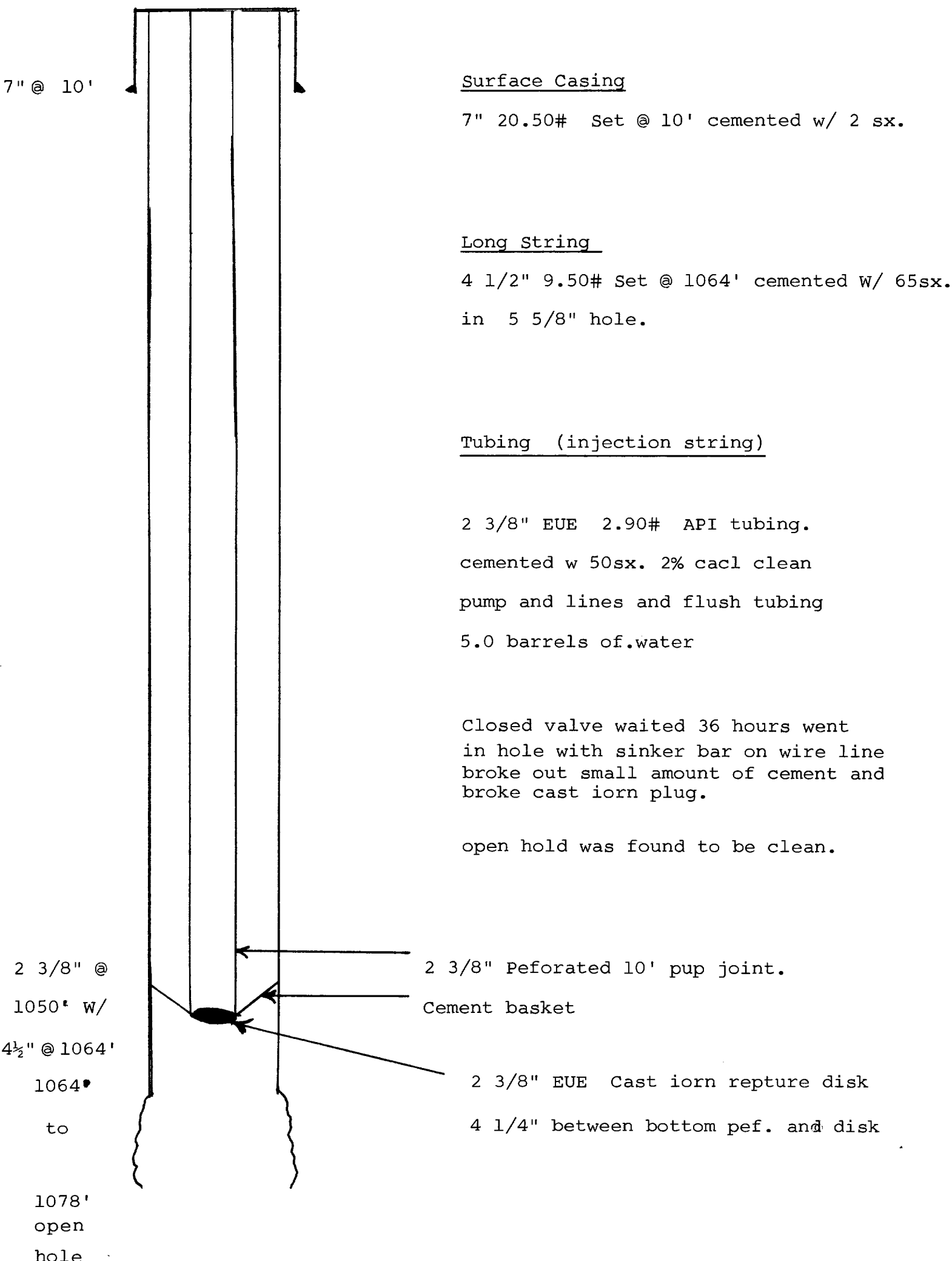
PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY James F. Sims TITLE _____ DATE _____CONDITIONS OF APPROVAL, IF ANY
JAMES F. SIMS
DISTRICT ENGINEER

OPERATOR

III

Overland Oil & Gas King Kong Well # 5 1830 FSL & 430 FWL.
Section 4, T-30N, R-17W, San Juan County. New Mexico



V

Map.

CLARK KENT

5

PA
PA
PA

PA
PA

PA KING

KOW
15
14

PA

4

8 9

CK2
LK4

KK
IX
5
KX20

WATER INJECTION
WELL

PA

PA

PA
PA



VI.

WELLS WITHIN AREA OF REVIEW (1/2 mile radius)

OPERATOR: OVERLAND OIL & GAS CORPORATION.

LEASE NAME: Clark Kent WELL NO. :1

FIELD NAME Salt Creek

LOCATION OF WELL : Unit Letter I, 1880' FSL & 165' FEL
Sec. 5, T-30N, R-17W, San Juan County, New Mexico

Type of Lease: B.I.A. Navajo Tribal

WELL STATUE: Pumping oil well

PRODUCING FORMATION: Salt Creek Dakota

SPUD DATE: 3-10-69

COMPLETION DATE: 3-20-69

TOTAL DEPTH: 1065'

PLUG BACK T.D. 1054'

CASING RECORD:

<u>SIZE</u>	<u>WT.</u>	<u>DEPTH</u>	<u>CEMENT & TOP OF CEMENT</u>
7"	20	100	20 sx.
4 1/2"	9.50	1054	150 sx

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER DEPTH</u>
2 3/8"	1062	None

STIMULATION AND TREATMENT

Natural

I.P. TEST:

Date

Production

No information

VI.

WELLS WITHIN AREA OF REVIEW (1/2 mile radius)

OPERATOR: OVERLAND OIL & GAS CORPORATION.

LEASE NAME: Clark Kent WELL NO. : 4

FIELD NAME Salt Creek

LOCATION OF WELL : Unit Letter I, 1650 FSL 330'FEL
Sec.5, T-30N, R-17W, San Juan County, New Mexico

Type of Lease: B.I.A. Navajo Tribal

WELL STATUE: Pumping oil well

PRODUCING FORMATION: Salt Creek Dakota

SPUD DATE: 3-20-68 COMPLETION DATE: 3-23-68

TOTAL DEPTH: 1095 PLUG BACK T.D. 1069

CASING RECORD:

<u>SIZE</u>	<u>WT.</u>	<u>DEPTH</u>	<u>CEMENT & TOP OF CEMENT</u>
7"	20#	59	20 sx.
4 1/2"	9.50#	1095	100 sx.

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER DEPTH</u>
2 3/8"	1050	none

STIMULATION AND TREATMENT

Natural

I.P. TEST:

<u>Date</u>	<u>Production</u>
3-24-68	24 hour, Flowed 3 bbl oil & 1 bbl water.

VI.

WELLS WITHIN AREA OF REVIEW (1/2 mile radius)

OPERATOR: OVERLAND OIL & GAS CORPORATION.

LEASE NAME: King Kong WELL NO. : 20

FIELD NAME Salt Creek

LOCATION OF WELL : Unit Letter L, 1650' FSL 330' FWL
Sec.4, T-30N, R-17W, San Juan County, New Mexico

Type of Lease: B.I.A. Navajo Tribal

WELL STATUE: Pumping oil well

PRODUCING FORMATION: Salt Creek Dakota

SPUD DATE: Sept 10, 1959 COMPLETION DATE: Sept. 20, 1959

TOTAL DEPTH: 1070 PLUG BACK T.D. 1070

CASING RECORD:

<u>SIZE</u>	<u>WT.</u>	<u>DEPTH</u>	<u>CEMENT & TOP OF CEMENT</u>
7"	20#	60'	20 Sacks
4 1/2"	9.5#	1064	70 Sacks

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER DEPTH</u>
2 3/8"	1060	none

STIMULATION AND TREATMENT

Natural

I.P. TEST:

<u>Date</u>	<u>Production</u>
9-28-59	Flowing 24 hours 58 bbls oil & 2 bbls of water

VI.

WELLS WITHIN AREA OF REVIEW (1/2 mile radius)

OPERATOR: OVERLAND OIL & GAS CORPORATION.

LEASE NAME: King Kong WELL NO. : 1-X

FIELD NAME Salt Creek Dakota

LOCATION OF WELL : Unit Letter L 1800'FSL 182'FWL
Sec.4, T-30N, R-17W, San Juan County, New Mexico

Type of Lease: B.I.A. Navajo Tribal

WELL STATUE: Pumping oil well

PRODUCING FORMATION: Salt Creek Dakota

SPUD DATE: 1-16-68

COMPLETION DATE: 1-20-68

TOTAL DEPTH: 1077

PLUG BACK T.D. 1077

CASING RECORD:

<u>SIZE</u>	<u>WT.</u>	<u>DEPTH</u>	<u>CEMENT & TOP OF CEMENT</u>
7"	20#	10'	2 sacks Surface
4 1/2"	9.50#	1052'	65 sacks unknown

TUBING RECORD:

<u>SIZE</u>	<u>DEPTH</u>	<u>PACKER DEPTH</u>
2 3/8"	1076'	None

STIMULATION AND TREATMENT

Well came in natural

I.P. TEST:

<u>Date</u>	<u>Production</u>
1-21-68 24 hours	98 bbls of oil and 2 bbls of Water (flowing)

VII.

PROPOSED OPERATION

Overland Oil & Gas Corporation peoposes to utilize this injection well to dispose of water produced from our Clark Kent Lease wells #1 and #4 and our King Kong Lease wells #1x and #5. Present water production from both leases is approximately 80 bbls per day Maximum volume would be 160 bbls per day. Maximum rate will be 1 bbl per minute. Maximum pressure will be 215# psi. This proposal is to reinject water produced from the Salk Creek Dakota formation back into the Salt Creek Dakota formation.

VIII.

GEOLOGICAL DATA

The injection zone in this proposed well is the Salt Creek Dakota formation which is a very clean sand. The gross thickness of the injection zone is 14 feet which is the Dakota sand.

The Mancos formation is on the surface in this area. There is no known fresh water source or water which could be used for drinking, from the surface to the Dakota.

There are no water well within a one mile radius of the proposed injection well.


IX

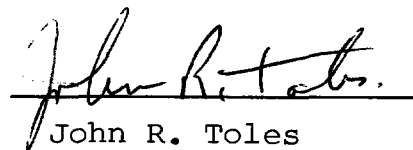
PROPOSED STIMULATION

The Salt Creek Dakota is a clean sand formation and we feel that there isn't any reason to stimulate the well. The well produced oil and water and the formation is in good condition. The only additional stimulation would be to drop some acid sticks occassionaly.

XII.

Overland Oil & Gas Corporation personell have examined available records and field and drilling reports and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water. In fact there is no other source of water in the area.


Ralph Abbott
Operator & Management


John R. Toles
Production & Exploration

XI

ANALYSIS # 4Q-9
THE WESTERN COMPANY
LABORATORY SERVICES
P.O. DRAWER 360
FARMINGTON, N.M.

DIRECT ANY QUESTIONS TO:
CLAY TERRY
DISTRICT ENGINEER
505-327-6222

WATER ANALYSIS

OPERATOR OVERLAND OIL & GAS CORP. DATE SAMPLED 10-20-82
WELL Clark Kent #1 DATE RECEIVED 10-21-82
FIELD Slick Rock Dakota SUBMITTED BY Ralph Abbott
FORMATION Dakota WORKED BY Clay Terry
DEPTH 1065 SAMPLE DESCRIPTION _____
COUNTY San Juan _____
STATE New Mexico _____

PHYSICAL DETERMINATIONS

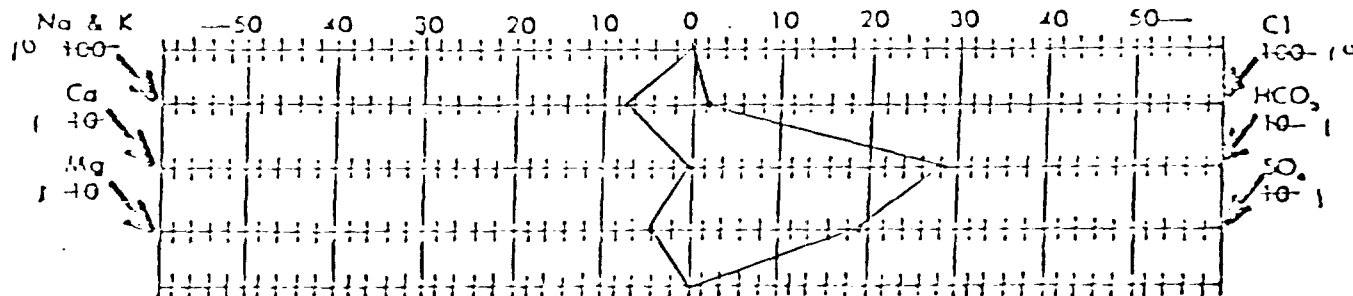
SPECIFIC GRAVITY 1.002 AT 75 °F TOTAL DISSOLVED SOLIDS 5049 ppm
pH 9.0 RESISTIVITY (Ohm-meters) 1.6 Ω -M

CHEMICAL DETERMINATIONS

IRON -0- PHOSPHATE _____
HYDROGEN SULFIDE -0- SULFATE 950 ppm
TOTAL HARDNESS 200 ppm BICARBONATE 1747 ppm
CALCIUM -0- ppm CHLORIDE 778 ppm
MAGNESIUM 49 ppm SODIUM & POTASSIUM Na^+ 1521, K^+ 4 ppm

COMMENTS:

for Stiff type plot (in meq./l.)



Analyst

Clay Terry, District Engineer

AFFIDAVIT OF PUBLICATION

No. 12635

STATE OF NEW MEXICO,
County of San Juan:

Margaret Billingsley being duly

sworn, says: That he is the SEC. TO THE PUBLISHER of

THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation

published in English at Farmington, said county and state, and that the

hereto attached Legal Notice

was published in a regular and entire issue of the said FARMINGTON DAILY

TIMES, a daily newspaper duly qualified for the purpose within the

meaning of Chapter 167 of the 1937 Session Laws of the State of New

Mexico for One XXXXX (days) XXV on the same day as

follows:

First Publication Sunday, January 30, 1983

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefor in the amount of \$ 6.47

has been made.

Margaret Billingsley

Subscribed and sworn to before me this 31st day

of January, 1983.

Laura Whitson
NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires: 3-31-85

Copy of Publication

NOTICE
Overland Oil & Gas Corp., intends to convert the King Kong well No. 3 into a water disposal well, in order to dispose of water produced from the Salt Creek Dakota formation in adjacent wells. Location is 1830' F3, 2-430' F4, Section 4 Township 36 North, Range 1 West San Juan County, New Mexico.
The injection interval is in the Salt Creek Dakota formation into open hole from 1064' to 1078'. The maximum anticipated injection rate is 3 BPM at 2.5 psi. Maximum volume is 250 BPD.
Interested parties must file objections or requests for hearing with the Conservation Division P.O. Box 2000 Santa Fe, New Mexico 87501, within 15 days.
Legal No. 12635 published in the Farmington Daily Times Farmington, New Mexico on Sunday, January 30, 1983.

NOTICE
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Interested parties must file objections or requests for hearing with the Conservation Division P.O. Box 2000 Santa Fe, New Mexico 87501, within 15 days.
Legal No. 12635 published in the Farmington Daily Times Farmington, New Mexico on Sunday, January 30, 1983.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FEB - 4 1983
Form C-1102
Superseded by C-128
Effective 1-1-65
OIL CONSERVATION DIVISION

All distances must be from the outer boundaries of the Section

SANTA FE
Well No.

Operator KING KONG Thomas A. Dugan		Lease King Kong		Well No. 5	
Unit Lotter L	Section 4	Township 30 North	Range 17 West	County San Juan	
Actual Footage Location of Well: 1830 feet from the South line and 430 feet from the West line					
Ground Level Elev. 5071 Est.	Producing Formation Dakota	Pool Salt Creek	Dedicated Acreage: 40 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

RECEIVED

DEC 17 1982

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

RECEIVED

FEB 29 1983

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Sec. 4

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original signed by T. A. Dugan

Name

Thomas A. Dugan

Position

Engineer

Company

Thomas A. Dugan

Date

2/29/83

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

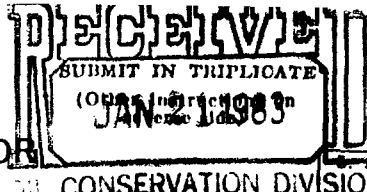
Date Surveyed

February 21, 1968

Registered Professional Engineer and/or Land Surveyor

E. H. E. [Signature]
Certificate No. 3602

0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYForm approved.
Budget Bureau No. 42-R1425.

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

Overland Oil & Gas Corp

3. ADDRESS OF OPERATOR

3539 E 30th St Suite 108 Farmington, New Mex 87401

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

At surface

At proposed prod. zone

1830' FSL 430' FWL

DEC 17 1982

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

4 miles northeast of Shiprock, N. M.

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest dirg. unit line, if any)

165'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

248'

19. PROPOSED DEPTH

1078

20. ROTARY OR CABLE TOOLS

Rotary

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

5071 G.L.

22. APPROX. DATE WORK WILL START*

N.A.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	20.50#	10'	2 SX
5 5/8"	4 1/2"	9.50#	1064'	65 SX
4 1/2"	2 3/8"	2.90#	1064'	200 SX

We intend to convert this oil well to a water injection well. We cemented 2 3/8" tubing in 4 1/2" casing top to bottom. The maximum pressure will be 750 psi which is the top rate on the injection pump. We have a pressure gauge at the discharge. We will monitor this daily when injection pump is running. We will inject from 40 barrels to 80 barrels a day. The water will be injected in the Salt Creek Dakota from 1065' to 1078' open hole, this water will come out of the Salt Creek Dakota. The total depth of well is 1078'. Attached is a water analysis. Attached is a map with roads and wells. Attached is a certified location plat. Attached is a topo map.

Must receive NMOC approval to inject

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 prevention program, if any.

24. SIGNATURE

Reph Abbott

TITLE Operator

DATE

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL IF ANY
DEC 22 1982
JAMES F. SIMS
DISTRICT ENGINEER

OPERATOR

DIRECT ANY QUESTIONS TO:
CLAY TERRY
DISTRICT ENGINEER
505-327-6222

ANALYSIS # 40-9
THE WESTERN COMPANY
LABORATORY SERVICES
P.O. DRAWER 360
FARMINGTON, N.M.

WATER ANALYSIS

OPERATOR OVERLAND OIL & GAS CORP. DATE SAMPLED 10-20-82
WELL Clark Kent #1 DATE RECEIVED 10-21-82
FIELD Slick Rock Dakota SUBMITTED BY Ralph Abbott
FORMATION Dakota WORKED BY Clay Terry
DEPTH 1065 SAMPLE DESCRIPTION _____
COUNTY San Juan _____
STATE New Mexico _____

PHYSICAL DETERMINATIONS

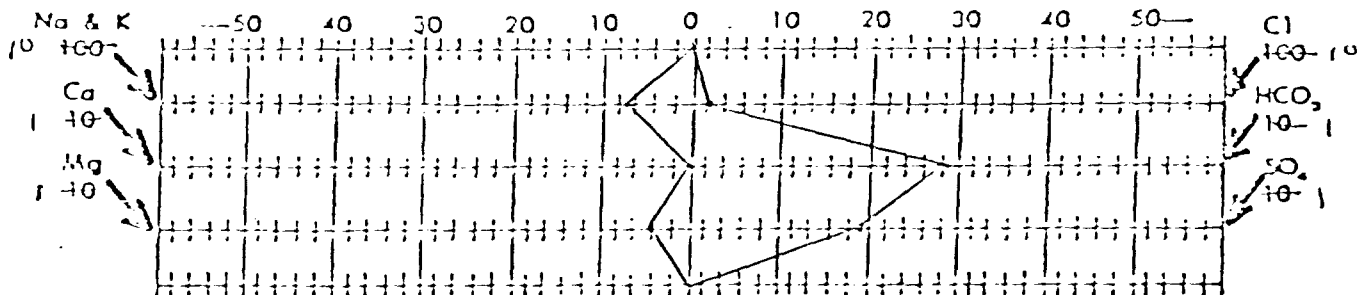
SPECIFIC GRAVITY 1.002 AT 75 °F TOTAL DISSOLVED SOLIDS 5049 ppm
pH 9.0 RESISTIVITY (Ohm-meters) 1.6 N-M

CHEMICAL DETERMINATIONS

IRON -0- PHOSPHATE _____
HYDROGEN SULFIDE -0- SULFATE 950 ppm
TOTAL HARDNESS 200 ppm BICARBONATE 1747 ppm
CALCIUM -0- ppm CHLORIDE 778 ppm
MAGNESIUM 49 ppm SODIUM & POTASSIUM Na⁺ 1521, K⁺ 4 ppm

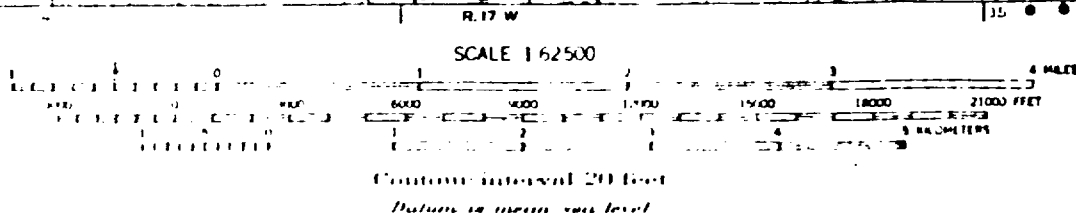
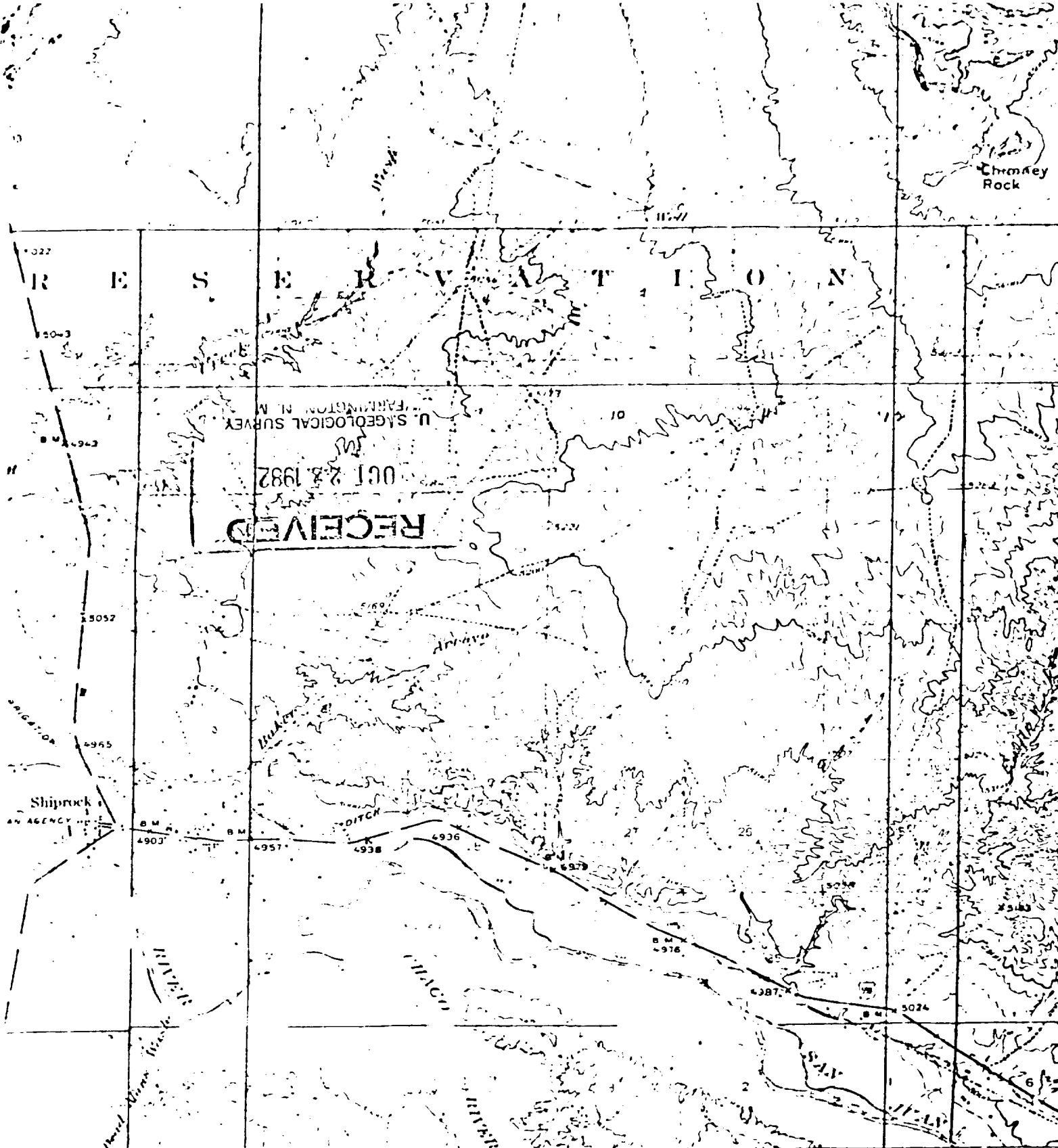
COMMENTS:

for Stiff type plot (in meq./l.)

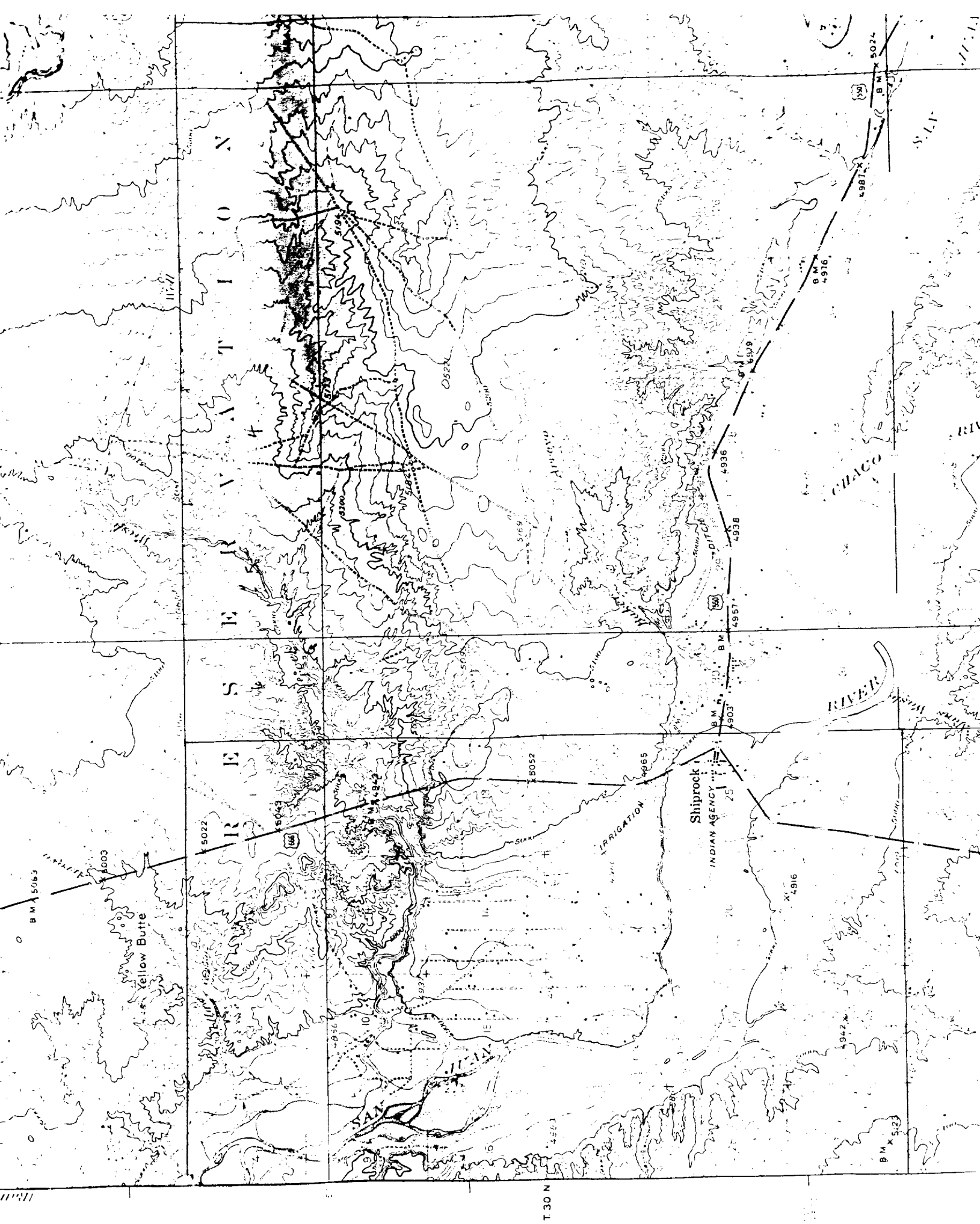


Analyst

Clay Terry, District Engineer



FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

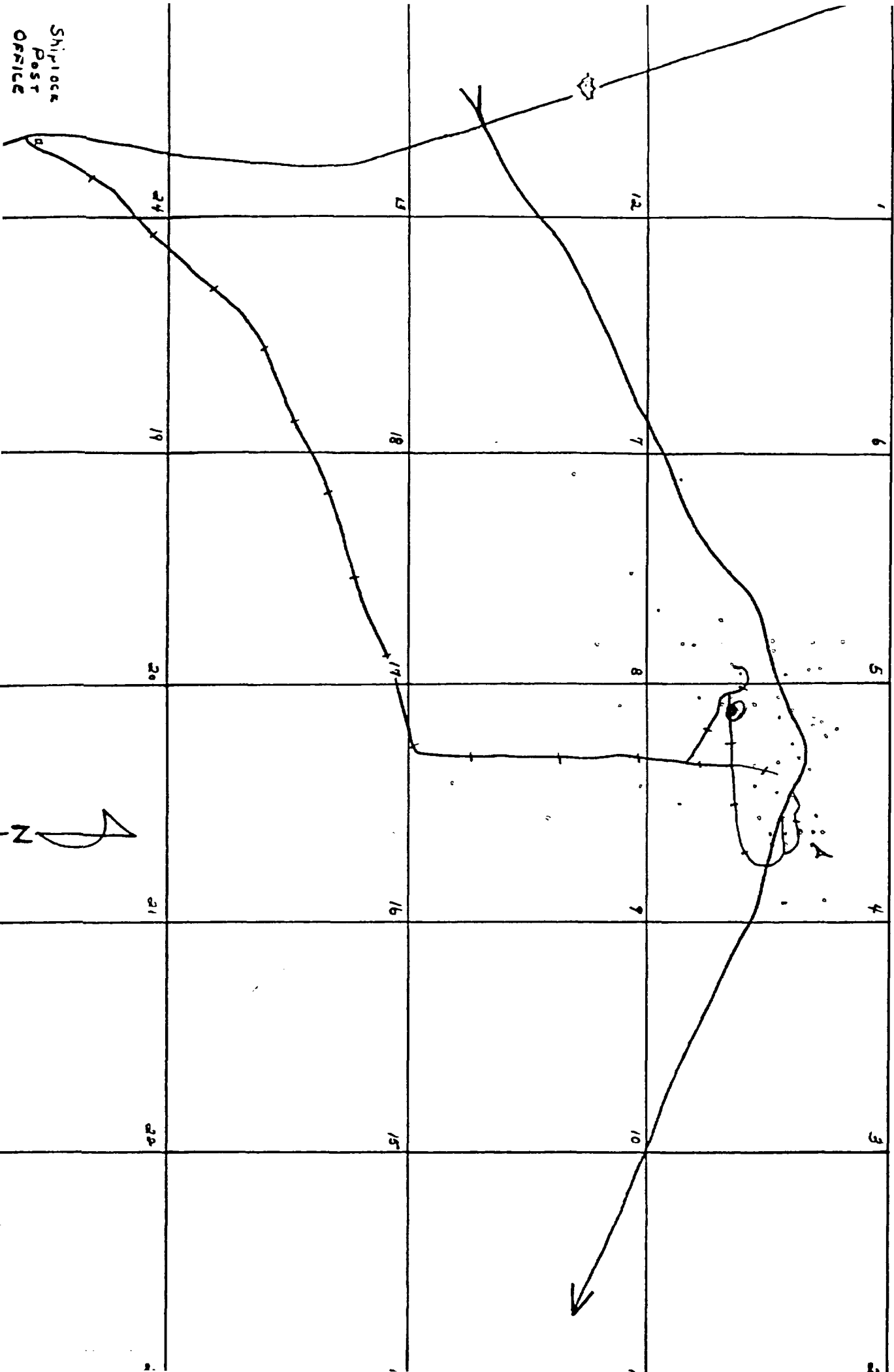


SURFACE ENVIRONMENT RELATIVE TO DRILLING SITE

T30N-R18W

T30N-R17W

- MAIN HIGHWAY
- REFERENCE POINT
- EXISTING ACCESS
- DRILLING LOCATION
- RAVINE



Shirlock
Post
Office

Post Office Box 234
Zip Code 87401

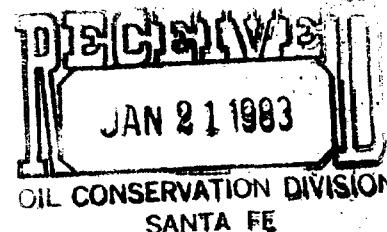
DUGAN PRODUCTION CORP.

THOMAS A. DUGAN, President

709 BLOOMFIELD Rd.
FARMINGTON, NEW MEXICO
March 22, 1968

TELEPHONE: 325-9184 Office
325-5694 Home

Area Code 505



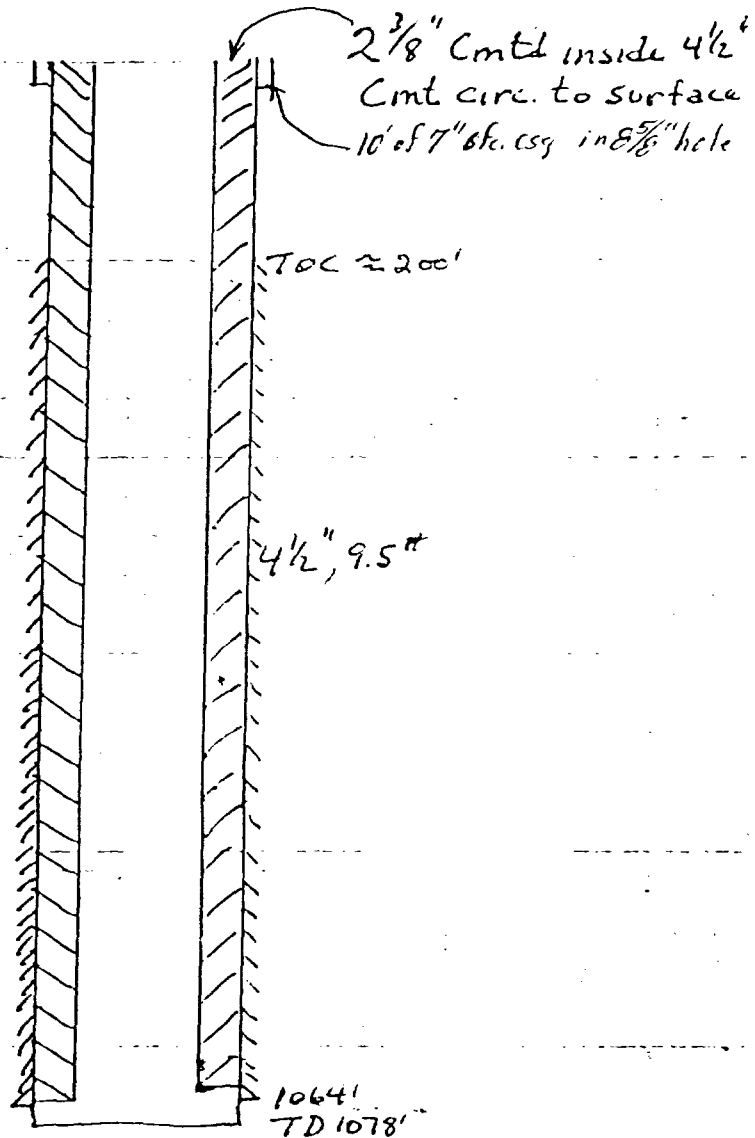
Thomas A. Dugan
King Kong #5
1830' fs1 430' fw1
Sec. 4, T30N, R17W
Elev. 5071' Gr.

- 3/15/68 Depth 440'. Spudded 3/14/68 - drilled with air to 440'. Shut down.
- 3/16/68 Depth 1076'. Drilled with air to 1076' - got first Dakota sand @ 1064' - no show; drilled to 1076' - had good odor. 1074.5' to 1076' blowing free oil from hole after blowing hole 30 min.
- 3/17/68 Depth 1076' - layed down drill pipe; had indication of water on drill pipe while laying down. Rig down Crane Drilling Co. Mayhew "1000" and rig up Crane Drilling Co. cable tool rig run bailer to 850' (this was all the sand line on rig). Recovered 100% oil estimated fluid level @ 500'. Rig down cable tool rig, rigged up Mayhew "1000". Ran 33 jts. 4 1/2", 9.5#, 8R, ST&C "B" condition csg. T.E. 1064.49 set @ 1064' G1. cemented with 65 sx. regular neat plus 2% Cacl. Bumped plug with 500 psi., left well shut in with 500 psi. P.O.B. 6:30 P.M., 3/16/68.
- 3/18/68 Picked up 3 7/8" bit - blew water from hole, drilled plug and guide shoe. Drilled 2' new hole to 1078' T.D. blowing fair stream of oil from hole. Layed down drill pipe; ran 34 jts. plus 8' pup jt. 2 3/8" O.D., 4.7#, 8R, EUE tbg. T.E. 1064.54 set @ 1066' G1. Well complete 3/17/68.

#5 King Kong

NW 1/4 SW 1/4 Sec 4, T. 30N., R. 17W.

14-20-Q603-639



Schematic of Well #5