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OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF COLORADOFile in triplicate for Patented and Federal lands. **COLORADO OIL & GAS CONSERVATION COMMISSION**
File in quadruplicate for State lands.RECEIVED
JUN 10 1981

16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

Centennial Oil Company

3. ADDRESS OF OPERATOR

1015 Midland Savings Bldg. Denver, CO 80202

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

At surface 600' FSL 600' FEL

At top prod. interval reported below

At total depth Same

14. PERMIT NO.

81-440

DATE ISSUED

3-30-81

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Landaker

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

West Fork

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

18 - 35 - 55W

12. COUNTY OR PARISH

Washington

13. STATE

Colorado

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.) 19. ELEV. CASINGHEAD

April 20, 1981

4/24/81

4/26/81

4704' KB

4694' EL

4704

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

4975'-Driller

4971'

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

4865'-4870'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

Electric log - SFL + Gamma Formation Density

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
8-5/8 "	24.0#	131	12 1/4"	50 sacks	
5 1/2"	13.7#	4884.40'	7-7/8"	125 sacks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8"	4903.50	

31. PERFORATION RECORD (Interval, size and number)

4865' to 4870'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NONE	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
5/13/81		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/12/81							
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
			5		65	37	

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

Flared

TEST WITNESSED BY

Bill Grace

35. LIST OF ATTACHMENTS

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

SIGNED

TITLE Accountant

DATE 6/10/81

See Spaces for Additional Data on Reverse Side

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

[illegible]

GEOLOGIC MARKERS

[illegible]

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COLO. OIL & GAS CONS. COMM.

William (Bill) P. Grace

Petroleum Geologist

14231 E. 4th Avenue #115 Clocktower

Aurora, Colorado 80014

Res. (303)366-8685

Bus. (303)366-1517

Ans. Ser. (303)752-3980

Centennial Oil Company

No. 2 Landaker

Westfork Field

C SE SE (600' FEL & 600' FSL)

Section 18 T3S R55W

Washington County, Colorado

DJR	
FJP	
MMH	
JAM	✓
JD	✓
RLS	
CGM	

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CHRONOLOGY AT 8:00 A.M.

4-20-81 Drilled out from under surface casing at 131'
4-21-81 Drilling at 1653' native mud made 1653'
4-22-81 Drilling at 4109' chemical mud (100 parts per
million Nitrate mix) made 2456'
4-23-81 Drilling at 4836' - chemical mud made 727'
4-24-81 Drilled to total depth 4975' - made 139'
Re-entered open hole to drill up mud ball for
rerunning electric logs and for drill stem tests.
Drilled an additional 13'
Total Depth Driller 4975'
Schlumberger 4983'
4-25-81 Set production casing to total depth

FORMATION TOPS

(By Sample and Drilling Time)

<u>FORMATION</u>	<u>SAMPLE</u>	<u>LOG</u>
Niobrara	3910'	3894'
"D" Sand	4807'	4808'
"J" Sand	4854'	4866' **

**Note 8' difference in Driller depth and
Schlumberger depth

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WELL DATA

Well Name: # 2 Landaker

Field Name: Westfork Field

Contractor: Exeter Drilling Co.

Rig No.: Rig 13

Elevation: 4694' Ground Level
4704' K.B. Level

Permit No.: 81440

Spud Date: April 20, 1981

Completed Date: April 26, 1981

Total Depth: 4983' Schlumberger
4975' Driller

Status: Casing set to total depth awaiting perforation
and production tests

Surface Casing: Set 8 5/8" at 131' with 25 sacks cement

Logs: Schlumberger Electric Induction - SFL and
Gamma-Gamma compensated formation density
log - open hole

Test: DST Double Packer 4857' to 4866' to 4874' -
8' interval tested - open tool for a 15 min.
initial flow with a weak blow increasing to
4" in the bucket at the end of the 15 min. flow
period initial - shut in 30 min. Open tool for
a 90 min. final flow with a weak blow increasing
to 6 oz. in 45 min., stabilizing for 15 min.,
then started to decrease to 2 oz. at the end of
the 90 min. final flow period - final shut in
30 min. - recovered 10' mud cut oil and 371'
mud and slightly oil cut water.

Samples: Circulated at 3900' to condition hole and mud
up with chemical mud - circulated at 4818' "D"
Sand and 4868' "J" Sand and at total depth of
4975' to condition hole for running electric
logs.

INTERPRETIVE SAMPLE DESCRIPTION

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4-21-81 to 4-24-81

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- 3900' to 3920' Shale light grey, limey, silty, speckled brown and white, some free Quartz grains, trace of Limestone, trace white to grey subangular Sand porous, mineral florescence
- 3920' to 3940' Shale, light grey, silty, limey, speckled, trace Limestone, trace of grey subangular Sand, N.S.
- 3940' to 3960' Shale light grey, limey, silty, speckled, some free Quartz grains, trace of grey subangular Sand, N.S.
- 3960' to 3980' Shale light grey, limey, silty, speckled, some free Quartz grains, trace grey Sand, N.S.
- 3980' to 4000' Shale light grey-blue, limey, silty, speckled with brown to white oolitic inclusions, trace Limestone, some rounded to subrounded Sand, mineral florescence, N.S.
- 4000' to 4020' Shale light grey-blue, limey, silty, speckled with oolitic inclusions, trace grey Sand, mineral florescence, N.S.
- 4020' to 4040' Shale light grey-blue, brown, and white oolitic inclusions, speckled, trace fine grained grey Sand, mineral florescence, N.S.
- 4380' to 4410' Shale dark to light grey, limey, some speckled oolitic, some platy, silty, trace very fine grained Sand, trace Pyrite and Calcite and Glauconite, mineral florescence, N.S.
- 4410' to 4440' Shale light to dark grey limey, platy, siltstone, Limestone chalky, trace Sand very fine grained grey, mineral florescence, N.S.
- 4440' to 4470' Shale dark to light grey limey, siltstone, trace Limestone, Pyrite, and Calcite, spot florescence in piece of Limestone, no visible oil stain, trace fine grained Sand, N.S.
- 4470' to 4480' Shale light to dark grey limey, siltstone, trace Limestone chalky, trace some free Quartz grains, trace Sand very fine-grained, trace Calcite and Pyrite, mineral florescence, N.S.
- 4480' to 4490' Shale light to dark grey limey, speckled slightly oolitic, trace very fine grained grey Sand, trace Calcite, mineral florescence, N.S.
- 4500' to 4510' Shale dark to light grey limey, some speckled, trace very fine grained Sand, trace Calcite and Pyrite, N.S.
- 4510' to 4520' Shale light to dark grey limey speckled, siltstone, trace very fine grained grey Sand, trace Calcite, mineral florescence, N.S.

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- 4520' to 4530' Shale dark to light grey limey, speckled, some free Quartz grains, siltstone, trace fine grained grey Sand, trace Calcite, mineral florescence, N.S.
- 4530' to 4540' Shale dark to light grey limey, speckled oolitic, some free Quartz grains, some very fine grained grey Sand, trace Pyrite, and Calcite, mineral florescence, N.S.
- 4540' to 4550' Shale grey limey, speckled, some free Quartz grains, trace Sand, trace Calcite and Pyrite, N.S.
- 4550' to 4560' Shale grey limey, speckled, some very fine grained grey to white Sand, trace Calcite and Pyrite, N.S.
- 4560' to 4570' Shale grey limey, speckled oolitic, sandy, some very fine grained grey to white Sand, trace Calcite, mineral florescence, N.S.
- 4570' to 4580' Shale grey limey, speckled, sandy, trace free Quartz rounded to subangular very fine grained grey Sand, N.S.
- 4580' to 4590' Shale grey limey, speckled, sandy oolitic, trace free Quartz rounded to subangular, trace very fine grained gray Sand, mineral florescence, N.S.
- 4590' to 4600' Shale sandy grey limey with trace very fine grained grey to white Sand, some free Quartz, mineral florescence, N.S.
- 4610' to 4620' Shale sandy grey limey, some free Quartz, very fine grained grey to white Sand, mineral florescence, N.S.
- 4620' to 4630' Shale grey limey sandy, trace Calcite, trace very fine grained grey Sand, N.S.
- 4630' to 4640' Shale sandy grey limey, trace Calcite, trace very fine grained grey Sand, mineral florescence, N.S.
- 4640' to 4650' Shale sandy limey gray, trace free Quartz, trace grey fine grained Sand, trace Calcite, mineral florescence, N.S.
- 4650' to 4660' Shale sandy, limey, grey, trace fine grained Quartz, Sand very fine grained grey, trace Calcite, mineral florescence, N.S.
- 4660' to 4670' Shale sandy limey grey, trace grey to white Sand, trace Calcite and Pyrite, mineral florescence, N.S.
- 4670' to 4680' Shale sandy, limey, grey, trace Sand grey white, trace Calcite and Pyrite, mineral florescence, N.S.
- 4680' to 4690' Shale sandy, limey, grey, trace fine grained free Quartz, trace grey to white fine grained Sand, N.S.

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4690' to 4700' Shale sandy, limey grey, trace fine grained grey to white Sand, trace free Quartz, N.S.

4700' to 4710' Shale, sandy, limey, grey, trace fine grained grey Sand, mineral florescence, N.S.

4710' to 5720' Shale sandy, limey, grey, trace fine grained grey Sand, mineral florescence, N.S.

4720' to 4730' Shale sandy, limey, grey, trace fine grain grey Sand, mineral florescence, N.S.

4730' to 4740' Shale sandy, limey grey, trace Sand fine grained grey, trace free Quartz, Calcite, mineral florescence, N.S.

4740' to 4750' Shale sandy, limey, grey, trace free Quartz, trace very fine grained Sand, mineral florescence, N.S.

4750' to 4760' Shale grey, limey, some very fine grained grey Sand, trace of free Quartz, mineral florescence, N.S. - Calcite

4760' to 4770' Shale grey, limey, some very fine grained light grey-tan Sand, mineral florescence, N.S. Trace Calcite and Pyrite

4770' to 4780' Shale grey, limey, some very fine grained light grey-tan Sand, mineral florescence, N.S. Trace Calcite

4780' to 4790' Shale grey, limey, some very fine grained light grey-tan Sand, mineral florescence, N.S. Trace Calcite

4790' to 4800' Shale grey, limey, some very fine grained light grey Sand, N.S.

4800' Shale grey, limey, some very fine grained light grey Sand, N.S.

4807' Possible "D" Sand Top

4818' Circulated 15 min. Shale with trace of very fine grained grey to tan Sand tight, trace Calcite and Pyrite, N.S.

30 min. Shale and trace Sand grey to white very fine grained, tight, trace Limestone and Bentonite, Calcite, spot florescence on Limestone, N.S.

45 min. Shale and trace Sand grey to white very fine grained, tight, trace Limestone and Bentonite Calcite, spot florescence on Limestone, N.S.

4820' to 4830' Sand and grey siltstone, shale - Sand very fine grained white to tan subangular friable, N.S. Spot mineral florescence

4830' to 4840'	Sand and siltstone, Sand fine grain subangular siliceously cemented, tan to brown, no visible stain, some free Quartz grains, mineral florescence
4840' to 4850'	Sand, siltstone - Sand very fine grained tan to brown siliceously cemented tight, spot mineral florescence, trace Calcite
<u>Possible "J" Top</u>	
4850' to 4860'	Sand and shale, siltstone - Sand very fine grained grey to tan to brown, mineral florescence, N.S. Slight pentane cut
4868'	<p>15 min. Sand and shale, siltstone - Sand very fine sorted subangular to rounded grains, white to tan friable, tight to porous, spotted florescence and slight scattered stain and pentane cut</p> <p>30 min. Sand - more Sand as above with pentane cut and scattered florescence, slight stain, some mineral florescence, trace Calcite</p> <p>45 min. Sand - abundance of free Quartz rounded to subangular, some cluster friable sands, spotted florescence, magnetite inclusion</p>
4870' to 4880'	Sand - abundance of free Quartz grains, angular to subangular, spotted florescence and cut
4880' to 4890'	Sand and shale - shale and siltstone, less Sand, spot mineral florescence, N.S.
4890' to 4900'	Shale and Sand, siltstone, dark grey sand medium to fine grained, spot florescence, no cut, some free Quartz
4900' to 4910'	Shale and Sand, siltstone, dark grey Sand fine grain, grey-white, spot florescence, N.S.
4910' to 4920'	Shale and Sand, siltstone, dark grey Sand fine to very fine grained grey to tan, N.S. mineral florescence
4920' to 4930'	Shale light grey with some Sand very fine grained, spot florescence, N.S.
4930' to 4940'	Sand, shale - Sand white to tan to buff, abundance of free Quartz grains, spotted florescence, slight pentane cut
4940' to 4950'	Shale, Sand, light to dark grey shale, siltstone, some free Quartz grains
4950' to 4960'	Shale, Sand - light to dark grey shale, sand, some free Quartz grains, small clusters with stain and florescence, from up hole???
4960' to 4970'	Shale, Sand, light to dark grey shale, sand, some free Quartz grains, spotted florescence
T.D. 4970'	

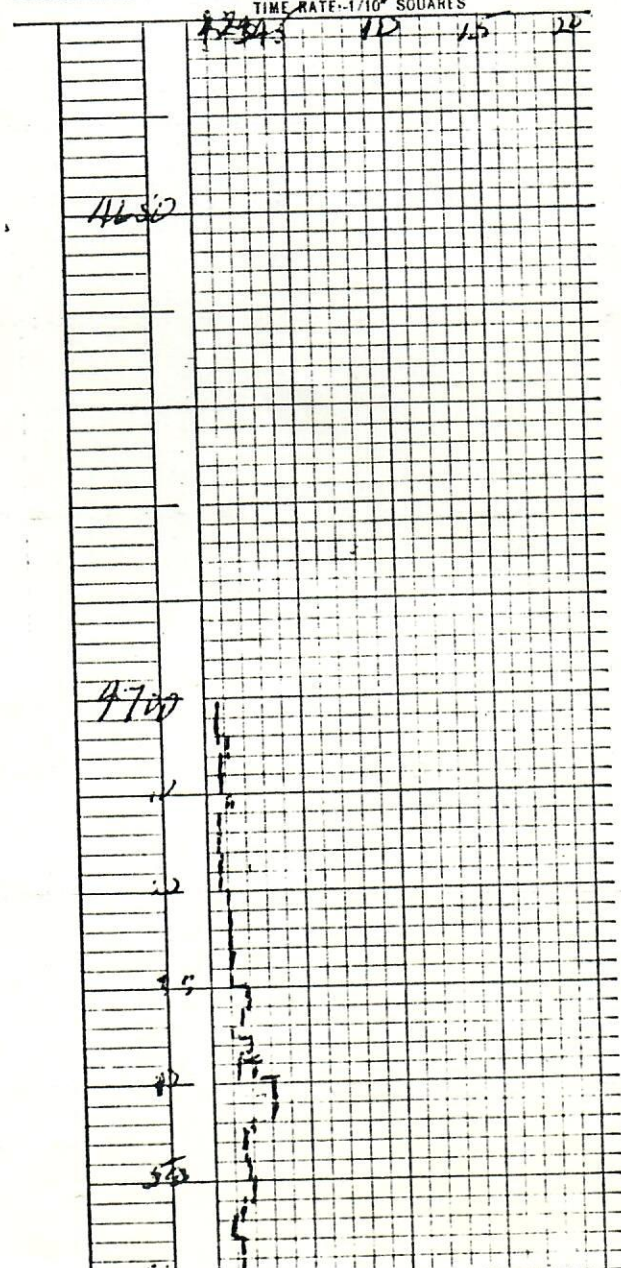
STATE <i>Colo</i>		COMPANY <i>Centennial Oil Co</i>																	
COUNTY <i>Washington</i>	FARM <i>Headcher</i>	WELL NO. <i>2</i>																	
BLOCK	SURVEY <i>LOO FT LOCWL</i>																		
SEC. <i>18</i>		TOTAL DEPTH <i>COLO</i>																	
<i>CSF SF</i>																			
T. <i>35</i>	R. <i>32</i>																		
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COMMENCED <i>4-20-81</i>																			
COMPLETED <i>4-25-81</i>																			
ALTITUDE <i>4704</i>		REMARKS <i>Set production casing at 4984</i>																	
PRODUCTION																			

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CASING RECORD

SHOT QUARTS BETWEEN

TIME RATE SCALE: 1/10" = MINUTES
 HRS/1000 450 TULSA, OKLAHOMA 74101 PRINTED IN U.S.A.



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