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AUG 14 1970

COLO. OIL & GAS CONS. COMM.

August 11, 1970

Oil & Gas Conservation Commission
State of Colorado
1845 Sherman Street
Denver, Colorado 80203

Attention: Mr. Frank J. Piro
Deputy Director - Secretary

Gentlemen:

This letter and its attachments, in triplicate, is our application for permission to inject produced water in the Golden Spike Field into the Kinderhook and Arbuckle formations in the Flowers No. 2, NE SE Section 12-16S-45W, Cheyenne County, Colorado.

The Flowers No. 2 was drilled as a development well in the Golden Spike Field. The Mississippian formation was indicated to be non-productive on the basis of DST data, electric log evaluation, visual examination of drill cuttings and structural position. The well was then deepened to 6150' and 5 ½" casing was set and cemented at that depth. It is now proposed to perforate and acidize porosity development in the Kinderhook and Arbuckle formations over the interval 5762 to 6150'. Produced water in the Golden Spike Field will then be injected into this well for disposal. Disposal requirements for the ten producing wells in the field are estimated to be 4000 BWPD for the near future.

The casing as shown on the attached Form 5 has already been run in the well and cemented as shown. It is not planned to test the 5 ½" casing string as it was in good condition when run on August 5, 1970. A sufficient amount of cement was used to prevent the movement of injected water into formations other than the Kinderhook and Arbuckle.

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Page Two

A copy of this letter along with the necessary forms and location plat has been sent by registered or certified mail to each owner of record within one-half mile of the proposed disposal well. A list of the owners of record within one-half mile of the disposal well has been attached.

Yours very truly,



Charles R. Hamm
Div. Prod. Mgr.

CRH:dcp

Enclosures:

Application for Permit to Drill, Deepen or Plug Back (Form 2)

Well Completion or Re-Completion Report & Log (Form 5)

Location Plot

Mailing List

DEPARTMENT OF NATURAL RESOURCES
OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF COLORADO

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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"/>			
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER SWD Well <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			
2. NAME OF OPERATOR Inexco Oil Company			
3. ADDRESS OF OPERATOR 200 Nat'l Found. Life Bldg., Okla. City, Okla. 73112			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 660' FNL & 660' FEL of SE/4 Sec 12-16S-45W At proposed prod. zone Same			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE			
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. line, if any) 660'		16. NO. OF ACRES IN LEASE * 160	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		17. NO. OF ACRES ASSIGNED TO THIS WELL 80	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4332 GL		20. ROTARY OR CABLE TOOLS Rotary	
23. PROPOSED CASING AND CEMENTING PROGRAM		22. APPROX. DATE WORK WILL START	

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/4	13 3/8	48#	326	250 SX
12 1/4	10 3/4	32.75#	731	150 SX
7 7/8"	5 1/2	14# & 15.5#	6150	200 SX

* DESCRIBE LEASE

The Flowers No. 2 was drilled as a development well in the Golden Spike Field. The Mississippian formation was indicated to be non-productive on the basis of DST data, electric logs, visual examination of drill cuttings and structural position. The well was then drilled to 6150' and 5 1/2" casing was set and cemented at that depth.

✓ It is now proposed to perforate and acidize porosity development in the Kinderhook & Arbuckle formations over the interval 5762 to 6150'. Produced water in the Golden Spike Field will then be injected into this well for disposal.

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. Charles R. Hamm
SIGNED Charles R. Hamm TITLE Div. Prod. Mgr. DATE 8-11-70
(This space for Federal or State office use)

PERMIT NO. 70-295 APPROVAL DATE DIRECTOR
APPROVED BY [Signature] TITLE OGCC COMM. DATE SEP 2 1970
CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF COLORADOFile in triplicate for Patented and Federal lands.
File in quadruplicate for State lands.

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5. LEASE DESIGNATION AND SERIAL NO.
COLO. OIL & GAS CONS. COMM.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Flowers

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Golden Spike

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

Sec. 12-16S-45W

12. COUNTY OR
PARISH
Cheyenne13. STATE
Colo

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

Inexco Oil Company

3. ADDRESS OF OPERATOR

200 Nat'l Found. Life Bldg., Okla. City, Okla. 73112

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

At surface 660' FNL & 660' FEL of SE/4 Sec 12-16S-45W

At top prod. interval reported below

At total depth Same

14. PERMIT NO.

70295

DATE ISSUED

6-29-70

15. DATE SPUDDED

7-14-70

16. DATE T.D. REACHED

8-1-70

17. DATE COMPL. (Ready to prod.)

8-5-70

18. ELEVATIONS (DF, REB, RT, GR, ETC.)

4332 GL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6150'

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

22. IF MULTIPLE COMPL.,
HOW MANY

23. INTERVALS
DRILLED BY

→

ROTARY TOOLS

0 - TD

CABLE TOOLS

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

None

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Sidewall Neutron Porosity

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
13 3/8"	48#	326'	17 1/4	250 sx	None
10 3/4"	32.75#	731'	12 1/4	150 sx	None
5 1/2"	14# & 15.5#	6150	7 7/8"	200 sx 50/50 Pozmix	None

29. LINER RECORD

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

30. TUBING RECORD

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

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

SNF Log

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

SIGNED

Charles R. Hamm

TITLE Div. Prod. Mgr.

DATE 8-11-70

See Spaces for Additional Data on Reverse Side

Water Log

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Mississippian DST No. 1	5465	5520	Rec 190' drlg mud. FP - 41 - 112# ISIP - 1223#/60 min. FSIP - 838#/60 min.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Cherokee	4858	
Morrow	5150	
Miss	5330	
Kinderhook	5736	
Arbuckle	5790	

Mailing List
Owners of Record
Golden Spike Field
Cheyenne County, Colorado

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Lessees:

Mobil Oil Corporation
P. O. Box 1934
Oklahoma City, Oklahoma
Attention: Mr. L. B. Agers

Union Pacific Railroad Company
Natural Resources Division
5480 Ferguson Drive
Los Angeles, California 90022
Attention: Mr. Howard Hines

Glyde Elizabeth Gutru
Double B Farms
Route 4
Wichita, Kansas 67230

J. A. Mull, Jr.
Suite 1625, Wichita Plaza
Wichita, Kansas

W/2 Section 7-16S-44W
W/2 and NE/4 Section 12-16S-45W
NW/4 Section 18-16S-44W
Section 13-16S-45W

Landowners (Surface and Minerals):

SE/4 Section 12-16S-45W

Anna Irene Asher (Surface)
Rural Route #2
Great Bend, Kansas 67520

Lanna B. Flowers
Arapaho, Colorado 80202

Plains Exploration Co.
1135 Petroleum Club Bldg.
Denver, Colorado 80202

Maragaret Mull
1625 Wichita Plaza
Wichita, Kansas

Lewis Mull
1625 Wichita Plaza
Wichita, Kansas

Michael E. Rathbone
10 Linden
Wichita, Kansas

Kay Rathbone Johnson
10 Linden
Wichita, Kansas

Bethryn Oil Company
909 Bitting Bldg.
Wichita, Kansas

Archie M. Lowe
Cheyenne Wells, Colorado

Marvin E. Lowe
Cheyenne Wells, Colorado

Merril A. Lowe
Cheyenne Wells, Colorado

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GOLDEN SPIKE FIELD

7

LEGEND

-  Dry Hole
-  Oil Well
-  Abandoned Oil Well
-  Discovery Well (Oil)
-  Proposed Salt Water Disposal Well

