

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

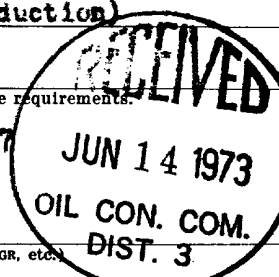
SF 078061

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> SI Gallup Ss Injector		7. UNIT AGREEMENT NAME Carson Unit	
2. NAME OF OPERATOR Shell Oil Company (Rocky Mountain Div. Production)		8. FARM OR LEASE NAME Carson Unit	
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202		9. WELL NO. 113-17	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' F&L and 660' F&L Sec 17		10. FIELD AND POOL, OR WILDCAT Basin Dakota Gas Pool	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 SW/4 Section 17- T 25N-R 11W	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6444.5' GL, 6427 KE		12. COUNTY OR PARISH San Juan	
		13. STATE New Mexico	



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

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) Recompletion in Dakota "B"	<input checked="" type="checkbox"/>		

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

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

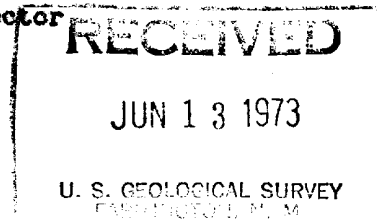
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

As per attached prognosis

An application for approval of an unorthodox location and permission to recomplate the Carson Unit 113-17 in the Basin Dakota Gas Pool (see attached copy) has been submitted to the Oil & Gas Conservation Commission in Santa Fe, New Mexico.

Please forward two approved copies to:

Oil and Gas Conservation Commission w/attachments  
1000 Rio Brazos Road  
Albuquerque, New Mexico 87110  
Attention Mr. E. C. Arnold, Supvr. & Oil & Gas Inspector



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

SIGNED Carl E. Jordan By K. E. Jordan TITLE Division Operations Engr. DATE June 12, 1973

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.



RECOMPLETION PROGNOSIS  
CARSON 113-17  
BASIN DAKOTA GAS POOL  
SAN JUAN COUNTY, NEW MEXICO

PERTINENT DATA:

Elev: 6,414.5' GL  
KB-GL: 12.6'

CURRENT STATUS: Shut-in Gallup sandstone injector.

PROPOSED WORK: Recomplete in Dakota "B" sandstone.

PROCEDURE: 1. *Check Fluid level in tubing before M.T.*

1. MI&RU workover unit. POOH and ~~run down 2 3/8" tubing~~. *Attempt to fill hole w/ foam. If hole fills and can rely on some reservoir,*
2. Run 2 3/8" tubing with bit and junk basket, drill CIBP at 5,100' and CO to  $\pm$  5,950'. If problems are encountered in circulating, discuss procedure for plugging perforations, 4918-36' and 4942-50', with Division. *POOH. Single down 2 3/8" tubing.*
3. Run a CBL/VDL log from 5,950' to 5,000'. Discuss log with Division. *5 1/2"*
4. On electric line, run and set a Bkr Model FB pkr (3" ID bore). at 5,600' *with* a 6' millout extension, one joint of 2 1/8" tbg and a 2.313" Otis "N" nipple w/a 2.255" no-go on bottom of the packer.
5. Run 2 7/8" tbg with two (2) 2.375" ID anchor seal units. *latch into pkr and test with 20,000# set down + tense.* Land tbg with 1,000# set down. *Set pw plug & pressure test tbg to 6000 psi. Pull pw plug.*
6. Swab fluid level to  $\pm$  5,000'.
7. Perforate the interval 5,807-26' (depths refer to PDC log dated 1-31-59) unidirectionally with two (2) jet shots per foot using a magnetically decentralized 2" steel tube carrier gun w/ JRC or Schlumberger charges.
8. If the well will flow, production test. If the well will not flow, check the fluid level with the swab line approximately two (2) hours after perforating. Discuss results with Division. *Rig for swab and*
9. Dependent on the results of Step 8, fracture treat the Dakota B sandstone as follows:

Pump the following volumes of YFCC frac fluid, at 15-17 bbls/min within an allowable surface pressure of 5,000 psi. Add a radioactive material (Iridium-192) to the proppant. *Also, add 80# KCL per 1000 gal frac fluid.*

- a. 3,000 gal pad.
- b. 2,500 gal w/1/2#/gal 10-20 sand.
- c. 2,500 gal w/3/4#/gal 10-20 sand.

- d. 2,500 gal w/1#/gal 10-20 sand.
- e. 5,000 gal w/2#/gal 10-20 sand.
- f. 5,000 gal w/3#/gal 10-20 sand.
- g. 2,500 gal w/4#/gal 10-20 sand.
- h. 1,400 gal flush.

9. Run GR log from 6,000' to 5,000'.

10. SI over night.

11. Swab load or lift with nitrogen and production test well.

12. Run BHP as required.

JPP:sp  
5/4/73

*B. L. Faulk*  
B. L. Faulk

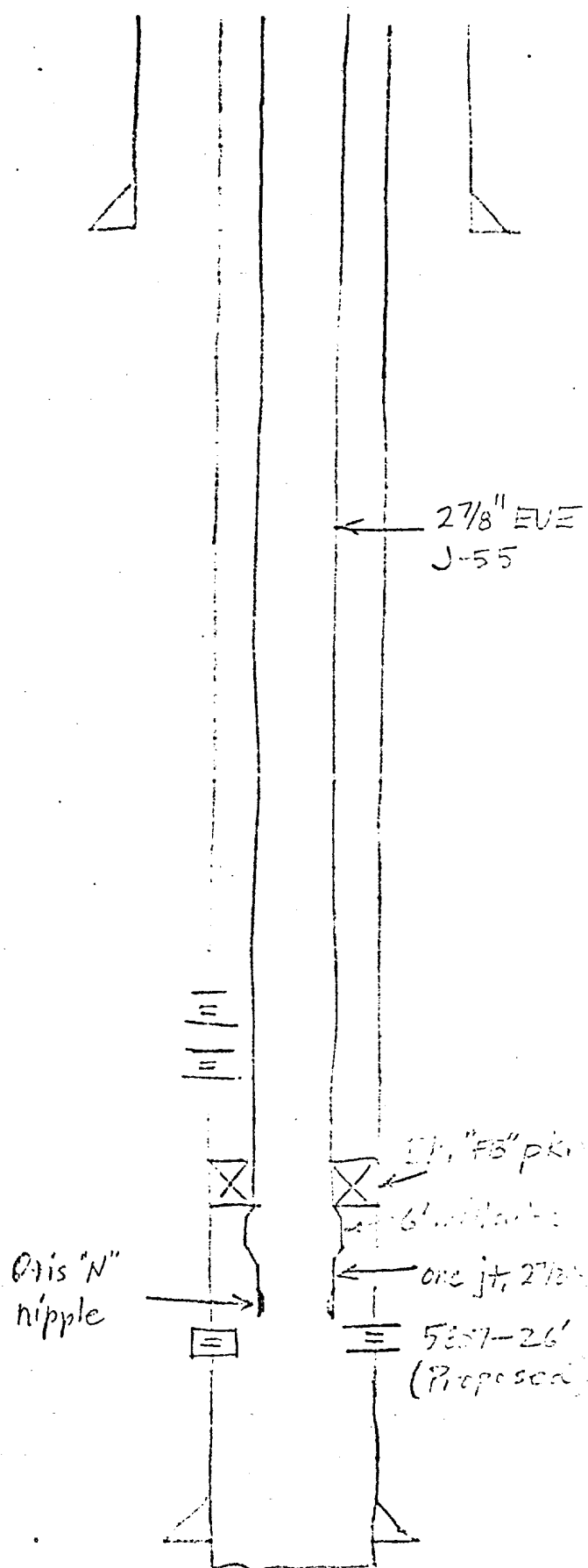
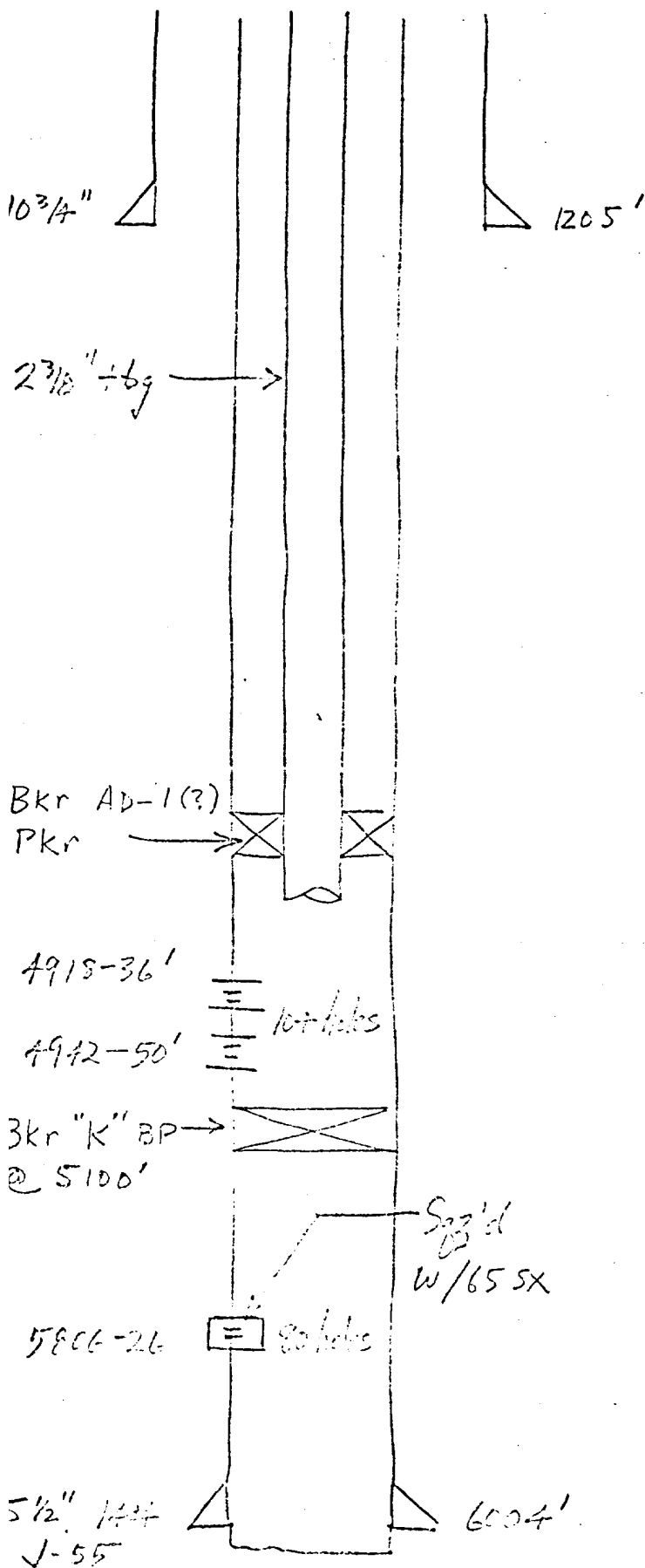
Attachments

Div O.E. K.R. 57-73  
Div P.E. 5774 5/7/73

\* If some degree of circulation cannot be achieved, plan on laying a cement plug over part interval and brooder head square. Details from Division at that time if reqd.

# CURRENT

# PROPOSED



BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF SHELL OIL )  
COMPANY FOR APPROVAL OF AN UNORTHODOX LOCATION )  
AND PERMISSION TO RECOMPLETE A WELL INTO THE )  
BASIN DAKOTA GAS POOL IN NW $\frac{1}{4}$ SW $\frac{1}{4}$  OF SECTION 17, )  
TOWNSHIP 25 NORTH, RANGE 11 WEST, WITHIN THE )  
CARSON UNIT, SAN JUAN COUNTY, NEW MEXICO )

APPLICATION

SHELL OIL COMPANY respectfully shows to the Oil Conservation Commission of the State of New Mexico as follows:

1. Applicant is a Delaware corporation qualified to do business and doing business in the State of New Mexico.
2. Applicant is the sole working interest owner and operator under the Unit Agreement for the Development and Operation of the Carson Unit Area, a Federal Unit covering all horizons under the lands herein described and other lands in San Juan County, New Mexico, which Unit Agreement was approved by this Commission on June 22, 1956, by Order No. R-828, and by the United States through the Secretary of the Interior on November 15, 1956.
3. Carson Unit Well 113-17 located 1980 feet from the south line and 660 feet from the west line of Section 17, Township 25 North, Range 11 West, San Juan County, New Mexico, was drilled at an orthodox location and completed in August 1959 as a producing oil well in the Gallup formation at a depth of approximately 4950 feet below the surface. Subsequently the well was converted to a water injection well and still later all operations were suspended and remain so at this time.
4. By Commission Order No. R-1670-C dated November 4, 1960, the Commission created a new gas pool for Dakota production designated as the Basin Dakota Gas Pool with horizontal limits defined to include San Juan and Rio Arriba Counties, New Mexico, with certain exceptions which do not affect the land area covered by this application. The Order also established a standard gas proration unit of 320 acres and provided for well locations no nearer than 790 feet to the boundary line of the proration unit and other setbacks not here involved.

5. Applicant desires to attempt to extend the Basin Dakota Gas Pool in the Carson Unit Area by recompleting the above described Carson Unit Well 113-17 into the Basin-Dakota Gas Pool pursuant to Commission Rule 104F. The location of Carson Unit Well 113-17 does not comply strictly with the location requirements in the special rules adopted in Order No. R-1670-C. However, Applicant believes the proposed unorthodox well location is necessary and desirable due to economic savings and environmental advantage to be realized from the use of an existing well in preference to the cost and disturbance of a new and unnecessary well.

6. Applicant is the sole operator of the Carson Unit and will operate the recompletion well. Offset operators to the gas proration unit for which an unorthodox location is sought are Skelly Oil Company, Post Office Box 1650, Tulsa, Oklahoma 74102, and Mobil Oil Corporation, 3 Greenway Plaza East, Suite 800, Houston, Texas 77046, and both have been notified of this application by certified mail.

7. Attached hereto and made a part hereof is a plat marked Exhibit "A" showing the Carson Unit Well 113-17 proposed for recompletion into the Basin Dakota Gas Pool, proposed spacing unit consisting of S $\frac{1}{2}$  of Section 17-25N-11W, ownership of all leases offsetting such proration unit, and the location and status of all wells drilled in the vicinity of the proposed recompletion.

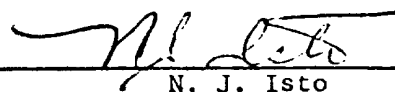
8. Applicant believes that the approval of an unorthodox location in accordance with this application is reasonable, that it will prevent waste and the drilling of an unnecessary well, and that if the recompletion is successful, it would extend the productive limits and encourage further development of the Basin Dakota Gas Pool in the Carson Unit Area.

WHEREFORE, Applicant prays that the unorthodox location requested herein be approved administratively pursuant to Rule 104F of the Rules and Regulations of the Oil Conservation Commission, State of New Mexico, and that Applicant be permitted to recomplete the Carson Unit Well 113-17 into the Basin Dakota Gas Pool as hereinabove proposed.

Respectfully submitted,


SHELL OIL COMPANY

By

  
N. J. Isto

STATE OF COLORADO     )  
                                  ) SS.  
CITY AND COUNTY OF DENVER )

N. J. ISTO, being first duly sworn, deposes and says that he is the Rocky Mountain Division Production Manager, for Shell Oil Company, who signed the above application in its behalf; that he has read such application and knows the contents thereof; and that the matters and things therein contained are true.

  
\_\_\_\_\_

Subscribed and sworn to before me this 12th day of June, 1973.

My Commission Expires:

7-27-74

\_\_\_\_\_  
/s/ Evaline A. Olson  
Notary Public



