Form 9-331 (Say 1963)

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## UNITED STATES SUBMIT IN TRIPLICATE\* DEPARTMENT OF THE INTERIOR (Other Instructions on Terrors eside) **UNITED STATES**

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND BERIAL NO.

GEOLOGICAL SURVEY	SF_078067
NDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
is form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)	Navato

Use "APPLICATION FOR PERMIT—" for such proposals.)	Navajo
	7. UNIT AGREEMENT NAME
OIL GAS WELL OTHER	Carson
NAME OF OPERATOR	8. FARM OR LEASE NAME
Shell Oil Company	Unit
ANDRESS OF OPERATOR	9. WELL NO.
1700 Broadway Denver Coloredo 80202	34-11
1700 Broadway, Denver, Colorado 80202 LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*	10. FIELD AND POOL, OR WILDCAT
See also space 17 below.) At surface	Bisti - Pictured Cliff
660' FSL & 1980' FEL, Section 11	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
•	Section 11-T25N-R12W

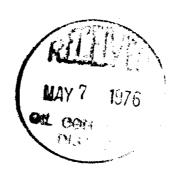
12. COUNTY OR PARISH 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. San Juan New Mexico 6389 KB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:					
TEST WATER SHUT-OFF		PULL OR ALTER CASING		]	WATER SHUT-OFF		REPAIRING WELL
FRACTURE TREAT		MULTIPLE COMPLETE		_	FRACTURE TREATMENT		ALTERING CASING
SHOOT OR ACIDIZE		ABANDON*		_	SHOOTING OR ACIDIZING		ABANDONMENT*
REPAIR WELL	L	CHANGE PLANS		-	(Other) Report resu	lts of	multiple completion on Well
(Other)Recomplete	e a	s gas producer	X	<u> </u>	Completion or Recor	mpleti	ion 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.) \*

See attached Recompletion Prognosis



18. I hereby cerely that he for oling is true and correct SIGNED J. W. T. M. J.	TITLE Div. Opers. Engr.	DATE _5/5/76
(This same for Federal or State office use)		
APPROVED BY	TITLE	DATE

O&G Conservation Commission w/attachment

**RECOMPLETION PROGNOSIS** CARSON UNIT 34-11 660' FSL & 1980' FEL SECTION 11, T25N, R12W, NMPM 24# 8 5/8" BISTI FIELD J-55 109' SAN JUAN CO., NEW MEXICO PERTINANT DATA: 6389' KB ELEV; KB-GL: 91 5030' Proposed Perfs: TD: Existing Perfs. Completion date: 9-25-59 AFE (P&A Gallup): EST. COST (P&A Gallup): \$12,200 AFE (Recompl. in Pictured Cliffs): Shell's Share: 100% Pictured Cliffs Note: All depths refer to Welex's SP-Contact caliper log dated 9-7-59(1"=100"). **CURRENT STATUS:** Producing 4 BDO + 27 BDW. 1216 1236 PROPOSED WORK: 1265 P&A the Gallup prod. interval. Perforate, frac. treat and test the Pictured Cliffs gas interval for productivity. 1340 PROCEDURE: 1. Move in WOR. Install and test BOP and safety equipment. Pull production equipment. 4884 CICR @4800' 4888 Run casing scraper on tubing to 4890'. for Gallup 4893 sqz. Run CICR on tubing. Set CICR at 4800'. 4904 Pressure test tubing to 2000 psi. Test 4911 4913 casing to 1400 psi. 4921 4927 4969 4978 4987 13/5 4997 9.5# 4 1/2" J-55 5027 C. 150 SX TD 5030'

- 6. Pump 150 sx. Class A cement with 4% gel below retainer to squeeze Gallup perfs. Pump cement at minimum pumping pressure and rate required, perferably 1-1 1/2 BPM not to exceed 1200 psi with tubing full of cement or 1500 psi while displacing cement.
- 7. Unsting from retainer, circulate hole clean with water containing 22 Kg and 12#/1000 gal. CaCl. Pull tubing.
- 8. Run GR-Neutron-PDC log from 1500' to 100'(scale 1"=100').
- 9. Run BP on wireline and set at 1350'. Fill casing with water.
- 10. Run 3 3/8" hollow carrier dyper-Jet II gun and perforate 4 jets/ft. at 1340. Check fluid level before and after perforating.
- 11. Run tubing open ended to 1340'. Fill casing with water while going in hole.

  Establish pump-in rate with water. If able to pump-in with water spot 40 cubic feet class A cement (cement containing 2% CnCl). Pump cement at low rate (1-12 BPM). Do not exceed 200 psi while pumping cement, pumping time for cement is 1 hour and 59 minutes. Pull tubing to 700 feet and reverse circulates clean. Shut tubing in and bradenhead sqz. down csg.-tbg. annulus with 100 psi for 1 hour. Pull tubing.
  - 12. Run 3 3/8" hollow carrier Hyper-Jet II gun and perforate 4 jets/ft. at 1285'.
  - 13. Run CICR on tubing and set at 1265'. Attempt to circulate to surface outside 4 1/2" casing. Start with a flush slug of KCl & CaCl water follow with 500 gals 7 1/2% HCl follow by KCl & CaCl water (inhibit acid as required).
- 14. Follow water with 200 sx. reg. Class A cement containing 1% CaCl. Cement at minimum pumping pressure required. Displace cement to tubing tail and unsting from retainer. Circulate hole clean and pull tubing. WOC 12 hours.
- 15. Run a CBL from ±1265' to 8 5/8" casing shoe at 109' at 0 psi. Rerun at 1,000 psi if bonding across proposed recompletion interval (1216-1236') is doubtful. Contact Houston Engineering if bonding appears doubtful.
- 16. Bail fluid to 1,000'+. Run a 3 3/8" hollow carrier Hyper-Jet II gun
  Loaded with 27 evenly spaced charges and perforate the Pictured Cliffs
  interval 1216' to 1236'(20). See attachment for perforation pattern.
- 17. Run packer on tubing and set at 1210'+ and swab test well until gas flow is established (if any). Obtain natural flow test if possible not to exceed 3 hours.
- 18. Pull packer and tubing. Rerun tubing open ended to 1180'. Use blast joint of tubing at top of string if tubing is old.
- 19. Rig up Dowell (et al) an Foam-Frac $^R$  treat the Pictured Cliffs down the tubing and the casing simultaneously as follows:

- 1.) Pump 2,200 gal. of foam pad.
- 2.) Pump 1,470 gal. of foam with .57 PPG 20-40 sd.(2 lb/gal. @ blender)
- 3.) Pump 1,470 gal. of foam with 1.14 PPG 20-40 sd.(4 lb/gal @ blender)
- 4.) Pump 16,170 gal. of foam with 1.57 PPG 20-40 sd.(5.5 lb/gal @ blender)
- 5.) Pump 1,470 gal. of foam with .57 PPG 10-20 sd.(2 lb/gal @ blender)
- 6.) Pump 1,470 gal. of foam with 1.14 PPG 10-20 sd. (4 lb/gal. @ blender)
- 7.) Pump 16,170 gal. of foam with 1.57 PPG 10-20 sd. (5.5 lb/gal. @ blender)
- 8.) Pump 600 gal. of foam to flush treatment to perfs.

Note: Foam should be 70 quality at BHFP conditions. Foam should contain surfactant (F52B), and water should contain 2% KCl and 12#/1000 gal. CaCl.

Total calc. water for frac. treatment is 293 bbls.

Total frac. treatment is 41,000 gal. foam with 28,000#

20-40 sd. and 28,000 #10-20 sd.

Est. pumping rate: 17.5 BPM.

Est. wellhead treating pressure: 1,250 psig.

- 20. Pull tubing. Rerun packer on tubing and set at 1200'+.
- 21. Swab and/or flow test to clean up to pit and establish flowing rate and FP at various choke sizes. Obtain gas sample for analysis.
- 22. Dependent on productivity, either hook up to gas line or shut-in pending further work.

Note: Contact C. O. Collins at the Houston Office (Ph 713-220-1309) or J. T. Brown (Ph. 713-220-2711) for changes which may be required in the Recompletion procedure.

Frac. treatment arrangements have been arranged with Dowell (Farmington, N. M.), Nowsco and Minerals Management Inc. (Ph. 303-571-1111 in Denver... Mr. Bill Abbott, Mr. Roland Blaurer or Mr. Herschel Vaughn). Notify Dowell (Farmington) and Minerals Managements Inc. (Denver) one week in advance of recompletion as to date, timing, etc. An Engineer from Minerals Management Inc. will go on job location.

The approval of the District Engineer, State of New Mexico is required prior to plugging back, recompleting, etc. Approval from the State is also required to test to pit and flare prodigas.

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COC:MG CCC Attachments

Div. O.E.

Approved:

Production Superintendent