Form	9-331
(May	1963)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

SUBMIT				
(Other 1		uctions	on	re-
verse side	•)			

5. LEASE DESIGNATION AND BERIAL NO.

SF 078067 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY	NOTICES	AND	REPORTS	ON '	WELLS	
(Do not use this form fo	r proposals to	drill or to	deepen or plu	g back to	a different :	reservoir.

Navaio

OSE APPLICATION FOR I DIGHT Tot Buch proposition	Mavajo
	7. UNIT AGREEMENT NAME
OIL GAS OTHER	Carson
NAME OF OPERATOR	8. FARM OR LEASE NAME
Shell Oil Company	Unit
ADDRESS OF OPERATOR	9. WELL NO.
1700 Broadway, Denver, Colorado 80202	41-14
1. 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 Cliffs
	11. SEC., T., R., M., OR BLK. AND SUBVET OR AREA
660' FNI, & 660' FEI, Section 14	Continue 1/ MOEN DION

Section 14-T25N-R12W

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 14. PERMIT NO. 6383 KB

12. COUNTY OR PARISH 13. STATE San Juan New Mexico

T

16.

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		
EST WATER SHUT-OFF PULL OR ALTER CASI:	NG	WATER SHUT-OFF	REPAIRING WELL	
RACTURE TREAT MULTIPLE COMPLETE		FRACTURE TREATMENT	ALTERING CASING	
HOOT OR ACIDIZE ABANDON*		SHOOTING OR ACIDIZING	ABANDON MENT*	
EPAIR WELL CHANGE PLANS		(Other) (Note: Report results of mul-	tiple completion on Well	
Other) Passemplate as ass producer	v	Completion or Recompletion Re	eport and Log form.)	

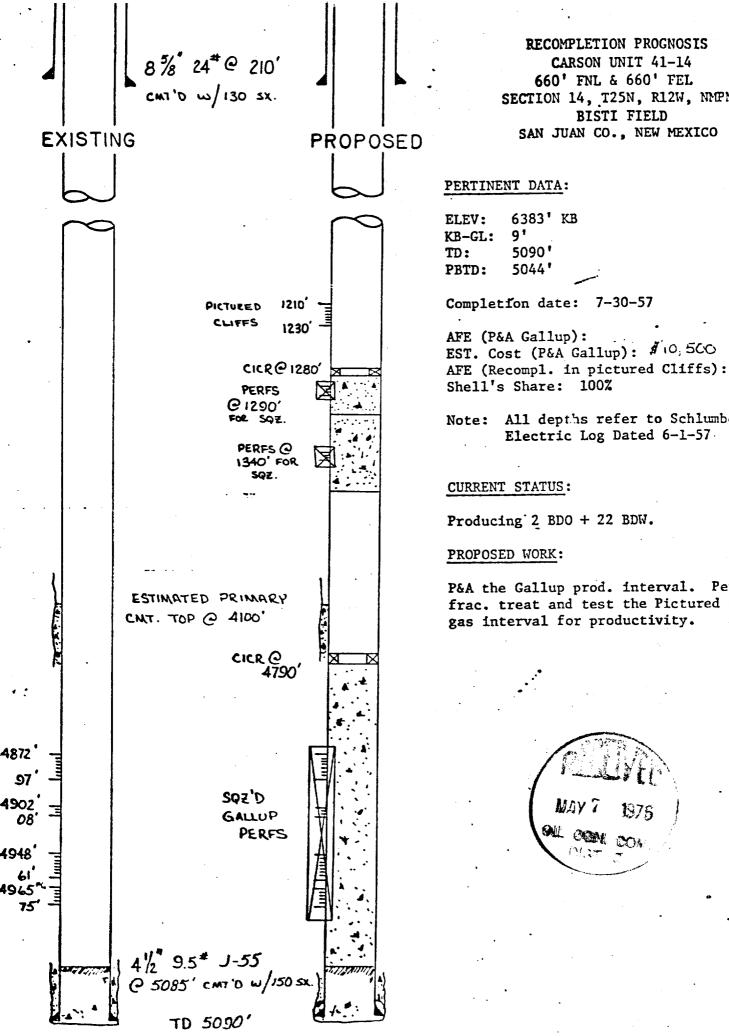
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

See attached Recompletion Prognosis



1		
18. I hereby certly that he for poing is true and correct SIGNED	TITLE Div. Opers. Engr	DATE _5/5/76
(This share for Federal or State office use)		
APPROVED BY	TITLE	DATE

O&G Conservation Commission w/attachment



-4872

CARSON UNIT 41-14 660' FNL & 660' FEL SECTION 14, T25N, R12W, NMPM SAN JUAN CO., NEW MEXICO

Note: All depths refer to Schlumberger

Electric Log Dated 6-1-57

P&A the Gallup prod. interval. Perforate, frac. treat and test the Pictured Cliffs gas interval for productivity.

CARSON UNIT 41-14 P&A GALLUP, RECOMPLETE AS PICTURED CLIFFS GAS WELL

PROCEDURE

- 1. Move in and RU WOR.
- 2. Install and test BOP and safety equipment.
- 3. Pull production equipment.
- 4. Run casing scraper on tubing to ±4950'.
- 5. Run CICR on tubing. Set at ±4790'. Pressure test casing to 1400 psi. Pressure test tubing to 2000 psi.
- 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 exceed 1200 psi with tubing full of cement or 1500 psi while displacing cement.
- reverse circulate one tubing volume with water,
 7. Unsting from retainer, circulate hole clean and pull tubing.
- 8. Run GR-Neutron PDC logs from 1500' to surface (run log on 2"-100' Scale).
- 9. Run BP on wireline and set at 1360'. Fill casing with water.
- 10. Run 3 3/8" Hollow Carrier Hyper Jet II gun and perforate at 1340° w/4 holes (1 foot). Check fluid level before and after perforating.
- 11. Run tubing open ended to 1350'. Fill casing with water while going in hole tarm pure Establish pump-in rate with water. It able to pump in with water spot 35 cubic feet class A cement (cement containing 2% CaCl). Pump cement at low rate (1-1½ 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 circulate 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 at 1290'+ w/4 holes.
- 13. Run CICR on tubing and set at 1280. 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. Coment 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 CBL from PBTD to 8 5/8" csg. sho@ at 210' with 0 psi surface pressure. If bonding across recompletion interval (Pictured Cliffs 1210'-1230') appears questionable, re-run CBL with 1000 psi surface pressure. Contact Houston Engineering if bonding appears doubtful.
- 16. Bail fluid level to 1000'+. Run a 3 3/8" hollow carrier Hyper Jet gun loaded with 27 charges. (Diagram of perf gun is attached) Perforate Pictured Cliffs Interval from 1210' to 1230'. (Depths refer to Schlumberger Electric Log dated 6-1-57)
- 17. Run pkr on tubing and set at 1200'. Swab test well until gas flow is established (if any). Obtain natural flow test if possible, not to exceed 3 hours.
- 18. Pull pkr. and tubing. Run tubing open-ended to 1180'. Use blast joint at top of string. if tubing is old.
- 19. Rig up Dowell and Foam-Frac. R the pictured Cliff down tubing and csg. 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) Flush to perfs with 600 gals. of foam.

70% quality foam.

Total calc. water for frac. treatment is 293 bbls. Total frac. treatment is 41,000 gal. foam with 27,950# 20-40 sd. and 27,950# 10-20 sd.

Est. pumping rate: 17.5 BPM.

Est. wellhead treating pressure: 1250 psi.

- 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.

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 prod. gas.

JTB:MGC 18

Attachments

APPROVED:

Production Superintendent

MAY 7 1976 OIL OOM COM

4/23