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Form C-105  
Revised 1-1-65

# NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease State <input type="checkbox"/> Federal <input type="checkbox"/>
5. State Oil & Gas Lease No. SF 078067

1a. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____										7. Unit Agreement Name Carson Unit	
b. TYPE OF COMPLETION NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER _____										8. Farm or Lease Name R. Mims	
2. Name of Operator Shell Oil Company										9. Well No. 41-14	
3. Address of Operator P. O. Box 831, Houston, Texas 77001										10. Field and Pool, or Wildcat Bisti - Pictured Cliffs	
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>14</u> TWP. <u>25N</u> RGE. <u>12W</u> NMPM										12. County San Juan	
15. Date Spudded 6-11-76		16. Date T.D. Reached -		17. Date Compl. (Ready to Prod.) 6-26-76		18. Elevations (DF, RKB, RT, GR, etc.) 6383' KB		19. Elev. Casinghead			
20. Total Depth 5090'		21. Plug Back T.D. 1252'		22. If Multiple Compl., How Many		23. Intervals Drilled By →		Rotary Tools		Cable Tools	
24. Producing Interval(s), of this completion - Top, Bottom, Name 1210' to 1230' Pictured Cliffs										25. Was Directional Survey Made No	
26. Type Electric and Other Logs Run Gamma Ray - Neutron										27. Was Well Cored No	
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
8 5/8"		24		210'		12 1/4"		130sx			
4 1/2"		9.5		5085'		7 7/8"		150sx			
29. LINER RECORD											
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		30. TUBING RECORD	
None										SIZE 2 3/8	
										DEPTH SET 1185	
										PACKER SET 1185'	
31. Perforation Record (Interval, size and number) 1210' to 1230' .38" 27 evenly spaced holes over interval						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL 1210-1230 AMOUNT AND KIND MATERIAL USED 27,950 # 20/40 sand & foam 27,950 #.10/20 sand & foam					
33. PRODUCTION											
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)									
Date of Test 7-16-76		Hours Tested 3		Choke Size 3/4"		Prod'n. Per Test Period →		Oil - Bbl. 0		Gas - MCF 92	
Flow Tubing Press. 62		Casing Pressure 0		Calculated 24-Hour Rate →		Oil - Bbl. 0		Gas - MCF 737		Water - Bbl. 0	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Vented to pit during test										Test Witnessed By Neil Tefteller	
35. List of Attachments Gamma Ray - Neutron Log, Test data											
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.											
SIGNED <u>R. Plantip</u>						TITLE <u>Division Operations Engr.</u>			DATE <u>APR 19 1977</u>		

## P&amp;A GALLUP &amp; RECOMP IN PICTURED CLIFFS

BISTI FIELD

SHELL OIL COMPANY

LEASE

CARSON UNIT

WELL NO.

41-14

DIVISION

WESTERN

ELEV

6383' KB

FROM: 6/11/76 - 7/22/76

COUNTY

SAN JUAN

STATE

NEW MEXICO

NEW MEXICOBISTI FIELD

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

"FR" TD 5090. PB 5044. AFE #523946 provides funds to P&A Gallup & recomp in Pictured Cliffs. 6/11 MI&RU Drake Well Service #5. Pulled rods.

JUN 11 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 5090. PB 5044. Prep to sqz. Pulled 153 jts 2-3/8 tbg. Ran bit & scraper to 4854. Pmp'd 20 bbls 280 deg oil down tbg @ 1700#. Pmp'd 20 bbls 280 deg hot wtr down tbg. Pmp'd 20 bbls 280 deg hot wtr down 4-1/2 annulus. Pulled tbg & bit. Ran Bkr 4-1/2 CICR to 4790 press test'g every 10 stds to 2000#, ok. Closed pipe rams & press tested 4-1/2 annulus to 1400#, ok. SD for night. 6/13 Est pmp'g rate down tbg into Gallup perms 4872-4975 @ 2 B/M @ 200#. Mixed 150 sx Class A cmt & 4% gel & displ'd down tbg (2 bbls short) @ max press of 500# @ 2 B/M. Pulled out of ret & backwashed tbg vol w/2 bbls cmt. Pulled 21 stds (42 jts); LD 111 jts tbg. No press on valve outside 4-1/2 csg. Prep to RU Schl to log.

JUN 14 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 5090. PB 5044. Prep to sqz. Mixed 2% KCl & 12#/1000 gals CaCl2 in 400 bbls frh wtr. Displ'd w/KCl wtr. Ran GRN/PDC logs from 1500 to 210'. Perf'd w/3-3/8" hollow-carrier Hyper-Jet II gun @ 1340' w/4 3/8" holes. Filled holes w/KCl wtr. Opened csg valve outside 4-1/2 csg. Pmp'd 5 bbls @ 200#; good blow outside 4-1/2 csg. Pmp'd 5 more bbls w/press incr to 400#; indicating rising fluid outside 4-1/2 csg (good blow). Mixed Aquagel (2200# in 80 BW). Set CICR @ 1320. Press'd tbg to 2000#, ok. Pmp'd 30 bbls mud w/good blow @ sfc outside 4-1/2 csg @ 300#. No blow last 5 bbls pmp'd.

JUN 15 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1318. Prep to perf. Est pump rate of 1 bbl per min @ 200# below ret @ 1318 into sqz perms @ 1340. Sli blow outside 4-1/2 csg. Mixed 30 sx Class "A" cmt & 2% CaCl2 (15.6 ppg). Pmp tbg capacity 5 bbls frh wtr ahead of cmt. Max sqz press 200#, min 0. 50# final SIP. Unstung from ret & backwashed tbg clean. Pulled tbg & set'g tool. Sli blow outside 4-1/2 csg during job. Ran Temp Survey. TD 1318. Top of cmt @ 1200.

JUN 16 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1318. Prep to drl cmt. Ran CBL from 1324-1000. 1324-1295 very poor, 1295-1250 no cmt, 1250-1206 very very poor, 1206-1000 no cmt. Reran CBL under 1000# press; no chng in log under press. Perf'd w/3-3/8 hollow-carrier hyper-jet II gun w/4 holes @ 1285 & 1120. Set CICR @ 1256 & tested tbg to 2000#, ok. Est inj rate down tbg 1.5 B/M @ 300#. Pmp'd 27 bbls KC1 wtr down tbg w/circ out 4-1/2 csg. Pmp'd 500 gals 7-1/2% & 2 gals inh'r. Foll'd w/10 bbls KC1 wtr & 15 bbls frh wtr, then 55 sx Class "A" cmt & 1% CaCl2. Press incr'd to 1700. Bled off & repress'd to 1200#. Pmp'd down 4-1/2 annulus 1/2 bbl w/0 press w/no returns. Press'd tbg to 900#; no circ. Unstung from ret. Pmp'd 4 BW down tbg. Bradenhead sqz'd perfs @ 1120 w/3 bbls cmt left in 4-1/2" csg. Had 600# press for 6 mins. Top of cmt @ 1032.

JUN 17 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Prep to drl out CICR. Ran bit & tag'd top of cmt @ 1046. Drld in reverse hard cmt to CICR @ 1256. Installed new Nat'l 4-1/2 tbg hd spool & BOP's. Ran CBL from TD 1258 (Schl meas) to 1000'. 1250-1237 no cmt, 1237-1208 sli indication, 1208-1130 no cmt, 1130-1114 possible cmt, 1114-1106 sli indication & 1106-1000 no cmt. Press test sqz'd holes @ 1120 to 200#; pmp'd in 3 bbls @ 1 B/M. SD for night.

JUN 18 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Prep to recmt. Tag'd Bkr CICR @ 1256. Drld ret; no cmt below ret @ 1256. Ran to 1318 & reverse circ'd hole clean. Ran CBL from 1323; log indicated 1250-1237 no cmt, 1237-1208 very poor, 1208-1130 no cmt, 1130-1114 possible cmt, 1114-1106 sli indication, 1106-1000 no cmt. Ran scraper to 1318 & reverse circ'd hole clean. Ran Bkr pkr. Set in tension 10,000#. Press tested Bkr CICR @ 1318 down tbg to 1000#, ok. Reset pkr @ 1236. Press down tbg w/circ thru perfs @ 1285. Pmp 10 bbls KC1 wtr @ 400# @ 2 B/M. Dowell est inj rate of 2 B/M @ 600#. Pmp'd 27 bbls KC1 wtr down tbg up to 1120'; no circ. Cleared tbg. 6/20 WOC. Pmp'd 26 bbls KC1 wtr down tbg out perfs @ 1285. Full circ; sli blow outside 4-1/2 csg. Pmp'd 250 gals 7-1/2% HCl (inh'd 72 hrs) foll'd w/26 bbls KC1 wtr. Cmt'd w/75 sx Class A cmt & 4% gel & 1% CaCl2 & flocele in last 3 bbls cmt. Max press 300#, min 50. Max rate 2 B/M. Displaced w/4-1/4 bbls wtr. Lost returns. Max press displacing cmt 800# @ 1/4 B/M. Std'g press 500# 5 mins. Bled off press w/no backflow. Pulled ret & tbg.

JUN 21 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Prep to perf. Tag'd cmt @ 1190. Drld hard cmt to 1250. Top of Bkr CICR @ 1250. Reverse circ hole clean. Ran Bkr roto-vent scraper to 1250. Ran CBL from 1252-1000. Log indicated 1244-1237 poor cmt, 1237-1186 fair, 1186-1170 very good, 1170-1132 poor, 1132-1108 good & 1108-1105 fair.

JUN 22 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Prep to swab. Bkr CICR @ 1252. Perf'd w/3-3/8 hollow carrier Hyper Jet II gun @ 1250-51 (4 holes). Set CICR @ 1248. Press'd new sqz'd holes @ 1250 to 650#. Bled to 400# in 5 mins. Press'd to 650# 3 times w/same results. Std'g press 400# in 30 mins. Press'd sqz'd holes @ 1250 to 1200#. Bled to 400# in 9 mins & held. Repeated 3 times w/same results. Std'g press 300#. Unable to sqz cmt into perfs @ 1250. Pulled out of ret. Swab'd FL down to 1000'. Checked FL @ 1010'. Perf'd 1230-1220. 2nd run perf'd 1210-1220 (total 20' & 27 holes). Fair blow of gas after 1st shot. Set pkr @ 1182; good blow of gas after pkr set. FL 950'. First run 60' fluid rise. Made 2 swab runs @ 1180'. Rec'd mud cut KCl wtr. Waited 30 mins & ran swab off btm; repeated 2 times. SI well. SITP 155#. Bled off w/no fluid rec. SI 1 hr - 165#. Bled off w/spray rec. 12-hr SITP 185#. Bled off w/slight spray rec. Making 59 MCF/D.

JUN 23 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Flw'g @ rate of 80 MCF/D. 12-hr SITP 185#. Opened @ rate of 59 MCF/D. FL @ 750. Swab'd @ 1180; rec'd 2-3 bbls KCl wtr. Ran swab for 5 hrs. FL @ 1100. Rec'd 3-4 bbls fluid; gas slightly incr'g. Filled 4-1/2 annulus w/KCl wtr. Acidized Pictured Cliffs 1210-1230 w/500 gals 7-1/2% HCl acid & inh'r w/650# press. Press drop'd to 400#. Avg rate 1/2 B/M @ 400#. Flushed acid w/7 bbls KCl wtr. ISIP 400 psi, 5 mins 100. FL @ sfc. Total load 19 bbls. Swab'd 3 hrs @ 1180; rec'd est 19 bbls load & 1 bbl KCl wtr w/incr'd gas blow.

JUN 24 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Flowing back foam frac. Ran swab & rec'd est 1-1/2 bbls KCL & acid wtr. Foam frac'd Pictured Cliff zone 1210-1230 (27 holes) as per prog. Max TP 2100 psi, min 1800, avg 2000. ISIP 1200 psi, 5 mins 900, 10 mins 800. Opened well to pit 90 mins after SI & rec'd large amt of sd. Sd cut thru chk seat & hyd nip. Replaced chk & cont'd backflow.

JUN 25 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. 6/26 Well flw'g thru 24/64" chk w/75-125# FTP. Rec'd foam frac & sd decreasing. Loaded tbg w/2 bbls KCl wtr. Set 2-3/8" W chk @ 150'. Removed BOP & installed master valve & equip. Retrieved plug chk & hooked up wellhead for continuous flow & cont'd w/foam frac rec. Sd decr'g. 6/27 Flw'g thru 26/64" chk w/100-125 FTP. Released Drake rig 8 a.m. 6/26. Gas burning almost continuously w/good rec of foam frac. 6/28 Flw'g on 26/64" chk. Unable to get gas reading; too much fluid.

JUN 28 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Flw'g on 26/64" chk w/125-150 psi FTP. Still rec'g sd & foam frac.

JUN 29 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. Replacing chk. Well was flw'g thru 26/64" chk w/100-125 TP w/sml sd rec & good foam frac rec. Short test 6/29/76 - 700 MCF/D gas.

JUN 30 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. PB 1212. Prep to jet sd out of hole 1212-1247.  
Checked PB @ 1212. Two ft of perfs open 1210-1212. SI  
well.

JUL 0 1 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. PB 1212. 15-hr SITP 260#. Opened well to pit  
for foam frac rec. Ran 1" CT to 1253. Cleaned up hole  
w/N2. Rec'd sd & mud from 1230-1247. Perfs 1218-1230  
washed out.

JUL 0 2 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. PB 1212. 15-hr SITP 255#. After 28-hr flw last  
4 days, mak'g sml amt foam frac & no sd. 4-hr test 7/5 on  
44/64" chk w/80 psi FTP thru 3/4" plate, prod 662 MCF gas.  
Prep to SI for test.

JUL 0 6 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. PB 1212. SI.  
(Report discontinued until further activity)

JUL 0 7 1976

Carson Unit 41-14  
(P&A Gallup & Recomp  
in Pictured Cliffs)

TD 1258. PB 1212. (RRD 7/7/76) Ran absolute open flow  
(AOF) test on well after being SI 7 days. AOF calculated  
to be 642 MCF/D. Initial press on tbg 224 psi. TP @ end  
of 4-hr flow period was 62 psi. Well SI pending gas conn.  
FINAL REPORT

JUL 2 2 1976