

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla Apache	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ PLUG BACK ☐ REPERFORATE ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Chace Oil Company, Inc.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 313 Washington, S.E., Albuquerque, N.M. 87108		8. FARM OR LEASE NAME Jicarilla 71	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). At surface K Unit 1850' WL, 1850' SL, Sec. 3, T-23-N, R-4-W At top prod. interval reported below Same At total depth Same		9. WELL NO. 2	
14. PERMIT NO.		10. FIELD AND POOL OR WILDCAT Ballard	
DATE INST. 8-29-72		11. SEC., T., R., M. OR BLOCK AND SURVEY OR AREA Sec. 3, T-23-N, R-4-W	
15. DATE LOGGED 8-28-72		12. COUNTY OR PARISH Rio Arriba	
16. DATE LOG REACHED 3100'		13. STATE N.M.	
17. DATE COMPLETION (Ready to prod.) 9-19-72		18. ELEVATIONS (OP. RKB, ET, GR, ETC.)* 7260 GR	
19. ELEV. CASINGHEAD 7262		20. TOTAL DEPTH, MD & TVD 3100'	
21. PLUG BACK TO, MD & TVD 3080		22. INTERVALS COMPLETED HOW MANY* 0-3100	
23. INTERVALS DRILLED BY ROTARY TOOLS		24. PERFORATING INTERVALS OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD)* 2999' - 3020' Pictured Cliffs 3046' - 3062' Pictured Cliffs	
25. TYPE ELECTED AND OTHER LOGS RUN Induction Elec., Gamma Ray, Formation Density, and Bond Log		26. WAS DIRECTIONAL SURVEY MADE Yes	
27. WAS WELL CORED No		28. CEMENTING RECORD (Report all strings set in well)	
29. Casing Size 8-5/8"		29. Casing Weight, LB. FT. 22	
29. Casing Depth Set (MD) 98'		29. Casing Hole Size 12 1/2"	
29. Casing Cement 80 sxs		29. Casing Amount Pulled 80 sxs	
29. Casing Size 4 1/2"		29. Casing Weight, LB. FT. 9.5	
29. Casing Depth Set (MD) 3100'		29. Casing Hole Size 6"	
29. Casing Cement 80 sxs		29. Casing Amount Pulled 80 sxs	
30. LINER RECORD		31. TUBING RECORD	
30. Size 1.5"		31. Depth Set (MD) 3070'	
30. Packer Set (MD) None		32. PERFORATING RECORD (List all size and number) 3004-3024 Pictured Cliffs 3046-3062 Pictured Cliffs 2 shots per foot	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 3004-3062 Broke down w/500 gal acid - water-sand Frac's 39,000 gals		33. PRODUCTION DATE FIRST PRODUCTION 9-21-72 Production Method (Flowing, gas lift, pumping size and type of pump) Flowing Well Status (Producing or shut-in) Shut-in DATE OF TEST 11-6-72 Hours Tested 3 Coke Size 3/4" Prod'n For Test Period 167 Flow, Tubing Press. 47 Casing Press. 170 Calculated 24-hour Rate 1,333 GAS - BBL. 1,333 WATER - BBL. 1,333 OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold - El Paso Natural Gas		35. TEST WITNESSED BY Donald Burton	
36. LIST OF ATTACHMENTS Potential Test and Deviation Test		37. I hereby certify that the foregoing information is complete and correct as determined from all available records	
SIGNED _____		DATE 11-10-72	

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF FORMER ZONES:			GEOLOGIC MARKERS			
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING 28.			28.			
DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			28.			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAN DEPTH	TRUCKYARD DEPTH
Ojo Alamo	2532	2690	Water			
Fruitland	2786	2820	Water			
Pictured Cliffs	2999	3081	Gas			

BURTON DRILLING COMPANY, INC.

DONALD BURTON, President

P. O. BOX 37

CUBA, NEW MEXICO 87029
TELEPHONE 385-774

P. O. BOX 637

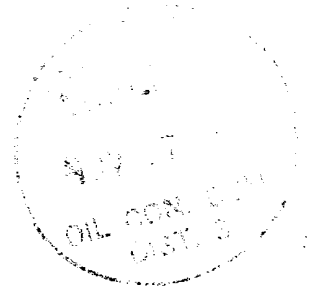
CUBA, NEW MEXICO 87013



Company: Chace Oil Company Inc,
Well: Jicarilla 71 # 2
Location: SW $\frac{1}{4}$ Sec. 3. Twp. 23N Rge. 4W N.M.P.M.

Deviation Tests

Feet	Degrees
100	$\frac{1}{2}$
1075	$\frac{3}{4}$
2197	$1\frac{1}{2}$
2723	$1\frac{1}{2}$
3109	$1\frac{1}{2}$



I hereby swear (or affirm) That the statements made here are a full and correct report.

Donald Burton

State of New Mexico) ss
County of Bernalillo)

The foregoing instrument was acknowledged before me this _____ day of September, 1972, by Donald Burton, as agent for Chace Oil Co. Inc,

George H. [Signature]

My Commission Expires:

January 1974

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122

Revised 12-1-55

Pool Ballard			Formation PC			County Rio Arriba																																																																									
Initial X		Annual		Special		Date of Test 11-6-72																																																																									
Company				Lease Jicarilla 71			Well No. 2																																																																								
Unit	Sec. 3	Twp. 23N	Range 4W		Purchaser EPNG																																																																										
Casing 4 1/2	Wt.	I.D.	Set at 3020		Perf.		To																																																																								
Tubing	Wt.	I.D.	Set at		Perf.		To																																																																								
Gas Flow	From 3004	To 3062	L 3020	G 0.670	GL 2023	Bar. Press. 12.00																																																																									
Producing Through		Casing	Tubing X		Type Well - Single - Braden head - G.G. or G.O. Dual Single																																																																										
Water at Completion		Packer		Reservoir Temp.																																																																											
OBSERVED DATA																																																																															
Tested Through		Prover ☐	Choke ☒	Meter ☐	Type of Taps																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="5">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">DURATION OF FLOW HR.</th> </tr> <tr> <th>No.</th> <th>(Prover) (Line) Size</th> <th>(Choke) (Orifice) Size</th> <th>Press. psia.</th> <th>Diff. h.w.</th> <th>Temp. °F.</th> <th>Press. psig.</th> <th>Temp. °F.</th> <th>Press. psig.</th> <th>Temp. °F.</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>639</td> <td></td> <td>640</td> <td></td> <td rowspan="5"><i>Ways</i></td> </tr> <tr> <td>2.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td>3/4</td> <td>93</td> <td></td> <td>47</td> <td></td> <td></td> <td>170</td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>									FLOW DATA					TUBING DATA		CASING DATA		DURATION OF FLOW HR.	No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psia.	Diff. h.w.	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	1.						639		640		<i>Ways</i>	2.										3.		3/4	93		47			170		4.										5.									
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FLOW CALCULATIONS																																																																															
No.	Coefficient (24 Hour)	$\sqrt{\frac{L}{W} \cdot F_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCF PD @ 15.025 psia																																																																								
1.																																																																															
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3.	12.365		105	1.0127	0.9463	1.000	1244																																																																								
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PRESSURE CALCULATIONS																																																																															
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.					Specific Gravity Separator Gas _____																																																																										
Gravity of Liquid Hydrocarbons _____ deg.					Specific Gravity Flowing Fluid _____																																																																										
F_c _____ (1-e ^{-S})					P_c 652 P_w^2 425,104																																																																										
No.	$\frac{P_w}{P_c}$ psia	$\frac{P_w^2}{P_c^2}$	$\frac{P_w}{P_c}$	$(\frac{P_w}{P_c})^2$	$(\frac{P_w}{P_c})^2 (1-e^{-S})$	$\frac{P_w}{P_c}$	$\frac{P_w^2}{P_c^2} - \frac{P_w^2}{P_c^2}$	Cal $\frac{P_w}{P_c}$	$\frac{P_w}{P_c}$																																																																						
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4.																																																																															
5.																																																																															

ABSOLUTE POTENTIAL: 1.333 MCFPD; n 0.85/1.0718

COMPANY Chace Oil Company

WITNESSED *[Signature]*

ADDRESS 313 Washington, S. E.

COMPANY _____

AGENT AND TITLE *[Signature]*

Agent