

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL ☒	GAS WELL ☐	DRY ☐	Other _____		
b. TYPE OF COMPLETION:							
NEW WELL ☒		WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other _____	
2. NAME OF OPERATOR							
Chace Oil Company, Inc.							
3. ADDRESS OF OPERATOR							
313 Washington, SE, Albuquerque, N.M. 87108							
4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)							
At surface Unit 'F'; 1919' FNL & 2234' FWL							
At top prod. interval reported below							
At total depth							
14. PERMIT NO.							
15. DATE SPUNDED							
5/6/87							
16. DATE T.D. REACHED							
5/16/87							
17. DATE COMPL. (Ready to prod.)							
5/28/87							
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*							
7280' GR							
19. ELEV. CASINGHEAD							
7281'							
20. TOTAL DEPTH, MD & TVD							
7372' KB							
21. PLUG. BACK T.D., MD & TVD							
7325' KB							
22. IF MULTIPLE COMPL., HOW MANY*							
23. INTERVALS DRILLED BY							
0-7372' KB							
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*							
Dakota 'D': 7250-7270' KB Greenhorn: 7025-7041' KB							
Gallup: 5975-6256' KB Dakota 'A' 7098-7108' KB Tocito 6822-6824' KB							
25. WAS DIRECTIONAL SURVEY MADE							
yes							
26. TYPE ELECTRIC AND OTHER LOGS RUN							
Induction and Density							
27. WAS WELL CORED							
no							
28. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
8 5/8"	24 lb/ft	233' KB	12 1/4"	See attached	none		
4 1/2"	11.60 lb/ft	7372' KB	7 7/8"	See attached	none		
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)			
30. TUBING RECORD							
SIZE	DEPTH SET (MD)	PACKER SET (MD)					
2 3/8"	7157.81' KB	None					
S.N. @	7120.80' KB						
31. PERFORATION RECORD (Interval, size, and number)							
See attached							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED					
See attached							
33. PRODUCTION							
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)			WELL STATUS (Producing or shut-in)			
5/29/87	swabbing			Producing			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5/30/87	24 hrs.	2"	→	137	27	47	197
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	475 psi	→	137	27	47	43°	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)						TEST WITNESSED BY	
To be sold						Dale Burns	
35. LIST OF ATTACHMENTS						ACCEPTED FOR RECORD	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records						JUN 03 1987	
SIGNED		TITLE		DATE		6/1/87	
Frank Wilkey		Vice President, Production					

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

FARMINGTON RESOURCE AREA

BY

NMOC

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 POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH TRUE VERT. DEPTH
Ójo Alamo	2500'		Sand - wet		
Pic. Cliffs	2914		Sand- w/ coal and shale strks - gas show		
Chacra	3254		Shale w/ sand streaks - no show		
Cliff House	4416		Sand and shale - tite		
Pt. Lookout	5004		Sand - wet		
Gallup	5685		Sand and shale - oil and gas		
Juana Lopez	6707		Sand and shale - poss. shows		
Greenhorn	7002		Sandy lime + oil and gas shows		
Dakota 'A'	7092		Sand w/ shale strks - oil and gas		
Dakota 'D'	7220		Sand w/ shale strks - oil and gas		
Burro Canyon	7310		Sand - wet		

JICARILLA APACHE 47-25, Attachments:

28. Cementing Record:

8 5/8" Surface casing: 170 sks (200.6 cf) Class B,
1/4lb/sk Flocele, 3% CaCl₂

4 1/2" Production casing: 1st Stage: 850 sks (1215 cf) 50/50 pozmix, 2% gel,
6 1/4 lb./sk Gilsonite, 6 lb./sk salt
2nd Stage: 500 sks (1060 cf) 65/35 pozmix, 6% gel,
12 1/4 lb./sk Gilsonite; tail in with 50 sks (59 cf) Class
B neat

31. Production Record:

Dakota 'D': 7250, 7252, 7254, 7259, 7261, 7265, 7268, 7270 4SPF, 32 holes

Dakota 'A': 7098, 7100, 7102, 7104, 7106, 7108 3SPF, 18 holes

Greenhorn: 7025, 7027, 7029, 7037, 7039, 7041 3SPF, 18 holes

Tocito: 6822, 6824 3SPF, 6 holes

Gallup: 5975, 5977, 5979, 5987, 5989, 6044, 6048, 6054, 6057, 6061, 6063,
6065, 6069, 6093, 6095, 6097, 6099, 6101, 6103, 6105, 6107, 6109,
6111, 6125, 6127, 6129, 6139, 6141, 6143, 6145, 6156, 6158,
6170, 6172, 6182, 6184, 6199, 6201, 6244, 6246, 6248, 6250,
6252, 6254, 6256 2SPF, 90 holes

32. Acid, Shot, Frac:

Dakota 'D': 250 Gal 7 1/2% Acetic Acid
80,000 lbs 20/40 sand
1496 bbls. water

Dakota 'A'
Greenhorn : 300 gal. 7½% Hcl
90,000 lbs. 20/40 sand
Tocito 1543 Bbls. water

Gallup: 400 gal. 7½% Hcl.
125,000 lbs. 20/40 sand
3531 Bbls. water

JICARILLA APACHE 47-25

Completion Report

05/22/87 Move in, rig up Spartan Well Service
Pick up 2 7/8" tubing and 3 7/8" rock bit
Drill out D.V. tool @ 3204' KB
Clean out casing to float collar @ 7325' KB with 233
joints tubing with a 15' stick up
Circulate casing clean
Pull 3 stands of tubing, shut down for weekend

05/26/87

7:00 A.M. Run back in hole with 3 stands tubing
7:15 A.M. Pressure test casing to 4000 psi
Bleed pressure off
7:20 A.M. Circulate casing with 2% Kcl water, 102 bbls.
Lay down 1 joint tubing and 2-4' sub
Spot 250 gal 7½% Acetic Acid from 7272' KB up hole
Trip out of hole with tubing
Rig up wire line
Go in hole with cement bond log and collar locator
Have good cement bond from T.D. to 4500 ft.
Go in hole with perforating gun
1:17 P.M. Perforate Dakota 'D' zone at 7250, 7252, 7254, 7259, 7261,
7265, 7268, 7270 4SPF, 32 holes
1:54 P.M. Break down formation and establish rate
Broke at 2800 psi
Establish rate 44 BPM @ 3500 psi
Shut down
ISIP, 1200 psi
Drop Balls, 2 balls/bbl. for 24 bbls., total, 48 balls
10 BPM @ 1480 psi
All balls away, increase rate to 28 BPM @ 2310 psi
Have good ball action
Have ball off at 3950 psi
Surge balls off perforations
Go in hole with junk basket
Recover 48 balls

Dakota 'D' Frac

2:58 P.M. Start pad 45 BPM @ 3690 psi
3:02 P.M. Gel is crosslinking 42 BPM @ 3820 psi
3:06 P.M. On page 38 BPM @ 3660 psi
3:07 P.M. Start 1 PPG sand, 38 BPM @ 3660 psi
3:09 P.M. 1 PPG sand on formation, 38 BPM @ 3740 psi
3:12 P.M. Start 2 PPG sand, 38 BPM @ 3720 psi
3:14 P.M. 2 PPG sand on formation 39 BPM @ 3560 psi
3:18 P.M. Start 3 PPG sand, 39 BPM @ 3500 psi
3:21 P.M. 3 PPG sand on formation, 39 BPM @ 3450 psi
3:26 P.M. On 3 PPG sand, 39 BPM @ 3420 psi
3:28 P.M. Start 4 PPG sand, 39 BPM @ 3400 psi
3:29 P.M. 4 PPG sand on formation, 39 BPM @ 3400 psi
3:31 P.M. Cut sand, go to flush, 40 BPM @ 3470 psi

Jicarilla Apache 47-25
Completion Report
Page Two

05/26/87 con't.

3:34 P.M. On flush, 39 BPM @ 3450 psi
Shut down
ISIP 2300 psi
Total fluid, 1496 bbls.
Total sand, 80,000 lbs.
5 min. shut in, 2000 psi
10 min. shut in, 1850 psi
Go in hole with Howco Bridge Plug

4:26 P.M. Set Howco Bridge Plug @ 7170' KB

4:45 P.M. Pressure test plug to 4000 psi
Trip in hole with tubing
Spot 300 gal 7½% Hcl from 7108' up hole
Trip out of hole with tubing

8:22 P.M. Perforate Tocito zone @ 6822, 6824 3SPF, 6 holes

8:24 P.M. Perforate Greenhorn zone @ 7025, 7027, 7029, 7037
7039, 7041 3 SPF, 18 holes

8:26 P.M. Perforate Dakota 'A' zone @ 7098, 7100, 7102, 7104, 7106
7108 3SPF 18 holes
Break down formation
Broke @ 900 psi
Establish rate 45 BPM @ 3300 psi
Shut down ISIP, 1100 psi
Drop 3 balls/bbl. for 21 bbls., total of 63 balls
10 BPM @ 1270 psi
Increase rate to 36 BPM @ 2500 psi
Have good ball action
Have ball off at 4000 psi
Surge balls off perforations
Go in hole with junk basket
Recover 63 balls

Tocito, Greenhorn, Dakota 'A' Frac

9:34 P.M. Start pad 45 BPM @ 3130 psi
9:38 P.M. On pad 44 BPM @ 3470 psi
9:41 P.M. Start 1 PPG sand 44 BPM @ 3490 psi
9:43 P.M. 1 PPG sand on formation 44 BPM @ 3450 psi
9:46 P.M. Start 2 PPG sand 45 BPM @ 3390 psi
9:48 P.M. 2 PPG sand on formation 45 BPM @ 3330 psi
9:52 P.M. Start 3 PPG sand 45 BPM @ 3300 psi
9:54 P.M. 3 PPG sand on formation 45 BPM @ 3250 psi
9:59 P.M. Start 4 PPG sand 45 BPM @ 3170 psi
10:01 P.M. 4 PPG sand on formation 45 BPM @ 3150 psi
10:04 P.M. Cut sand, go to flush 47 BPM @ 2880 psi, on flush 47 BPM @ 3020 psi
10:06 P.M. Flush away, Shut down
ISIP 1950 psi
5 min. 1825 psi
10 min. 1800 psi
15 min. 1780 psi

Jicarilla Apache 47-25
Completion Report
Page Three

05/26/87 con't

10:06 P.M. Total sand 90,000 lbs.
Total fluid 1543 Bbls.
Go in hole with Baker Bridge Plug

11:00 P.M. Set plug @ 6343' KB

11:15 P.M. Pressure test plug to 4000 psi

05/27/87 Trip in hole with tubing
Spot 400 gal 7½% Hcl from 6256' uphole
Trip out of hole with tubing
4:00 A.M. Perforate Gallup zone @ 5975, 5977, 5979, 5987, 5989, 6044,
6048, 6054, 6057, 6061, 6063, 6065, 6069, 2 SPF, 26 holes
4:24 A.M. Perforate Gallup zone @ 6093, 6095, 6097, 6099, 6101, 6103,
6105, 6107, 6109, 6111 2 SPF, 20 holes
4:46 A.M. Perforate Gallup zone @ 6125, 6127, 6129, 6139, 6141, 6143,
6145, 6156, 6158, 6170, 6172, 6182, 6184, 6199, 6201, 2 SPF
30 holes
5:16 A.M. Perforate Gallup @ 6244, 6246, 6248, 6250, 6252, 6254, 6256,
2 SPF, 14 holes
5:51 A.M. Break down Gallup perforation
Broke @ 1400 psi
Establish rate 72 BPM @ 3350 psi
Shut down
ISIP 750 psi
Start balls, 4 balls/bbl. for 34 bbls.
Total of 135 balls
Increase rate to 45 BPM @ 1770 psi
5:59 A.M. Balls on formation
Good ball action, pressure up to 4000 psi
Surge balls off perforations
Go in hole with junk basket, recover 134 balls

Gallup Frac

6:59 A.M. Start pad 84 BPM @ 3700 psi
7:06 A.M. Start 1/2 PPG sand 82 BPM @ 3680 psi
7:08 A.M. 1/2 PPG sand on formation 82 BPM @ 3720 psi
7:09 A.M. Start 1 PPG sand 82 BPM @ 3680 psi
7:10 A.M. 1 PPG sand on formation 83 BPM @ 3640 psi
7:17 A.M. Frac line parted
Shut down
ISIP 450 psi
Repair line
7:24 A.M. Start pumping 62 BPM @ 3850 psi
7:28 A.M. On 1 PPG sand 56 BPM @ 3720 psi
7:33 A.M. On 1 PPG sand 58 BPM @ 3720 psi
7:34 A.M. Start 1 1/2 PPG sand 59 BPM @ 3580 psi
7:36 A.M. 1 1/2 PPG sand on formation 61 BPM @ 3510 psi

Jicarilla Apache 47-25
Completion Report
Page Four

05/26/87 con't.

7:42 A.M. On 1 1/2 PPG sand 65 BPM @ 3590 psi
7:47 A.M. On 1 1/2 PPG sand 66 BPM @ 3210 psi
7:53 A.M. On 1 1/2 PPG sand 65 BPM @ 3270 psi
7:55 A.M. Cut sand, go to flush 65 BPM @ 3340 psi
7:57 A.M. Flush away, shut down
ISIP 1100 psi
5 min. 325 psi
10 min. 300 psi
15 min. 300 psi
Total sand, 125,000 lbs.
Total water, 3531 bbls.

11:00 A.M. Open well up, Flow Gallup back
Trip in hole with tubing and retrieving head
Wash 256 ft. frac sand off bridge plug
Release bridge plug, trip out of hole with plug
Trip in hole with tubing string, float and Howco super mill
Drill up Howco Drillable Bridge Plug
Clean out casing to float collar @ 7325'KB
Land 227 joints of production tubing
Seating nipple @ 7120.80' KB with a 4' perforated
sub and a 32.51 ft. tail joint below seating nipple
End of tubing at 7157.81' KB