

Form 9-330
(Rev. 5-63)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

5. LEASE, PLAT, SECTION AND SERIAL NO.

6. IF INDIAN, NAME OF TRIBE NAME

7. UNIT ACREMENT

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

12. COUNTY OR PARISH
San Juan13. STATE
NM

19. ELEV. CASINGHEAD

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE

27. WAS WELL CORED

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 Reenter old well

2. NAME OF OPERATOR

Bco, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 669 Santa Fe, N.M. 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 1650' FNL 1650' FEL

At top prod. interval reported below SAME

At total depth SAME

14. PERMIT NO.

DATE ISSUED

U. S. GEOLOGICAL SURVEY

FARMINGTON, N. M.

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, ET, GR, ETC.)*

20. TOTAL DEPTH, MD & TVD

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5079-5320 Gallup

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray-Neutron (Schlumberger & Go) cement logs

28. CASING RECORD (Report all strings set in well)

29. LINER RECORD

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

DATE

5-18-71

V.P.

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 land or State office. See Instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

and/or State office. See instructions on items 22 and 24, and 26, below regarding separately reported data. 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, 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.

Item 19: 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.

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Item 23: "*Stacks 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: *Submits 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, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	NAME	MEAS. DEPTH
DESCRIPTION, CONTENTS, ETC.		TRUE VERT. DEPTH	
See report filed when well was drilled			

HALLIBURTON SERVICES

JOB SUMMARY

HALLIBURTON
DIVISION

Midland

HALLIBURTON
LOCATION

Farmington

BILLED ON
TICKET NO.

291978

FORM 2012

WELL DATA

WELL: **Wildcat** SEC: TWP: RNG: COUNTY: **San Juan** STATE: **N.M.**
 FORMATION NAME: **Gallup** TYPE: **5079** TO: **5320**
 FORMATION THICKNESS: FROM: TO:
 INITIAL PROD. OIL: BPD. WATER: BPD. GAS: MCFD
 PRESENT PROD. OIL: BPD. WATER: BPD. GAS: MCFD
 COMPLETION DATE: MUD TYPE: MUD WT.
 PACKER TYPE: SET AT:
 BOTTOM HOLE TEMP: PRESSURE:
 MISC. DATA:

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING	new	4 1/2	0	5408	10.5	4000
LINER						
TUBING						
OPEN HOLE						
PERFORATIONS			5079	5320	54	SHOTS: 11
PERFORATIONS						SHOTS: 11
PERFORATIONS						SHOTS: 11

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
5-14-71	0400	0700	0837	0902			

PERSONNEL AND SERVICE UNITS

NAME	EMPL. NO.	UNIT NO. & TYPE	LOCATION
Pulte		4 HT-400	Farmington
Isbell		1 Blender	
Sheppard IM		1 Acid	
		4 Sand	

TYPE AND SIZE	QTY.	MAKE
FLAT COLLAP		
FLAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID: **Water** DENSITY: LB/GAL. °API
 DISPL. FLUID: **Water** DENSITY: LB/GAL. °API
 PROP. TYPE: **Sand** SIZE: **20-40** LB: **100,000**
 PROP. TYPE: SIZE: LB:
 ACID TYPE: **Reg.** GAL: **3000** %: **28%**
 ACID TYPE: GAL: %:
 ACID TYPE: GAL: %:
 SURFACTANT TYPE: **Morflo** GAL: **85** IN: **85,000**
 NE AGENT TYPE: GAL: IN:
 FLUID LOSS ADD. TYPE: GAL. LB. IN:
 GELLING AGENT TYPE: GAL. LB. IN:
 FRIC. RED. AGENT TYPE: **FR-16** GAL. LB. **175** IN: **85,000**
 BREAKER TYPE: GAL. LB. IN:
 BLOCKING AGENT TYPE: **RCN 7/8"** GAL. LB. **50**
 PERFPAC BALLS TYPE: **KC1 1% 73 sacks** QTY.:
 OTHER:
 OTHER:

DEPARTMENT: **Cementing**

DESCRIPTION OF JOB: **Sandwater Frac**

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG/ANN. ☐

CUSTOMER REPRESENTATIVE: **X /s/ J. A. Flint**

HALLIBURTON
OPERATOR

Pulte

COPIES
REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.

SUMMARY

PRESSURES IN PSI

CIRCULATING: **3600**
 BREAKDOWN: **1900** MAXIMUM: **3600**
 AVERAGE: **2500** FRACTURE GRADIENT: **700**
 SHUT-IN INSTANT: **800** 5-MIN.: 15-MIN.:
 HYDRAULIC HORSEPOWER: **4105**

AVERAGE RATES IN BPM

TREATING: **68** DISPL: **46** OVERALL: **67**

CEMENT LEFT IN PIPE

FLEET: REASON:

VOLUMES

Acid
 PREFLUSH: BBL. GAL. **3000** TYPE:
 LOAD & BKDN: BBL. GAL. **2800** PAD: BBL. GAL.
 TREATMENT: BBL. GAL. **66,310** DISPL. BBL. GAL. **4000**
 CEMENT SLURRY: BBL. GAL.
 TOTAL VOLUME: BBL. GAL.

REMARKS

CUSTOMER
B.C.O., INC.

LEASE

D

WELL NO.

JOB TYPE

Sandwater

DATE
5-14-71

JOB LOG

CUSTOMER B.C.O., Inc.

PAGE NO 1

JOB TYPE Sandwater Frac

DATE 5-14-71

FORM 2013

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
			800					Load hole
			1500					Breakdown
								Run 3000-gal 20% Acid
			2800					Establish rate
	0837	46	3		8		2900	Start sand at 1#
	0838	64	3000		8		2100	Sand at 1 1/2#
	0840	67	10000		8		2200	Treating
	0842	71	16000		8		2300	Treating
	0845	70	25200		8		2300	Drop 10 balls
	0846	68	28300		8		2400	Balls hit
	0849	69	38000		8		2350	Drop 10 balls
	0850	67	41600		8		2500	Balls hit
	0855	68	51900		8		2500	Drop 10 balls
	0856	67	55500		8		2600	Balls hit
	0857	67	57700		8		2600	Drop 10 balls
	0858	60	61300		8		2800	Balls hit
	0900	61	64900		8		2800	Drop 10 balls
	0901	61	66300		8		2800	Start flush
	0901	44	2100		8		3600	Balls hit
	0902	46	4000		8		3600	Job completed

