

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

NM-6681

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal C

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

31-23N-7W

12. COUNTY OR PARISH

Sandoval

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL ☒ GAS ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ Other Re-enter 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 660' FSL 660" FEL

At top prod. interval reported below SAME

At total depth SAME

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

4-23-71

17. DATE COMPL. (Ready to prod.)

5-14-71

18. ELEVATIONS (DF, REB, RT, GR, ETC.)*

6821 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

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

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

4706-4958 Gallup

25. WAS DIRECTIONAL SURVEY MADE
Made when well initially drilled

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray Neutron (Schlumberger & Dresser) Cement logs

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
Surface	?	?	?	?	NONE
4 1/2"	10.5	5180	7 7/8"	175 sacks H.L. 10% gel 3% salt 12 1/2 #'s gilsonite	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	4942	

31. PERFORATION RECORD (Interval, size and number)

One shot per foot:

4706-12

Two shots per foot:

4820-28; 4896-4906; 4914-18;

4952-58

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Perforated 5050 Pressured up good cement	
Pl 4 1/2 plug set at 5030'	
Ran 500 gals. 15% acid, set over night	
Broke down ran 3000 gals. 28% acid. SWF	

33.* PRODUCTION w/ 51560 water & 75,000 20-40 sand

DATE FIRST PRODUCTION

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or shut-in)

Flowing

Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

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

TEST WITNESSED BY

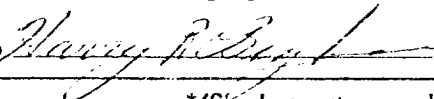
Vented until economics can be studied

35. LIST OF ATTACHMENTS Potential to be called in by J. Flint when taken.

Logs to be sent when final prints received. Copy of Halliburton frac report.

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

SIGNED



TITLE

Vice President

DATE

5-18-71

*(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 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			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
SEE INITIAL REPORT FILED WHEN WELL WAS DRILLED						

HALLIBURTON SERVICES JOB SUMMARY

HALLIBURTON
DIVISION

Midland

HALLIBURTON
LOCATION

Farmington

BILLED ON
TICKET NO

281976

FORM 2012

WELL DATA	31	23	7	Sandoval	N.M.
FIELD	Wildcat	SEC		COUNTY	STATE
FORMATION NAME	Gallup	TYPE			
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					

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT 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. 75,000
PROP. TYPE	Reg.	SIZE	3000	LB. 28%
ACID TYPE		GAL.		%
ACID TYPE		GAL.		%
ACID TYPE		GAL.		%
SURFACTANT TYPE		GAL.		IN
NE AGENT TYPE	Morflo II	GAL.	60	IN 60,000
FLUID LOSS ADD. TYPE		GAL. LB.		IN
GELLING AGENT TYPE		GAL. LB.		IN
FRIC. RED. AGENT TYPE	FR16	GAL. LB.	125	IN 62,000
BREAKER TYPE		GAL. LB.		IN
BLOCKING AGENT TYPE		GAL. LB.		IN
PERFPAC BALLS TYPE	RCN	QTY.	55	
OTHER				
OTHER				

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	1700	DISPLACEMENT	3200
BREAKDOWN	2500	MAXIMUM	
AVERAGE	850	FRACTURE GRADIENT	750
SHUT-IN INSTANT		5-MIN.	15-MIN.
ORDERED		AVAILABLE	USED 4044
TREATING	66 1/2	DISPL.	60
		OVERALL	66
		CEMENT LEFT IN PIPE	

VOLUMES

PREFLUSH: BBL. GAL.	3000	TYPE	acid
LOAD & BKDN: BBL. GAL.	1500	PAD: BBL. GAL.	
TREATMENT: BBL. GAL.	51,560	DISPL: BBL. GAL.	4000
CEMENT SLURRY: BBL. GAL.			
TOTAL VOLUME: BBL. GAL.	57,060		

REMARKS

CUSTOMER

B.C.O. Inc.

LEASE

WELL NO

1

JOB TYPE

Sandwater

DATE

5-11-71

JOB LOG

CUSTOMER B.C.O., Inc.

PAGE NO 1

JOB TYPE Sandwater

DATE 5-11-71

FORM 2013

CHART NO.	TIME	RATE (UPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Start pumping 28% Acid
								100 pressure
		3	800		1		1700	Breakdown
								Drop remaining acid
			3000					Establish rate
	1240	47	0		8		3200	Start sand at 1#
	1240	60			8		2400	Acid on formation
	1241	68			8		2300	Sand at 1 1/2#
	1245	68			8		2300	Treating
	1247	70	17000		8		2400	Drop 10 balls
	1248	68	20300		8		2450	Balls hit
	1250	68	26600		8		2450	Drop 10 balls
	1251	66	30000		8		2500	Balls hit
	1253	66	35000		8		2500	Drop 15 balls
	1254	64	38300		8		2600	Balls hit
	1256	64	41800		8		2600	Drop 10 balls
	1257	61	45000		8		2750	Balls hit
	1258	62	46800		8		2700	Drop 10 balls
	1259	58	50200		8		3000	Balls hit
	1259 1/2	58	51560		8		3000	Start flush
	1301	58	3000		8		3000	Job completed

