

Form 10
Rev. 5-63)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 _____				5. LEASE DESIGNATION AND SERIAL NO. NM-03595	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR BCO, Inc.				7. UNIT AGREEMENT NAME Escrito Gallup	
3. ADDRESS OF OPERATOR P. O. Box 669 Santa Fe, New Mexico 87501				8. FARM OR LEASE NAME Escrito Gallup Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal laws): At surface 1650' FWL 990' FSL Sec. 18 T24N R7W At top prod. interval reported below Same At total depth Same				9. WELL NO. 20 (Elizabeth 6)	
14. PERMIT NO.				10. FIELD AND POOL, OR WILDCAT Escrito Gallup	
15. DATE SPUDDED 4-22-75				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA 18-24N-7W N.M.P.M.	
16. DATE T.D. REACHED 5-2-75				12. COUNTY OR PARISH Rio Arriba	
17. DATE COMPL. (Ready to prod.) 5-9-75				13. STATE New Mexico	
18. ELEVATIONS (DF, R&B, RT, GR, ETC.)* 7078 GR				19. ELEV. CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 5990		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY →				ROTARY TOOLS X	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5679-5886 Gallup				25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN Mud Log, Borehole Compensated Sonic-Gamma Ray & Dual Induction Laterolog				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	24.70	140	12 1/4	100 Sacks Class A	
4 1/2	11.50	5990	7 7/8	2 Stage-see attached Dowell report 1093 sacks Class B	
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	5886				
31. PERFORATION RECORD (Interval, size and number)					
2 SPF 5679-83; 5733-35; 5743-53; 5774-78; 5870-86					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)			AMOUNT AND KIND OF MATERIAL USED		
5679-5886			1500 gallons 15% acid 56200 gallons & 72,000 #'s 10-20 sand per attached Halliburton treat report		
33.* PRODUCTION					
DATE FIRST PRODUCTION 5-9-75		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flow			WELL STATUS (Producing or shut-in) Producing
DATE OF TEST 5-21-75	HOURS TESTED 24	CHOKE SIZE Open	PROD'N. FOR TEST PERIOD →	OIL—BBL. 34	GAS—MCF. 102
WATER—BBL. 3-Frac		GAS-OIL RATIO 3000			
FLOW. TUBING PRESS. 260	CASING PRESSURE 500	CALCULATED 24-HOUR RATE →	OIL—BBL. Same	GAS—MCF. Same	WATER—BBL. Same
OIL GRAVITY-API (CORR.) 40					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Will be sold prior to 7-1-75					TEST WITNESSED BY H. L. Bigbee
35. LIST OF ATTACHMENTS Dowell cement report, Halliburton frac report, Borehole coempensated sonic-gamma log, Dual Induction Laterolog, Mud log, deciation statement.					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records					
SIGNED <i>Harry R. Bigbee</i>		TITLE President		DATE 5-27-75	

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

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 ACT. DILAT-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

[illegible]

CEMENTING SERVICE REPORT



TREATMENT NUMBER 15-06-9285	STAGE 1	COWELL DISTRICT Farmington	DATE 5/3/75
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NAME AND NO. <i>East Unit</i> Elizabeth #6 #20	LOCATION-POOL-FIELD Sec 18 24N 7W
OPERATOR Corito Gallup #20	COWELL REPRESENTATIVE K. L. Jones
CITY Rio Arriba	STATE New Mexico

NAME B.C.O. Inc.

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS
Pump 10 bbls CW7 chemical wash ahead of each stage

RIG NAME: Coleman Drilling Co.				
WELL DATA				
HOLE SIZE 7 7/8	CASING OR LINER	A	B	C
DEPTH 5990	SIZE-WEIGHT 42.11	11.6#		
☒ ROT ☐ CABLE	TOP 5997'			
BHST	BOTTOM 155			
BHLT	GRADE & THREAD 8rd			
BHCT	CAPACITY .0155			
MUD: TYPE Gel Mud		WT.	VISC.	
STAGE FLOAT	TYPE Baker	STAGE TOOL	TYPE Baker	
	DEPTH 5965		DEPTH 3238'	
	TYPE Baker		TYPE Stage Colla	
	DEPTH 5990'		DEPTH	
☐ TBG ☐ D.P.	HEAD & PLUGS	SQUEEZE JOG		
SIZE	☐ DOUBLE	TOOL	TYPE	
WEIGHT	☐ SINGLE		DEPTH	
GRADE	☐ SWAGE	TAIL PIPE:	IN.	FT.
THREAD	☐ KNOCKOFF	PERF INTERVAL	FT.	
☐ NEW ☐ USED	TOP ☐ R ☐ W	TO		
DEPTH	BOT ☐ R ☐ W	TO		
CAPACITY	OTHER Baker	TO		

PSI BUMP PLUG TO 1500 PSI MIN

☐ ROTATE ☐ RECIPROCATE ☐ CENTRALIZERS NO 15

TIME	PRESSURE		VOLUME PUMPED	INJECT. RATE	SERVICE LOG DETAIL
	TBG. OR D.P.	CASING			
1915					Safety meeting and rig up equipment
0030					5/3/75 Rig up to Bakers cement ahead
0045					Rig circulating well with mud
0120					Change line over to pump truck
0125		200		3	Pump 10 bbls CW7 chemical wash ahead
0128		200	10	6	Start mixing and pump cement
					65/35 poz mix 103 bbls slurry
0145			113	6	Start 50/50 poz mix 52.7 bbls slurry
0152		200	165		Cut cement wash lines
0155		200		6	Drop plug and start displacement
					42 bbls water and 50 bbls mud
0215		1500	257		Plug down displacement complete
					Release pressure float holding ok
0230					Baker Co. man dropped bomb to open tool
0245		1000	1/2	1/2	Pressure up on tool open ok

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU.FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					VOL.	WT.
1.	290	2.00	Class B 65/35 poz 12% gel 1% Calcium chloride and		578	12.6#
2.			5# Kolite/sk 1/8# D29/sk		296	13.5#
3.	235		Class B 50/50 poz 2% gel 0.5% D-60			
BREAKDOWN FLUID		WT.	SACKS MIXED 525	PUMPED 525	PRESSURE MAX: 1500	MIN: 200
☐ HESITATION SO.		☐ RUNNING SO.	CIRCULATION LOST	☐ YES ☒ NO	CEMENT CIRCULATED TO SURF.	☐ YES ☒ NO
BREAKDOWN PSI FINAL		PSI			CEMENT LEFT IN PIPE:	25 FT
WASHED THRU ☐ YES ☐ NO		TO	FT	MEASURED ☒ DISPLACEMENT ☐ WIRELINE	☒ AS PLANNED ☐ UNAVOIDABLE	
TYPE OF	☒ OIL ☐ STORAGE ☐ BRINE/WATER ☐ WILDCAT	CUSTOMER REPRESENTATIVE Harry Bigbee		DOES CUSTOMER CONSIDER SERVICE: ☐ SATISFACTORY ☐ UNSATISFACTORY ☐ UNKNOWN		

CEMENTING SERVICE REPORT

LWE-20000 PRINTED IN U.S.A.

TREATMENT NUMBER

15-06-2385

STAGE

2

COWELL DISTRICT

Farmington

DATE

5/3/75

WELL NAME AND NO.

Elizabeth #6

LOCATION-POOL-FIELD

Sec 18 24N 7W

RIG NAME:

Coleman Drilling Co.

FORMATION

Escrito Gallup #20

DOWELL REPRESENTATIVE

K.L. JONES

COUNTY

Rio Arriba

STATE

New Mexico

NAME B.C.O. Inc.

AND

Page 2

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

#2 Stage

PRESSURE LIMIT

PSI

BUMP PLUG TO

PSI

MIN

☐ ROTATE

RPM

☐ RECIPROCATE

FT

☐ CENTRALIZERS NO☐ TBG ☐ D.P.

HEAD & PLUGS

SQUEEZE JOB

SIZE

☐ DOUBLE

J

TYPE

WEIGHT

☐ SINGLE

DEPTH

GRADE

☐ SWAGE

TAIL PIPE:

IN.

FT.

THREAD

☐ KNOCKOFF

PERF INTERVAL

FT.

☐ NEW ☐ USEDTOP ☐ R ☐ W

TO

DEPTH

BOT ☐ R ☐ W

TO

CAPACITY

OTHER Baker

TO

ARRIVED ON LOCATION

TIME: 1900

DATE: 5/2/75

LEFT LOCATION

TIME: 0730

DATE: 5/3/75

TIME

PRESSURE

VOLUME

JOB SCHEDULED FOR

TIME: ASAP

DATE: 5/2/75

INJECT.
RATE

SERVICE LOG DETAIL

TIME	TBG. OR D.P.	CASING	VOLUME PUMPED	INJECT. RATE	SERVICE LOG DETAIL
0600					Change over from rig pump to pump truck for 2nd stage
0605		200		3	Pump 10 bbls CW7 chemical wash ahead
0608		200	10	6	Start mixing and pumping cement
			128.5		65/35 poz mix 118.5 bbls slurry
0630		200		6	Start 50/50 poz mix 52.7 bbls slurry
0640			181		Cut cement wash lines
0643				6	Drop plug and start displacement 50 bbls
0655		3000	231		Plug down displacement complete
					Release pressure holding ok
0700					Rig down equipment wash cementer
					Co. man released equipment
0730					Leave location

REMARKS

SYSTEM
CODENO. OF
SACKSYIELD
CU.FT./SK

COMPOSITION OF CEMENTING SYSTEMS

SLURRY MIXED

VOL.

WT.

1.	333	2.00	Class B 65/35 poz 12% gel 1% Cal. Chlo. and 5#		
2.			Kolite/sk 1/8# D60/sk	666	12.6
3.	235	1.26	Class B 50/50 poz 2% gel 0.5% D60	296	13.5

BREAKDOWN FLUID	WT.	SACKS MIXED	568	PUMPED	568	PRESSURE MAX:	3000	MIN:	200	
☐ HESITATION SQ.	☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO			CEMENT CIRCULATED TO SURF.		☐ YES ☒ NO		
BREAKDOWN	PSI	FINAL	PSI			CEMENT LEFT IN PIPE:		none FT		
WASHED THRU	☐ YES ☐ NO	TO	FT	MEASURED	☒ DISPLACEMENT ☐ WIRELINE	☐ AS PLANNED ☐ UNAVOIDABLE				
TYPE OF WELL	☒ OIL ☐ STORAGE ☐ BRINE/WATER ☐ GAS ☐ INJECTION ☐ WILDCAT	CUSTOMER REPRESENTATIVE			DOES CUSTOMER CONSIDER SERVICE:					
						☒ SATISFACTORY ☐ UNSATISFACTORY ☐ UNKNOWN				

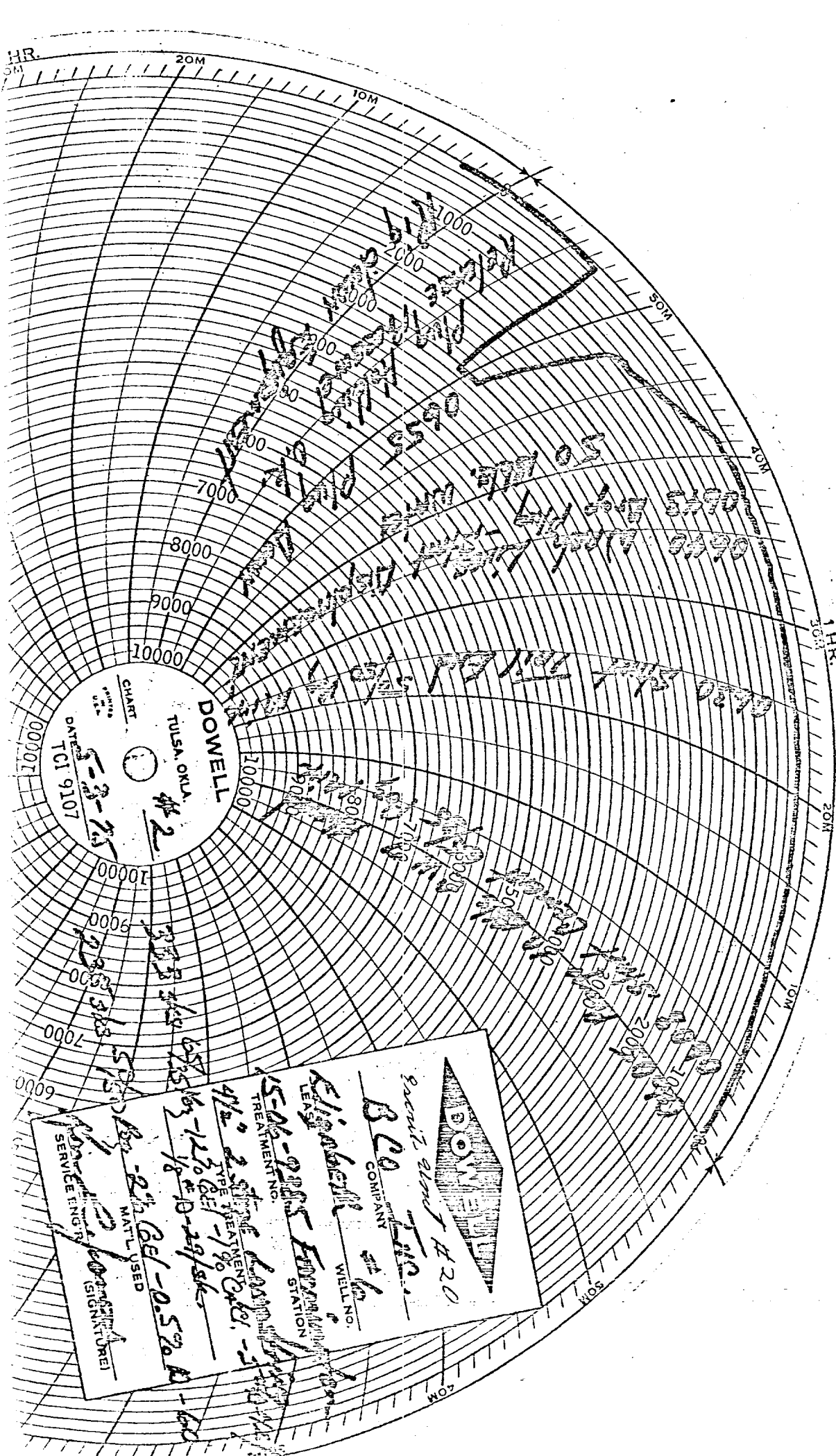


CHART
TULSA, OKLA.
DOWELL
#2
DATE 5-3-75
TCL 9107

DOWELL #20
B Co COMPANY
WELL NO. 10
TREATMENT NO. 15-06-9005
STATION 412
DATE 12/10/80
SIGNED [Signature]
SERVICE ENGINEER

HALLIBURTON SERVICES

JOB SUMMARY

HALLIBURTON
DIVISION

Midland

HALLIBURTON
LOCATION

Farmington

BILLED ON 788528
TICKET NO.

FORM 2012 N-1

WELL DATA

FIELD SEC. 18 TWP. 24N RNG. 7W COUNTY Rio Arriba STATE NM

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

	NEW USED	SIZE	FROM	TO	WEIGHT	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING						
OPEN HOLE			5678-1682			TOTAL DEPTH:
PERFORATIONS			5782-5730			SHOTS/FT.
PERFORATIONS			5742-5752			SHOTS/FT.
PERFORATIONS			5772-5776			SHOTS/FT.
PERFORATIONS			5878-5885			SHOTS/FT.

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
5-8-75	0430	ON LOCATION	0330	JOB STARTED	1030	JOB COMPLETED	1555

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Fury		
Fulte	3 RT-400	Farmington
Willinger	1 Blender	
Er-Davis	1 Acid	
	3 Sand	

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 DENSITY LB/GAL. API

PROP. TYPE Sand SIZE 10-20 LB. 72,000

PROP. TYPE SIZE LB.

ACID TYPE HDA GAL. 1500 % 15

ACID TYPE GAL. %

ACID TYPE GAL. %

SURFACTANT TYPE GAL. IN

NE AGENT TYPE Ionflo GAL. IN

FLUID LOSS ADD. TYPE Adomite Aqua LB. 100 IN

GELLING AGENT TYPE EG-6 GAL.-LB. 900 IN 60,000

FRIC. RED. AGENT TYPE GAL.-LB. IN

BREAKER TYPE GAL.-LB. IN

BLOCKING AGENT TYPE GAL.-LB.

PERFPAC BALLS TYPE QTY.

OTHER KCl in water - 2%

OTHER Irth.

DEPARTMENT Cementing

DESCRIPTION OF JOB Sandwater Frac

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

CUSTOMER REPRESENTATIVE X /s/ Harry L. Bigbee

HALLIBURTON OPERATOR Fury COPIES REQUESTED

CEMENT DATA

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

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING Lower 2800 DISPLACEMENT 3200

BREAKDOWN Upper 1500 MAXIMUM 3200

AVERAGE 2570 FRACTURE GRADIENT

SHUT-IN: INSTANT 1500 5-MIN. 1300 15-MIN. 1125

HYDRAULIC HORSEPOWER

ORDERED 3000 AVAILABLE 3500 USED 3100

AVERAGE RATES IN BPM

TREATING 50 DISPL. 81 OVERALL 50

CEMENT LEFT IN PIPE

FEET REASON

CUSTOMER

PREFLUSH: BBL-GAL. TYPE

LOAD & BKDN: BBL-GAL. PAD: BBL-GAL. 6000

TREATMENT: BBL-GAL. 56,200 DISPL: BBL-GAL. 5816

CEMENT SLURRY: BBL-GAL.

TOTAL VOLUME: BBL-GAL. 67,216

REMARKS

CUSTOMER ICO, Inc.

LEASE Proprio Gallup Well No. 20

JOB TYPE SUMMARY

DATE 5-8-75

FORM 2013 R-1

[illegible]

CUSTOMER

Circulate hole

B.C.O., INC.

Elizabeth 20

Escrito Gallup Unit

Ticket 788528

May 8, 1975

Spot acid & flush

Flush acid

Breakdown

Acid down tubing

HALLIBURTON CO.

Shut down - wait on acid &
Breakdown

Pump pad

Pressure

Flowrate

Start sand @ 3/4#

Sand at 1 1/4#

Treating

Sand at 1 1/2#

Sand on perforations

Drop 20 balls

Balls hit

Treating

Drop 10 balls

Balls hit

BCO, Inc.

OIL WELL OPERATOR
AND
TRUCKING DIVISION

AREA CODE 505
932-4611

SANTA FE, N. M. 87501

P. O. BOX 669

May 27, 1975

TO: Whom It May Concern

RE: Deviation tests Escrito Gallup Unit #20 (Elizabeth #6)
Lease # NM-03595 1650' FWL 990' FSL Sec. 18 T24N R7W
N.M.P.M.

I hereby certify to the best of my knowledge and belief, that the following are the results of deviation tests taken on the above well.

<u>Depth</u>	<u>Degrees</u>
1822	1 1/2
3003	1/4
3558	1
3990	1
4684	1
5320	1/4
5657	1




HARRY R. BIGBEE
President

7 Copies attached to Form 9-330
7 Copies attached to Form C-104