Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
91 MAR -6 PM 1:55
070 FARMINGTON, N.M.

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: BCO, Inc.

3. ADDRESS OF OPERATOR: 135 Grant, Santa Fe, NM 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 960' FNL & 865' FEL A

RECEIVED
APR 08 1991
OIL CON. DIV.
DIST. 3

5. LEASE DESIGNATION AND SERIAL NO.: NM-8005

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal D

9. WELL NO.: 4

10. FIELD AND POOL, OR WILDCAT: South Bisti Gallup Ext

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 10 T23N R9W NMPM

12. COUNTY OR PARISH: San Juan

13. STATE: NM

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 6893'

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Cement Long String			[XX]
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

2/20/91 - 2/25/91 Drilled 7 - 7/8" hole to 5130'. Bits were run as follows:

Bit #	Bit Size	Type	Date Out	Depth Out	Rotation Hours	Feet Drilled	Avg/ Hour	Deviation
1	12 1/4	OSC1G	2/20	3760	3 3/4	370	99	1/2°
2	7 7/8	L-126	2/21	2275	17 1/4	1905	110	1°
3	7 7/8	L-126	2/22	3327	18 1/2	1052	57	2°
4	7 7/8	J-225	2/25	5130	62 1/2	1803	29	1 3/4°

February 25, 1991 Ran Induction Guard Log and Dual Compensated Porosity Log. Great Guns Logging will mail two copies of each log to the BLM and one copy to the OCD.

February 26, 1991 Advised answering machine of the BLM at 1:20 a.m. that we intend to start cementing long string on this well between 11:00a.m. and 1:00p.m. on February 26, 1991.

18. I hereby certify that the foregoing is true and correct

SIGNED Elizabeth B. Keeshan TITLE President DATE 3/1/91

(This space for Federal or State office use)

ACCEPTED FOR RECORD

APPROVED BY _____ TITLE _____ DATE MAR 06 1991

CONDITIONS OF APPROVAL, IF ANY:

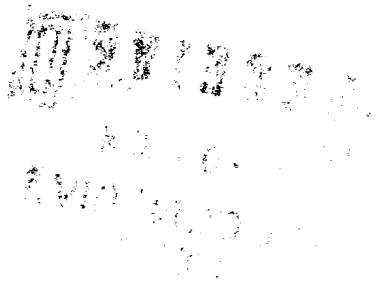
NMOCD

FARMINGTON RESOURCE AREA

BY _____

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the



Operator: BCO, Inc.
135 Grant Avenue
Santa Fe, New Mexico 87501

SUNDRY NOTICES AND REPORTS ON WELLS

Lease No: NM 8005

2/26/91 Ran 4967 ' of 11.6# J-55 4-1/2" casing. Ran 145 ' of 11.6# N-80 4-1/2" casing at surface, landed at 5124 '. Set DV tool at about 3925 '. Pumped 20 barrels mud flush and 2 barrels fresh water spacer. The lead cement of the first stage was 50 sacks Class "G" cement mixed with 8#'s Salt per sack, 6-1/4#'s Gilsonite per sack, 1/2# Flocele per sack mixed at 15.2#'s with a yield of 1.377 cubic feet per sack or 69 cubic feet (about 12 barrels slurry). The remainder of the first stage cement was 280 sacks Class "G" cement mixed with 2% $CaCl_2$, 8#'s Salt per sack, 6-1/4#'s Gilsonite per sack, 1/2# Flocele per sack mixed at 15.2 #'s with a yield of 1.377 cubic feet per sack or 386 cubic feet (about 69 barrels slurry). Pumped plug. Plug did not bump. Opened DV tool and broke circulation. Circulated for 4 hours to allow first stage cement to set up. Circulated 15 barrels of slurry so top of first stage is at DV tool. Pumped 5 barrels water, pumped 10 barrels $CaCl_2$ water, pumped 10 barrels water spacer, pumped 20 barrels Superflush 102, washed out pumps and lines, pumped 10 barrels water. Pumped 810 sacks of Class "G" 50/50 PozMix mixed with 2% Gel, 2% KCL by weight of water and 12 pounds Gilsonite per sack at 12.8#'s with a yield of 1.46 cubic feet per sack or 1183 cubic feet (approximately 211 barrels of slurry). Pumped plug. Plug bumped and DV tool closed. DV held. Circulated 37 barrels of slurry to pit.

Attached is copy of Halliburton job log. Intend to complete well in May or June 1991.

HALLIBURTON SERVICES

JOB SUMMARY

DIVISION: [illegible]

HALLIBURTON LOCATION: Farmington N.M.

BILLED ON TICKET NO. 077522

WELL DATA

FIELD: South Dist. Gallup Ext. SEC. 10 TWP. 23N RNG. 9W COUNTY: San Juan STATE: N.M.

FORMATION NAME: Gallup TYPE: Oil

FORMATION THICKNESS ______ FROM ______ TO ______

INITIAL PROD: OIL ______ BPD. WATER ______ BPD. GAS ______ MCFD

PRESENT PROD: OIL ______ BPD. WATER ______ BPD. GAS ______ MCFD

COMPLETION DATE ______ MUD TYPE: Lacite MUD WT. 9.3

PACKER TYPE ______ SET AT ______

BOTTOM HOLE TEMP. ______ PRESSURE ______

MISC. DATA ______ TOTAL DEPTH: 5140

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	11.6	4.5	0	5140'	2500 psi
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 2-26-91	DATE 2-26-91	DATE 2-26-91	DATE 2-26-91
TIME 02:46	TIME 05:30	TIME	TIME

TOOLS AND ACCESSORIES

TYPE AND SIZE 4.5		QTY.	MAKE
FLOAT COLLAR	PDF	1 EA	Howco
~~FLOAT SHOE~~	D.V. Tool	1 EA	Howco
GUIDE SHOE		1 EA	Howco
CENTRALIZERS	S-4	12 EA	Howco
BOTTOM PLUG	Plug Set	1 EA	Howco
TOP PLUG			
HEAD	KOPC	1 EA	Howco
~~PACKER~~	Cmt Basket	3 EA	Howco
OTHER			

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
I. Webster 27772	39858 P.U.	Farmington 55130
C. Harriott 77123	Extra	"
S. Rahm D-2853	52338-75196 Ecm (P)	"
D. Berry F-1630	4640-5181 Bulk	"
B. James 79421	4120-4452 Bulk	"
R. Wilkerson 68338	5072-5447 Bulk	Flex Crew
R. Brown D-9234	51273-7421 Bulk	"

MATERIALS

TREAT. FLUID: Cmt DENSITY: 15.2, 12.8 LB/GAL.-°API

DISPL. FLUID: H2O, mud DENSITY: 8.33, 9.3 LB/GAL.-°API

PROP. TYPE ______ SIZE ______ LB. ______

PROP. TYPE ______ SIZE ______ LB. ______

ACID TYPE ______ GAL. ______ %

ACID TYPE ______ GAL. ______ %

ACID TYPE ______ GAL. ______ %

SURFACTANT TYPE ______ GAL. ______ IN ______

NE AGENT TYPE ______ GAL. ______ IN ______

FLUID LOSS ADD. TYPE ______ GAL.-LB. ______ IN ______

GELLING AGENT TYPE ______ GAL.-LB. ______ IN ______

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

BREAKER TYPE ______ GAL.-LB. ______ IN ______

BLOCKING AGENT TYPE ______ GAL.-LB. ______

PERFPAC BALLS TYPE ______ QTY. ______

OTHER ______

OTHER ______

N/A

DEPARTMENT: Cmt.

DESCRIPTION OF JOB: Cement 4.5 long string in two stage

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

CUSTOMER REPRESENTATIVE: X

HALLIBURTON OPERATOR: Dean Webster / Curt Harriott

COPIES REQUESTED ______

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1L	50	Premium	Ideal		12# gilsonite, 3# salt, ½# flocele	1.38	15.2
1T	280	Premium	Ideal		12# gilsonite, 3# salt, ½# flocele 2% Cacl2	1.38	15.2
2	810	50/50 Poz	std		2% gel, 8% KCL (bwow) 10# gilsonite	1.46	12.8

PRESSURES IN PSI

CIRCULATING ______ DISPLACEMENT ______

BREAKDOWN ______ MAXIMUM ______

AVERAGE ______ FRACTURE GRADIENT ______

SHUT-IN: INSTANT ______ 5-MIN. ______ 15-MIN. ______

HYDRAULIC HORSEPOWER

ORDERED ______ AVAILABLE ______ USED ______

AVERAGE RATES IN BPM

TREATING: 6 DISPL. 3.5 OVERALL 6.5

CEMENT LEFT IN PIPE

FEET ______ REASON ______

SUMMARY

VOLUMES

PRESLUSH: (BBL)-GAL. 20, 20 TYPE: MF, SF

~~LOAD & BKDN~~ Spacer: BBL-GAL. 5, 5, 10, 10, PAD: BBL.-GAL. ______

TREATMENT: BBL.-GAL. ______ DISPL: (BBL)-GAL. 17, 62, 21, 61

CEMENT SLURRY: (BBL)-GAL. 12, 69, 210.5

TOTAL VOLUME: (BBL)-GAL. 501.71

REMARKS

See job log

CUSTOMER: BCO

LEASE: Federal "D"

WELL NO. 4

JOB TYPE: 4.5 Longstring

DATE: 2-26-91

HALLIBURTON SERVICES

JOB LOG

FORM 2013 R-2

WELL NO. #4 LEASE Federal D TICKET NO. 077322

CUSTOMER BCO PAGE NO. 1 of 1

JOB TYPE 4.5 Longstring in two stages DATE Feb. 26, 1991

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	05:30							on loc. with pump trk & float equip requested
								@ 06:00
	07:40							rig up trks wait to run csg.
	10:56	7.0					150	Start pumping H2O
	10:58	7.0	5.0				400	Water in - start pumping mud flush
	11:02	7.0	20.0				410	mud flush in - start H2O spacer
	11:04	7.0	5.0				200	spacer in - start lead cmt.
	11:18	7.0	12.0				200	lead cmt in - start tail cmt.
	11:20	6.0	69.0				190	tail cmt in - start disp (H2O)
	11:23	6.0	17.1				100	H2O disp in - start mud disp.
	11:36	3.3	112.5				400	mud disp. in - shut down drop plug
	11:40							Drop bomb
	12:05	.25	.5					open D.V. Tool
	12:06	5.0	.5				1550	D.V. Tool open - rig to cir. 4 hrs from plug d
								Note: 15 bbl cmt circulated to surface
						2nd Stage		
	15:30	2.5					190	start pumping H2O ahead
	15:36	4.0	10.0				200	H2O in - start CaCl2 H2O
	15:39	5.5	10.0				190	CaCl2 H2O in - start H2O
	15:43	5.5	10.0				500	H2O in - start super flush
	15:47	-	20.0				-	super flush in - Wash pumps & lines
	15:49	7.0	5.0				210	Pumps & lines washed - start H2O
	15:51	7.0	10.0				290	H2O in - start cmt 12.8 #/gal
	16:24							Cmt in - shut down drop plug
	16:28							start disp
	16:55	6.0					~~500~~ 850	Cmt back to surface
	16:44		~~60.0~~ 61.5				2000	Disp in

Thanks Curt, Ken

& Cam