

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

Sundry Notices and Reports on Wells
53 JUN 18 PM 12:58

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1615' FNL, 1470' FEL, Sec.4, T-27-N, R-5-W, NMPM

5. Lease Number
SF-079393

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 27-5 Unit

8. Well Name & Number
San Juan 27-5 U #1E

9. API Well No.
30-039-25828

10. Field and Pool
Basin Dakota

11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☐ Change of Plans

☐ Subsequent Report

☐ Recompletion

☐ New Construction

☐ Final Abandonment

☒ Plugging Back

☐ Non-Routine Fracturing

☐ Casing Repair

☐ Water Shut off

☐ Altering Casing

☐ Conversion to Injection

☒ Other - Sidetrack

13. Describe Proposed or Completed Operations

It is intended to plug back and sidetrack the subject well according to the attached procedure and diagram.

RECEIVED
JUN 24 1998

OIL CON. DIV.
DIST. 3

*Verbal approval obtained by E. Becher, BLM, on 6/18/98 at 8:10 a.m.

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

Signed [Signature] Title Regulatory Administrator Date 6/18/98

VKH

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title

Date

JUN 22 1998

CONDITION OF APPROVAL, if any:

NMOC

San Juan 27-5 Unit #1E

Dakota

Section 4, T-27-N, R-05-W

Plug-Back and Sidetrack Procedure

Plug Back Procedure

1. TIH with open-ended drill pipe to Top of Fish @ 6450' and circulate and condition hole with mud.
2. Check all cement volumes with service company. Hold a pre-job safety meeting with all personnel on location.
3. Spot balance cement plug as follows:

β

105 sacks Class "B" Premium cement with 0.5% Halad-322

BH Temperature: 220 deg F
Density: 16.5 ppg
Yield: 1.06 cu ft/sx
Mix Water: 4.33 gal/sx
Fluid Loss: 602 cc/30 mins
Free Water: Trace
Pump Time: 2:17 Hours
Compressive Strength: 2577 psi (12 hours)

Halliburton: 325-3575

4. Precede cement with 10 bbls of fresh water, mix and pump cement, 19.8 bbls of cement, displace cement with 3 bbls of fresh water, and remaining displacement with drilling mud. Pump cement and displacement at 7 BPM.
5. Under-displace so that cement is left in drillpipe prior to tripping out of hole, displacement of drillpipe allows a balanced kick-off plug left in the 6-1/4" hole. Estimated length of kick-off plug: 390 ft (75% efficiency).
6. TOOH slowly for 1000 ft to minimize contamination of cement plug then TOOH.
7. PU new 6-1/4" STR-40 with 14-14-B nozzles and (8) 4-3/4" drill collars. Dress off kick-off plug to 6250' (200' above top of fish). Circulate hole until returns are clean. Drop survey and TOOH.

Sidetrack Procedure

8. PU Sidetrack Kick-Off Assembly and TIH. Caliper all tools. Kick-off should begin after 18 hours of Wait on Cement time of Kick-off Plug.

Sidetrack Kick-Off Assembly

6-1/4" STR-40 Bit

Bit Sub with float

4-3/4" Baker Hughes AKO Motor

(26) 4-3/4" Drill Collars (for 30K WOB w/ 0.862 Bouyancy Factor w/ 15% Safety Factor)

3-1/2" drill pipe to surface

Recommended Geometric Build Rate: 10 – 11 deg / 100 ft

Actual build rate will be less during initial kick-off. Planned 90 ft of new hole with motor should result in 8 degrees of deviation.

9. Establish circulation with mud at Kick-Off Point. Time drill as follows:

0-1':	1" per 5 minutes
1-5':	1" per 2 minutes
5-15':	1" per 1 minute
15-30':	Keep WOB = 2K
30'+:	Keep WOB = 4 to 6 K

Actual kick-off parameters will be set on location by directional representative.

Do not rotate drill string (slide only) with motor in the hole. Mark drillpipe with rotary table and realign prior to drilling on each connection.

10. Drill 2 joints down (approximately 60' total). Circulate and survey. Survey point will be approximately 25' above present TD due to length of motor. Deviation should be between 4-6 degrees at this depth. If less drill an additional 30' and re-survey. If angle is sufficient, TOO H and lay down motor.
11. TIH with Drilling Assembly. Take deviation survey and compare to previous surveys (deviation should be between 5-8 degrees). If deviation is sufficient, begin conventional drilling operations.
When initially drilling without motor after Kick-Off operations it is important to invest time to successfully complete Sidetrack of well. This means do not attempt to maximize penetration rate it does mean maximize hole angle for initial conventional drilling operations. To do this, proceed with maximum weight on bit (25-30K) and minimum RPM (25-30).
12. Drill another 60 ft and take a wireline survey. If angle is sufficient (8-10 degrees), then proceed with normal drilling operations.

Bit Program:

Bit Size	Bit Type	WOB	RPM
6-1/4"	STR-40	25-30K	60-70

Reduce WOB to 15-20K and RPM to 60 in Dakota to extend bit life.

Hydraulics Program:

Bit Size	Bit Type	Jet Size	Pump (PSI)	Flow Rate	HSI
6-1/4"	STR-40	14-14-B	1891	+/- 240 GPM	2.41

13. Drill to TD at 7848'. Circulate at TD and short trip. When hole is sufficiently clean TOO H and stand back drillpipe and drill collars for logs.
14. TIH with bit, drillpipe, and, drill collars to TD. Circulate hole until clean. TOO H and lay down drillpipe and drill collars.
15. RU to run 4-1/2" casing. Run 4-1/2" casing as listed below. Circulate last joint of casing to TD.

Production Casing 0'-7848'

4-1/2"	Float Shoe
4-1/2"	10.50#, J-55. ST&C 40 foot Shoe Joint
4-1/2"	Float Collar
4-1/2"	10.50#, J-55. ST&C "B" grade casing 7848'-3458' (4390')
4-1/2"	15' Marker Joint 100' above Massive Cliffhouse
4-1/2"	10.50#, J-55. ST&C "A" grade casing 3458'-surface (3458')

Bow Spring Centralizers run every fourth joint in open-hole section

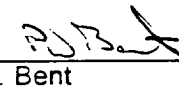
16. Land 4-1/2" casing with mandrel in wellhead prior to cementing.

17. Cement well as listed below.

Pre-Flush:	40 bbls Mud Flush, 10 bbls fresh water
Tail Cement:	575 sacks 50/50 Class B Pozmix w/ 2% gel, ½ pps cellophane, 10 pps gilsonite, 0.4% Halad-344
Volume:	766 cu.ft. (136 bbls)
Density:	13.5 ppg
Yield:	1.33 cu.ft/sx
Mix Water:	4.61 gal/sx
Excess:	70%

18. Precede cement with pre-flush. Mix and pump cement at 4-6 BPM. Shut down and wash pumps and lines. Drop displacement plug with fresh water displacement. Rigless completion is proposed so minimize cement behind wiper plug.
19. Land wiper plug with 500 psi over final displacement pressure. Check float for integrity. Nipple down BOP, install fuzz cap on wellhead and release rig.

 6/16/98
K. A. Shipley

 6/18/98
P.W. Bent

BURLINGTON
RESOURCES
ENGINEERING CALCULATION

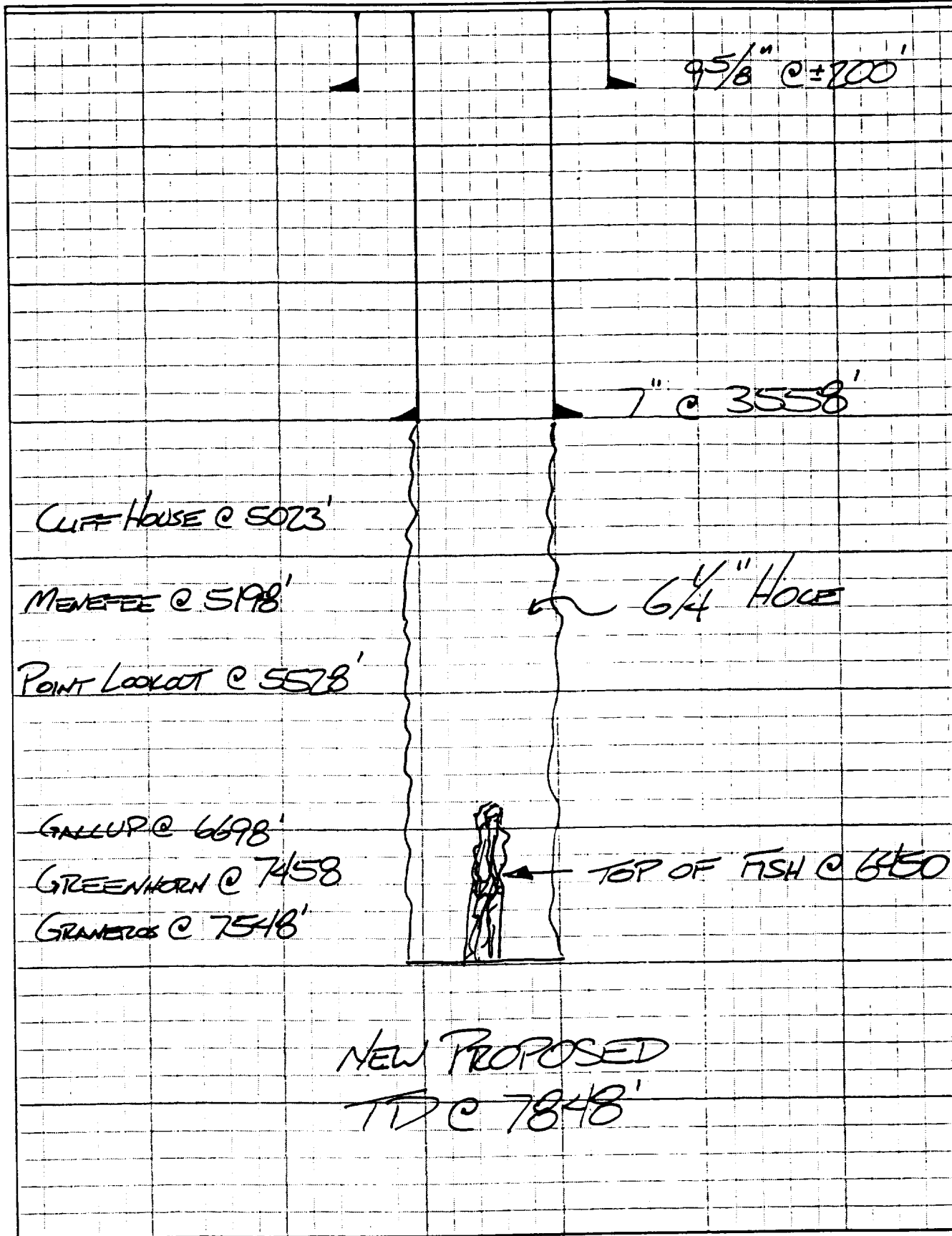
Sheet: _____ of _____

Date: _____

By: _____

File: _____

SAN JUAN 27.5 UNIT #1/E



BURLINGTON RESOURCES OIL & GAS - SJD

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Operations Summary Report

Legal Well Name: SAN JUAN 30-6 UNIT #102A
 Common Well Name: SAN JUAN 30-6 UNIT #102A
 Event Name: ORIG DRLG
 Contractor Name: WALTER'S DRILLING CO.
 Rig Name: WALTERS

Start: 4/13/98
 Rig Release: 5/31/98
 Rig Number: 4
 Spud Date: 4/13/98
 End: 5/31/98
 Group:

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
4/14/98	14:00 - 18:00	4.00	01	a	2	MI RU WALTERS RIG#4
	18:00 - 19:00	1.00	02	b	2	DRLG RAT AND MOUSE HOLE
	19:00 - 23:00	4.00	02	b	2	DRLG FROM 0' TO 230'
	23:00 - 23:15	0.25	10	a	2	WLS @ B 230' 1/4 DEGREE
	23:15 - 23:45	0.50	06	a	2	TOOH
	23:45 - 00:15	0.50	12	b	2	RAN 5 JTS 213' 9 5/8" CSG SHOE @ 225'
	00:15 - 01:00	0.75	12	c	2	CEMENTED W/ 200 SXS H CMT PD @ 01:00 ON 04/14/98 CIRC 15 1/2 BBLs CMT TO PIT
4/15/98	01:00 - 06:00	5.00	13	a	2	WOC
	06:00 - 11:00	5.00	13	a	3A	WOC
	11:00 - 11:30	0.50	15	a	3A	PRESSURE TEST BOP TO 600 PSI FOR 30 MIN TEST OK
	11:30 - 12:00	0.50	06	a	3A	TIH
	12:00 - 12:30	0.50	02	b	3A	DRLG CMT AND SHOE
	12:30 - 17:45	5.25	02	b	3A	DRLG FROM 230' TO 723'
	17:45 - 18:00	0.25	10	a	3A	WLS @ 723' 1 DEGREE
	18:00 - 23:30	5.50	02	b	3A	DRLG FROM 723' TO 1218'
	23:30 - 23:45	0.25	10	a	3A	WLS @ 1218' 1 1/2 DEGREE
	23:45 - 05:00	5.25	02	b	3A	DRLG FROM 1218' TO 1711'
4/16/98	05:00 - 05:15	0.25	10	a	3A	WLS @ 1711' 1 3/4 DEGREE
	05:15 - 06:00	0.75	02	b	3A	DRLG FROM 1711' TO 1791'
	06:00 - 11:30	5.50	02	b	3A	DRLG FROM 1791' TO 2202'
	11:30 - 12:00	0.50	10	b	3A	WLS @ 2202' 1 1/4 DEGREES
	12:00 - 18:30	6.50	02	b	3A	DRLG FROM 2202' TO 2696'
	18:30 - 18:45	0.25	10	a	3A	WLS @ 2696' 1 DEGREE
	18:45 - 01:30	6.75	02	b	3A	DRLG FROM 2696' TO 3194'
	01:30 - 02:15	0.75	10	a	3A	WLS @ 3194' 1 DEGREE
	02:15 - 04:30	2.25	02	b	3A	DRLG FROM 3194' TO 3322' LOST CIRC @ 3287'
	04:30 - 04:45	0.25	06	a	3A	TOOH 5 STANDS
4/17/98	04:45 - 06:00	1.25	05	c	3A	MIX LCM
	06:00 - 07:30	1.50	05	c	3A	MIX MUD 40 VIS 35% LCM
	07:30 - 08:00	0.50	06	a	3A	TIH
	08:00 - 11:45	3.75	02	b	3A	DRLG FROM 3322' TO 3625'
	11:45 - 12:30	0.75	05	a	3A	PUMPED MUD DOWN HOLE NO RETURNS
	12:30 - 13:30	1.00	06	a	3A	TOOH 10 STANDS
	13:30 - 15:00	1.50	05	a	3A	CIRCULATE AND CONDITION MUD FULL RETURNS
	15:00 - 15:15	0.25	06	b	3A	TIH
	15:15 - 17:30	2.25	05	a	3A	CIRCULATE AND CONDITION MUD FULL RETURNS
	17:30 - 20:15	2.75	06	a	3A	LAY DOWN DP AND DC'S
4/18/98	20:15 - 21:30	1.25	12	a	3A	RU CASERS, CHANGED RAMS, MIXED 40 VIS GEL AND HELD SAFT
	21:30 - 23:30	2.00	12	b	3A	MEETING
	23:30 - 01:00	1.50	12	b	3A	RAN 87 JTS 3601' 7" CSG SHOE @ 3619' FC @ 3579' DV TOOL @ 2831'
	01:00 - 03:00	2.00	12	c	3A	LAND MANDRIL AND CIRCULATE FULL RETURNS
	03:00 - 06:00	3.00	05	a	3A	RU AND CMT 1ST STAGE W/ 170 SXS 50/50 B POZ CMT PD @ 03:00
	06:00 - 07:00	1.00	05	a	3A	ON 04/17/98 CIRCULATED 10 BBLs GOOD CMT TO PIT
	07:00 - 08:30	1.50	12	c	3A	CIRCULATE BETWEEN STAGES
	08:30 - 14:30	6.00	01	b	3A	CIRC BETWEEN STAGES
	14:00 - 15:00	1.00	02	b	4	CEMENT 2 ND ST W/ 296 SXS B CMT PD @ 08:30 ON 04/17/98 CIRC
						BBLs GOOD CMT TO PIT
5/7/98	06:00 - 12:00	6.00	01	a	4	ND, RD, AND MO 14:30 ON 04/17/98 SUSPEND OPERATIONS
	12:00 - 14:00	2.00	14	a	4	MI RU WALTERS RIG #4
	14:00 - 15:00	1.00	02	b	4	NU AND TEST BOP TO 1500 PSI FOR 30 MIN TEST OK

BURLINGTON RESOURCES OIL & GAS - SJD

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Operations Summary Report

Legal Well Name: SAN JUAN 30-6 UNIT #102A
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 Contractor Name: WALTER'S DRILLING CO.
 Rig Name: WALTERS

Spud Date: 4/13/98
 End: 5/31/98
 Start: 4/13/98
 Rig Release: 5/31/98
 Group:
 Rig Number: 4

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
5/7/98	15:00 - 21:15	6.25	06	a	4	PU SQ DC, 19 4 3/4" DC'S AND 70 JTS 3 1/2" DP
	21:15 - 23:00	1.75	02	b	4	DRLG STAGE TOOL
	23:00 - 00:30	1.50	06	a	4	PU 3 1/2" DP AND TIH TO 3576'
	00:30 - 01:45	1.25	02	b	4	DRLG FC, CMT AND SHOE
	01:45 - 02:15	0.50	05	a	4	CIRCULATE
5/8/98	02:15 - 03:15	1.00	05	a	4	UNLOAD HOLE AND BLOW DRY
	03:15 - 06:00	2.75	02	b	4	DRLG FROM 3619' TO 3855'
	06:00 - 09:15	3.25	02	b	4	DRLG FROM 3855' TO 4133'
	09:15 - 10:15	1.00	10	a	4	TFSF WLS @ 4133' 1 DEGREE GUAGED WELL TSTM
	10:15 - 15:30	5.25	02	b	4	DRLG FROM 4133' TO 4632'
5/9/98	15:30 - 16:30	1.00	10	a	4	TFSF WLS @ 4632' 1 1/2 DEGREE GUAGED WELL TSTM
	16:30 - 23:15	6.75	02	b	4	DRLG FROM 4632' TO 5139'
	23:15 - 00:15	1.00	10	a	4	TFSF WLS @ 5139' 1 1/4 DEGREE GUAGED WELL TSTM
	00:15 - 06:00	5.75	02	b	4	DRLG FROM 5139' TO 5630'
	06:00 - 06:30	0.50	02	b	4	DRLG FROM 5630 TO 5638'
5/10/98	06:30 - 07:30	1.00	10	a	4	TFSF WLS @ 5638' 1 DEGREE GUAGED WELL TSTM
	07:30 - 15:00	7.50	02	b	4	DRLG FROM 5638' TO 6169'
	15:00 - 16:00	1.00	10	a	4	TFSF WLS @ 6169' 3/4 DEGREE GUAGED WELL TSTM
	16:00 - 20:45	4.75	02	b	4	DRLG FROM 6169' TO 6670'
	20:45 - 21:30	0.75	10	a	4	TFSF WLS @ 6670' 2 DEGREES GUAGED WELL TSTM
5/11/98	21:30 - 22:30	1.00	07	a	4	SERVICE RIG
	22:30 - 06:00	7.50	02	b	4	DRLG FROM 6670' TO 7546'
	06:00 - 09:00	3.00	02	a	4	DRLG FROM 7546' TO 7801'
	09:00 - 10:30	1.50	05	a	4	BLEW WELL STUCK PIPE
	10:30 - 13:30	3.00	19	a	4	WORKED STUCK PIPE WAIT ON FREE POINT TRUCK
5/12/98	13:30 - 15:00	1.50	19	a	4	RIG UP TO FREE POINT
	15:00 - 22:15	7.25	19	a	4	RAN FIRST FREE POINT BURNED UP TOOL AND 72' OF CABLE RAN
	22:15 - 22:45	0.50	19	a	4	SECOND TOOL TO 7535' FREE PIPE BACKED OFF @ 7535'
	22:45 - 04:30	5.75	19	a	4	FLUID LEVEL @ 3401' - 4400' WATER IN HOLE RD WL TRUCK
	04:30 - 06:00	1.50	19	a	4	CHAIN OUT OF HOLE RECOVERED 12 4 3/4" DC'S
5/11/98	06:00 - 09:30	3.50	05	c	4	PU SCREW IN SUB, BUMPER SUB, JARS, 8 4 3/4" DC'S, INTENSIFIE
	09:30 - 12:30	3.00	06	a	4	2 4 3/4" DC'S SND TIH
	12:30 - 13:30	1.00	05	c	4	MIXED MUD 15% LCM 45 VIS
	13:30 - 14:00	0.50	06	a	4	TIH 25' FILL ON TOP OF FISH @ 7535'
	14:00 - 16:30	2.50	05	c	4	MIX MUD
5/12/98	16:30 - 18:45	2.25	05	a	4	TOOH 15 STANDS
	18:45 - 20:00	1.25	01	a	4	MIX PIT OF MUD PUMP DOWN HOLE
	20:00 - 23:00	3.00	05	a	4	PORISITY STUCK WORKED STUCK PIPE
	23:00 - 00:30	1.50	06	a	4	HOOKED UP BOOIE LINE
	00:30 - 02:30	2.00	05	c	4	UNLOADED HOLE W/ AIR
5/12/98	02:30 - 03:30	1.00	05	a	4	TOOH 62 STANDS UP IN 7" CSG @ 3619'
	03:30 - 04:30	1.00	06	a	4	MIXED MUD 42 VIS 15% LCM
	04:30 - 05:15	0.75	05	a	4	PUMPED MUD AND CIRC OTTOMS UP
	05:15 - 06:00	0.75	06	a	4	TIH 38 STANDS
	06:00 - 06:30	0.50	05	a	4	CIRCULATE TO CONDITION HOLE
5/12/98	06:30 - 07:00	0.50	06	a	4	TIH TO TOP OF FISH @ 7535'
	07:00 - 09:15	2.25	05	c	4	CIRCULATE TO CONDITION HOLE 43 VIS 15% LCM
	09:15 - 13:30	4.25	06	a	4	TIH TO 7107' HIT BRIDGE WORKED THROUGH BRIDGE WASHED
	13:30 - 15:15	1.75	06	a	4	7377' 143' FILL HOLE SLUFING
	15:15 - 17:15	2.00	05	a	4	CIRC 52 VIS 14% LCM COULD NOT GET OVER FISH

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 Rig Name: WALTERS

Start: 4/13/98 Spud Date: 4/13/98
 End: 5/31/98
 Rig Release: 5/31/98 Group:
 Rig Number: 4

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
5/12/98	15:15 - 17:15	2.00	05	a	4	CIRCULATING W/ FULL RETURNS
	17:15 - 18:00	0.75	06	a	4	TIH 30 STANDS
	18:00 - 19:15	1.25	05	a	4	CIRCULATE AND CCNDITION MUD AND HOLE @ 5000' 53 VIS 12% LCM
	19:15 - 20:15	1.00	06	a	4	TIH 20 STANDS TAG BRIDGE @ 7120' WORKED THROUGH
	20:15 - 21:00	0.75	05	a	4	CIRCULATE AND CCNDITION MUD AND HOLE 68 VIS 15% LCM
	21:00 - 05:00	8.00	05	a	4	WASHED TO TOP OF FISH FROM 7120' TO 7520'
	05:00 - 06:00	1.00	05	a	4	CIRCULATING TO CONDITION HOLE 68 VIS 12% LCM
5/13/98	06:00 - 07:00	1.00	05	a	4	CIRCULATE OVER FISH 63 VIS 14% LCM
	07:00 - 11:00	4.00	06	a	4	TOOH
	11:00 - 12:30	1.50	06	a	4	PICK UP SCREW IN SUB. BUMPER SUB, JARS, 8 4 3/4" DC'S, EXCELEATOR AND 2 STANDS DP
	12:30 - 14:00	1.50	07	a	4	CUT 100' DRLG LINE
	14:00 - 16:30	2.50	06	a	4	TIH TO 7460' 60' FILL
	16:30 - 17:00	0.50	05	a	4	WASH TO TOP OF FISH @ 7520'
	17:00 - 19:30	2.50	05	a	4	CIRCULATED AND CONDITIONED HOLE
5/14/98	19:30 - 03:00	7.50	06	a	4	SCREWED INTO FISH JARRED AND DROVE ON FISH MADE 7' PROGRESS UP WORE OUT JARS
	03:00 - 06:00	3.00	06	a	4	TRIED TO BACK OFF MANUALLY NO GO CALLED WIRE LINE TO BACK OFF SERVICE RIG PREP TO SET CMT PLUG
	06:00 - 08:00	2.00	19	a	4	RU BACK OFF UNIT 1 ST SHOT BACKED OFF @ TOP OF DC'S ABOVE TOOLS
	08:00 - 08:30	0.50	19	a	4	SCREWED BACK IN COLLARS PLUGGED
	08:30 - 09:00	0.50	19	a	4	POOH
	09:00 - 10:00	1.00	19	a	4	PIH W/ SINKER BAR UNPLUGGED COLLARS
	10:00 - 11:00	1.00	19	a	4	RIH W/ 2 ND SHOT - SHOT MISFIRED POOH
5/15/98	11:00 - 12:00	1.00	19	a	4	RIH W/ 3 RD SHOT EACKED OFF @ CONNECTION @ TOP OF SCREW IN SUB
	12:00 - 16:00	4.00	19	a	4	CHAIN OUT OF HOLE
	16:00 - 19:00	3.00	06	a	4	TIH OPEN ENDED TO TOP OF FISH @ 7513'
	19:00 - 21:30	2.50	05	a	4	CIRCULATE TO CONDITION HOLE
	21:30 - 23:30	2.00	12	c	4	SET CMT PLUG 60 SXS CLASS G FROM TOP OF FISH @ 7513' BACK TO 7200'
	23:30 - 02:30	3.00	05	a	4	TOOH
	02:30 - 06:00	3.50	06	a	4	TIH W/ BIT AND 8 DC.S TO DRESS OFF TOP OF CMT @ 7200'
	06:00 - 06:30	0.50	06	a	4	TIH TO 7115'
	06:30 - 07:30	1.00	05	a	4	CIRCULATED AND LOST RETURNS
	07:30 - 09:00	1.50	06	a	4	TOOH TO 7" CASING @ 3719'
	09:00 - 10:45	1.75	05	c	4	MIX LCM AND CCNDITION MUD 60 VIS 14% LCM
	10:45 - 11:00	0.25	05	a	4	PUMPED MUD AND CIRCULATED W/ 90% RETURNS THN LOST 150 BBLS
	11:00 - 11:15	0.25	05	c	4	MIXED LCM TO 20%
	11:15 - 11:45	0.50	05	a	4	PUMPED 150 BBLS W/ NO RETURNS
	11:45 - 14:00	2.25	05	c	4	MIXED PIT OF MUD 60 VIS 20% LCM
	14:00 - 15:00	1.00	05	a	4	CIRCULATE AND CCNDITION MUD LOST 150 BBLS IN FORMATION
	15:00 - 17:45	2.75	06	a	4	TIH TO 7115' CIRCULATING W/ FULL RETURNS LOST 50 BBLS @ 7055'
	17:45 - 20:45	3.00	03	a	4	DRLG CMT FROM 7115' TO 7338'
	20:45 - 22:15	1.50	05	a	4	CIRCULATE AND CCNDITION MUD 46 VIS 15% LCM
	22:15 - 01:30	3.25	06	a	4	TOH
	01:30 - 02:00	0.50	06	a	4	PICK UP 7" PACKER
	02:00 - 03:45	1.75	06	a	4	TIH AND SET PACKER @ 3573'
	03:45 - 04:00	0.25	15	a	4	PRESSURE TEST 7" CSG AND DV TOOL TO 2000# FOR 15 MIN TEST

Operations Summary Report

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 Group:

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
5/15/98	03:45 - 04:00	0.25	15	a	4	OK
	04:00 - 06:00	2.00	06	a	4	CHAIN OUT OF HOLE
5/16/98	06:00 - 06:30	0.50	06	a	4	CHAIN OUT OF HOLE
	06:30 - 07:00	0.50	01	a	4	RU DOWN HOLE MOTOR
	07:00 - 10:30	3.50	06	a	4	TIH W/ DOWN HOLE MOTOR
	10:30 - 11:00	0.50	05	a	4	PUMPED 250 BBLs 45 VIS 12% LCM MUD NO RETURNS
	11:00 - 12:00	1.00	06	b	4	PULLED 20 STANDS
	12:00 - 16:30	4.50	05	c	4	MIXED AND PUMPED MUD AND LCM 60 VIS 30% LCM FULL RETURNS
	16:30 - 17:00	0.50	06	a	4	TIH TO 7278'
	17:00 - 17:30	0.50	06	a	4	WASHED FROM 7278' TO 7338'
	17:30 - 03:30	10.00	02	b	4	CONTROL DRLG FROM 7338' TO 7388'
	03:30 - 05:00	1.50	10	a	4	CIRCULATE AND WLS @ 7388' 3 DEGREES
	05:00 - 06:00	1.00	02	b	4	CONTROL DRLG FROM 7388' TO 7400'
5/17/98	06:00 - 07:30	1.50	10	a	4	CIRCULATE AND WLS @ 7419' 1 DEGREE
	07:30 - 08:45	1.25	05	a	4	WASH TO BOTTOM AND CIRCULATE
	08:45 - 11:30	2.75	02	b	4	CONTROL DRLG FROM 7419' TO 7450'
	11:30 - 15:30	4.00	10	a	4	CIRCULATE AND WLS @ 7450' 2 1/2 DEGREES
	15:30 - 18:15	2.75	02	b	4	CONTROL DRLG FROM 7450' TO 7482'
	18:15 - 20:30	2.25	10	a	4	CIRCULATE AND WLS @ 7482' 4 DEGREES
	20:30 - 22:00	1.50	02	b	4	CONTROL DRLG FROM 7482' TO 7514'
	22:00 - 01:00	3.00	10	a	4	CIRCULATE AND WLS @ 7514' 4 DEGREES
	01:00 - 04:45	3.75	06	a	4	TOOH
	04:45 - 05:30	0.75	06	a	4	LAY DOWN MUD MOTOR
	05:30 - 06:00	0.50	06	a	4	PICK UP BOTTOM HOLE ASSEMBLY
5/18/98	06:00 - 07:00	1.00	06	a	4	PICK UP 18 - 4 3/4" DRILL COLLARS
	07:00 - 08:30	1.50	06	a	4	TOOH AND LAY DOWN 4 3/4" DC'S
	08:30 - 12:30	4.00	06	a	4	TIH OPEN ENDED AND PICK UP 10 STANDS 3 1/2" DRILL PIPE
	12:30 - 14:00	1.50	05	a	4	CIRCULATED
	14:00 - 14:30	0.50	12	c	4	PUMPED 60 SXS CLASS G PLUG FROM 7513' TO 7200'
	14:30 - 17:15	2.75	06	a	4	TOOH
	17:15 - 19:00	1.75	07	a	4	CUT 75' OFF DRILLING LINE
	19:00 - 21:00	2.00	06	a	4	TRIP IN HOLE FOR 2 - 4 3/4" DC'S AND BIT
	21:00 - 23:00	2.00	06	a	4	TOOH NO FISH
	23:00 - 02:30	3.50	06	a	4	TRIP FOR 2 - 4 3/4" DC AND BIT 7200'
	02:30 - 03:30	1.00	06	a	4	CIRCULATE AND SPEARED COLLARS LOST 50 BBLs MUD NO RETURNS
5/19/98	03:30 - 06:00	2.50	06	a	4	CHAIN OUT OF HOLE
	06:00 - 09:00	3.00	06	a	4	POOH, NO FISH
	09:00 - 11:30	2.50	05	c	4	BUILD VOL. IN PITS
	11:30 - 15:45	4.25	06	a	4	TIH W/ OEDP, BRK. CIRC @ SHOE & 5800
	15:45 - 17:30	1.75	05	a	4	CIRC, COOL WELL FOR CMT PLUG @ 7330
	17:30 - 18:00	0.50	17	a	4	SPOT 150 SX CMT PLUG. 7330 - 6700
	18:00 - 21:15	3.25	06	a	4	POOH LD 20 JTS DP
	21:15 - 02:00	4.75	06	a	4	MU BIT & BHA, TIH TO 6705, CMT STILL GREEN. BK CIRC @ SHOE & 5100
	02:00 - 03:15	1.25	05	a	4	CIRC @ 6705, LOST CIRC APX 250 BBL
	03:15 - 03:30	0.25	06	a	4	POOH TO 6100
	03:30 - 06:00	2.50	05	a	4	BUILD VOL
5/20/98	06:00 - 15:15	9.25	05	a	4	CIRC & WOC @ 6100
	15:15 - 15:45	0.50	06	a	4	TIH TO 6881, TAG CMT.
	15:45 - 16:15	0.50	02	b	4	DRESS OFF CMT. TO KICK OFF
	16:15 - 17:15	1.00	05	a	4	CIRC OUT CMT. CUTTINGS

Operations Summary Report

Legal Well Name: SAN JUAN 30-6 UNIT #102A
 Common Well Name: SAN JUAN 30-6 UNIT #102A
 Event Name: ORIG DRLG
 Contractor Name: WALTER'S DRILLING CO.
 Rig Name: WALTERS

Spud Date: 4/13/98
 Start: 4/13/98 End: 5/31/98
 Rig Release: 5/31/98 Group:
 Rig Number: 4

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
5/20/98	17:15 - 19:45	2.50	06	a	4	POOH
	19:45 - 22:00	2.25	06	a	4	PU & SURFACE TEST 1.8 DEG MOTOR, TIH TO 5000'
	22:00 - 02:00	4.00	06	a	4	BREAK CIRC. @ 5000, PLUGED STRING. POOH
	02:00 - 03:45	1.75	06	a	4	DRESS MOTOR TO 1.8 DEG.
5/21/98	03:45 - 06:00	2.25	06	a	4	TIH W/ MOTOR
	06:00 - 08:00	2.00	06	a	4	TIH TO 6921
	08:00 - 09:15	1.25	05	a	4	CIRC & COND MUD
	09:15 - 10:15	1.00	10	a	4	WLS @ 6921, 2 DEG
5/22/98	10:15 - 06:00	19.75	20	a	4	TIME DRILL 6921 - 6965
	06:00 - 07:15	1.25	20	a	4	SLIDE 6965 - 7017. 2,000 WOB
	07:15 - 08:00	0.75	05	a	4	CIRC SAMPLE, INCREASE IN CMT IN SAMPLE.
	08:00 - 09:00	1.00	10	a	4	WLS @ 6986 2.25 DEG.
5/23/98	09:00 - 01:00	16.00	20	a	4	TIME DRILL 7017 - 7048 @ 2 1/2 MIN/ FT.
						SAMPLES SHALE CONTENT INCREASED TO 90%, 10% CMT
	01:00 - 03:00	2.00	20	a	4	SLIDE 7048 - 7056, BIT WOULD NOT DRILL.
	03:00 - 06:00	3.00	06	a	4	POOH (CHAIN OUT WET)
	06:00 - 10:00	4.00	06	a	4	CHAIN OUT OF HOLE
	10:00 - 12:45	2.75	21	a	4	WAIT ON MUD MOTOR
	12:45 - 15:00	2.25	06	a	4	TIH W/ NEW MUD MOTOR
	15:00 - 15:30	0.50	05	a	4	CIRCULATE @ 5100'
	15:30 - 16:30	1.00	06	a	4	TIH TO 7056'
	16:30 - 17:00	0.50	05	a	4	CIRCULATE @ 7056'
	17:00 - 22:15	5.25	02	b	4	CONTROL DRLG FROM 7056' TO 7081'
	22:15 - 23:30	1.25	10	a	4	WLS @ 7052' 2 DEGREES
5/24/98	23:30 - 05:00	5.50	02	b	4	CONTROL DRLG FROM 7081' TO 7113'
	05:00 - 06:00	1.00	10	a	4	CIRCULATE AND WLS @ 7083'
	06:00 - 08:00	2.00	10	a	4	WLS 7083' 4 DEGREES
	08:00 - 12:45	4.75	02	b	4	CONTROL DRLG FROM 7113' TO 7144'
	12:45 - 14:15	1.50	10	a	4	CIRCULATE WLS 7114' 9 3/4 DEGREES
	14:15 - 16:00	1.75	05	a	4	CIRCULATE AND CONDITION MUD
	16:00 - 18:30	2.50	06	a	4	CHAIN OUT OF HOLE
	18:30 - 19:00	0.50	06	a	4	LAY DOWN 16 JTS DRILL PIPE
	19:00 - 21:00	2.00	06	a	4	CHAIN OUT OF HOLE
	21:00 - 23:30	2.50	06	a	4	PICK UP BAH AND 16 4 3/4" DRILL COLLARS
	23:30 - 00:15	0.75	07	a	4	CUT 60' DRLG LINE
	00:15 - 02:30	2.25	06	a	4	TIH BREAK CIRCULATION @ 3900'
5/25/98	02:30 - 03:00	0.50	03	a	4	REAM 36' TO BOTTOM
	03:00 - 06:00	3.00	02	b	4	DRLG FROM 7144' TO 7178'
	06:00 - 07:00	1.00	10	a	4	WLS @ 7168' 7 DEGREES
	07:00 - 09:00	2.00	02	b	4	CONTROL DRLG FROM 7178' TO 7208'
	09:00 - 10:00	1.00	10	a	4	WLS @ 7198' 9 DEGREES
	10:00 - 12:00	2.00	02	b	4	CONTROL DRLG FROM 7208' TO 7240'
	12:00 - 13:00	1.00	10	a	4	WLS @ 7230' STUCK SERVEY TOOL
	13:00 - 20:15	7.25	06	a	4	TOOH SERVEY TOOL STUCK IN 3 PT REAMER
	20:15 - 21:15	1.00	06	a	4	RETRIEVED SERVEY TOOL LAYED DOWN 3 PT REAMER
	21:15 - 00:00	2.75	06	a	4	TIH
	00:00 - 00:15	0.25	05	a	4	WASHED 30' TO BOTTOM @ 7240'
	00:15 - 05:00	4.75	02	b	4	DRLG FROM 7240' TO 7329'
5/26/98	05:00 - 06:00	1.00	10	a	4	WLS
	06:00 - 09:30	3.50	02	b	4	DRLG FROM 7329' TO 7392'
	09:30 - 10:30	1.00	10	a	4	WLS @ 7382' 9 DEGREES 28' FROM OLD HOLE
	10:30 - 16:30	6.00	02	b	4	DRLG FROM 7392' TO 7486'

Operations Summary Report

Legal Well Name: SAN JUAN 30-6 UNIT #102A
 Common Well Name: SAN JUAN 30-6 UNIT #102A
 Event Name: ORIG DRLG
 Contractor Name: WALTER'S DRILLING CO.
 Rig Name: WALTERS

Start: 4/13/98
 Rig Release: 5/31/98
 Rig Number: 4
 Spud Date: 4/13/98
 End: 5/31/98
 Group:

Date	From - To	Hours	Sub Co	Phase	Code	Description of Operations
5/26/98	16:30 - 17:30	1.00	10	a	4	WLS @ 7477' 10 DEGREES 47.02' FROM OLD HOLE
	17:30 - 23:00	5.50	02	b	4	DRLG FROM 7486' TO 7581'
	23:00 - 00:00	1.00	10	a	4	WLS @ 7573' 11 DEGREES 64.16' FROM OLD HOLE
5/27/98	00:00 - 06:00	6.00	02	a	4	DRLG FROM 7581' TO 7674'
	06:00 - 07:00	1.00	10	a	4	WLS @ 7667' 12 DEGREES
	07:00 - 13:30	6.50	02	b	4	DRLG FROM 7676' TO 7770'
	13:30 - 13:45	0.25	07	a	4	SERVICE RIG
	13:45 - 22:30	8.75	02	b	4	DRLG FROM 7770' TO 7866'
5/28/98	22:30 - 23:30	1.00	10	a	4	WLS @ 8757' 8 DEGREES
	23:30 - 06:00	6.50	02	b	4	DRLG FROM 7866' TO 7904'
	06:00 - 06:15	0.25	02	b	4	DRLG FROM 7904' TO 7906'
	06:15 - 09:45	3.50	06	a	4	TOOH
	09:45 - 10:00	0.25	06	a	4	LAY DOWN 6 PT REAMER
	10:00 - 12:00	2.00	21	a	4	WAIT ON JUNK BASKET
	12:00 - 16:00	4.00	06	a	4	TIH
	16:00 - 17:00	1.00	02	b	4	FAN BIT ON BOTTOM INTO JUNK BASKET
5/29/98	17:00 - 06:00	13.00	02	b	4	DRLG FROM 7906' TO 7995'
	06:00 - 11:00	5.00	02	b	4	DRLG FROM 7995' TO 8024'
	11:00 - 11:15	0.25	07	a	4	SERVICE RIG
	11:15 - 01:45	14.50	02	b	4	DRLG FROM 8024' TO 8075'
	01:45 - 02:45	1.00	05	a	4	CIRCULATE AND CCNDITION MUD
	02:45 - 03:00	0.25	06	b	4	SHORT TRIP 4 STANDS
	03:00 - 05:00	2.00	05	a	4	CIRCULAATE TO CLEAN AAND CONDITION HOLE
	05:00 - 06:00	1.00	10	a	4	WLS @ 8075'
5/30/98	06:00 - 10:15	4.25	06	a	4	SLM TOOH
	10:15 - 17:00	6.75	11	a	4	RU SCHLUMBERGER AND LOGGED LOGGERS DEPT 8067'
	17:00 - 18:15	1.25	06	a	4	TIH W/ 58 STANDS BREAK CIRCULATION
	18:15 - 18:45	0.50	05	a	4	CIRCULATE
	18:45 - 20:30	1.75	06	a	4	TIH W/ 30 STANDS TO BOTTOM
	20:30 - 22:30	2.00	05	a	4	CIRCULATE AND CCNDITION HOLE
	22:30 - 05:30	7.00	06	a	4	LAY DOWN DRILL PIPE, BREAK KELLY AND LAY DOWN DRILL COLLARS
	05:30 - 06:00	0.50	01	a	4	CHANGE RAMS HELD SAFTY MEETING W/ CREW
5/31/98	06:00 - 07:30	1.50	12	a	4	RU CASERS HELD SAFTY MEETING
	07:30 - 16:45	9.25	12	b	4	RAN 182 JTS 8051' 5.5" HUNTING INTER LOC CSG SHOE @ 8063' FC
						2 8019' 30 JTS OFF BOTTOM LOST ALL RETURNS HOLE STAYED FULL BUT COULD NOT GET RETURNS PUMPED AND WORKED LAST JT TO BOTTOM NO RETURNS PUMPED 300 BBLS 50 VIS 20% LCM MUD
	16:45 - 18:00	1.25	12	c	4	CEMENTED W/ 305 SXS 50/50 POZ CLASS H CMT STARTING PRESSURE 2000 PSI PRESSURE DROPPED BACK TO 1850 PSI AS CMT ROUNDED CORNER WITH 188 BBLS DISP LEFT PRESSURE BEGAN TO CLIMB VERY SLOWLY TO 2800 PSI @ PLUG DOWN POSSIBLY LIFTING CMT PLUG DOWN @ 18:00 ON 05/30/98
	18:00 - 19:00	1.00	12	c	4	CEMENTED UP RAT HOLE AND KELLY
	19:00 - 01:00	6.00	01	b	4	RD RELEASED WALTERS RIG #4 @ 01:00 ON 05/31/98