

On Site Technologies, LTD.

Date: 11-Mar-99

CLIENT: Conoco, Inc.
Work Order: 9902098
Project: Kate Standage 1 DHP

QCC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 8015GRO_S-	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/2/99	Prep Date:						
Client ID:	9902098	Run ID: GC-1_990302A		SeqNo: 11606							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.708	0.18	1.801	0	94.8%	65.9	118				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NMOGO

Well Name	Day: /	Work Date:
Santa FE Miguel #1	1	8/11/99
Company		
Intangible Expense - Provider - Services	Hours	Rate
Location Cost: Anchors & P.T. Fix Loc. to Rig	5	42.50
Move In/Out:		
Rig Cost: (Rig only, charge pump if no cement plugs) ✓ (Drig Package, no \$ for pump, include R/RD time)	13	\$154 /hr \$170 /hr \$340 /day
Supervisor -		2002
Pump Truck (first day \$220, then \$120 each day)		340.00
Stripping Rubbers - (1.25", 1.5", 2", 2.875", 3.5" - \$70)		2122.12
Drilling Field: Air Package		
Stimulation Fluids (Water, KCl)		
Unit #155 2 HR		\$44 /hr
Blts		88.00
Cement: Pump Charge \$300/plug		300.00
Cement - 200 x \$9.00 x 3/5 x 9.90		306.90
Rentals: (DC's, bit sub, etc)		323.31
Fishing Tool Rentals:		
Other Rentals: Water Tank		\$23 /day
Flow Back Tank		\$44 /day
Well Head + Flange		100.00
Transportation: A-Plus #124 - \$45/hr/Helper - \$17/hr		
A-Plus #141 or #151 151	5	\$84 /hr
Others Trucking: 141	5	64.00
Plant		15.00
Logging Services: (CR or CIBP) Size - Set @		
Perforating: BI-Wire \$440, HSC \$490		
Other: (depth \$0.11/ft)		
Production Testing:		
Swabbing, Snubbing, Coiled Tubing: (nitrogen costs)		
Stimulation: (frac, acid)		
Technical Services: (gas & water tests)		
Roustabout Labor		
Packer Rental: (Fullbore 2-7/8" \$530, 4-1/2" + Size \$650)		
RBP, tbg set or wireline \$550		
Casing Scraper \$250		
Work String 238 753' x 10"		128.01
Disposal:		
OTHER:		
Direct Labor		
Overhead:		
Tangible Expense - Provider - Item		
Casing:		
Tubing: Size Length EVE U NU		
Cap & Tbg Equipment:		
Wellhead Equipment:		
Prior Cum \$		Total Cost \$
		New Cum. \$

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QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 9902099-01AMS	Batch ID: 8015GRO_S-	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/2/99	Prep Date:						
Client ID: 9902098	Run ID: GC-1_990302A	SeqNo: 11614									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.717	0.18	1.801	0	95.4%	46	118				

Sample ID: 9902099-01AMS	Batch ID: 8015GRO_S-	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/2/99	Prep Date:						
Client ID: 9902098	Run ID: GC-1_990302A	SeqNo: 11615									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.71	0.18	1.801	0	94.9%	46	118	1.717	0.5%	12	

Qualifiers: ND - Not Detected at the Reporting Limit
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Daily Report

A - PLUS WELL SERVICE

P.O. BOX 1979 • FARMINGTON, NM 87408
505-325-2627 • FAX (505) 325-1211

15672

Rig No. 6

Date

Thursday
August 12 1999

NMOCO

Well No. Santa Fe River #1Location Sec 20 T16N R4W

Company

Capital Prod

FROM	TO	DESCRIPTION OF OPERATION
4:30am	6:30	Drive to Loc.
6:30am	6:45	Held Safety Meeting. Driving on muddy Roads
		Open Well - 0 PSI
6:45am	7am	T14 Tag Plug #1 at 522'
7am	7:20	Load Hole & Pressure test To 500 PSI. Hold for 10 min OK
7:20	7:45	Lay down 9 STs left 8 STs in hole and at 252'
7:45		Plug to mix 36.5K class B neat cement at 156' +
	8am	Spot from 252' up to surface
8am	8:30am	Pull & Lay down TBC Tap off well with mix cement
8:30am	9am	NO ODP + Seal Head
9am	10am	Rig down Rig & Cement Equipment & move off
		Loc.

Fuel & Motor Oil

Water Hauled

Rental Equipment

Cement Retainers

Cementing

Wireline

CREW	NAME	UNIT #	MILEAGE	HOURS
Supervisor	George Jones	19		
Operator	Sam Stuart	10		5 1/2
Helper	Robert Valasquez			5 1/2
Helper	Herato Barcia			5 1/2
Helper	Chuck Leuzzi			5 1/2

Date

8/12/99

On Site Technologies, LTD.

Date: 11-Mar-99

CLIENT: Conoco, Inc.
Work Order: 9902098
Project: Kate Standage 1 DIIP

QC SUMMARY REPORT
Method Blank

Sample ID: MBlank	Batch ID: 8015GRO_S-	Test Code: SW8015	Units: mg/Kg	Analysis Date: 3/2/99	Prep Date:
Client ID:	9902098	Run ID: GC-1_990302A		SeqNo: 11604	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
T/R Hydrocarbons: C6-C10	ND	0.18			
				LowLimit	HighLimit
				RPD Ref Val	%RPD
				RPDLimit	Qual

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NMOC

Well Name		Day	Work Date		
Santa Fe Aligash #1		2	8/12/9		
Company					
Code	Intangible Expense - Provider - Services	Hours	Rate	\$ w/o Tax	\$ w/6% Tax
13	Location Cost: Dump Anchors + Back Fill Pit	5	47.50	237.50	251.75
15	Move In/Out: clean up				
17	Rig Cost: (Rig only, charge pump if no cement plugs) (Drig Package, no \$ for pump, include RU/RD time)	5 1/2	\$154 /hr \$170 /hr	847.00 928.00	897.82 981.82
	Supervisor -	1 day	\$240 /day	240.00	254.40
	Pump Truck (first day \$220, then \$120 each day)				
	Stripping Rubbers - (1.25", 1.5", 2", 2.675", 3.5" - \$70)				
0	Drilling Fluid: Air Package				
6	Stimulation Fluids (Water, KCl)				
	Unit #155		\$44 /hr		
7	Bits				
8	Cement: Pump Charge \$300/plug Cement 36 sacs x \$9.90/sac			300.00 356.40	318.00 377.36
9	Rentals: (DC's, bit sub, etc)				
8	Fishing Tool Rentals:				
8	Other Rentals: Water Tank		\$23 /day	23.00	24.38
	Flow Back Tank		\$44 /day	44.00	46.64
	Flare	1 day		7.50	7.95
3	Transportation: A-Plus #124 - \$45/hr, Helper - \$17/hr A-Plus #141 or #151 Others Trucking:		\$64 /hr		100.00
1	Logging Services: (CR or CIBP) Size - Set @ Perforating: Bl-Wire \$440, HSC \$490 Other: (depth \$0.11/ft)				
1	Production Testing:				
	Swabbing, Snubbing, Coiled Tubing: (nitrogen costs)				
	Stimulation: (frac, acid)				
	Technical Services: (gas & water tests)				
	Roustabout Labor				
	Packer Rental: (Fullbore- 2-7/8" - \$530, 4-1/2" + Size - \$660) RBP, tbg set or wireline \$850 Casing Scraper \$250 Work String 253'				135.69
	Disposal:				
	OTHER:				
	Direct Labor				
	Overhead:				
30	Tangible Expense - Provider - Item				
	Casing:				
	Tubing: Size Length EUE U NU				
	Csg & Tbg Equipment:				
	Wellhead Equipment:				
				Total Cost \$	2299.34
				Prior Cum \$	4457.95
				New Cum. \$	6757.31

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QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 DRO_98120	Batch ID: GC-2_990308	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/8/99	Prep Date:
Client ID: 9902098	Run ID: GC-2_990308A			SeqNo: 11962	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
T/R Hydrocarbons: C10-C28	468.3	25	501.9	0	93.3% 85 115
Sample ID: CCV2 DRO_98120	Batch ID: GC-2_990308	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/9/99	Prep Date:
Client ID: 9902098	Run ID: GC-2_990308A			SeqNo: 11983	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
T/R Hydrocarbons: C10-C28	453.5	25	501.9	0	90.4% 85 115
Sample ID: CCV3 DRO_98120	Batch ID: GC-2_990308	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/9/99	Prep Date:
Client ID: 9902098	Run ID: GC-2_990308A			SeqNo: 11984	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
T/R Hydrocarbons: C10-C28	462.8	25	501.9	0	92.2% 85 115
Sample ID: CCV4 DRO_98120	Batch ID: GC-2_990308	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/10/99	Prep Date:
Client ID: 9902098	Run ID: GC-2_990308A			SeqNo: 11985	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
T/R Hydrocarbons: C10-C28	476	25	501.9	0	94.8% 85 115
Sample ID: CCV5 DRO_98120	Batch ID: GC-2_990308	Test Code: SW8015	Units: mg/Kg	Analysis Date 3/10/99	Prep Date:
Client ID: 9902098	Run ID: GC-2_990308A			SeqNo: 11986	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC Lowlimit Highlimit RPD Ref Val %RPD RPDlimit Qual
T/R Hydrocarbons: C10-C28	470.3	25	501.9	0	93.7% 85 115

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
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