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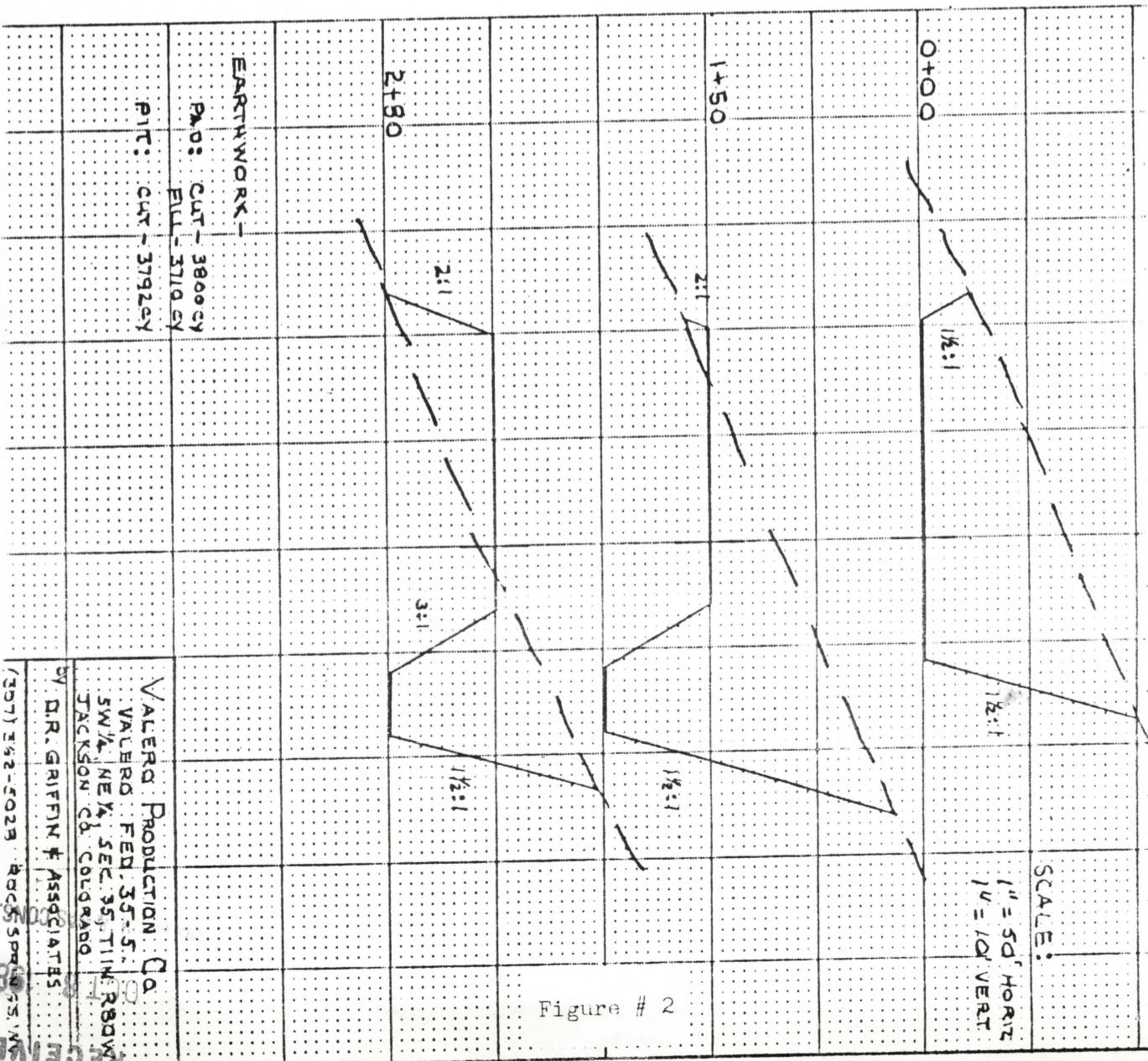
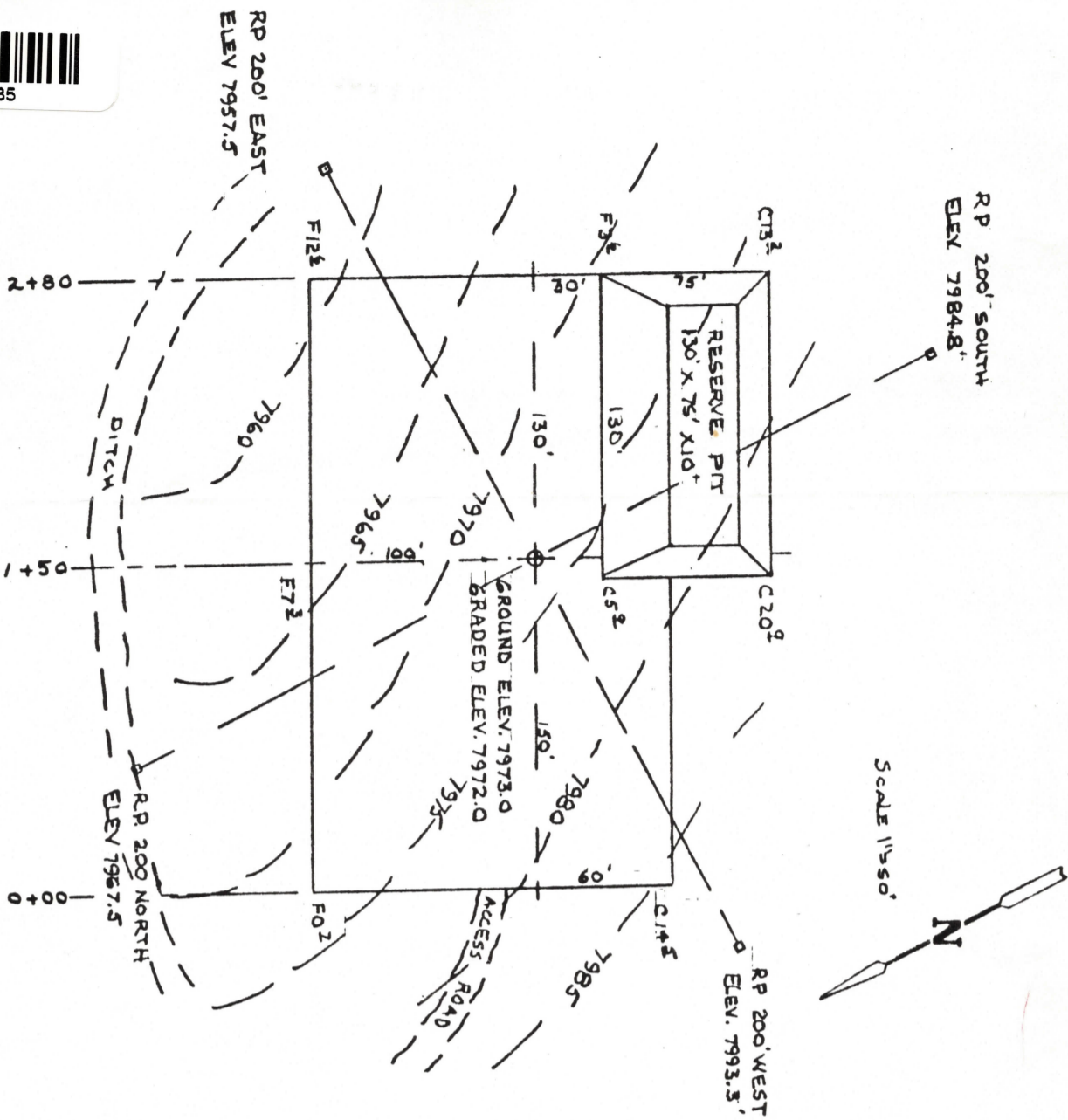


Figure # 2

VALERO PRODUCTION Co.
VALERO, FEB. 35-5.
SW 1/4, NE 1/4, SEC. 35, T11N, R80W
JACKSON CO. COLORADO

BY D.R. GRIFFIN & ASSOCIATES

(307) 262-6029 BOCS 5 PR 0.5 IN

COMM.



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DEC 18 1985

Drilling Mud Report

Report No. 13

Date 11-14

19 85

Total Depth - 3619 Drilling Depth - 3619

Operator
VALERO PROD CO

Address

RIG

Report for Mr.

DON ADAMS

Well Name and No.

VALERO FED 35-5

Operations

Present Activity

CIR TO RUN 5" CSG

Bit Size (in.)

8 3/4

Drill Pipe Size

4

Drill Collar Size

6 x 2 3/8

Sample from ☐ Flowline ☐ Pit

Flowline Temperature _____ °F

Time Sample Taken A.M. ☐ P.M. ☐

Depth (ft.)

Weight ☒ (ppg) ☐ (lb./cu. ft.)

Mud Gradient (psi/ft.)

Funnel Viscosity (sec./qt.) API at _____ °F

Plastic Viscosity cps at _____ °F

Yield Point (lb./100 sq. ft.)

Gel Strength (lb./100 sq. ft.) 10 sec./10 min.

PH ☐ Strip ☐ Meter

Filtrate API (ml/30 min.)

API HP-HT Filtrate (ml/30 min.) _____ °F

Cake Thickness 32nd in. API ☐ HP-HT ☐

Alkalinity, Mud (Pm)

Alkalinity, Filtrate (P/Mf)

Chloride ☐ ppm ☐ gpg

Salt ☐ ppm ☐ gpg

Calcium ☐ ppm

Sand Content (% by Vol.)

Solids Content (% by Vol.)

Water Content (% by Vol.)

Make Up Salt Water (ppm NaCl)

Remarks — Give operation, depth and nature of any problems encountered

☐ Drilling @

☐ Tripping @

☐ Gas kick @

☐ Stuck pipe @

☐ Tight hole @

☐ Sloughing Shale @

☐ Lost Returns @

Engineer

PHIL GERINI

Home Address

CRAIG CO

Warehouse Location

Phone

824-6954

Phone

Cost-Time Summary / 11-14 hours ending 0500

Products	Units			Total	Unit Cost	Cost	Corrosion Control	Daily Operations
	M	D	E					
Ultra-Gel							C. Ring No.	
Ultra-Starch							Installment Date/Time	
Ultra-Salt Gel							Installment Depth	
Sea Mud							Suggested Removal Date	
Ultra-Mica							Mud Cost Summary	
Salt								
							Cumulative Cost to Date	\$ <u>8155.00</u>
							Mud / /	\$ <u>—</u>
							Drayage/Rental	\$ <u>600.00</u>
							State Tax	\$ <u>—</u>
							Total Cost / /	\$ <u>600.00</u>
Drayage/Rental Charges							Cumulative Cost	\$ <u>8755.00</u>

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Roughrider
Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328



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DEC 18 1985

Drilling Mud Report

Report No. 12

Date 11-13

19 85

COLO. OIL & GAS CONS. COMM.

Total Depth - 3619 Drilling Depth - 3619

Operator VALERO PROD CO Contractor KELLY DRILL CO Rig No. 3
Address RIG Address RIG Spud Date 11-1-85
Report for Mr. DON ADAMS Report for Mr. ROD FORSYTHE Section, Township Range 35, 11N, 80W
Well Name and No. VALERO FED 35-5 Field W/C County JACKSON State CO

Operations		Casing	Mud Volume (BBL)	Circulation Data
Present Activity		Surface	Hole Pits	Pump Size X in.
CIR w/o loggers		9 5/8 in. at 506 ft.	290 300	5 1/2 14
Bit Size (in.)	No.	Intermediate	Total Circulating Volume	Pump Make
8 3/4	5	in. at ft.	590	EMSCO
Drill Pipe Size	Type	Production or Liner	In Storage	Model
4	FH	in. at ft.	NONE	D-300
Drill Collar Size	Length	Mud Type	Bbl/Stroke	Stroke/Min.
6 x 2 3/8	567 3/4	DISP	0938	60
			Bbl/Min.	
			5.628	

Sample from Flowline		Mud Properties		Equipment in Use		Operate	Underflow
Flowline Temperature	°F			Size	Hrs./Tour		(#/gal)
Time Sample Taken	A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>	0500		Desander	NONE	N/A	N/A
Depth (ft.)		3619		Desilter	5 x 4	12	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		9.5		Other (SAR)	40 x 40	12	N/A
Mud Gradient (psi/ft.)		1.494		Mud Properties Specifications			
Funnel Viscosity (sec./qt.) API at	°F	63		Weight	8 1/2	Viscosity	38/40 50+
Plastic Viscosity cps at	°F	38		By Authority		<input type="checkbox"/> Operator's Written <input checked="" type="checkbox"/> Operator's Representative	Filtrate 215cc
Yield Point (lb./100 sq. ft.)		20		Recommended Treatment			
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		10/36		<input checked="" type="checkbox"/> Ultra-Gel	SX	AS NEEDED FOR VIS	
PH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		9.0		<input type="checkbox"/> Ultra-Starch	SX	OF 38/40 50+	
Filtrate API (ml/30 min.)		4.8		<input type="checkbox"/> Ultra-Salt Gel	SX		
API HP-HT Filtrate (ml/30 min.)	°F			<input type="checkbox"/> Sea Mud	SX		
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		2		<input type="checkbox"/> Ultra-Mica	SX		
Alkalinity, Mud (Pm)				<input type="checkbox"/> Salt	SX		
Alkalinity, Filtrate (Pt/Mf)		4.6		<input checked="" type="checkbox"/> STAFLO	O SX	OVER 2 HOURS	
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		200		<input checked="" type="checkbox"/> CAU/LIG	O SX	OVER 2 HOURS	
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg				<input type="checkbox"/>			
Calcium <input checked="" type="checkbox"/> ppm		TR		<input type="checkbox"/>			
Sand Content (% by Vol.)		1/4		<input type="checkbox"/>			
Solids Content (% by Vol.)		8.5		<input checked="" type="checkbox"/> DO NOT BY PASS STRS.			
Water Content (% by Vol.)		91.5		<input type="checkbox"/>			
Make Up Salt Water (ppm NaCl)				<input type="checkbox"/> Salt Water			
				<input checked="" type="checkbox"/> Fresh Water	1" STREAM WHILE DRILLING		

Remarks — Give operation, depth and nature of any problems encountered

Mix mud evenly over 2 hours

☐ Drilling @ TD @ 2130 HRS, 11-12, 85

☐ Tripping @

☐ Gas kick @ SURVEY @ 3619' (3 1/4")

☐ Stuck pipe @

☐ Tight hole @

☐ Sloughing Shale @

☐ Lost Returns @

Engineer PHIL GERINI

Home Address NORTH PARK MOTEL #9
Warehouse Location

Phone 723-4271
Phone

THANKS

Cost-Time Summary / 11-13 hours ending 0515

Products	M	D	E	Units	Total	Unit Cost	Cost	Corrosion Control	Daily Operations
Ultra-Gel					130	5.20	676.00	C. Ring No.	
Ultra-Starch STAFLO					1	150.00	150.00	Installment Date/Time	
Ultra-Salt Gel CAU/LIG					2	19.25	38.50	Installment Depth	
Sea Mud FIBER					1	13.50	13.50	Suggested Removal Date	
Ultra-Mica LIME					2	5.70	11.40	Mud Cost Summary	
Salt								Cumulative Cost to Date	\$ 7221.00
								Mud / /	\$ 889.00
								Drayage/Rental	\$ —
								State Tax	\$ 45.00
Drayage/Rental Charges								Total Cost / /	\$ 934.00
								Cumulative Cost	\$ 8155.00

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Drilling Fluids, Inc.

Box 1737
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701/572-8328



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DEC 18 1985
COLO. OIL & GAS CONS. COMM.

Drilling Mud Report

Report No. 11

Date 11-12

19 85

Total Depth - 3343

Drilling Depth - 3343

Operator **VAPECO** Contractor **KELLY DRUG CO** Rig No. **3**
Address **RIG** Address **RIG** Spud Date **11-1-85**
Report for Mr. **DON ADAMS** Report for Mr. **POD FORSYTHE** Section, Township Range
Well Name and No. **VALECO FED 35-5** Field **W/C** County **JACKSON** State **CO**
35, 11N, 80W

Operations		Casing	Mud Volume (BBL)		Circulation Data	
Present Activity		Surface	Hole	Pits	Pump Size	Annular Vel. (Ft./Min.)
DRUG		9 5/8 in. at 506 ft.	268	250	5 1/2 X 14	Opposite DP 89
Bit Size (in.)	No.	Intermediate	Total Circulating Volume		Pump Make	Opposite Collar
8 3/4	5		518		EMSCO	129
Drill Pipe Size	Type	Production or Liner	In Storage	Bbl/Stroke	Model	Circulating Pressure psi
4	FH		NONE	60	D-300	600
Drill Collar Size	Length	Mud Type	Bbl/Min.	Stroke/Min.		Bottoms Up (Min.)
6 x 2 3/8	567 2/3	DISP	5.628	60		48
Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit						System Total (Min.) 92

Flowline Temperature		Mud Properties		Equipment in Use		Operate Hrs./Tour	Underflow (#/gal)
Time Sample Taken	A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>			Desander	Size		
Depth (ft.)		0500		NONE	N/A		N/A
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		3343		Desilter			
Mud Gradient (psi/ft.)		9.5		5x4	12		10³
Funnel Viscosity (sec./qt.) API at		.494		Other (SAR)	40x40	12	N/A
Plastic Viscosity cps at		32		Mud Properties Specifications			
Yield Point (lb./100 sq. ft.)		22		Weight	8 2/9²	Viscosity	38/40
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		4		By Authority	<input type="checkbox"/> Operator's Written <input checked="" type="checkbox"/> Operator's Representative	Filtrate	<15cc
PH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		9.0		Recommended Treatment			
Filtrate API (ml/30 min.)		5.6		<input checked="" type="checkbox"/> Ultra-Gel	SX	AS NEEDED FOR VIS	
API HP-HT Filtrate (ml/30 min.)				<input type="checkbox"/> Ultra-Starch	SX	OF 38-40.	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		1		<input type="checkbox"/> Ultra-Salt Gel	SX		
Alkalinity, Mud (Pm)				<input type="checkbox"/> Sea Mud	SX		
Alkalinity, Filtrate (Pf/Mf)		4/1.7		<input type="checkbox"/> Ultra-Mica	SX		
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		200		<input type="checkbox"/> Salt	SX		
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg				<input checked="" type="checkbox"/> STAFLO	1	SX	OVER 2 HOURS
Calcium <input checked="" type="checkbox"/> ppm		NIL		<input checked="" type="checkbox"/> CAU-116	1	SX	OVER 2 HOURS
Sand Content (% by Vol.)		1/4		<input type="checkbox"/>			
Solids Content (% by Vol.)		8.5		<input type="checkbox"/>			
Water Content (% by Vol.)		91.5		<input checked="" type="checkbox"/>	DO NOT BYPASS SARs.		
Make Up Salt Water (ppm NaCl)				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input checked="" type="checkbox"/>	Fresh Water 1" STREAM WHILE DRUG.		

Remarks — Give operation, depth and nature of any problems encountered

Mix mud evenly over **2** hours

☐ Drilling @ **SURVEY @**

☐ Tripping @

☐ Gas kick @ **KEEP WT @ 8 2/9² WITH WATER AND DUMPING PITS.**

☐ Stuck pipe @

☐ Tight hole @ **MAINTAIN VIS @ 38-40 WITH GEL**

☐ Sloughing Shale @

☐ Lost Returns @ *** PRIOR TO REACHING TD (3900') RAISE VIS TO 50+ WITH GEL! ***

THANKS

Engineer **PHILIP GERINI**

Home Address **NORTH PARK MOTEL #9**
Warehouse Location

Phone **723-4271**
Phone

Cost-Time Summary / 11-12 hours ending 0515

Products	Units				Unit Cost	Cost	Corrosion Control	Daily Operations
	M	D	E	Total				
Ultra-Gel				25	5.20	130.00	C. Ring No.	
Ultra-Starch SAFLO				2	150.00	300.00	Installment Date/Time	
Ultra-Salt Gel CAU/116				2	19.25	38.50	Installment Depth	
Sea Mud							Suggested Removal Date	
Ultra-Mica							Mud Cost Summary	
Salt							Cumulative Cost to Date	\$ 6729.00
							Mud / /	\$ 468.50
							Drayage/Rental	\$ —
							State Tax	\$ 23.00
Drayage/Rental Charges							Total Cost / /	\$ 492.00
							Cumulative Cost	\$ 7221.00

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DEC 18 1985

Drilling Mud Report

Report No. 10

Date 11-11

19 85

Total Depth - 2719

Drilling Depth - 2719

Operator
VALERO PROD CO

Address
RIG

Report for Mr.

DON ADAMS

Well Name and No.

VALERO FED 35-5

Operations

Present Activity

WORK ON MUD PUMPS

Bit Size (in.)

8 3/4

Drill Pipe Size

4

Drill Collar Size

6 x 2 3/8

Sample from Flowline

Flowline Temperature

Time Sample Taken A.M. ☐ P.M. ☐

Depth (ft.)

Weight (ppg) ☐ (lb./cu. ft.)

Mud Gradient (psi/ft.)

Funnel Viscosity (sec./qt.) API at

Plastic Viscosity cps at

Yield Point (lb./100 sq. ft.)

Gel Strength (lb./100 sq. ft.) 10 sec./10 min.

PH Strip ☐ Meter

Filtrate API (ml/30 min.)

API HP-HT Filtrate (ml/30 min.)

Cake Thickness 32nd in. API ☐ HP-HT ☐

Alkalinity, Mud (Pm)

Alkalinity, Filtrate (Pt/Mf)

Chloride ☐ ppm ☐ gpg

Salt ☐ ppm ☐ gpg

Calcium ☐ ppm

Sand Content (% by Vol.)

Solids Content (% by Vol.)

Water Content (% by Vol.)

Make Up Salt Water (ppm NaCl)

Contractor

COLO. KELLY DRILL CO

Address

RIG

Report for Mr.

ROD FORSYTHE

Field

W/C

County

JACKSON

Rig No.

3

Spud Date

11-1-85

Section, Township Range

35 11N 80W

State

CO

Casing		Mud Volume (BBL)		Circulation Data	
Surface	9 5/8 in. at 506 ft.	Hole	234 250	Pump Size	5 1/2 X 14 in.
Intermediate		Pits		Annular Vel. (Ft./Min.)	Opposite DP 89
Production or Liner		Total Circulating Volume	484	Pump Make	EMSCO
		In Storage	NONE	Model	D-300
				Bbl/Stroke	Stroke/Min. 10938 60
				Bbl/Min.	5.628
					Circulating Pressure psi 129
					Bottoms Up (Min.) 42
					System Total (Min.) 86

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit		Mud Properties		Equipment in Use		Operate Hrs./Tour		Underflow (#/gal)	
Flowline Temperature _____ °F				Size					
Time Sample Taken A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>		0500		Desander		NONE		-	
Depth (ft.)		2919		Desilter		5x4		12	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		9.3		Other (SAR)		40x40		12	
Mud Gradient (psi/ft.)		.4836						N/A	
Funnel Viscosity (sec./qt.) API at _____ °F		35		Mud Properties Specifications					
Plastic Viscosity cps at _____ °F		20		Weight		82/92		Viscosity 35-38	
Yield Point (lb./100 sq. ft.)		8		By Authority		<input type="checkbox"/> Operator's Written <input checked="" type="checkbox"/> Operator's Representative		Filtrate 15cc	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		1-5						<input type="checkbox"/> Drilling Contractor <input type="checkbox"/> Other	
PH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		9.0		*PER 12 HR TOUR ->				Recommended Treatment *	
Filtrate API (ml/30 min.)		5.6		<input checked="" type="checkbox"/> Ultra-Gel		SX		AS NEEDED FOR VIS	
API HP-HT Filtrate (ml/30 min.) _____ °F		/		<input type="checkbox"/> Ultra-Starch		SX		OF 35-38.	
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>		1		<input type="checkbox"/> Ultra-Salt Gel		SX			
Alkalinity, Mud (Pm)		/		<input type="checkbox"/> Sea Mud		SX			
Alkalinity, Filtrate (Pf/Mf)		.4/.8		<input type="checkbox"/> Ultra-Mica		SX			
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		200		<input type="checkbox"/> Salt		SX			
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg		/		<input checked="" type="checkbox"/> STAFLO		1		SX OVER 2 HOURS	
Calcium <input checked="" type="checkbox"/> ppm		7R		<input checked="" type="checkbox"/> CAU-LIG		1		SX OVER 2 HOURS	
Sand Content (% by Vol.)		1/4		<input type="checkbox"/>					
Solids Content (% by Vol.)		7.1		<input type="checkbox"/>					
Water Content (% by Vol.)		92.9		<input checked="" type="checkbox"/> DO NOT BY PASS SHAKER.					
Make Up Salt Water (ppm NaCl)		/		<input type="checkbox"/>					
				<input type="checkbox"/> Salt Water					
				<input checked="" type="checkbox"/> Fresh Water				RUN 1" STREAM WATER WHILE DRILLING	

Remarks - Give operation, depth and nature of any problems encountered

Mix mud evenly over 2 hours

☐ Drilling @ SURVEY @

☐ Tripping @

☐ Gas kick @ KEEP WT @ 82/92 BY RUNNING WATER AND DUMPING PITS.

☐ Stuck pipe @

☐ Tight hole @ *MAINTAIN VIS @ 35-38 WITH GEL.*

☐ Sloughing Shale @

☐ Lost Returns @ IF HOLE BECOMES FLIGHT ON CONN, RAISE VIS WITH GEL TO 42/45!

Engineer

PHIL GERINI

Home Address

NORTH PARK MOTEL #9

Warehouse Location

Phone

723-4271

Phone

Cost-Time Summary/ 11-11 hours ending 0500

Products	Units			Unit Cost	Cost	Corrosion Control	Daily Operations
	M	D	E				
Ultra-Gel				27	5.20	140.40	
Ultra-Starch STAFLO				2	150.00	300.00	
Ultra-Salt Gel CAU/LIG				2	19.25	38.50	
Sea Mud							
Ultra-Mica							
Salt							
Mud Cost Summary							
Cumulative Cost to Date							\$ 6226.00
Mud / /							\$ 479.00
Drayage/Rental							\$ -
State Tax							\$ 24.00
Total Cost / /							\$ 503.00
Cumulative Cost							\$ 6729.00

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Roughrider Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328



DEC 18 1985

COLO. OIL & GAS CONS. COMM.

Drilling Mud Report

Report No. 9

Date 11-10

19 85

Total Depth - 2666 Drilling Depth - 2666

Operator <u>VALERO PROD CO</u>	Contractor <u>KELLY DRILL CO</u>	Rig No. <u>3</u>
Address <u>RIG</u>	Address <u>RIG</u>	Spud Date <u>11-1-85</u>
Report for Mr. <u>DON ADAMS</u>	Report for Mr. <u>ROD FORSYTHE</u>	Section, Township Range <u>35-11N, 80W</u>
Well Name and No. <u>VALERO FED 35-5</u>	Field <u>W/C</u>	State <u>CO</u>
	County <u>JACKSON</u>	

Operations	Casing	Mud Volume (BBL)	Circulation Data
Present Activity <u>WORK ON #2 DUKS MOTOR</u>	Surface <u>9 5/8</u> in. at <u>506</u> ft.	Hole <u>216</u> Pits <u>250</u>	Pump Size <u>5 1/2</u> X <u>14</u> in.
Bit Size (in.) <u>8 3/4</u>	No. <u>4</u>	Total Circulating Volume <u>466</u>	Pump Make <u>EMSCO</u>
Drill Pipe Size <u>4</u>	Type <u>FH</u>	In Storage <u>NONE</u>	Model <u>0-300</u>
Drill Collar Size <u>6 x 2 3/8</u>	Length <u>567 1/2</u>	Bbl/Stroke <u>1.0938</u>	Stroke/Min. <u>60</u>
Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	Mud Type <u>DISP</u>	Bbl/Min. <u>5.628</u>	Annular Vel. (Ft./Min.) <u>89</u>
Flowline Temperature _____ °F			Opposite DP <u>89</u>
Time Sample Taken A.M. <input type="checkbox"/> P.M. <input type="checkbox"/>			Opposite Collar <u>129</u>
Depth (ft.) <u>2666</u>			Circulating Pressure psi <u>1000</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>9.3</u>			Bottoms Up (Min.) <u>38</u>
Mud Gradient (psi/ft.) <u>.4836</u>			System Total (Min.) <u>83</u>
Funnel Viscosity (sec./qt.) API at _____ °F <u>35</u>			
Plastic Viscosity cps at _____ °F <u>18</u>			
Yield Point (lb./100 sq. ft.) <u>8</u>			
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>1-10</u>			
PH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>8.5</u>			
Filtrate API (ml/30 min.) <u>8.0</u>			
API HP-HT Filtrate (ml/30 min.) _____ °F			
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/> <u>1</u>			
Alkalinity, Mud (Pm)			
Alkalinity, Filtrate (Pm/Mf) <u>.02/05</u>			
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg <u>400</u>			
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> gpg			
Calcium <input checked="" type="checkbox"/> ppm <u>NIL</u>			
Sand Content (% by Vol.) <u>1/4</u>			
Solids Content (% by Vol.) <u>7.1</u>			
Water Content (% by Vol.) <u>92.9</u>			
Make Up Salt Water (ppm NaCl)			

Equipment in Use	Operate Hrs./Tour	Underflow (#/gal)
Desander <u>NONE</u>	<u>N/A</u>	<u>N/A</u>
Desilter <u>5x4</u>	<u>12</u>	
Other (SKR) <u>40x40</u>	<u>12</u>	<u>N/A</u>
Mud Properties Specifications		
Weight <u>89/90</u>	Viscosity <u>35-38</u>	Filtrate <u><15cc</u>
By Authority <input checked="" type="checkbox"/> Operator's Representative	<input type="checkbox"/> Operator's Written	<input type="checkbox"/> Drilling Contractor
	<input type="checkbox"/> Other	
*PER 12 HR TOUR -> Recommended Treatment *		
<input checked="" type="checkbox"/> Ultra-Gel	SX	<u>AS NEEDED FOR VLS</u>
<input type="checkbox"/> Ultra-Starch	SX	<u>OF 35-38.</u>
<input type="checkbox"/> Ultra-Salt Gel	SX	
<input type="checkbox"/> Sea Mud	SX	
<input type="checkbox"/> Ultra-Mica	SX	
<input type="checkbox"/> Salt	SX	
<input checked="" type="checkbox"/> STARLO	<u>1</u>	<u>SX OVER 2 HOURS</u>
<input checked="" type="checkbox"/> CAN-LIG	<u>1</u>	<u>SX OVER 2 HOURS</u>
<input type="checkbox"/>		
<input checked="" type="checkbox"/> DO NOT BY PASS SHAKER.		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/> Salt Water		
<input checked="" type="checkbox"/> Fresh Water		<u>RUN 1" STREAM WATER WHILE DRILLING</u>

Remarks — Give operation, depth and nature of any problems encountered

☐ Drilling @ SURVEY @ 2206' (1°), 2666' (2°)

☐ Tripping @

☐ Gas kick @ KEEP WT @ 8 1/2 BY RUNNING WATER AND DUMPING PITS.

☐ Stuck pipe @

☐ Tight hole @ MAINTAIN VLS @ 35/38 WITH GEL

☐ Sloughing Shale @

☐ Lost Returns @

@ 1815 HRS, 11-9-85, TRIP OUT TO WORK ON #2 DUKS MOTOR.

Engineer <u>PHIL GERINI</u>	Home Address <u>NORTH PARK MOTEL #9</u>	Phone <u>723-4271</u>
	Warehouse Location	Phone

Cost-Time Summary / 11-10 hours ending 0500

Products	M	D	E	Total	Unit Cost	Cost	Corrosion Control	Daily Operations
Ultra-Gel				8	5.20	41.60	C. Ring No.	
Ultra-Starch <u>STARLO</u>				1	150.00	150.00	Installment Date/Time	
Ultra-Salt Gel <u>CAN-LIG</u>				1	19.25	19.25	Installment Depth	
Sea Mud							Suggested Removal Date	
Ultra-Mica							Mud Cost Summary	
Salt							Cumulative Cost to Date	\$ 6004.00
							Mud	\$ 211.00
							Drayage/Rental	\$
							State Tax	\$ 11.00
Drayage/Rental Charges							Total Cost	\$ 222.00
							Cumulative Cost	\$ 6226.00

Roughrider Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328

COLO. OIL & GAS CONS. COMM.
1675 Larimer Street
Suite 710
Denver, Colorado 80202
303/623-0671



Drilling Mud Report

Report No. 7

Date 11-8

1985

Total Depth - 1791

Drilling Depth - 1791

Operator
VALERO PROD CO

Address

RIG

Report for Mr.

DON ADAMS

Well Name and No.

VALERO PROD CO

Contractor

KELLY DARE CO

Address

RIG

Report for Mr.

ROD FORSYTHE

Field

W/C

Rig No.

3

Spud Date

11-1-85

Section, Township, Range

35, 11N, 80W

County

JACKSON

State

CO

Operations			Casing	Mud Volume (BBL)		Circulation Data	
Present Activity <u>DRAG</u>			Surface <u>9 5/8</u> in. at <u>506</u> ft.	Hole <u>143</u>	Pits <u>300</u>	Pump Size #1 <u>5 1/2</u> X <u>14</u> in.	Annular Vel. (Ft./Min.) Opposite DP <u>95</u>
Bit Size (in.) <u>8 3/4</u>	Type Jets <u>2-11/12</u>	No. <u>4</u>	Intermediate in. at ft.	Total Circulating Volume <u>443</u>		Pump Make <u>EMSCO</u> Model <u>0300</u>	Opposite Collar <u>141</u>
Drill Pipe Size <u>4</u>			Type <u>XH</u>	Production or Liner in. at ft.	In Storage <u>NONE</u>	Bbl/Stroke <u>.0938</u>	Stroke/Min. <u>60</u>
Drill Collar Size <u>6 X 2 3/8</u>			Length <u>567 3/4</u>	Mud Type <u>DISP</u>	Pump Efficiency <u>75</u> %	Bbl/Min. <u>5.628</u>	Gal/Min. <u>236</u>
Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit			Mud Properties		Equipment in Use		Operate
Flowline Temperature _____ F					Size		Hrs./Tour
Time Sample Taken a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>					Desander		Underflow (#/Gal.)
Depth (ft.)					Desilter		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)					Other ()		
Mud Gradient (psi/ft.)					Mud Properties Specifications		
Funnel Viscosity (sec./qt.) API at _____ F					Weight <u>35-38</u>		Filtrate <u><15cc</u>
Plastic Viscosity (cps) at _____ F					By Authority <input type="checkbox"/> Operator's Written <input type="checkbox"/> Operator's Representative <input type="checkbox"/> Drilling Contractor <input type="checkbox"/> Other		
Yield Point (lb./100 sq. ft.)					Recommended Treatment		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.					AS NEEDED FOR VIS		
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter					OF <u>35-38</u>		
Filtrate API (ml/30 min.)					PER 12 HR TOUR		
API HP-HT Filtrate (ml/30 min.) _____ F					Ultra Ben SX		
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>					Ultra Starch SX		
Alkalinity, Mud (Pm)					Ultra Salt Gel SX		
Alkalinity, Filtrate (P/M)					Soda Ash SX		
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg					STAFFLO 1 SX		OVER 2 HOURS
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg					CAU-LIG 3 SX		OVER 2 HOURS
Calcium <input checked="" type="checkbox"/> ppm Lime lb./bbl. <input type="checkbox"/>					DD SX		NONE
Sand Content (% by Vol.)					CAUSTIC SX		NONE
Solids Content (% by Vol.)					Fresh Water		
Water Content (% by Vol.)					Salt Water		
Make Up Water (ppm NaCl) <input type="checkbox"/> (ppm Cl) <input type="checkbox"/>					Fresh Water		
Methylene Blue Capacity <input type="checkbox"/> lb./bbl. equiv. <input type="checkbox"/> cm ³ /cm ³ mud					DUMP PITS TO KEEP WT @ <u>89/90</u>		

Remarks - Give operation, depth and nature of any problems encountered.

Mix mud EVENLY over 2 hours

☐ Drilling @ SURVEY @ 1731' (1 1/2")

☐ Tripping @

☐ Gas kick @ DO NOT BYPASS SHAKERS

☐ Stuck pipe @

☐ Tight hole @ RUN DESILTER

☐ Sloughing Shale @

☐ Lost Returns @

Engineer
Phil GAINI

Home Address

NORTH PARK MOTEL #9

Phone

723-4271

Warehouse Location

Phone

Mobile/radio no.

Cost-Time Summary/ 11-8 hours ending 0530

Products	M	D	E	Total	Unit Cost	Cost	Corrosion Control	Previous Day's Operations
Ultra Ben					5.20		C. Ring No.	
Ultra Starch <u>STAFFLO</u>				3	150.00	450.00	Installment Date/Time	
Ultra Salt Gel <u>DD</u>				4	58.00	232.00	Installment Depth	
Soda Ash <u>CAU-LIG</u>				4	19.25	77.00	Suggested Removal Date	
CAUSTIC				3	22.50	67.50		
Mud Cost Summary							Cumulative Cost to Date	\$ 4653.00
							Mud	\$ 822.00
							Drayage/Rental	\$
							State Tax	\$ 41.00
							Total Daily Cost	\$ 868.00
							Cumulative Cost	\$ 5521.00

Drayage/Rental Charges

White

YELLOW

PINK

GOLDENROD

Roughrider
Drilling Fluids, Inc.Box 1737
Williston, North Dakota 58801
701/572-8328COLO. 1675 Larimer Street
Suite 710
Denver, Colorado 80202
303/623-0671

DEC 18 1985



Drilling Mud Report

Report No. 4

Date 11-5

1985

Total Depth - 740

Drilling Depth - 740

Operator VALERO PRODUCTION CO Contractor KELLY DRILL CO Rig No. 3
Address RIG Address RIG Spud Date 11-1-85
Report for Mr. DON Adams Report for Mr. ROD Forsythe Section, Township, Range 35 11N 80W
Well Name and No. VALERO FED 5-35 Field W/C County JACKSON State WYO.

Operations			Casing	Mud Volume (BBL)		Circulation Data	
Present Activity <u>DRILL</u>			Surface <u>9 5/8 in. at 506 ft.</u>	Hole <u>60</u>	Pits <u>300</u>	Pump Size # <u>15 1/2 X 14 in.</u>	Annular Vel. (Ft./Min.) <u>103</u>
Bit Size (in.) <u>8 3/4</u>	Type <u>J2</u>	No. <u>2</u>	Intermediate <u>in. at ft.</u>	Total Circulating Volume <u>360</u>		Pump Make <u>EMSCO</u>	Opposite Collar <u>143</u>
Drill Pipe Size <u>4 1/2</u>	Jets <u>3-12</u>	Type <u>XH</u>	Production or Liner <u>in. at ft.</u>	In Storage <u>NONE</u>		Model <u>D-300</u>	Opposite Collar <u>143</u>
Drill Collar Size <u>6 x 2 3/8</u>	Length <u>533 22</u>	Mud Type <u>DISP.</u>		Pump Efficiency <u>75 %</u>		Bbl./Stroke <u>.0938</u>	Circulating Pressure psi <u>600</u>
Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit			Mud Properties	Equipment in Use		Stroke/Min. <u>60</u>	Circulating Pressure psi <u>600</u>
Flowline Temperature <u>F</u>				Size		Gal./Min. <u>236</u>	Bottoms Up (Min.) <u>64</u>
Time Sample Taken a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>				Operate Hrs./Tour			System Total (Min.) <u>11</u>

Time Sample Taken a.m. ☐ p.m. ☐ 0030

Depth (ft.) 740

Weight ☒ (ppg) ☐ (lb./cu. ft.) 8.6

Mud Gradient (psi/ft.) 4.472

Funnel Viscosity (sec/qt.) API at 35

Plastic Viscosity (cps) at 10

Yield Point (lb./100 sq. ft.) 4

Gel Strength (lb./100 sq. ft.) 10 sec./10 min. 1-5

pH ☒ Strip ☐ Meter 10.0

Filtrate API (ml/30 min.) 8.4

API HP-HT Filtrate (ml/30 min.) F

Cake Thickness 32nd in. API 1

Alkalinity, Mud (Pm) 18.9

Alkalinity, Filtrate (Pl/Ml) 10000

Chloride ppm 10000

Salt ppm 40

Calcium ppm 40

Sand Content (% by Vol.) 1/2

Solids Content (% by Vol.) 1.4

Water Content (% by Vol.) 98.6

Make Up Water (ppm NaCl) ☐ (ppm Cl) ☐

Methylene Blue Capacity ☐ lb./bbl. equiv. ☐ cm³/cm³ mud

Remarks - Give operation, depth and nature of any problems encountered.

Mix mud EVENLY over 2 hours

☐ Drilling @ MUD UP COST = \$1392.00

☐ Tripping @ SURVEY @

☐ Gas kick @

☐ Stuck pipe @ IF CONNECTIONS ARE TIGHT RAISE VLS AS NEEDED.

☐ Tight hole @ WATCH SHAKERS, DON'T ALLOW MUD TO FLOW OVER END.

☐ Sloughing Shale @ RUN WATER TO MAINTAIN PIT VOLUME (3/4 FULL)

☐ Lost Returns @

Engineer Phil Gecini Home Address NORTH PARK MOTEL #9 Phone 723-4271

Mobile/radio no. N/A Warehouse Location

THANKS

Cost-Time Summary/ hours ending 11-5-85

Products M D E Total Unit Cost Cost Corrosion Control Previous Day's Operations

Ultra Ben 30 5.20 156.00 C. Ring No.

Ultra Starch STAFLO 4 150.00 600.00 Installment Date/Time

Ultra Salt Gel DD 6 58.00 348.00 Installment Depth

Soda Ash 6 13.50 81.00 Suggested Removal Date

LENALK 4 19.25 77.00

CAUSTIC 3 22.50 67.50

Mud Cost Summary Cumulative Cost to Date \$ 662.00

Mud / / \$ 1330.00

Drayage/Rental \$

State Tax \$ 67.00

Total Daily Cost / \$ 1397.00

Drayage/Rental Charges Cumulative Cost \$ 2059.00

White YELLOW PINK GOLDENROD

Roughrider
Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328

COLONIAL GAS CONS. COMM
Suite 710
Denver, Colorado 80202
303/623-0671

DEC 18 1985



Drilling Mud Report

Report No. 3

Date 11-2

1985

Total Depth - 510

Drilling Depth - 510

Operator **VALEPO PRODUCTION CO** Contractor **KELLY DARR CO** Rig No. **3**
Address **RIG** Address **RIG** Spud Date **11-1-85**
Report for Mr. **DON ADAMS** Report for Mr. **POD FORSYTHE** Section, Township, Range **35 71N 80W**
Well Name and No. **VALERO FED 35-5** Field **WC** County **JACKSON** State **CO**

Operations			Casing		Mud Volume (BBL)		Circulation Data	
Present Activity	CIR TO RUN 9 5/8 CS		Surface	9 5/8 in. at	Hole	70	Pits	300
Bit Size (in.)	Type R-1	No. 1	Intermediate	in. at	Total Circulating Volume	370		
Drill Pipe Size	Type XH	Production or Liner	in. at	ft.	In Storage	NONE		
Drill Collar Size	Length 510	Mud Type H₂O			Pump Efficiency	90 %	Bbl/Min. 6.78	Gal/Min. 285

Sample from		Mud Properties		Equipment in Use		Operate		Underflow	
Flowline Temperature		F		Size		Hrs/Tour		(#/Gal.)	
Time Sample Taken	a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>	1530		Desander					
Depth (ft.)		510		Desilter					
Weight (ppg) <input checked="" type="checkbox"/> (lb/cu. ft.) <input type="checkbox"/>		8.6		Other					
Mud Gradient (psi/ft.)		4472		Mud Properties Specifications					
Funnel Viscosity (sec./qt.) API at _____ F		48		Weight	NC	Viscosity	NC	Filtrate	NC
Plastic Viscosity (cps) at _____ F		15		By Authority	<input type="checkbox"/> Operator's Written	<input checked="" type="checkbox"/> Operator's Representative	<input type="checkbox"/> Drilling Contractor	<input type="checkbox"/> Other	
Yield Point (lb/100 sq. ft.)		16		Recommended Treatment					
Gel Strength (lb/100 sq. ft.) 10 sec/10 min.		5/16		<input type="checkbox"/> Ultra Ben		SX			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		8.5		<input type="checkbox"/> Ultra Starch		SX			
Filtrate API (ml/30 min.)		I		<input type="checkbox"/> Ultra Salt Gel		SX			
API HP-HT Filtrate (ml/30 min.) _____ F		I		<input type="checkbox"/> Soda Ash		SX			
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>		I		<input type="checkbox"/>		SX			
Alkalinity, Mud (Pm)		I		<input type="checkbox"/>		SX			
Alkalinity, Filtrate (Pl/Ml)		11.3		<input type="checkbox"/>		SX			
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		200		<input type="checkbox"/>		SX			
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg		I		<input type="checkbox"/>		SX			
Calcium <input checked="" type="checkbox"/> ppm Lime lb/bbl. <input type="checkbox"/>		80		<input type="checkbox"/>		SX			
Sand Content (% by Vol.)		1/2		<input type="checkbox"/>					
Solids Content (% by Vol.)		1.9		<input type="checkbox"/>					
Water Content (% by Vol.)		98.1		<input type="checkbox"/>					
Make Up Water (ppm NaCl) <input type="checkbox"/> (ppm Cl) <input type="checkbox"/>		I		<input type="checkbox"/>					
Methylene Blue Capacity <input type="checkbox"/> lb/bbl. equiv. <input type="checkbox"/> cm ³ /cm ³ mud		I		<input type="checkbox"/> Salt Water					
				<input type="checkbox"/> Fresh Water					

Remarks - Give operation, depth and nature of any problems encountered.

Mix mud **EVENLY** over _____ hours

☐ Drilling @ **SURVEY @ 127' (1/2°), 256' (1°), 374' (3/4°), 510' (3/4°)**

☐ Tripping @

☐ Gas kick @

☐ Stuck pipe @ **(SPUD IN @ 44' @ 2030 HRS, 11-1-85)**

☐ Tight hole @

☐ Sloughing Shale @ **TD @ 510' @ 1500 HRS, 11-2-85**

☐ Lost Returns @

Engineer **Phil Gerini**

Home Address

NORTH PARK MOTEL #9

Phone

723-4271

Mobile/radio no.

N/A

Warehouse Location

Phone

THANKS

Cost-Time Summary/ **11-2** hours ending **1530**

Products	M	D	Units	Total	Unit Cost	Cost	Corrosion Control	Previous Day's Operations
Ultra Ben				8	5.20	41.60	C. Ring No.	
Ultra Starch				3	5.70	17.10	Installment Date/Time	
Ultra Salt Gel							Installment Depth	
Soda Ash							Suggested Removal Date	
							Mud Cost Summary	
							Cumulative Cost to Date	\$ 600.00
							Mud	\$ 59.00
							Drayage/Rental	\$ 3.00
							State Tax	\$ -
Drayage/Rental Charges							Total Daily Cost	\$ 62.00
							Cumulative Cost	\$ 662.00

White Operator YELLOW Contractor PINK Office GOLDENROD Utility

Roughrider Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328

COLO. OIL & GAS CONS. COMM.

1675 Larimer Street
Suite 710
Denver, Colorado 80202
303/623-0671



Drilling Mud Report

Report No. 2

Date 11-2

19 85

Total Depth - 107

Drilling Depth - 107

Operator VALERO PRODUCTION CO Contractor ITELLY DALE CO Rig No. 3
Address RIG Address RIG Spud Date 11-1-85
Report for Mr. DON ADAMS Report for Mr. ROD FORSYTHE Section, Township, Range 35 71N 80W
Well Name and No. VALERO FED 35-5 Field WIC County JACKSON State CO

Operations			Casing	Mud Volume (BBL)	Circulation Data		
Present Activity <u>DRILL</u>			Surface <u>9 5/8</u> in. at <u>ft.</u>	Hole <u>15</u> Pits <u>300</u>	Pump Size # <u>15 1/2</u> in.	Annular Vel. (Ft./Min.) <u>34</u>	
Bit Size (in.) <u>12 1/4</u>	Type <u>R1</u>	No. <u>1</u>	Intermediate <u>in. at ft.</u>	Total Circulating Volume <u>315</u>	Pump Make <u>EMSCO</u>	Opposite DP <u>61</u>	
Drill Pipe Size <u>4 1/2</u>	Jets <u>3-15</u>	Type <u>XH</u>	Production or Liner <u>in. at ft.</u>	In Storage <u>NONE</u>	Model <u>D-300</u>	Opposite Collar <u>650</u>	
Drill Collar Size <u>6 1/4 x 2 1/4</u>	Length <u>107</u>	Mud Type <u>H2O</u>		Pump Efficiency <u>90</u> %	Bbl/Stroke <u>113</u>	Circulating Pressure psi <u>2</u>	
Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit					Gal./Min. <u>6.78</u>	Bottoms Up (Min.) <u>47</u>	
Flowline Temperature <u>F</u>						System Total (Min.) <u>47</u>	

Mud Properties		Equipment in Use	
Time Sample Taken	Size	Operate Hrs./Tour	Underflow (#/Gal.)
Depth (ft.) <u>107</u>	Desander <u>5x4</u>	<u>while Dalg</u>	
Weight <u>8.4</u> (ppg) <input type="checkbox"/> (lb./cu. ft.)	Desilter <u>5x4</u>	<u>while Dalg</u>	
Mud Gradient (psi/ft.) <u>4368</u>	Other (Size) <u>40x40</u>	<u>while Dalg</u>	
Funnel Viscosity (sec./qt.) API at <u>27</u> F	Mud Properties Specifications		
Plastic Viscosity (cps) at <u>2</u> F	Weight <u>NC</u>	Viscosity <u>NC</u>	Filtrate <u>NC</u>
Yield Point (lb./100 sq. ft.) <u>0</u>	By Authority <input checked="" type="checkbox"/> Operator's Written Representative	<input type="checkbox"/> Operator's Representative	<input type="checkbox"/> Drilling Contractor
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>0-0</u>			<input type="checkbox"/> Other
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>8.3</u>	Recommended Treatment		
Filtrate API (ml/30 min.) <u>I</u>	<input checked="" type="checkbox"/> Ultra Ben	SX	<u>MIX 15 GEL AND 1</u>
API HP-HT Filtrate (ml/30 min.) <u>I</u>	<input type="checkbox"/> Ultra Starch	SX	<u>LIME FOR SWEEPS.</u>
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	<input type="checkbox"/> Ultra Salt Gel	SX	
Alkalinity, Mud (Pm) <u>102/05</u>	<input type="checkbox"/> Soda Ash	SX	
Alkalinity, Filtrate (Pl/Mf) <u>150</u>	<input type="checkbox"/>	SX	<u>RUN SWEEPS ONLY</u>
Chloride <input checked="" type="checkbox"/> ppm <u>40</u>	<input type="checkbox"/>	SX	<u>IF NEEDED (HOLE</u>
Salt <input type="checkbox"/> ppm <u>1/4</u>	<input type="checkbox"/>	SX	<u>TIGHT ON CONN.)</u>
Calcium <input checked="" type="checkbox"/> ppm <u>1/2</u>	<input type="checkbox"/>	SX	
Lime lb./bbl. <input type="checkbox"/>	<input type="checkbox"/>		
Sand Content (% by Vol.) <u>99 1/2</u>	<input type="checkbox"/>		
Solids Content (% by Vol.) <u>99 1/2</u>	<input type="checkbox"/>		
Water Content (% by Vol.) <u>99 1/2</u>	<input type="checkbox"/>		
Make Up Water (ppm NaCl) <input type="checkbox"/> (ppm Cl) <input type="checkbox"/>	<input type="checkbox"/>		
Methylene Blue Capacity <input type="checkbox"/> lb./bbl. equiv. <input type="checkbox"/> cm ³ /cm ³ mud	<input type="checkbox"/> Salt Water		
	<input type="checkbox"/> Fresh Water		

Remarks - Give operation, depth and nature of any problems encountered.

Mix mud **EVENLY** over

hours

- ☐ Drilling @
- ☐ Tripping @
- ☐ Gas kick @
- ☐ Stuck pipe @
- ☐ Tight hole @
- ☐ Sloughing Shale @
- ☐ Lost Returns @

Engineer Phil Gecini

Home Address

NORTH PARK MOTEL #9

Phone

723-4271

Phone

Mobile/radio no. NONE

Cost-Time Summary/ 0500 hours ending 11-2

Products	M	D	Units E	Total	Unit Cost	Cost	Corrosion Control	Previous Day's Operations
Ultra Ben					<u>5.20</u>		C. Ring No.	
Ultra Starch <u>LIME</u>					<u>5.70</u>		Installment Date/Time	
Ultra Salt Gel							Installment Depth	
Soda Ash							Suggested Removal Date	
Mud Cost Summary							Cumulative Cost to Date	
							\$ <u>0.00</u>	
							\$ <u>0.00</u>	
							\$ <u>600.00</u>	
							\$ <u>-</u>	
							\$ <u>600.00</u>	
							\$ <u>600.00</u>	
							\$ <u>600.00</u>	

White Operator

YELLOW Contractor

PINK Office

GOLDENROD

Roughrider
Drilling Fluids, Inc.

Box 1737
Williston, North Dakota 58801
701/572-8328

COLO. OIL & GAS CONS. COMM.

1675 Larimer Street
Suite 710
Denver, Colorado 80202
303/623-0671



Drilling Mud Report

Report No.

Date

11-1

19 85

Total Depth - 0

Drilling Depth - 0

Operator
VALERO OIL CO

Address

RIG

Report for Mr.

DON ADAMS

Well Name and No.

FED 35-5

Contractor

KELLY

Address

RIG

Report for Mr.

ROD FORTYHE

Field

W/C

County

JACKSON

Rig No.

3

Spud Date

11-1-85

Section, Township, Range

35, 71N, 80W

State

CO

Operations			Casing		Mud Volume (BBL)		Circulation Data	
Present Activity			Surface		Hole		Pump Size #1	
RIG-UP			9 5/8 in. at		0		5 1/2 X 14 in.	
Bit Size (in.)			Intermediate		Total Circulating Volume		Pump Make	
12 1/4			in. at		200		EMSCO	
Type			Production or Liner		In Storage		Model	
Jets			in. at		NONE		D-300	
Drill Pipe Size			Type		Pump Efficiency		Bbl/Stroke	
4 1/2			XH		90 %		Stroke/Min.	
Drill Collar Size			Length		Mud Type		Bbl/Min.	
6 1/4 X 2 1/4			120				Gal/Min.	

Sample from		Mud Properties		Equipment in Use		Operate		Underflow	
Flowline				Size		Hrs/Tour		(#/Gal.)	
Flowline Temperature		F							
Time Sample Taken		a.m. <input type="checkbox"/> p.m. <input type="checkbox"/>		1000					
Depth (ft.)		0		Desander		5x4		White Dalg	
Weight (ppg) <input type="checkbox"/> (lb/cu. ft.)		8.34		Desilter		5x4		White Dalg	
Mud Gradient (psi/ft.)		-		Other		40x40		White Dalg	
Funnel Viscosity (sec/qt) API at		F		Mud Properties Specifications					
Plastic Viscosity (cps) at		F		Weight		N/C		Viscosity AS NEEDED	
Yield Point (lb/100 sq. ft.)		I		By Authority		Operator's Written		Operator's	
Gel Strength (lb/100 sq. ft.) 10 sec/10 min.		I				Representative		Drilling Contractor	
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		8.3						Other	
Filtrate API (ml/30 min.)		I		Recommended Treatment					
API HP-HT Filtrate (ml/30 min.)		F		Ultra Ben		SX		MIX GEL AND LIME	
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>		I		Ultra Starch		SX		@ 15 TO 1 RATIO	
Alkalinity, Mud (Pm)		I		Ultra Salt Gel		SX		FOR SWEEPS,	
Alkalinity, Filtrate (Pl/Ml)		.02/04		Soda Ash		SX			
Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		140				SX		RUN SWEEPS ONLY	
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg		I				SX		IF NEEDED!	
Calcium <input checked="" type="checkbox"/> ppm Lime lb/bbl. <input type="checkbox"/>		40				SX			
Sand Content (% by Vol.)		I							
Solids Content (% by Vol.)		I							
Water Content (% by Vol.)		I							
Make Up Water (ppm NaCl) <input type="checkbox"/> (ppm Cl) <input type="checkbox"/>		I							
Methylene Blue Capacity <input type="checkbox"/> lb/bbl. equiv. <input type="checkbox"/> cm ³ /cm ³ mud		I							

Remarks - Give operation, depth and nature of any problems encountered.

Mix mud EVENLY over

hours

<input type="checkbox"/> Drilling @	RUN BOTH PUMPS ON HOLE While Dalg Surface
<input type="checkbox"/> Tripping @	
<input type="checkbox"/> Gas kick @	RUN ALL SOLIDS CONTROL EQUIPMENT While Dalg Surface.
<input type="checkbox"/> Stuck pipe @	
<input type="checkbox"/> Tight hole @	
<input type="checkbox"/> Sloughing Shale @	
<input type="checkbox"/> Lost Returns @	

Engineer
Phil Genni

Home Address

CRAIG CO

Warehouse Location

CRAIG CO

Phone

824-6954

Phone

Mobile/radio no. NONE

THANKS

Cost-Time Summary/1000 hours ending 11-1

Products	M	D	E	Units	Total	Unit Cost	Cost	Corrosion Control	Previous Day's Operations
Ultra Ben						5.20		C. Ring No.	
Ultra Starch								Installment	
Ultra Salt Gel								Date/Time	
Soda Ash								Installment	
LIME						5.70		Depth	
								Suggested	
								Removal Date	
								Mud Cost Summary	
								Cumulative Cost to Date	\$ 0.00
								Mud	\$ 0.00
								Drayage/Rental	\$ -
								State Tax	\$ -
Drayage/Rental Charges								Total Daily Cost	\$ 0.00
								Cumulative Cost	\$ 0.00

White
Operator

YELLOW
Contractor

PINK
Office

GOLDENROD
Utility