



Denver, Colorado 80202
1645 Court Place
Suite 320
303-571-1880

Vernal, Utah 84078
P. O. Box 1004
801-789-5137

DRILLING MUD REPORT

REPORT NO.

OPERATION: *2nd Completion*
ADDRESS: *Wendell*
REPORT FOR MR: *Wendell Robb*

CONTRACTOR: *Chasman*
ADDRESS: *917*
REPORT FOR MR: *F. J. [unclear]*
SPUD DATE: *4-27-92*
SECTION-TOWNSHIP-RANGE: *1 Sec 4NE*

WELL NAME AND NO: *Wendell #1*
FIELD OR BLOCK NO: *104*
COUNTY: *Garfield*
AREA: *Mohave*
STATE: *UT*

OPERATION	CASING	WELL	DATE	DEPTH	TIME
Bit Size (in.)	9 5/8	Intermediate	100	6	16
Drill Pipe Size	4 1/2	Production or Liner			
Drill Collar Size	6 1/4				

MUD PROPERTIES	
Exposing Temperature	
Time Sample Taken	
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 <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	
Filtrate API (ml./30 min.)	
API HP-HT Filtrate (ml/30 min.)	
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	
Alkalinity P M	
Alkalinity, Filtrate (Pl/Mf)	
Salt <input type="checkbox"/> ppm <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> ppm	
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (pph)	
Sand Content (% by Vol.)	
Solids Content (% by Vol.)	
Oil Content (% by Vol.)	
Water Content (% by Vol.)	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. # Bbl./Bent)	

EQUIPMENT			
SIZE	HRS/TOUR	SIZE	HRS/TOUR
Centrifuge		Shaker	
Degasser		Other	
Desander			
DAILY COST		CUMULATIVE COST	

MUD PROPERTIES SPECIFICATIONS
WEIGHT BY AUTHORITY: *9.5*
VISCOSITY: *60*
FILTRATE: *ML*
OPERATOR'S WRITTEN REPRESENTATIVE: *[Signature]*
DRILLING CONTRACTOR OTHER: *[Signature]*

- MUD CONTAINS TOUGH TREATMENT
- Barite
 - Gel *pretreat water with 1 SB Constitute*
 - MIX Gel 70 @ 60 VIS*
 - MIX 1 SB Constitute*
 - GEL*
 - TOUGH TREATMENT*

Products	Units	Unit Cost	Cost

REMARKS - Give operation depth and nature of any problems encountered

- Drilling @
- Salt Water flow @
- Gas kick @
- Stuck pipe @
- Tight hole @
- Sloughing Shale @
- Lost Returns @

ENGINEER: *J. Durkin* HOME ADDRESS: *Vale* PHONE: *413 3234*
MONITOR NUMBER: *BATES* WAREHOUSE LOCATION: *NOTE* PHONE:



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DRILLING MUD REPORT

REPORT NO.

DATE	5-8-82	DEPTH	3149
API WELL NO.		STATE	
		COUNTY	
		WELL	
		S/T	

OPERATOR: ZFS CONSTRUCTION
CONTRACTOR: CHANDLER
RIG NO: 1

ADDRESS: RIG
ADDRESS: RIG
SPUD DATE: 4-29-82

REPORT FOR MR. VIC SCHNEIDER
REPORT FOR MR. FLADLAND
SECTION, TOWNSHIP, RANGE: 9 19S 46E

WELL NAME AND NO. RECLA #1
FIELD OR BLOCK NO. RECLA
COUNTY, PARISH OR OFFSHORE AREA: MALHEUR
STATE OR PROVINCE: OREGON

OPERATION	CASING	WELL	PUMP	CIRCULATION DATA
DRUG	8 5/8" 624 Ft. Intermediate	200 500 Ft. Total Circulating Volume	Pump Size: 5 1/2" 16 Pump Make: E.M.SCO Model: DB 500	Annual Vol. (Ft./Min): 185 Gallons/OP: 370 Opposite Color: 370
Drill Pipe Size: 4" FH	Production or Liner	In Storage	Boil/Stroke: 12 Boil/Min: 7.68	Stroke/Min: 64 Circulating Pressure psi: 950 Bottoms Up (Min): 22 S. Rate: 372 GPM T. Rate: 900
Drill Collar Size: 5 1/4" 614	Length: L.S.N.A.	Mud Type		

MUD PROPERTIES	
Time Sample Taken	3:00
Depth (ft.)	3149
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.9
Mud Gradient (psi/ft.)	.462
Funnel Viscosity (sec./qt.) API at _____ °F	38
Plastic Viscosity cps at _____ °F	12
Yield Point (lb./100 sq. ft.)	8
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	2/6 / /
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	10.0
Filtrate API (ml./30 min.)	14
API HP-HT Filtrate (ml/30 min.) _____ °F	-
Cake Thickness 32nd in. API <input checked="" type="checkbox"/> HP-HT <input type="checkbox"/>	2
Alkalinity P.M.	-
Alkalinity, Filtrate (Pf/Mf)	15/35 / /
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	1000
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	7.2
Sand Content (% by Vol.)	14
Solids Content (% by Vol.)	3.5
Oil Content (% by Vol.)	0
Water Content (% by Vol.)	96.5
Methylene Blue Capacity (ml/ml mud) (equiv. # Bl. amt)	-
CHROMATES	400 P.P.M.

EQUIPMENT	
Centrifuge	
Deaer	
Shaker	V 8 2 8
Desander	V 9 9 8
Cost	\$ 400
Cumulative Cost	\$ 5,259

MUD PROPERTIES SPECIFICATIONS					
WEIGHT	8.9	MODULUS	38	FILTRATE	10cc
BY AUTHORITY: OPERATOR'S WRITTEN REPRESENTATIVE					
MUD CONTAINS			TOOL TREATMENT		

Mountain Vis @ 3000
 @ 1st to 5th of bed
 open pits in shale
 pit and dump
 below part. Do not
 dump the whole
 Add run in stream
 of water while still
 Moun and Tool only
 Add 1st of oil
 @ 1 1/2 HR / 15*

Products	Units	Unit Cost	Cost
COBOLSON INHIBITOR	1/		
CAUSTIC	1		

REMARKS - Give operation, depth and nature of any problems encountered.
 Drilling @
 Salt Water flow @
 Gas kick @
 Stuck pipe @
 Tight hole @
 Sloughing Shale @
 Lost Returns @

ENGINEER: 1303 ZENN ADI
HOME ADDRESS: VALE OREGON
PHONE: 473 3030
WAREHOUSE LOCATION: VALE OREGON
PHONE: 473 3030



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DRILLING MUD REPORT

WELL NO.	5-7	TO	82	DATE	3/77
STATE		COUNTY		WELL	
APPROVAL					

OPERATOR: **Z & S CONSTRUCTION**
 ADDRESS: **Rite**
 REPORT FOR MR: **Vic Schneider**
 WELL NAME AND NO: **RECLA #1**
 FIELD OR BLOCK NO: **RECLA**
 COUNTY, PARISH, OR OFFSHORE AREA: **MALHEUR OREGON**
 CONTRACTOR: **CHANDLER**
 ADDRESS: **Rite**
 RIG NO: **1**
 SPUD DATE: **4-27-82**
 REPORT FOR MR: **FLADLAND**
 SECTION TRANS. RANGE: **9 195 445**

OPERATION	CASING	HOLES	DATE	APPROVAL
DRILL	8 3/8 624	22U 500	5/4 16	185
Bit Size (in.)	7 7/8	6	72U	EMSCO
Drill Pipe Size	4	F.4	72U	13 5/8
Drill Collar Size	6 1/2	6 1/4	L.S.N.D	7.68
				322 G.P.T

MUD PROPERTIES

Flowline Temperature: _____

Time Sample Taken: **4:00**

Depth (ft.): **3577**

Weight (ppg) (lb./cu. ft.): **8.8**

Mud Gradient (psi/ft.): **.462**

Funnel Viscosity (sec/100 cc) API at _____ °F: **37**

Plastic Viscosity (cps) at _____ °F: **12**

Yield Point (lb./100 sq. ft.): **8**

Gel Strength (lb./100 sq. ft.) 10 sec / 10 min: **2/6 / /**

pH: **9.5**

Filtrate API (ml/30 min.): **9**

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

Cake Thickness 32nd in. API HP-HT : **2**

Alkalinity P.M.: **-**

Alkalinity, Filtrate (Pl/Mf): **.15/4 / /**

Sulfate (ppm) Chloride (ppm): **1000**

Calcium (ppm) Gyp (ppb): **712**

Sand Content (% by Vol.): **1/2**

Solids Content (% by Vol.): **4**

Oil Content (% by Vol.): **0**

Water Content (% by Vol.): **96**

Methylene Blue Capacity (equiv. # Bb./bent.): **400 P.P.H**

EQUIPMENT

SIZE	HRS/TOUR	SIZE	HRS/TOUR
Drift auger		Drill bit	
Drill pipe		Shank	2 8 8
Drill collar	8 8 8	Other	

DAILY COST: **\$2365** LUM: **\$7624**

MUD PROPERTIES SPECIFICATIONS

WEIGHT: **8.8** VISCOSITY: **38** FILTRATE: **8cc**

BY AUTHORITY: OPERATOR'S WRITTEN REPRESENTATIVE DRILLING CONTRACTOR

MUD CONTAINS

Barite

Gels

Ben-ex

DRILLING CONTRACTOR

OTHER

Mountain View @ 380cc
15x to 5.5x of gel
Dump 2 ft. of
shale pit due to
run 1" of water
while drill
*** Day Tour only by**
PRISON Aids 15x of DB
at 1 1/2 HR/5x

CORROSION INHIBITOR

MICA

15x at 1 1/2 HR/5x
35x / TOUR

Products	Units	Unit Cost	Cost
Gel	155x		
Ben-ex	35x		
DRISPAE	75x		
CORROSION INHIBITOR	25x		
MICA	35x		

REMARKS - Give operation, death and nature of any problems encountered

Drilling @

Salt Water flow @

Gas kick @

Stuck pipe @

Tight hole @

Sloughing Shale @

Lost Returns @

Thank you
Bob
Mud's up

ENGINEER: **BOB ZENNADI** HOME ADDRESS: **VALE OREGON** PHONE: **473 3230**

MOBILE NUMBER: _____ WAREHOUSE LOCATION: **#2** PHONE: _____



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DRILLING MUD REPORT

REPORT NO. 2166

DATE	3-10-82	DEPTH	2166
WELL NO.		STATE	
		COUNTY	
		WELL	
		SIT	

OPERATOR: **2ES CONSTRUCTION**
 ADDRESS: **RIG**
 REPORT FOR MR: **VIC SCHNEIDER**
 CONTRACTOR: **CHANDLER RIG**
 SPUD DATE: **4-29-82**
 SECTION TOWNSHIP RANGE: **9 N 9S 40E**

WELL NAME AND NO.	MECCA #1	FIELD OR BLOCK NO.	MECCA	APPROXIMATE LOCATION	MALHEUR OREGON
OPERATION	DRUG	CASING	5 7/8 620 FT	Hole Size	5 1/2 16
Present Activity	DRUG	Intermediate	767	Filtration	185
Bit Size (in.)	7 1/8 6	Total Circulating Volume	767	Deposit in DP	370
Drill Pipe Size	4 FH	Production or Liner	767	Onshore Collar	950
Drill Collar Size	6 1/4 6 1/4	Li Storage	7.68	Circulating Pressure (psi)	30
				8 Stroke (psi/min)	98

MUD PROPERTIES		EQUIPMENT			
Time Sample Taken	5:30	SIZE	HRS/TOUR	SIZE	HRS/TOUR
Depth (ft.)	4166	Controling		Drum	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	9.5	Drum		Stroke	1/2 (by foot)
Mud Gradient (psi/ft.)	.472	Drum	4 8 8 8	Other	

Funnel Viscosity (sec./qt.) API at _____ °F	37	DAILY COST	\$2450	PER HOUR	\$10.374
Plastic Viscosity cps at _____ °F	10	MATERIALS & EQUIPMENT			
Yield Point (lb./100 sq. ft.)	6	<input type="checkbox"/> Bentonite <input type="checkbox"/> Gel <input type="checkbox"/> Drispac <input type="checkbox"/> New 1" string of <input type="checkbox"/> 100 lb. white clay <input type="checkbox"/> Plastic shale pt <input type="checkbox"/> 2" of top when <input type="checkbox"/> needed <input type="checkbox"/> CORROSION INHIBITOR <input type="checkbox"/> Buy from only <input type="checkbox"/> 2 cans at 14/15			
Gel Strength (lb./100 sq. ft.) 10 sec./10 min	1/3				
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	7.0				
Filtrate API (ml/30 min)	6.5				
API HP-HT Filtrate (ml/30 min) _____ °F	-				
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	2				
Alkalinity P.M.	-				
Alkalinity, Filtrate (Pf/Mf)	11.25				

Salt <input type="checkbox"/> ppm <input type="checkbox"/> cps	Chloride <input type="checkbox"/> ppm <input type="checkbox"/> cps	600
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	16	
Sand Content (% by Vol.)	42	
Solids Content (% by Vol.)	5	
Oil Content (% by Vol.)	0	
Water Content (% by Vol.)	25	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. #Bbl bent.)	300 P.P.M	

Products	Units	Unit Cost	Cost	REMARKS - Give operation, date, etc. if you are not sure of the quantity
DRISPAC	8 SK			
CORROSION INHIBITOR	3 SK			
KOOL	6 SK			
GEL	7 SK			
Bent. Ev	1 SK			
CAUSTIC	1 SK			

ENGINEER: **BOB ZENNARD** HOME ADDRESS: **VALL OREGON** PHONE: **473 3234**
 WAREHOUSE LOCATION: **VALL OREGON** PHONE: **473 3234**



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DRILLING MUD REPORT

REPORT NO.

DATE	5-11-82	DEPTH	4527
API WELL NO.		STATE	
		COUNTY	
		WELL	
		BIT	

OPERATOR: ZFS CONSTRUCTION
CONTRACTOR: C. HINDLER
RIG NO.: 1
ADDRESS: [blank]
ADDRESS: [blank]
SPUD DATE: 4-27-82

REPORT FOR MR. VIC SCHNEIDER
REPORT FOR MR. [blank]
SECTION TOWNHIP RANGE: 9 14 40E

WELL NAME AND NO.: RECLA #1
FIELD OR BLOCK NO.: RECLA
COUNTY, PARISH, OR OFFSHORE AREA: HALL COUNTY
STATE OR PROVINCE: UTAH

OPERATION: DELG
CASING: 8" 624 ft. 291 500
CIRCULATION DATA:
Pump Make: 8500 24500
Strokes/Min: 64
Circulating Pressure psi: 950
Bottoms Up: 37

MUD PROPERTIES	
Time Sample Taken	5:45
Depth (ft.)	4527
Weight (ppg) (lb./cu. ft.)	9.2
Mud Gradient (psi/ft.)	1.482
Funnel Viscosity (sec. at 30° API at)	42
Plastic Viscosity (cps at 30°)	11
Yield Point (lb./100 sq. ft.)	11
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	3/7 / /
pH (Strip) (Meter)	9.0
Filtrate API (ml./30 min.)	7
API HP-HT Filtrate (ml./30 min.)	-
Cake Thickness 32nd in. API HP-HT	2
Alkalinity P M	-
Alkalinity, Filtrate (Pf/Mf)	11.45 / /
Salt (ppm) Chloride (ppm)	900
Calcium (ppm) Gyp (ppb)	1712
Sand Content (% by Vol.)	3/4
Solids Content (% by Vol.)	6
Oil Content (% by Vol.)	0
Water Content (% by Vol.)	94
Methylene Blue Capacity (ml/ml mud) (equiv. #Bbl bent)	-
CHLORIDE	450 PPM

EQUIPMENT			
SIZE	HRS/TOUR	SIZE	HRS/TOUR
Desilter		Shaker	1 1/2 hrs
Degasser		Other	
Densifier	8 1/2		
DAILY COST	82,491	CUMULATIVE COST	816,565
MUD PROPERTIES SPECIFICATIONS			
WEIGHT BY AUTHORITY	VISCOBITY	FILTRATE	
	OPERATOR'S WRITTEN REPRESENTATIVE	DRILLING CONTRACTOR OTHER	
MUD CONTAINS	TOUR TREATMENT		
<input type="checkbox"/> Barite			
<input checked="" type="checkbox"/> Gel	1 1/2 hrs		
<input checked="" type="checkbox"/> Bentonite	1 1/2 hrs		
<input checked="" type="checkbox"/> KRISTAL	1 1/2 hrs		
<input checked="" type="checkbox"/> COPOLYMER	1 1/2 hrs		
<input type="checkbox"/> WATER	Rough 1/2" stream		
<input type="checkbox"/>	white clay		
<input type="checkbox"/>	black suspension		
<input type="checkbox"/>	some white clay		
<input type="checkbox"/>	1 1/2 hrs 2 ft. of shale pit		
<input type="checkbox"/>	if shale pit 1/2 hrs		
<input type="checkbox"/>	Dog Tooth only		
<input type="checkbox"/>	2 1/2 hrs of CAUSTIC		
<input type="checkbox"/>	1 1/2 hrs		

Products	Units	Unit Cost	Cost
GER	32		
Bent. 24	74		
KRISTAL	64		
COB / 24	54		
CAUSTIC	24		
MICA	354		

REMARKS - 3 1/2 hrs of 24" hole at 11:00 AM
 Drilling @
 Salt Water flow @
 Gas Kick @
 Stuck pipe @
 Tight hole @
 Sloughing Shale @
 Lost Returns @

NUMBER: 3018
ZEN NAB
HOME ADDRESS: [blank]
PHONE: [blank]
WAREHOUSE LOCATION: [blank]
PHONE: [blank]



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DRILLING MUD REPORT

REPORT NO.

DATE	11-30-82	DEPTH	41'
API WELL NO.		STATE	
		COUNTY	
		WELL	
		S/T	

OPERATOR: **Z+S Construction**
 ADDRESS: **Kimball Neb**
 REPORT FOR MR: **Wayne Robinson**
 WELL NAME AND NO: **Necla 01**
 CONTRACTOR: **Chandler Rig**
 ADDRESS: **Fieldland**
 REPORT FOR MR: **Fieldland**
 RIG NO.: **1**
 SPUD DATE: **4-29-82**
 SECTION TOWNSHIP RANGE: **9 19S 4NE**

OPERATION	CASING	FIELD OR BLOCK NO	COUNTY, PARISH, OR OFFSHORE AREA	STATE OR PROVINCE
Present Activity		Well	Blow	
Drill Size (in.)	No	Intermediate	Total Circulating Volume	Pump Make
Drill Pipe Size	Type	Production or Liner	In Storage	Model
Drill Collar Size	Length	Mud Type		

Flowline Temperature		MUD PROPERTIES	EQUIPMENT
Time Sample Taken	0700	SIZE	HRS. TOUR
Depth (ft.)	47	Centrifuge	Desilter
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.)	9.1+	Degasser	Shaker
Mud Gradient (psi/ft.)		Detander	Other
Funnel Viscosity (sec./qt.) API at _____ °F	66	DAILY COST	CUMULATIVE COST
Plastic Viscosity cps at _____ °F	17	51469.00	51469.00
Yield Point (lb./100 sq. ft.)	18	MUD PROPERTIES SPECIFICATIONS	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	12/23	REC-9.1	VISCOS-8.85
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	9.0	FILTATE NC	
Filtrate API (ml./30 min.)	—	SY AUTHOR	
API HP-HT Filtrate (ml./30 min.) _____ °F	—	<input type="checkbox"/> OPERATOR'S WRITTEN	
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	—	<input type="checkbox"/> OPERATOR'S	
Alkalinity P M	—	<input type="checkbox"/> REPRESENTATIVE	
Alkalinity, Filtrate (P/M)	10.2	MUD CONTAINS	
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm	500	TOUR TREATMENT	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	40	<input type="checkbox"/> Barite	
Sand Content (% by Vol.)	4	<input type="checkbox"/> Gel	
Solids Content (% by Vol.)	6	<input type="checkbox"/> MIX GEL AS NEEDED	
Oil Content (% by Vol.)	—	<input type="checkbox"/> TO A 20-85 VIS	
Water Content (% by Vol.)	—	<input type="checkbox"/> NEED pH AT 9.0 to 9.5	
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. # Bbl. Bent.)	—	<input type="checkbox"/> WITH CAUSTIC THROUGH	
		<input type="checkbox"/> THE CLEAN BPH	

Products	Units	Unit Cost	Cost	REMARKS - Give center of depth and nature of any problems encountered
GEL	108		16.50	<input type="checkbox"/> Drilling @
SAND-5T	4		24.00	<input type="checkbox"/> Salt Water flow @
CAUSTIC	1		26.00	<input type="checkbox"/> Gas kick @
LINE	2		18.00	<input type="checkbox"/> Stuck pipe @
BAR.	28		287.00	<input type="checkbox"/> Tight hole @
			1376.00	<input type="checkbox"/> Sloughing Shale @
			83.00	<input type="checkbox"/> Lost Returns @
			1459.00	

ENGINEER: **A Durbin** HOME ADDRESS: **Yale UT** PHONE: **413 3234**
 MOBILE NUMBER: _____ WAREHOUSE LOCATION: _____ PHONE: _____



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DRILLING MUD REPORT

REPORT NO.

DATE	19 82	DEPTH	382
API WELL NO.	STAFF	COUNTY	WELL
			SIT

OPERATOR: **Z+S Construction**
ADDRESS: **Himball, Neb.**
REPORT FOR MR: **Wayne Robbins**

CONTRACTOR: **Chandler**
ADDRESS: **Rig**
REPORT FOR MR: **Fladland**

RIG NO.: **1**
SPUD DATE: **4-29-82**
SECTION, TOWNSHIP, RANGE: **9 19S 44E**

WELL NAME AND NO.: **Beck #1**
FIELD OR BLOCK NO.:
COUNTY, PARISH, OR OFFSHORE AREA:
STATE OR PROVINCE:

OPERATION		CASING		HOLE		PITS		PUMP SIZE		CIRCULATION DATA	
Present Activity											
Bit Size (in.)	No.	Intermediate		Total Circulating Volume		Pump Make		Annual Vol. (1st Year)		Drinker DP	
Och Pipe Size	Type	Production or Liner		In Storage		Model		Opposite Choke			
Drill Collar Size	Length	Mud Type				Bit/Stroke		Stroke/Min		Circulating Pressure (psi)	
						Bbl/Min		Bottom Up (ft.)		System Type (Min.)	

MUD PROPERTIES

Flowing Temperature	Time Sample Taken	Depth (ft.)	Weight (ppg)	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	Filtrate API (ml/30 min.)	API HP-HT Filtrate (ml/30 min.)	Cake Thickness 32nd in. API	Alkalinity P.M.	Alkalinity, Filtrate (P/M)	Salt	Calcium	Sand Content (% by Vol.)	Solids Content (% by Vol.)	Oil Content (% by Vol.)	Water Content (% by Vol.)	Methylene Blue Capacity	

EQUIPMENT

SIZE	HRS./TOUR	SIZE	HRS./TOUR
Centrifuge		Shaker	
Deaerator		Shaker	8
Desander		Other	

MUD PROPERTIES REPRESENTATIONS

1386

6065

NC

OPERATOR'S WRITTEN REPRESENTATIVE

DRILLING CONTRACTOR OTHER

TOUR TREATMENT

Barite

Ge.

MIX GEL TO MAINTAIN AND USE VIS TO RUN CAUSING AND CHECK THE HOLE

Products	Units	Unit Cost	Cost	REMARKS - Give operation, depth and nature of any problems encountered
Gel	131		1212	Drilling @
Lime	1		12	Salt Water flow @
Sand	12		84	Gas kick @
				Stuck pipe @
				Tight hole @
				Sloughing Shale @
				Lost Returns @

ENGINEER: **J. Durkin**
HOME ADDRESS: **Vale Dr.**
PHONE: **473 3234**

MOBILE NUMBER:
WAREHOUSE LOCATION:
PHONE:



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DRILLING MUD REPORT

REPORT NO. 633

DATE	<u>5-1-82</u>	DEPTH	<u>633</u>
WELL NO.		COUNTY	
STATE		WELL	
ST			

OPERATION: Z+S Construction
 ADDRESS: Kimball, Neb.
 REPORT FOR MR: Wayne Hobbes
 WELL NAME AND NO.: Wells #1
 CONTRACTOR: Chandler
 ADDRESS: RTG
 REPORT FOR MR: F Hedland
 RIG NO.: 1
 SPUD DATE: 4-29-82
 SECTION-TOWNSHIP-RANGE: 7 19S 44E
 COUNTY-PARISH OR OFFSHORE AREA: Madison
 STATE OR PROVINCE: Nebraska
 Present Activity: Drilling up
 Bit Size (in.): 8 1/2 Intermediate: 6 1/4
 Drill Pipe Size: 4 1/2 Type: HT
 Drill Collar Size: 6 1/2 Length: HT
 Pump Make: Case Model: D300
 Bit/Stroke: 126 Stroke/Min: 110

MUD PROPERTIES		EQUIPMENT			
Flowline Temperature	Time Sample Taken	SIZE	HRS./TOUR	SIZE	HRS./TOUR
	<u>19:50</u>	Centrifuge		Denitrifier	
Depth (ft.)		Degasser		Shaker	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		Desander		Skimmer	
Mud Gradient (psi/ft.)					
Funnel Viscosity (sec./qt.) API at <u>79.5</u> °F					
Plastic Viscosity cps at <u>37</u> °F					
Yield Point (lb./100 sq. ft.) <u>12</u>					
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>1</u>					
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter <u>10</u>					
Filtrate API (ml./30 min.)					
API HP-HT Filtrate (ml./30 min.)					
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>					
Alkalinity P.M.					
Alkalinity, Filtrate (Pf/Mf) <u>1</u>					
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm					
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)					
Sand Content (% by Vol.)					
Solids Content (% by Vol.)					
Oil Content (% by Vol.)					
Water Content (% by Vol.)					
Methylene Blue Capacity					

REMARKS: Clean pits
PRETREAT FIRST
water with 1/2 SKS
CONSTRUCT
mix with 25 added
for 32034 vis
need 4 Good ST. mix
3 water
3 HR SKS
Drill 2nd First the pit
sections when 1/2 full
CF cutting

Products	Units	Unit Cost	Cost	REMARKS - Use separate accounts for every product produced
<u>666</u>	<u>86</u>			<input type="checkbox"/> Drilling @ <input type="checkbox"/> Salt Water flow @ <input type="checkbox"/> Gas kick @ <input type="checkbox"/> Stuck pipe @ <input type="checkbox"/> Tight hole @ <input type="checkbox"/> Sloughing Shale @ <input type="checkbox"/> Lost Returns @

ENGINEER: J. Purbin HOME ADDRESS: WAKE DR. PHONE: 473 3234
 MOBILE NUMBER: _____ WAREHOUSE LOCATION: _____ PHONE: _____



Denver, Colorado 80202
1645 Court Place
Suite 320
303-571-4880

Vernal, Utah 84078
P. O. Box 1004
801-789-5137

DRILLING MUD REPORT

REPORT NO. 865

DATE	<u>5-3-82</u>	DEPTH	<u>865</u>
API WELL NO.	STATE	COUNTY	WELL
			SIT

OPERATOR: ZFS CONSTRUCTION CONTRACTOR: CHANDLER RIG NO: 1
 ADDRESS: KIMBALL, NEB ADDRESS: RIG SPUD DATE: 4-29-82
 REPORT FOR MR.: WAYNE ROBBINS REPORT FOR MR.: FRADLAND SECTION, TOWNSHIP, RANGE: 9 19S 44E
 WELL NAME AND NO.: RECLA #1 FIELD OR BLOCK NO.: VALE COUNTY PARISH OR OFFSHORE AREA: MALHEUR STATE OR PROVINCE: OREGON

OPERATION		CASING		MUD PROPERTIES		EQUIPMENT	
Present Activity	<u>DRUG</u>	in. at	<u>8 5/8 624</u>	Hole Size	<u>54 250</u>	SIZE	HRS./TOUR
Bit Size (in.)	<u>7 7/8 2</u>	Intermediate		Total Circulating Volume	<u>374</u>	SIZE	HRS./TOUR
Drill Pipe Size	<u>4</u>	Production or Liner		Pump Make	<u>EMSON D500</u>	SIZE	HRS./TOUR
Drill Collar Size	<u>6 1/4 614</u>			Mud	<u>1 1/2 0200</u>	SIZE	HRS./TOUR
				Bl. Stroke	<u>.12 50</u>	SIZE	HRS./TOUR
				Bl. Min	<u>250 5.5 250</u>	SIZE	HRS./TOUR

Flowline Temperature	
Time Sample Taken	<u>6:30</u>
Depth (ft.)	<u>865</u>
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>8.5</u>
Mud Gradient (psi/ft.)	<u>1.442</u>
Funnel Viscosity (sec./qt.) API at °F	<u>35</u>
Plastic Viscosity cps at °F	<u>5</u>
Yield Point (lb./100 sq. ft.)	<u>12</u>
Gas Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>3/6 / /</u>
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>10.5</u>
Filtrate API (ml./30 min.)	<u>N.C</u>
API HP-HT Filtrate (ml./30 min.) °F	<u>-</u>
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	<u>-</u>
Alkalinity P M	<u>-</u>
Alkalinity, Filtrate (Pf/Mf)	<u>5/7 / /</u>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm	<u>500</u>
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>40</u>
Sand Content (% by Vol.)	<u>1/2</u>
Solids Content (% by Vol.)	<u>1</u>
Oil Content (% by Vol.)	<u>0</u>
Water Content (% by Vol.)	<u>99</u>
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. # Bul. bent)	<u>-</u>

Leitch		Day	
Degasser		Shake	
Desander		Drill	
DAILY COST	<u>\$398</u>	CUMULATIVE	<u>\$4,049</u>
MUD PROPERTIES SPECIFICATIONS			
WEIGHT	<u>8.8</u>	VISCOSITY	<u>32-34</u> FILTRATE <u>N.C</u>
BY AUTHORITY	<input checked="" type="checkbox"/> OPERATOR'S REPRESENTATIVE	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE	<input type="checkbox"/> DRILLING CONTRACTOR
MUD CONTAINS	FOUR		
<input type="checkbox"/> Barite			
<input checked="" type="checkbox"/> Gel	<u>As needed to maintain Visc @ 37</u>		
<input type="checkbox"/>			
<input type="checkbox"/>	<u>Use gel sweeps as needed to clean hole</u>		
<input type="checkbox"/>	<u>dump shale pit at least once / TOUR</u>		
<input type="checkbox"/>	<u>Run 1" stream of water all time while deep</u>		
<input type="checkbox"/>	<u>Thank you</u>		
<input type="checkbox"/>	<u>Bob</u>		

Products	Units	Unit Cost	Cost	REMARKS - Give description, credit and debit to correct account
<u>Gel</u>	<u>32</u>			<input type="checkbox"/> Drilling @
<u>Caustic</u>	<u>2</u>			<input type="checkbox"/> Salt Water flow @
				<input type="checkbox"/> Gas kick @
				<input type="checkbox"/> Stuck pipe @
				<input type="checkbox"/> Tight hole @
				<input type="checkbox"/> Sloughing Shale @
				<input type="checkbox"/> Lost Returns @

ENGINEER: BOB ZENNADI HOME ADDRESS: Vale OR PHONE: 472 3234
 MOBILE NUMBER: _____ WAREHOUSE LOCATION: _____ PHONE: _____



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DRILLING MUD REPORT

REPORT NO.

DATE 5-4 19 82 DEPTH 1329

API WELL NO.	STATE	COUNTY	WELL	BT

OPERATOR Z S S CONSTRUCTION CONTRACTOR CHANDLER RIG NO. 1

ADDRESS KIMBALL, NED ADDRESS RIG SPUD DATE 4-27-82

REPORT FOR MR. WAYNE RUBBINS REPORT FOR MR. FLOOD LAND SECTION TOWN-SHIP-RANGE 9 19S 4WE

WELL NAME AND NO. RECLA 41 FIELD OR BLOCK NO. RECLA COUNTY PARISH OR OFFSHORE AREA MALHEUR STATE OF OPERATION OREGON

OPERATION		CASING		MUD PROPERTIES		EQUIPMENT	
Present Activity <u>T.O.O.N</u>	at <u>8 5/8</u>	<u>624</u>	<u>84</u>	<u>250</u>	Pump Size <u>5 1/4 16</u>	Stroke/Min. <u>12</u>	Displacement <u>16</u>
Bit Size (in.) <u>7 7/8</u>	No. <u>3</u>	Intermediate	Total Circulating Volume <u>330</u>	Pump Make <u>EMSCO</u>	Model <u>D500</u>	Discharge DP <u>✓</u>	Discharge Color <u>✓</u>
Drill Pipe Size <u>4</u>	Type <u>FH</u>	Production or Liner	In Storage	Bit Stroke <u>12</u>	Stroke/Min. <u>✓</u>	Circulating Pressure psi <u>✓</u>	Bottoms Up (Min.) <u>✓</u>
Drill Collar Size <u>6 1/4</u>	Length <u>614</u>	Mud Type <u>L.S.N.D</u>		Bit Rate <u>✓</u>		System <u>✓</u>	Tool Bit <u>✓</u>

MUD PROPERTIES		EQUIPMENT	
Flowline Temperature		SIZE	HRS. TOUR
Time Sample Taken <u>6:15</u>		Centrifuge	Disaster
Depth (ft.) <u>1329</u>		Degasser	Shaker
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>8.8</u>		Desander	Other
Mud Gradient (psi/ft.) <u>.457</u>		DAILY COST <u>0</u>	WELLHEAD COST <u>84049</u>
Funnel Viscosity (sec./qt.) API at _____ °F <u>33</u>		MUD PROPERTIES SPECIALTATIONS	
Plastic Viscosity cps at _____ °F <u>6</u>		WEIGHT <u>8.8</u>	GRAVITY <u>30</u>
Yield Point (lb./100 sq. ft.) <u>4</u>		BY AUTHORITY	OPERATOR <u>NE</u>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>2 / 1 / 1</u>		MUD CONTAINS	
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter <u>10.0</u>		<input type="checkbox"/> Barite	
Filtrate API (ml./30 min.) <u>N.C.</u>		<input type="checkbox"/> Gel	<u>AD needed to</u>
API HP-HT Filtrate (ml./30 min.) _____ °F <u>-</u>		<input type="checkbox"/>	<u>injection @ 33</u>
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/> <u>-</u>		<input type="checkbox"/> BEN-EV	<u>1sx to 5sx of wt</u>
Alkalinity P.M. <u>-</u>		<input type="checkbox"/> CAUSTIC	<u>1sx morning thru</u>
Alkalinity, Filtrate (P/Mf) <u>31.45 / /</u>		<input type="checkbox"/>	<u>then chem treated</u>
Salt <input type="checkbox"/> ppm Chloride <input checked="" type="checkbox"/> ppm <u>500</u>		<input type="checkbox"/>	<u>1 HR/50</u>
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb) <u>TR</u>		<input type="checkbox"/>	<u>Dumps should put</u>
Sand Content (% by Vol.) <u>14</u>		<input type="checkbox"/>	<u>when needed & plug</u>
Solids Content (% by Vol.) <u>3.5</u>		<input type="checkbox"/>	<u>clear it</u>
Oil Content (% by Vol.) <u>-</u>		<input type="checkbox"/>	<u>Run 1" stream of</u>
Water Content (% by Vol.) <u>96.5</u>		<input type="checkbox"/>	<u>water while trip</u>
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (mg/l. mud) <u>-</u>		<input type="checkbox"/>	<u>Thaw all info</u>

Products	Units	Unit Cost	Cost	REMARKS - Give operation conditions for lost returns, etc.
				<input type="checkbox"/> Drilling @
				<input type="checkbox"/> Salt Water flow @
				<input type="checkbox"/> Gas kick @
				<input type="checkbox"/> Stuck pipe @
				<input type="checkbox"/> Tight hole @
				<input type="checkbox"/> Stoughing Shele @
				<input type="checkbox"/> Lost Returns @

ENGINEER BOB ZENHADI HOME ADDRESS VALE, ORE PHONE 473 3234

MOBILE NUMBER _____ WAREHOUSE LOCATION _____ PHONE _____



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DRILLING MUD REPORT

REPORT NO.

DATE	5-5	19	82	DEPTH	1590
API WELL NO.		STATE	COUNTY	WELL	S/T

OPERATOR	Z & S CONSTRUCTION	CONTRACTOR	CHANDLER	RIG NO.	1
ADDRESS	KIMBAL, NEB	ADDRESS	RIG	SPUD DATE	4-27-82
REPORT FOR MR.	WAYNE ROBBINS	REPORT FOR MR.	FRADLAND	SECTION, TOWNSHIP, RANGE	9 19S 44E

WELL NAME AND NO.	RECLA #1	FIELD OR BLOCK NO.	RECLA	COUNTY, PARISH, OR OFFSHORE AREA	MALHEUR	STATE OR PROVINCE	OREGON
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Present Activity	DRL	IN. AT	8 5/8	624	FT	104	250	PUMP SIZE	54	16	REVOLUTIONS PER MIN.	185
Bit Size (in.)	7 7/8	NC	U	Intermediate	Total Circulating Volume	354	Pump Make	EMSCO	Model	DB 500	Opposite Collar	
Dwell Pipe Size	4	Type	FH	Production or Line	In Storage		Ball/Stroke	.12	Stroke/Min	60	Circulating Pressure (psi)	900
Dwell Casing Size	6 1/4	Length	616	Mud Type	L.S.N.D		PI (in.)	7.65	Temp	322	Bottom Up (Min)	10
											Slurp	45

Flow Line Temperature		NO. OF PROPERTIES		EQUIPMENT	
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Time Sample Taken	9:00	SIZE	HRS. TOUR	SIZE	HRS. TOUR
Depth (ft.)	1590	Centrifuge		Deuster	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.7	Deuster		Shaker	
Mud Gradient (psi/ft.)	.452	Desander		Drier	

Funnel Viscosity (sec./qt.) API at	32	DAILY COST	4118	CUMULATIVE COST	41167
Plastic Viscosity cps at	5				
Yield Point (lb./100 sq. ft.)	4				
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	7.5				
PH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	10.5				
Filtrate API (ml./30 min.)	NC				
API HP-HT Filtrate (ml./30 min.)					
Cake Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>					
Alkalinity P.M.					
Alkalinity, Filtrate (P1/Mf)	38/55				

Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg	600	Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg		<p>It's needed to run mud line this Run - 1st CAUSTIC 1st morning of run only Run 1st stream of hole all time while hole drain should pick & please clean it when full with solids Run desander if possible V Adv! 2nd @ 1HR/2</p>
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	12			
Sand Content (% by Vol.)	7.2			
Solids Content (% by Vol.)	2.5			
Oil Content (% by Vol.)	0			
Water Content (% by Vol.)	97.5			
Methylene Blue Capacity <input type="checkbox"/> (ml/ml mud) <input type="checkbox"/> (equiv. # Bbl. bent)				

Products	Units	Unit Cost	Cost	REMARKS - Give operation, depth and nature of any loss and enclosures
Gel	12			
				<input type="checkbox"/> Drilling @
				<input type="checkbox"/> Salt Water flow @
				<input type="checkbox"/> Gas kick @
				<input type="checkbox"/> Stuck pipe @
				<input type="checkbox"/> Tight hole @
				<input type="checkbox"/> Sloughing Shale @
				<input type="checkbox"/> Lost Returns @

ENGINEER	BOB ZENNARO	HOME ADDRESS	VALE	PHONE	473 3230
WELL NUMBER		WAREHOUSE LOCATION		PHONE	



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DRILLING MUD REPORT

REPORT NO.

DATE 5-6 19 82 DEPTH 2346

API WELL NO.	STATE	COUNTY	WELL	RT

OPERATOR Z P S CONSTRUCTION CONTRACTOR CHANDLER RIG NO. 1

ADDRESS RIG ADDRESS FLADLAND SPUD DATE 4-29-82

REPORT FOR MR. _____ REPORT FOR MR. _____ SECTION, TOWNSHIP, RANGE 9 19S 66E

WELL NAME AND NO. RECLA # 1 FIELD OR BLOCK NO. RECLA COUNTY, PARISH OR OFFSHORE AREA MALHEUR STATE OR PROVINCE OREGON

Present Activity <u>DRUG</u>		CASING	HOE	PHS	PUMP SIZE	CIRCULATION DATA	
in. at <u>8 5/8</u>	<u>624</u>	<u>150</u>	<u>500</u>	<u>5 1/2</u>	<u>16</u>	Annual Vol. (FIM)	
API Size (in.) <u>7 7/8</u>	No. <u>5</u>	Intermediate	Total Circulating Volume	Pump Make	Model	Opposite DP	<u>185</u>
API Pipe Size <u>4</u>	Type <u>FH</u>	Production or Liner	In Storage	Flow/Stroke	Stroke/Min	Opposite Collar	<u>374</u>
API Collar Size <u>6 1/4</u>	Length <u>614</u>	Mud Type <u>L. S. N. D.</u>		Bo. Min	g.p.m. l	Circulating Pressure @	<u>900</u>
				<u>7.68</u>	<u>372</u>	Bottoms Up (Min)	<u>16</u>
						System Total (Min)	<u>24</u>

MUD PROPERTIES		EQUIPMENT			
Time Sample Taken <u>11:00</u>		SIZE	HRS./TOUR	SIZE	HRS./TOUR
Depth (ft.) <u>2346</u>		Centrifuge		Desilter	
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.) <u>8.7</u>		Degasser		Shaker	<u>V 8 8 8</u>
Mud Gradient (psi/ft.) <u>0.455</u>		Desander	<u>V 8 8 8</u>	Other	
Funnel Viscosity (sec./qt.) API at _____ °F <u>32</u>		DAILY COST <u>\$ 374</u>		CUMULATIVE COST <u>\$ 4541</u>	
Plastic Viscosity cps at _____ °F <u>4</u>		MUD PROPERTIES SPECIFICATIONS			
Yield Point (lb./100 sq. ft.) <u>41</u>		WEIGHT <u>18.8</u>	VISCOSITY <u>32.34</u>	FILTRATE	<u>N.C.</u>
Gel Strength (lb./100 sq. ft.) 10 sec./10 min. <u>1 1/4</u>		BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN REPRESENTATIVE			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter <u>9.5</u>		<input type="checkbox"/> DRILLING CONTRACTOR'S OFFER			
Filtrate API (ml./30 min.) <u>N.C.</u>		MUD CONTAINS			
API HP-HT Filtrate (ml./30 min.) _____ °F <u>-</u>		<input type="checkbox"/> Barite			
Core Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>		<input checked="" type="checkbox"/> Gel			
Alkalinity P.M. <u>-</u>		<input type="checkbox"/> Ben. Ex			
Alkalinity, Filtrate (Pf/Mf) <u>351.5</u>		Flow from Vis @ <u>300</u>			
Salt <input type="checkbox"/> ppm Chloride <input type="checkbox"/> ppm	<u>600</u>	<u>15% of 5% of Gel</u>			
Calcium <input checked="" type="checkbox"/> ppm Gyp (ppb) <u>7.2</u>		<u>Day then only</u>			
Sand Content (% by Vol.) <u>1/2</u>		<u>2 barrels of cement</u>			
Solids Content (% by Vol.) <u>3</u>		<u>Inhibitor</u>			
Oil Content (% by Vol.) <u>0</u>		<u>Run 1" screens</u>			
Water Content (% by Vol.) <u>97</u>		<u>Water when to</u>			
Methylene Blue Capacity (ml./mi mud) (adviv. # Bbl. bent.) <u>-</u>		<u>dump shale pit</u>			
<u>CHROMATE S</u>	<u>150 P.P.M</u>	<u>as needed</u>			
		THANK YOU			

Products	Units	Unit Cost	Cost	REMARKS— Give description, date and name of the product manufacturer
Gel	10			<input type="checkbox"/> Drilling @
Ben. Ex	1			<input type="checkbox"/> Salt Water flow @
CAUSTIC	1			<input type="checkbox"/> Gas kick @
CORROSION INHIBITOR	2			<input type="checkbox"/> Stuck pipe @
				<input type="checkbox"/> Tight hole @
				<input type="checkbox"/> Sloughing Shale @
				<input type="checkbox"/> Lost Returns @

ENGINEER BOB HOME ADDRESS 428 PHONE 473 3280

DRAWER NUMBER ZP ANA WAREHOUSE LOCATION # 2 PHONE



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DRILLING MUD REPORT

REPORT NO. _____

DATE	5-7-82	DEPTH	2630
API WELL NO.	STATE	COUNTY	WELL
			SPR

OPERATOR	Z & S CONSTRUCTION	CONTRACTOR	CHANDLER	RIG NO.	1
ADDRESS	RIG	ADDRESS	RIG	SPUD DATE	4-29-82
REPORT FOR MR.	RICK SNIDER	REPORT FOR MR.	FLADLAND	SECTION, TOP, END, RANGE	9 195 445

WELL NAME AND NO.	RECLA #1	FIELD OR BLOCK NO.	RECLA	COUNTY, PARISH, OR OFFSHORE AREA	MALHEUR	STATE OF PROVINCE	WYO
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OPERATION	DRLG	GASING	8 5/8 624 Ft	170 500	Pump Size	5 1/2 16	ANNULAR Vel. (Ft./Min.)	185
Well No.	TH 5	Intermediate	670	Total Circulating Volume	Pump Make	E HSCO	Opposite DP	370
Well Pipe Size	4 FH	Production or Liner	In Storage	Blk/Stroke	Model	DA 500	Opposite Collar	950
Well Color Size	6 1/4 614	Well Type	L.S.N.D.	Blk./Min.	Stroke/Min.	64	Circulating Pressure psi	17
						7.68	Bottom Up (Miles)	87

MUD PROPERTIES		EQUIPMENT	
Temperature		SIZE	HRS/TOUR
Time Sample Taken	10:00	Centrifuge	
Depth (ft.)	2630	Degasser	
Wt. <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu. ft.)	8.9	Desander	V 8 8 8
Gradient (psi/ft.)	.467	DAILY COST	\$ 314
Viscosity (sec./qt.) API at _____ °F	33	CUMULATIVE COST	24,355
Viscosity cps at _____ °F	8	MUD PROPERTIES SPECIFICATIONS	
Weight @ 100 sq. ft.	4	WEIGHT	888
Weight @ 100 sq. ft. 10 sec./10 min.	1/4 1/1	VISCOSITY	32.74
Strip <input type="checkbox"/> Meter	9.5	FL. RATE	N.C.
API (ml/30 min.)	N.C.	BY AUTHORITY	<input type="checkbox"/> OPERATOR'S WRITTEN REPRESENTATIVE
Filter (ml/30 min.)	—	<input type="checkbox"/> OPERATOR'S WRITTEN REPRESENTATIVE	<input type="checkbox"/> DRILLING CONTRACTOR'S SIGNATURE
Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	—	MUD CONTAINS	YOUR TREATMENT
Clay P.M.	—	<input type="checkbox"/> Barite	
Filterate (P/M)	15/30 1/1	<input type="checkbox"/> Gel	Maintain Vis @ 30
Chloride ppm	600	<input type="checkbox"/> Bar. ex	15X to 50X of gel
Gyd (ppb)	TR	<input type="checkbox"/> CAUSTIC	15X @ 1.2 mg/l
Solids Content (% by Vol.)	76	<input type="checkbox"/> COREDRILL	Log Down on log
Solids Content (% by Vol.)	4	<input type="checkbox"/> INHIBITOR	2 buckets per log
Oil Content (% by Vol.)	0		Log Down on log
Water Content (% by Vol.)	96		Run 1" stream of water
Mechanical Blue Capacity	—		Run 3" stream
CURD MATS	250 P.P.H		cell Trans whole with Pump & plunger close shaft pit needed

Weight @ 100 sq. ft.	4	Weight @ 100 sq. ft. 10 sec./10 min.	1/4 1/1
Strip <input type="checkbox"/> Meter	9.5	API (ml/30 min.)	N.C.
Filter (ml/30 min.)	—	Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	—
Clay P.M.	—	Filterate (P/M)	15/30 1/1
Chloride ppm	600	Gyd (ppb)	TR
Solids Content (% by Vol.)	76	Solids Content (% by Vol.)	4
Oil Content (% by Vol.)	0	Water Content (% by Vol.)	96
Mechanical Blue Capacity	—	CURD MATS	250 P.P.H

Weight @ 100 sq. ft.	4	Weight @ 100 sq. ft. 10 sec./10 min.	1/4 1/1
Strip <input type="checkbox"/> Meter	9.5	API (ml/30 min.)	N.C.
Filter (ml/30 min.)	—	Thickness 32nd in. API <input type="checkbox"/> HP-HT <input type="checkbox"/>	—
Clay P.M.	—	Filterate (P/M)	15/30 1/1
Chloride ppm	600	Gyd (ppb)	TR
Solids Content (% by Vol.)	76	Solids Content (% by Vol.)	4
Oil Content (% by Vol.)	0	Water Content (% by Vol.)	96
Mechanical Blue Capacity	—	CURD MATS	250 P.P.H

Products	Units	Unit Cost	Cost	REMARKS - Give quantity, depth and reason for use
Caustic	3 @			<input type="checkbox"/> Drilling @
	1			<input type="checkbox"/> Salt Water flow @
				<input type="checkbox"/> Gas kick @
				<input type="checkbox"/> Stuck pipe @
				<input type="checkbox"/> Tight hole @
				<input type="checkbox"/> Sloughing Shale @
				<input type="checkbox"/> Lost Returns @

WELL ADDRESS: Vernal, Utah
WELL LOCATION: # 2V
PHONE: 473 3230