

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 175-21339 - 0000

County Seward

N/2 NE/4 NW/4 Sec. 4 Twp. 33S Rge. 33 X E

Operator: License # 7203

330 Feet from S (N) (circle one) Line of Section

Name: Wheeler Oil Company

1980 Feet from E (W) (circle one) Line of Section

Address P.O. Box 1439

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)

Tulsa, OK 74101-1439

Lease Name Cosgrove Well # 1-4

City/State/Zip Tulsa, OK 74101-1439

Field Name Evelyn

Purchaser: Petrosource & Enron

Producing Formation Morrow-Chester

Operator Contact Person: Johanna Smart

Elevation: Ground 2811 KB 2823.5

Phone (918) 587-7474

Total Depth 6,200' PBDT 6133

Contractor: Name: Zenith Drilling

Amount of Surface Pipe Set and Cemented at 1,684 Feet

License: 5141

Multiple Stage Cementing Collar Used? X Yes No

Wellsite Geologist: Calvin Brink

If yes, show depth set Feet

Designate Type of Completion

X New Well Re-Entry Workover

If Alternate II completion, cement circulated from

X Oil SWD S10W Temp. Abd.

feet depth to w/ sx cmt.

 Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan 4-20-94 CB
(Data must be collected from the Reserve Pit)

If Workover/Re-Entry: old well info as follows:

Operator:

Chloride content 2000 ppm Fluid volume 8000 bbls

Well Name:

Dewatering method used Evaporation/Backfill

Comp. Date Old Total Depth

Location of fluid disposal if hauled offsite:

 Deepening Re-perf. Conv. to Inj/SWD

Operator Name

 Plug Back PBDT

 Commingled Docket No.

Lease Name License No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

 Quarter Sec. Twp. S Rng. E/W

09/21/93 10/03/93 01/03/94
Spud Date Date Reached TD Completion Date

County Docket No.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Johanna Smart

Title Notary Public Date 01/04/94

Subscriber and sworn to before me this 4th day of January

19 94
Notary Public Johanna Smart

Date Commission Expires Nov 19, 1996

RECEIVED
STATE CORPORATION COMMISSION

RECEIVED
K.C.C. OFFICE OF THE CORPORATION COMMISSION
F Letter of Confidentiality Attached
C Wireline Logs Received
C Geologist Report Received
DISTRIBUTION
 KCC SWD/RW
 KGS Plug Other
(Specify)
JAN 11 1994
NOV 2 1994
Form ACO-1 (7-91)

SIDE TWO

Operator Name Wheeler Oil Co Lease Name Cosgrove Well # 1-A
 Sec. 4 Twp. 33S Rge. 33 East West
 County Seward

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	4,152	-1328.5
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	4,310	-1486.5
List All E.Logs Run:		Marmaton	4,978	-2154.5
Phasor Induction		Morrow Shale	5,504	-2680.5
Comp. Density = Neutron		Chester	5,930	-3106.5
Microlog				

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surf	12 1/4	8 5/8	24#	1,684'	Class C	665	2% CaCl ₂
Prod	7 7/8	4 1/2	11.6#	6,198'	Class H	865	10% CaCl ₂

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	Chester 6,034'-41'	1500 Gal Kerosene	6,034'-41'
	Frac	24,444 Gal Thixoil w/ 27,500# 16/30 sand	

TUBING RECORD	Size <u>2 3/8</u>	Set At <u>5,930'</u>	Packer At <u>5,933'</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. <u>01/03/94</u>	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf <u>175</u>	Water Bbls. <u>-0-</u>	Gas-Oil Ratio <u>8.750</u>	Gravity <u>38° API</u>
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Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

(if vented, submit ACO-18.)

PHONE
316 / 824-7340

DEAN'S TESTERS INC.

ORIGINAL

P. O. BOX 1182
LIBERAL, Ks. 67801

SEC. 4

Wheeler Energy Company
OPERATOR

Formation Chester Sand Type Test Conventional Date October 3, 1993
Anchor Length and Size 166'; 142'X6"OD-D.C., 24'X4 1/2"OD-Perf. Total Depth 6200'
Packer Depths 6029' & 6034' Below Straddle _____ Choke Size Bottom 5/8" Surface 1"
Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

TWP. 33S

Lengths: Tool 199' D.P. 5564' ID 3.8" Wt. P. _____ ID _____ D.C. 451' ID 2.25"
Mud Type Chemical Vls. 43 Wt. 9.3 Wtr. Loss 9.2 Cl. 1200 ppm

RGE. 33W

Recorders: Depth 6046' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 6055' Make Kuster Cap. 6800 Ser. No. 10217 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 8:35 AM. Initial Hydrostatic 3038 psi
Initial Flow 30 Min. IFP 158 psi to 196 psi
Initial Shut-in 60 Min. ISIP 2048 psi
Final Flow 30 Min. FFP 219 psi to 219 psi
Final Shut-in 60 Min. FSIP 2032 psi
Tool off Bottom @ 11:35 AM. Final Hydrostatic 3029 psi Temp. 145°F.

Blow: Strong. Gas to surface in 4 min.

Recovery: 90' Oil Cut Muddy Water. 9,000 PPM Cl.

Gas Flow: 915 MCF/D @ end of F.F.P. (see attached sheet)

Sampler Data:
Pressure 220 PSI
Gas 1.36 cu. ft.
Total Fluid 250 cc
Oil Trace cc
Water 250 9,600 PPM Cl. cc
Mud --- cc
Oil Gravity _____ °F.
Gas/Oil Ratio _____

Remarks: Hit bridges @ 4600' & 5700'.
Encountered torque in drill pipe while rotating to open and close tool.
Rw. -.20 @ 145°F.

Tester Butch Young Witnessed by: Don Purcell

API # 15-175-21339

COUNTY Seward

STATE Kansas

TICKET NO. 3568

Cosgrove #1-4

TEST #

6034' - 6200'

TEST INTERVAL

Ph. 316/624-7340

Mobile — 316/624-6247

Unit #935



P.O. Box 1182

Liberal, Kansas 67901

Company Wheeler Energy Company Well Cosgrove #1-4

Test # 2 Interval 6034' - 6200'

Method of Gauge Merla 2" Quick-Change Orifice Well Tester

Time	Gauge	Orifice Size	Gas Volume MCF/D
<u>Initial Flow</u>			
<u>10 min.</u>	<u>5.5 PSI</u>	<u>1½"</u>	<u>571 MCF/D</u>
<u>20 "</u>	<u>8.0 "</u>	<u>"</u>	<u>700 "</u>
<u>30 "</u>	<u>10 "</u>	<u>"</u>	<u>802 "</u>
<u>Final Flow</u>			
<u>10 min.</u>	<u>11 PSI</u>	<u>1½"</u>	<u>847 MCF/D</u>
<u>20 "</u>	<u>12 "</u>	<u>"</u>	<u>893 "</u>
<u>30 "</u>	<u>12.5 "</u>	<u>"</u>	<u>915 "</u>

Surface Choke 1" Bottom Choke 5/8"

Remarks: Gas to surface in 4 min.

Pressure Break Down

Test ticket no. 3568 Recorder no. 10269 Capacity 6500 Rec. Depth. 6046'

	Time	Given 30	Computed 30
Initial Flow pressure <u>158</u> to <u>196</u>			
Initial Closed in pressure <u>2048</u>		60	60
Final Flow pressure <u>219</u> to <u>219</u>		30	30
Final Closed-in pressure <u>2032</u>		60	60
Initial Hydrostatic pressure <u>3038</u>	Final Hydrostatic press. <u>3029</u>	Temp <u>145°F.</u>	

Initial Flow Press.

Minutes	Press
0	158
5	164
10	170
15	177
20	183
25	190
30	196
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	

Initial Closed in Press.

Minutes	Press
0	196
3	1977
6	2019
9	2032
12	2038
15	2038
18	2041
21	2041
24	2041
27	2041
30	2045
33	2045
36	2045
39	2045
42	2048
45	2048
48	2048
51	2048
54	2048
57	2048
60	2048
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

Final Flow Press

Minutes	Press
0	--
5	219
10	219
15	219
20	219
25	219
30	219
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	
105	
110	
115	
120	
125	
130	
135	
140	
145	
150	
155	
160	
165	
170	
175	
180	

Final Closed in Press.

Minutes	Press
0	219
3	1967
6	1996
9	2009
12	2016
15	2019
18	2022
21	2022
24	2025
27	2025
30	2028
33	2028
36	2028
39	2028
42	2028
45	2028
48	2028
51	2032
54	2032
57	2032
60	2032
63	
66	
69	
72	
75	
78	
81	
84	
87	
90	
93	
96	
99	
102	
105	
108	
111	
114	
117	
120	

**DEAN'S TESTERS
NATURAL GAS ANALYSIS REPORT**

Sampled by:
Dean's Testers
P. O. Box 1182
Liberal, Kansas 67905-0252
Phone: 316-624-7340
Ans. Ser.: 316-624-6247

Analyzed by:
Caraway Analytical
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number: 93185
Sample From: Cosgrove #1-4 DST #2
Producer: Wheeler Energy Co.
Date: 10/03/93
Time:
Sampler: Butch Young
Source:

Analyzed: 10/03/93
Pressure:
Temperature:
Location: 4-33S-33W
County: Seward
State: Kansas
Formation: Chester Sand

	Mole %	GPM
Helium	He: 0.439	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 8.031	0.000
Carbon Dioxide	CO2: 0.277	0.000
Methane	C1: 84.043	0.000
Ethane	C2: 3.314	0.886
Propane	C3: 1.624	0.447
Iso Butane	iC4: 0.335	0.110
Normal Butane	nC4: 0.689	0.217
Iso Pentane	iC5: 0.193	0.071
Normal Pentane	nC5: 0.323	0.117
Hexanes Plus	C6+: 0.732	0.319

TOTAL: 100.000 2.168
Z Fact: 0.9977
SP.GR.: 0.6624
BTU (SAT): 1026.6 @ 14.73 psia
BTU (DRY): 1044.8 @ 14.73 psia

COMMENTS:
6034' - 6200'

ORIGINAL

WELL LOG

COMPANY WHEELER ENERGY CO.

SEC. 4-33-33W

FARM COSGROVE

NO. 1-4

LOC. 330' FNL & 1980' FWL

TOTAL DEPTH 6200'

COUNTY SEWARD, KS

COMM. 9-22-93

COMP. 10-04-93

CONTRACTOR ZENITH DRILLING CORPORATION

CASING
RAN 38 JTS. NEW, 24#, 8/5/8" CASING, CEMENTED WITH 665 SACKS CEMENT
RAN 138 JTS. NEW, 4 1/2", 11.6# CASING, CEMENTED WITH 375 SACKS CEMENT

FIGURES INDICATE BOTTOM OF FORMATIONS

565	SAND
1225	SAND & RED BED
1614	RED BED, SAND & ANHYDRITE
1953	RED BED
2850	RED BED & SHALE
3140	DOLOMITE
3820	DOLOMITE & SHALE
6200	LIME & SHALE

State of KANSAS }
County of SEDGWICK } SS

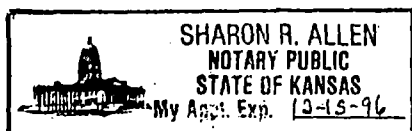
I, C. ROBERT BUFORD of ZENITH DRILLING CORPORATION

upon oath state the above and foregoing is a true and correct copy of the log of the COSGROVE #1-4 well.

Subscribed and sworn to before me this 13 day of OCTOBER, 1993

My Commission Expires: 12-15-96

Sharon R. Allen
SHARON R. ALLEN NOTARY PUBLIC



RECEIVED
STATE CORPORATION COMMISSION

APR 21 1994

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL



The Western Company
of North America

REMIT TO: P.O. BOX 911543
DALLAS, TX 75391-1543

WHEELER ENERGY COMPANY
P.O. BOX 1439
TULSA OK 74101-1439

FEDERAL I.D. NO. C 75-0763484

INVOICE NO. 431609	OUR RECEIPT NO. 26041	DATE 10/04/93
96267	1225	

RECEIVED
 STATE CORPORATION COMMISSION
 JUN 10 1994
 DIVISION
 CONSTRUCTION
 TULSA

SERVICES FROM OUR STATION AT PERRYTON CEMENTING	OUR ENGINEER RABE	SIGNED FOR YOU BY PURCELL
FOR SERVICING WELL NAME COSGROVE 1-4	COUNTY SEWARD	STATE KS 15

CT E	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
15	MILEAGE, AUTO/PICK-UP/TREATING VAN	MILE	10.0	1.550	15.50	28.00	11.16
05	MILEAGE, HEAVY VEHICLE, PER UNIT	MILE	10.0	2.900	29.00	28.00	20.88
45	CEMENT CASING, 6001 - 6500 FT	8HRS	1.0	1825.000	1825.00	28.00	1,314.00
305	MULTIPLE STAGE CEMENTING	8HRS	1.0	1100.000	1100.00	28.00	792.00
005	BULK MATERIALS SERVICE CHARGE	CU FT	758.0	1.350	1023.30	28.00	736.78
32N	PREMIUM CMT, HUGOTON, KS	SACK	375.0	9.080	3405.00	28.00	2,451.60
462N	PACESTR PREM + LITE, HUGOTON, KS	SACK	260.0	9.090	2363.40	28.00	1,701.65
1425	CF-2	LB	176.0	8.450	1487.20	28.00	1,070.78
1795	HI-SEAL 2	LB	750.0	.900	675.00	28.00	486.00
2035	THIXAD	LB	3525.0	.310	1092.75	28.00	786.78
H5027	CALC CHLORIDE-TX PANHANDLE	LB	480.0	.390	187.20	28.00	134.78
H5327	SODIUM CHLORIDE-TX PANHANDLE	LB	2200.0	.140	308.00	28.00	221.76
P3255	THREAD LOCKING COMPOUND	BOX	2.0	23.900	47.80	28.00	34.42
13150	GUIDE SHOE/LONG BOX 4.5" BRD	EACH	1.0	110.000	110.00	28.00	79.20
16042	FLOAT COL/AL FLAP 4.5" AF BRD	EACH	1.0	295.000	295.00	28.00	212.40
17347	STAGE CEMENTING TOOL 4.5" BRD	EACH	1.0	2875.000	2875.00	28.00	2,070.00
17062	CENTRALIZER W/ PIN 4 1/2"	EACH	12.0	52.500	630.00	28.00	453.60
17129	STOP COLLARS 4 1/2"	EACH	1.0	17.800	17.80	28.00	12.82
J4015	BULK MATERIAL DELIVERY, DRY	TONMI	331.5	.900	298.35	28.00	214.81
	SUB TOTAL				17785.30		12,805.42

ENTERED OCT 12 1993

PAY THIS AMOUNT →

PHONE: (713) 629-2600

TERMS: NET 30 DAYS



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

ORIGINAL

CUSTOMER WHEELER ENERGY	DATE 10-4-93	F.R.# 260417	SER. SUP. RABE	TYPE JOB 2. STAGE L/S
LEASE & WELL NAME OCSC OCSCGROVE 1-4	LOCATION 4-33S-33W	COUNTY-PARISH-BLOCK SEWARD, KS		
DISTRICT PERRYTON	DRILLING CONTRACTOR FIG # ZENITH #6	OPERATOR		

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST CSG-HARDWARE		SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES				
	TOP BTM	STAGE TOOL	GUIDE SHOE-STAGE TOOL	AF COLLAR 12 CENT.			SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	2% SL. 2%V

1ST STAGE											
375 SX H + 10% THIXAD + 10% SALT + .5% CF-2 + 2#/SK											
HI-SEAL 2							14.8	1.52	7.02	101	63
2ND STAGE											
260 SX PSL C + 2% CACL ²											
							12.6	1.86	9.9	86	63

Available Mix Water	Bbl.	Available Displ. Fluid	Bbl.	TOTAL	187	126
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HOLE			TBG-CSG-D.P.				TBG-CSG-D.P.				COLLAR DEPTHS		
SIZE	EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
7 7/8		6200	4 1/2	11.6	J-55	6200					6200	6151	3098

LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	DEPTH	SIZE	TYPE	DEPTH	TOP	BTM	SIZE	T-READ	TYPE	WGT.
8 5/8	24#							4 1/2"	8"	MUD	

CAL DISPL VOL-BD.				CAL PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL FLUID		WATER
TBG	CSG	CSG	TOTAL	BUMP PLUG	TO REV.	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE	
	ABOVE	BELOW	95.3								2500	WATER	8.3	RIG

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG, ETC. PRIOR TO CEMENTING.

PRESSURE/RATE DETAIL					EXPLANATION	
TIME HR. MIN.	PRESSURE-PSI PIPE	RATE ANNULUS BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input checked="" type="checkbox"/>	
					TEST LINES	2500 PSI
					CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input checked="" type="checkbox"/>	
5:41	3000			WATER	TEST LINES.	
5:50	200	5		CEMENT	START SCAVENGER SLURRY (11#/GAL.).	
5:53	200	5	13	CEMENT	START CEMENT.	
6:13	100	5	98		FINISH CEMENT-WASH PUMP & LINES.	
6:18	100	6		WATER	DROP PLUG-START DISPLACEMENT.	
6:26	400	6	50	MUD	START MUD.	
6:39	1500		95 1/2	MUD	BUMP PLUG-FINISH DISPLACEMENT.	
6:40					CHECK FLOAT - HELD OK.	
6:43					DROP OPENING PLUG.	
7:01	800			MUD	OPEN TOOL.	
7:05					HOOK TO RIG - CIRCULATE.	
9:04	200	5 1/2		WATER	HOOK PUMP TO CSG - START WATER AHEAD.	
9:07	200	5 1/2	10	CEMENT	START CEMENT.	
9:25	200	5 1/2	86	CEMENT	FINISH CEMENT.	
9:26	100	6		WATER	DROP PLUG-START DISPLACEMENT.	
9:37	500	2	40	WATER	SLOW PUMP.	
9:40	1700	2	48	WATER	BUMP PLUG-FINISH DISPLACEMENT-CLOSE TOOL.	
9:41					TEST TOOL - HELD OK.	

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. STATE CORPORATION COMMISSION
Y N		Y					CUSTOMER REP. RABE

RECEIVED
STATE CORPORATION COMMISSION
RABE
MARCH 17 1994



**THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET**

ORIGINAL

RECEIVED APR 18 1994

CUSTOMER: ZENITH DRILLING CORP.		DATE: 9-23-93	F.R.#: 260338	SER SUP: CANADAY	TYPE JOB SURFACE								
LEASE & WELL NAME-OCSG COSGROVE 1-4		LOCATION: 4-33S-33W		COUNTY-PARISH-BLOCK SEWARD, KS									
DISTRICT: PERRYTON		DRILLING CONTRACTOR RIG.#: ZENITH 36		OPERATOR: WHEELER ENERGY									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS	LIST-CSG-HARDWARE		SO MANI FOLD	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES							
	COB RUBBER BTM	GUIDE SHOE-INSERT FLOAT CENT.		Y N		SLURRY WGT PPG, SLURRY YLD FT, WATER GPS, PUMP TIME HR MIN, BbL SLURRY, BbL MIX WATER							
515 SX PSL II + 8% GEL + 5% SALT + 1#/SK CELLO-SEAL						12.4 2.27 12.8 208 157							
150 SX C + 2Z CACL ²						14.8 1.34 6.34 35.8 22.6							
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.		TOTAL: 243.81796									
HOLE		TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FOAT	STAGE
12 1/2	100	1687	8 5/8	24#	J-55	1687					1687	1645	1
LAST CASING		PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID				
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT	
									8 5/8	8 R	MUD	8.6	
CAL DISPL VOL-Bbl.		CAL PSI		CAL MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID	
TBG	CSG	CSG	TOTAL	BLAMP FLUG	TO REV	SG. PSI	RATED	OP	RATED	OP	TYPE	WGT	WATER SOURCE
	104.8		104.8	1000							WATER	8.3	RIG
EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG, ETC. PRIOR TO CEMENTING: DRILLING - RUNNING PIPE													
PRESSURE/RATE DETAIL						EXPLANATION							
TIME HR: MIN.	PRESSURE-PSI		RATE	BbL FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW & CO. REP & TEST LINES 1500 PSI CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>							
	PIPE	ANNULUS	BPM			PRESSURE TEST.							
6:15						WATER AHEAD.							
6:18	0-200		4-5	10	WATER	START LEAD SLURRY.							
6:20	200		4-6	208	CEMENT	ALL LEAD SLURRY-START TAIL SLURRY.							
7:05	200-0		4-5	35.8	CEMENT	ALL FLURRY - SHUT DOWN.							
7:16						DROP PLUG-START DISPLACEMENT.							
7:18	0-600		4-6		WATER	SLOW RATE.							
7:40	600		4-2.5	94	WATER	SHUT DOWN - PLUG BUMP.							
7:45	600-1000			10	WATER	BLEED BACK - FLOAT HOLDING.							
7:46	1000-0												
BUMPED PLUG													
PSI TO BUMP PLUG	TEST FLOAT EQUIP	TOTAL BbL PUMPED	BbL CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER SUP: CANADAY							
1000	Y N	359	25	0	SURFACE	CUSTOMER REP: GERHARDT							

RECEIVED STATE CORPORATION COMMISSION

APR 21 1994

CONSERVATION DIVISION
Wichita, Kansas

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