

CONFIDENTIAL

SIDE ONE

ORIGINAL

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

Operator: License # 5988Name: Halliburton Oil Producing Co.Address 1001 NW 63rd - Suite 250City/State/Zip Oklahoma City, OK 73116

Purchaser:

Operator Contact Person: Mr. John ClarkPhone (405) 843-0261Contractor: Name: Duke Drilling Co., Inc.License: 5929

Wellsite Geologist:

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☒ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.☐ Gas ☐ ENHR ☐ SIGW☐ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

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

Operator:

Well Name:

Comp. Date

Old Total Depth

Deepening ☐ Re-perf. ☐Plug Back ☐Commingled ☐Dual Completion ☐Other (SWD or Inj?) ☐

Docket No.

Docket No.

Docket No.

04-30-9605-07-967-19-96

Spud Date

Date Reached TD

Completion Date

API NO. 15- 155-21386 0000 -0000County Reno County, KansasSW SW SE Sec. 22 Twp. 26S Rge. 6330 Feet from S/W (circle one) Line of Section2310 Feet from E/W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Preheim Well # 1-22

Field Name

Producing Formation MississippiElevation: Ground 1552 KS 1560Total Depth 4170' PBTD 4150'Amount of Surface Pipe Set and Cemented at 219' FeetMultiple Stage Cementing Collar Used? ☐ Yes ☐ NoIf yes, show depth set ☐ Feet

If Alternate II completion, cement circulated from

feet depth to ☐ w/ ☐ sx cm.Drilling Fluid Management Plan ACT 1 DFW
(Data must be collected from the Reserve Pit) 7-30-97Chloride content 44000 ppm Fluid volume 940 bblsDewatering method used EvaporationLocation of KANSAS CORPORATION COMMISSION
fluid disposal if hauled offsite:

Operator Name

Lease Name

License No.

Quarter

CONSERVATION DIVISION

Sec. WICHITA, KS.

S Rng.

E/W

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

Title John S. Clark, Sr., Operations Date 8-5-96Subscribed and sworn to before me this 5th day of August 19 96

Notary Public

Date Commission Expires

April 1, 1998

K.C.C. OFFICE USE ONLY

F ☒ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☒ Geologist Report Received

Distribution

☒ KCC ☐ SWD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

Operator Name Halliburton Oil Producing Co.Lease Name PreheimWell # 1-22Sec. 22 Twp. 26S Rge. 6☐ EastCounty Reno County, Kansas☒ West

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.)☒ Yes ☐ No☐ Log

Formation (Top), Depth and Datum

☐ Sample

Samples Sent to Geological Survey

☒ Yes ☐ No

Cores Taken

☐ Yes ☒ NoElectric Log Run
(Submit Copy.)☒ Yes ☐ No

List All E.Logs Run:

Density, Dual Induction

Name	Top	Datum
Heebner	2734'	
Lansing	3005'	
Stark	3340'	
B/KC	3448'	
Cherokee	3576'	
Miss Unc.	3702'	
"b"	3712'	
"B"	3727'	
Kinderhook	3905'	
Viola	4070'	
Simpson	4140'	

TD: 4170'

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
Surface	12-1/4"	8-5/8"	28#	219'	60/40 Poz	185	3%cc 2%gel
Production	7-7/8"	5-1/2"	14 & 15#	3897'	Std.	120	18%salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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
4	3706- 3714'	Acid- 2000 gals. of 7 1/2% W/ 8gals.-surf., 20 gals.-FE, 4 gals. cla sta	

TUBING RECORD		Size 2-7/8"	Set At 3691'	Packer At none	Liner Run ☐ Yes ☒ No		
Date of First, Resumed Production, SWD or Inj.			Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)				
Estimated Production Per 24 Hours	Oil 20	Bbls.	Gas 0	Mcf 800	Water Bbls.	Gas-Oil Ratio NA	Gravity 36

Disposition of Gas:

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____

Production Interval

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ORIGINAL

WELL NAME: Preheim #1
OPERATOR: Halliburton Oil Prod
LOCATION: Sec 22 Twp 26S Rge 6W
Reno County Kansas
DATE: 05/05/96

15-155-21386

RELEASED

OCT 12 1998

FROM CONFIDENTIAL

REC
AUG 15
CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 07 1996

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Halliburton Oil Prod.

DATE 5-05-96

WELL NAME: Preheim #1

KB 1560.00 ft

TICKET NO: 8959

DST #1

LOCATION : 22-26S-6W, Reno Cty KS

GR 1552.00 ft

FORMATION: MISS.

INTERVAL : 3700.00 To 3720.00 ft

TD 3720.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2351			PF Fr. 0608 to 0638 hr
SI 60	Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0638 to 0738 hr
SF 60	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0738 to 0838 hr
FS 120	Depth(ft)	3717.0	3717.0	3705.0	0.0	0.0	FS Fr. 0838 to 1038 hr

	Field	1	2	3	4	
A. Init Hydro	1808.0	1799.0	1822.0	0.0	0.0	T STARTED 0217 hr
B. First Flow	28.0	32.0	34.0	0.0	0.0	T ON BOTM 0605 hr
B1. Final Flow	55.0	53.0	58.0	0.0	0.0	T OPEN 0608 hr
C. In Shut-in	1091.0	1093.0	1098.0	0.0	0.0	T PULLED 1038 hr
D. Init Flow	60.0	73.0	64.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	116.0	119.0	124.0	0.0	0.0	
F. Fl Shut-in	1154.0	1152.0	1153.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1793.0	1778.0	1784.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 250.00 ft of 0.00 ft in DC and 250.00 ft in DP
70.00 ft of Watery mud - 33% water, 67% mud
180.00 ft of Muddy water with oil specks -
85% water, 15% mud

12.00 ft of Pay (est)

SALINITY 52000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -

Strong blow, gas to surface in 16 min

Final Flow -

Strong blow

RELEASED

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KANSAS CORPORATION COMMISSION

OCT 12 1998

AUG 07 1996

FROM CONFIDENTIAL

CONSERVATION DIVISION
WICHITA, KS

SAMPLES: GAS SAMPLE

SENT TO: OIL LAB /OKLA.CITY

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/
Vis.	45.00 S/I
W.L.	9.90 in
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 F
Hole Condition	GOOD
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	NONE
Reversed Out N	
Tool Chased N	
Tester	GARY PEVOTEAUX
Co. Rep.	DAN FREDLUND
Contr.	DUKE DRIG.
Rig #	2
Unit #	
Pump T.	

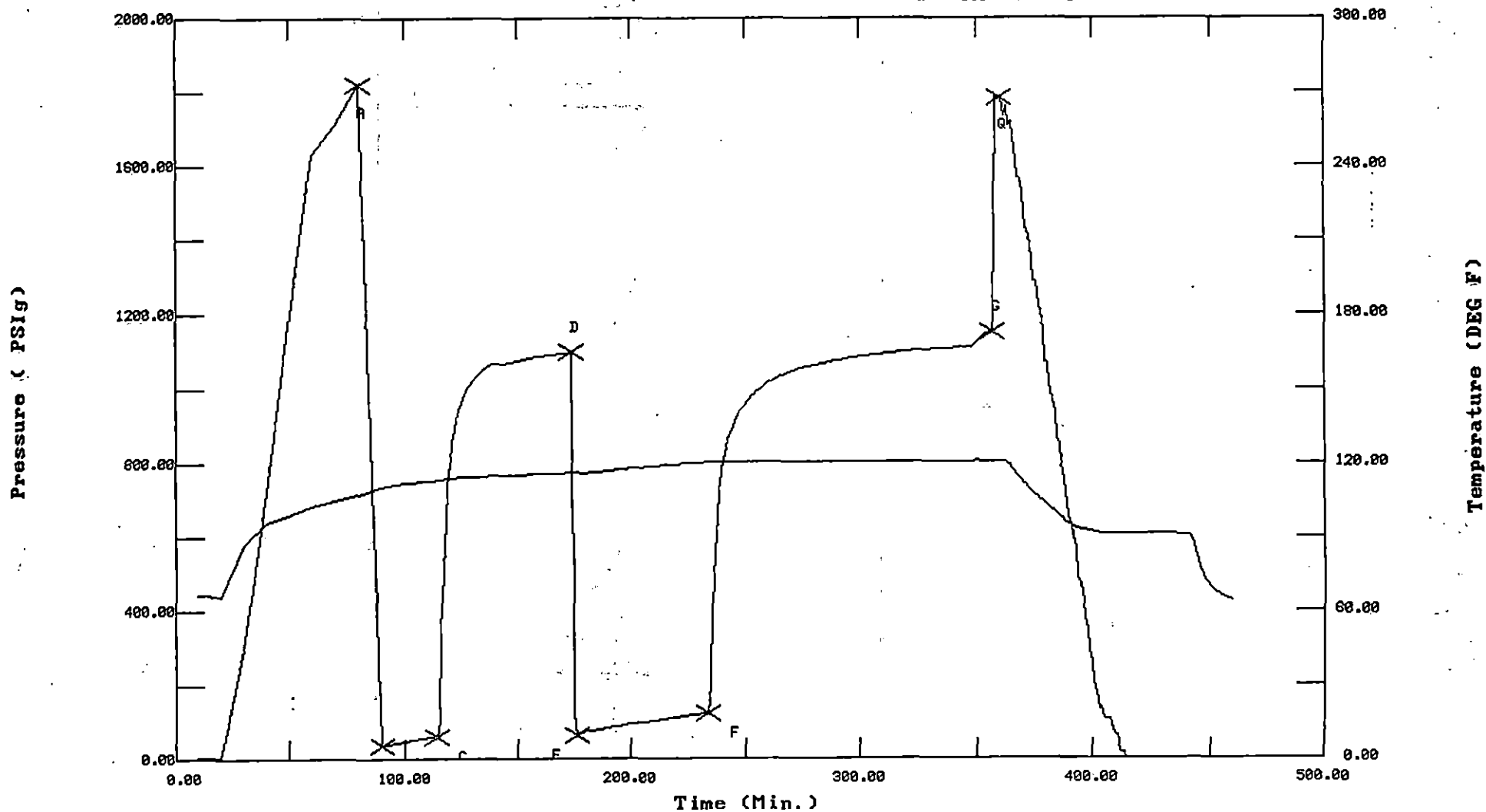
TEST HISTORY

8959 DST#1 PREHEIM#1 HALLIBURTON OIL PRODUCING CO.

Flag Points

t(Min.) P(PSig)

A:	0.00	1822.40
B:	0.00	33.73
C:	24.00	57.90
D:	60.00	1098.19
E:	0.00	63.69
F:	58.00	123.95
G:	123.00	1152.91
Q:	0.00	1784.13



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 8959 DST#1 PREHEIM#1 HALLIBURTON OIL PRODUCING CO.
 DATE: 05/05/96 TIME: 04:38:07

ORIGINAL

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	80.00	1822.4	0.0	107.11		
***** Start Flow 1	0.00	33.7	0.0	110.16		
	10.00	45.9	12.2	111.91		
	21.00	59.1	25.3	112.79		
	22.00	59.7	25.9	112.90		
	23.00	60.9	27.2	112.99		
***** End Flow 1	24.00	57.9	24.2	113.10		
***** Start Shutin 1	0.00	57.9	0.0	113.10	0.0000	0.003
	1.00	105.3	47.4	113.20	25.0000	0.011
	2.00	338.4	280.5	113.32	13.0000	0.115
	3.00	514.3	456.4	113.46	9.0000	0.265
	4.00	643.0	585.1	113.62	7.0000	0.413
	5.00	736.2	678.3	113.77	5.8000	0.542
	6.00	804.4	746.5	113.91	5.0000	0.647
	7.00	853.6	795.7	114.02	4.4286	0.729
	8.00	891.1	833.2	114.13	4.0000	0.794
	9.00	920.7	862.8	114.21	3.6667	0.848
	10.00	944.2	886.3	114.28	3.4000	0.891
	11.00	963.0	905.1	114.33	3.1818	0.927
	12.00	978.6	920.7	114.39	3.0000	0.958
	13.00	991.7	933.8	114.43	2.8462	0.983
	14.00	1002.8	944.9	114.47	2.7143	1.006
	15.00	1012.4	954.5	114.51	2.6000	1.025
	16.00	1020.9	963.0	114.55	2.5000	1.042
	17.00	1028.3	970.4	114.58	2.4118	1.057
	18.00	1034.9	977.0	114.63	2.3333	1.071
	19.00	1040.8	982.9	114.65	2.2632	1.083
	20.00	1046.2	988.3	114.69	2.2000	1.094
	21.00	1051.0	993.1	114.72	2.1429	1.105
	22.00	1055.4	997.5	114.75	2.0909	1.114
	23.00	1059.4	1001.5	114.80	2.0435	1.122
	24.00	1063.1	1005.2	114.82	2.0000	1.130
	25.00	1066.5	1008.6	114.86	1.9600	1.137
	26.00	1069.1	1011.2	114.90	1.9231	1.143
	27.00	1067.5	1009.6	114.93	1.8889	1.139
	28.00	1066.7	1008.8	114.96	1.8571	1.138
	29.00	1067.1	1009.2	114.99	1.8276	1.139
	30.00	1068.1	1010.2	115.03	1.8000	1.141
	31.00	1069.2	1011.3	115.06	1.7742	1.143
	32.00	1070.6	1012.7	115.10	1.7500	1.146
	33.00	1072.1	1014.2	115.13	1.7273	1.149
	34.00	1073.5	1015.6	115.21	1.7059	1.152
	35.00	1074.9	1017.0	115.20	1.6857	1.155
	36.00	1076.4	1018.5	115.24	1.6667	1.159
	37.00	1077.7	1019.8	115.27	1.6486	1.161
	38.00	1079.1	1021.1	115.31	1.6316	1.164
	39.00	1080.4	1022.5	115.35	1.6154	1.167
	40.00	1081.6	1023.7	115.38	1.6000	1.170
	41.00	1082.7	1024.8	115.41	1.5854	1.172
	42.00	1083.9	1026.0	115.45	1.5714	1.175
	43.00	1084.9	1027.0	115.49	1.5581	1.177

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8959 DST#1 PREHEIM#1 HALLIBURTON OIL PRODUCING CO.

DATE: 05/05/96

TIME: 04:38:07

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	34.00	102.1	38.4	118.72		
	35.00	102.9	39.2	118.80		
	36.00	104.0	40.3	118.88		
	37.00	105.0	41.3	118.96		
	38.00	105.9	42.2	119.03		
	39.00	106.7	43.1	119.11		
	40.00	107.7	44.0	119.18		
	41.00	108.7	45.0	119.26		
	42.00	109.8	46.1	119.32		
	43.00	110.4	46.7	119.39		
	44.00	111.5	47.8	119.46		
	45.00	112.3	48.6	119.53		
	46.00	113.2	49.5	119.60		
	47.00	114.4	50.7	119.67		
	48.00	115.1	51.4	119.73		
	49.00	116.2	52.5	119.79		
	50.00	117.2	53.5	119.86		
	51.00	118.0	54.3	119.92		
	52.00	118.7	55.1	119.97		
	53.00	119.6	55.9	120.03		
	54.00	120.4	56.7	120.09		
	55.00	121.3	57.6	120.15		
	56.00	122.2	58.5	120.21		
	57.00	123.2	59.5	120.26		
***** End Flow 2	58.00	124.0	60.3	120.32		
***** Start Shutin 2	0.00	124.0	0.0	120.32	0.0000	0.015
	1.00	201.0	77.0	120.37	83.0000	0.040
	2.00	413.4	289.5	120.43	42.0000	0.171
	3.00	555.8	431.8	120.51	28.3333	0.309
	4.00	654.1	530.2	120.59	21.5000	0.428
	5.00	725.0	601.1	120.66	17.4000	0.526
	6.00	774.1	650.2	120.70	14.6667	0.599
	7.00	811.8	687.9	120.72	12.7143	0.659
	8.00	841.8	717.8	120.73	11.2500	0.709
	9.00	865.9	741.9	120.72	10.1111	0.750
	10.00	885.2	761.2	120.70	9.2000	0.784
	11.00	901.5	777.5	120.68	8.4545	0.813
	12.00	915.5	791.5	120.66	7.8333	0.838
	13.00	927.6	803.7	120.64	7.3077	0.861
	14.00	938.4	814.4	120.61	6.8571	0.881
	15.00	948.0	824.1	120.59	6.4667	0.899
	16.00	956.8	832.8	120.56	6.1250	0.915
	17.00	964.7	840.7	120.54	5.8235	0.931
	18.00	972.0	848.0	120.50	5.5556	0.945
	19.00	978.6	854.6	120.49	5.3158	0.958
	20.00	984.8	860.8	120.46	5.1000	0.970
	21.00	990.4	866.5	120.41	4.9048	0.981
	22.00	995.8	871.8	120.44	4.7273	0.992
	23.00	1000.7	876.8	120.42	4.5652	1.001
	24.00	1005.4	881.4	120.41	4.4167	1.011
	25.00	1009.8	885.9	120.39	4.2800	1.020

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 8959 DST#1 PREHEIM#1 HALLIBURTON OIL PRODUCING CO.
 DATE: 05/05/96 TIME: 04:38:07

ORIGINAL

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
77.00	1094.5	970.5	120.52	2.0649	1.198
78.00	1095.2	971.3	120.52	2.0513	1.200
79.00	1095.8	971.9	120.53	2.0380	1.201
80.00	1096.5	972.6	120.54	2.0250	1.202
81.00	1097.2	973.2	120.54	2.0123	1.204
82.00	1097.9	973.9	120.54	2.0000	1.205
83.00	1098.4	974.4	120.55	1.9880	1.206
84.00	1098.9	975.0	120.55	1.9762	1.208
85.00	1099.5	975.6	120.56	1.9647	1.209
86.00	1100.1	976.2	120.56	1.9535	1.210
87.00	1100.7	976.8	120.57	1.9425	1.212
88.00	1101.5	977.5	120.57	1.9318	1.213
89.00	1102.0	978.0	120.57	1.9213	1.214
90.00	1102.5	978.5	120.58	1.9111	1.215
91.00	1103.1	979.1	120.59	1.9011	1.217
92.00	1103.6	979.7	120.59	1.8913	1.218
93.00	1104.1	980.1	120.60	1.8817	1.219
94.00	1104.5	980.5	120.61	1.8723	1.220
95.00	1104.9	980.9	120.61	1.8632	1.221
96.00	1105.5	981.5	120.61	1.8542	1.222
97.00	1106.0	982.0	120.62	1.8454	1.223
98.00	1106.5	982.5	120.63	1.8367	1.224
99.00	1106.9	983.0	120.63	1.8283	1.225
100.00	1107.4	983.5	120.64	1.8200	1.226
101.00	1107.8	983.9	120.64	1.8119	1.227
102.00	1108.3	984.3	120.65	1.8039	1.228
103.00	1108.7	984.7	120.65	1.7961	1.229
104.00	1109.1	985.1	120.66	1.7885	1.230
105.00	1109.6	985.6	120.67	1.7810	1.231
106.00	1109.9	985.9	120.67	1.7736	1.232
107.00	1110.4	986.4	120.68	1.7664	1.233
108.00	1110.7	986.7	120.68	1.7593	1.234
109.00	1111.0	987.1	120.69	1.7523	1.234
110.00	1111.3	987.3	120.70	1.7455	1.235
111.00	1111.6	987.7	120.70	1.7387	1.236
112.00	1112.0	988.1	120.70	1.7321	1.237
113.00	1112.3	988.3	120.71	1.7257	1.237
114.00	1112.6	988.7	120.72	1.7193	1.238
115.00	1117.1	993.1	120.73	1.7130	1.248
116.00	1124.4	1000.4	120.83	1.7069	1.264
117.00	1131.6	1007.6	120.75	1.7009	1.280
118.00	1137.1	1013.2	120.74	1.6949	1.293
119.00	1143.5	1019.6	120.75	1.6891	1.308
120.00	1146.5	1022.6	120.76	1.6833	1.315
121.00	1148.5	1024.5	120.76	1.6777	1.319
122.00	1151.1	1027.1	120.77	1.6721	1.325
123.00	1152.9	1029.0	120.78	1.6667	1.329

***** End Shut-in 2

***** Final Hydro. 360.00 1784.1 0.0 120.57

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KCC

AUG 15

CONFIDENTIAL

ALLIED CEMENTING CO., INC.

3080

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

RELEASED

ORIGINAL

SERVICE POINT:

Great Bend

DATE 4-30-96 SEC. 22 TWP. 26 RANGE 6 CALLED OUT 3:30 PM ON LOCATION 7:00 PM JOB START 8:15 PM JOB FINISH 9:00 PM
LEASE Proheim WELL # 1-22 FROM CONFIDENTIAL LOCATION 17 Henry & Betty Prairie Rd, W, 15, 2 1/2, 4 COUNTY Reno STATE Ka
OLD OR NEW (Circle one)

CONTRACTOR Duke Hig #2 OWNER Same
TYPE OF JOB Surface CEMENT
HOLE SIZE 12 1/4" T.D. 220'
CASING SIZE 8 3/8" and 28" DEPTH 219'
TUBING SIZE _____ DEPTH _____
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. 15'
Per Displacement = 13 bbls.

COMMON 111 @ 6.10 672.10
POZMIX 74 @ 3.15 233.10
GEL 3 @ 9.50 28.50
CHLORIDE 6 @ 28.00 168.00
@ _____
@ _____
@ _____
@ _____
@ _____
HANDLING 185 @ 1.05 194.25
MILEAGE 40 296.00

EQUIPMENT

PUMP TRUCK CEMENTER Tim D
238 HELPER Bob B
BULK TRUCK
222 DRIVER Chris B.
BULK TRUCK
_____ DRIVER _____

RECEIVED

KANSAS CORPORATION COMMISSION

TOTAL \$ 1596.95

REMARKS:

Ran 219' used 28" 8 3/8" cas. Mixed
185 lbs 6 1/4 32. Pumped plug with
fresh water.

Cement did circulate

AUG 07 1996

SERVICE

DEPTH OF JOB 219'
PUMP TRUCK CHARGE 445.00
EXTRA FOOTAGE @ _____
MILEAGE 40 @ 2.35 94.00
PLUG 1-8 3/4 wooden @ 45.00 45.00
@ _____
@ _____

TOTAL \$ 584.00

CHARGE TO: Hallidistance Oil Producing Co., Inc.

STREET 1001 NW 103rd Suite 250

CITY Oklahoma City STATE Okl ZIP 73116

FLOAT EQUIPMENT

@ _____
@ _____
@ _____
@ _____
@ _____

TOTAL _____

TAX - 0 -

TOTAL CHARGE \$ 2180.95

DISCOUNT 436.19 IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE

John J. Armbruster

Bid

302-42
241001-3

03



HALLIBURTON

JOB SUMMARY

HALLIBURTON
DIVISION
LOCATIONMud Cont
Droff KSBILLED ON
TICKET NO. 968386

WELL DATA

FIELD: SEC. 22 TWP. 26 R. 6 COUNTY: Reno STATE: KS

FORMATION NAME: Miss TYPE: Chert

FORMATION THICKNESS: FROM: TO:

INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD

PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD

COMPLETION DATE: MUD TYPE: MUD WT.

PACKER TYPE: SET AT: 3691'

BOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4 1/4	5 1/2	KB	3865	PBTD
LINER					
TUBING		2 7/8	KB	3691	Pack-off
OPEN HOLE					SHOTS/FT.
PERFORATIONS			3706	14'	
PERFORATIONS					
PERFORATIONS					

ORIGINAL

JOB DATA

DATE	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 5/21	DATE 5/21	DATE 5/21	DATE 5/21
TIME 0500	TIME 0815	TIME 0845	TIME 1015

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

RELEASED

CONFIDENTIAL

OCT 12 1998

RECEIVED

-KANSAS CORPORATION COMMISSION

FROM CONFIDENTIAL

AUG 07 1996

CONSERVATION DIVISION
WICHITA, KS

AUG 15

CONFIDENTIAL

DEPARTMENT: Stim
DESCRIPTION OF JOB: Acidize FormJOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TBG/ANN. ☐

CUSTOMER REPRESENTATIVE: X Paul Claypool

HALLIBURTON OPERATOR: D Scott

COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING: DISPLACEMENT: 1000

BREAKDOWN: MAXIMUM: 1000

AVERAGE: FRACTURE GRADIENT: 48

SHUT-IN: INSTANT: 5-MIN. 15-MIN.

HYDRAULIC HORSEPOWER: 73

ORDERED: AVAILABLE: USED

AVERAGE RATES IN BPM

TREATING: DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET: REASON

REMARKS
See Job Log

FIELD OFFICE

Halliburton Oil Prod. Lease Premium

WELL NO. 1-22

JOB TYPE: Acid

DATE: 5/21/96



HALLIBURTON

JOB
SUMMARY

HALLIBURTON
DIVISION
LOCATION

Well Cont
Pna# K's

BILLED ON
TICKET NO. 968377

WELL DATA

FIELD _____ SEC. 22 TWP. 26 RING 6 COUNTY Reno STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>4</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>3897</u>	
LINER		<u>15.5</u>				
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>3897</u>	<u>4170</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE	<u>1</u>	<u>Howco</u>
CENTRALIZERS <u>5-4</u>	<u>9</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>Swiper</u>	<u>1</u>	<u>"</u>
HEAD <u>+ manifold</u>	<u>1</u>	<u>"</u>
PACKER <u>weld-A</u>	<u>1</u>	<u>"</u>
OTHER <u>Insert w/HIF</u>	<u>1</u>	<u>"</u>

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5.7</u>	DATE <u>5.7</u>	DATE <u>5.7</u>	DATE <u>5.7</u>
TIME <u>0130</u>	TIME <u>0445</u>	TIME <u>0927</u>	TIME <u>1030</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
CONFIDENTIAL		
RECEIVED		
KANSAS CORPORATION COMMISSION		
AUG 07 1996		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API

DISPL. FLUID _____ DENSITY _____ LB./GAL. °API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____

ACID TYPE _____ GAL. _____

ACID TYPE _____ GAL. _____

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER 8 gal Clay-Fix II

OTHER _____

DEPARTMENT Cons CONSERVATION DIVISION

DESCRIPTION OF JOB 5 1/2 Production String

JOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Hard Claypool

HALLIBURTON OPERATOR D Scott COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>120</u>	<u>Standard</u>		<u>B</u>	<u>5# 601 5% Col Seal 18% Salt</u>	<u>1.27</u>	<u>15.9</u>
<u>Plugging</u>	<u>30</u>	<u>Standard</u>		<u>B</u>	<u>175% Haled-322 Neat</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM 2,500

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 22.4 REASON Insert

PRESLUSH: BBL-GAL. 20 x 12 TYPE Salt Super 175

LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. 27.1 6.3 plugging

TOTAL VOLUME: BBL-GAL. _____

REMARKS See Job Log

1752' 14 ppf 5 1/2 lsg on Top

2137' 15.5 ppf 5 1/2 lsg on Bottom

FIELD OFFICE