

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

API NO. 15- 175-21350-00 ORIGINAL

County SEWARD

C - NE - NW - Sec. 13 Twp. 33S Rge. 34 X E

660 Feet from X (circle one) Line of Section

1980 Feet from X (circle one) Line of Section

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

Lease Name REIMER Well # 2-13

Field Name Evalyn - Condit

Producing Formation None

Elevation: Ground 2862' KB

Total Depth 6580' PBDT 4120'

Amount of Surface Pipe Set and Cemented at 1521' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cat.

Drilling Fluid Management Plan D&A JH 8-12-94
(Data must be collected from the Reserve Pit)

Chloride content 4100 ppm Fluid volume 10,000 bbls

Dewatering method used DEWATER/EVAPORATE/DRY OUT/BACK FILL

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name License No.

Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 6120

Name: CABOT OIL & GAS CORPORATION

Address 9400 N. Broadway, Suite 608

City/State/Zip Oklahoma City, OK 73114

Purchaser: N/A

Operator Contact Person: Jim R. Pendergrass

Phone (405) 478-6500

Contractor: Name: H-40 Drilling Co.

License: 30692

Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOV Temp. Abd.
 Gas ENHR SIGV
 Dry Other (Core, WSV, Expl., Cathodic, etc)

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

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

12/22/93 1/5/94 2/5/94
Spud Date Date Reached TD Completion Date

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: James R. Henry JAMES R. HENRY
Date 4/20/94

Notary Public: [Signature] to before me this 20th day of April
September 2, 1994

RECEIVED
STATE CORPORATION COMMISSION

NOTARY PUBLIC
KANSAS
Commission Expires

K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name: CABOT OIL & GAS CORPORATION Lease Name REIMER Well # 2-13
 Sec. 13 Twp. 33S Rge. 34 East County SEWARD
 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:
 SDL/DSN/GR/ML

Name	Top	Datum
Herrington	2576	
Krider	2607	
Winfield	2689	
Ft. Riley	2751	
Council Grove	2902	
B/Heebner	4227	
Toronto	4237	
Lansing	4358	
Marmaton	5040	
Cherokee	5255	
Atoka	5439	
13 Finger	5548	
Morrow	5662	
Chester	5869	
St. Genevieve	6242	
St. Louis	6353	

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"	24 #/ft.	1523'	35/65 poz Class "H"	575 150	2% cc 2% cc
Production	7-7/8"	5-1/2"	15.5 #/ft.	4358'	50/50 poz Class "H"	90 300	10% salt
					Class "H"	70	None

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	4237'-4243' Toronto CIBP @ 4122'	Acidize Toronto with 1000 gals 15% NE-FE	4237'-43'
4	4159'-4162' Topeka CIBP @ 4130'	Acidize Topeka with 1000 gals 15% NE-FE	4159'-62'
2	2578'-2584' Chase	Acidize Chase with 1500 gals 15% NE-FE. Frac Chase w/11800 gals 40# Borgael + 41300# 16/30 Ottawa Sand.	2578'-84'

TUBING RECORD Size 2-3/8" Set At 2647.53' Packer At _____ 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 _____ Bbls. Gas _____ Mcf Water _____ Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Production Interval _____

PHONE
316 / 624-7340

ORIGINAL

DEAN'S TESTERS INC.

P. O. BOX 1182
LIBERAL, Ks. 67901

Formation Oswego Type Test Conventional Date January 2, 1994
Anchor Length and Size 22' X 4 1/2" OD-Perf. Total Depth 5213'
Packer Depths 5186' & 5191' Below Straddle _____ Choke Size Bottom 5/8" Surface 1/4"
Equipment Run 2 Packers, Jars, Sample Chamber, Safety joint, Circ. sub.

Lengths: Tool 55' D.P. 4551' ID. 3.8" Wt. P. _____ ID _____ D.C. 621' ID. 2.25"
Mud Type Chemical Visc. 54 Wt. 9.0 Wtr. Loss 6.5 Cl. 2400 ppm

Recorders: Depth 5203' Make Kuster Cap. 6500 Ser. No. 10269 Inside
Depth 5211' Make Kuster Cap. 6800 Ser. No. 10217 Outside
Depth _____ Make _____ Cap. _____ Ser. No. _____ Below Straddle

Pressures:

Tool on Bottom @ 10:50 A.M. Initial Hydrostatic 2440 psi
Initial Flow 30 Min. IFF 45 psi to 45 psi
Initial Shut-In 60 Min. ISIP 177 psi
Final Flow 60 Min. FFP 51 psi to 51 psi
Final Shut-In 120 Min. FSIP 516 psi
Tool off Bottom @ 3:20 P.M. Final Hydrostatic 2421 psi Temp. 125°F.

Blow: Weak on I.F.P., No blow on F.F.P.

Recovery: 60' Very slightly oil spotted mud.

Gas Flow:

Sampler Data:

Pressure 32 PSI
Gas Volume none cu. ft.
Total Fluid 2000 cc
Oil Trace cc
API Gravity @ °F
Mud 2000 cc
Water _____ cc
Cl. 2800 PPM
RW 1.4 @ 65 °F

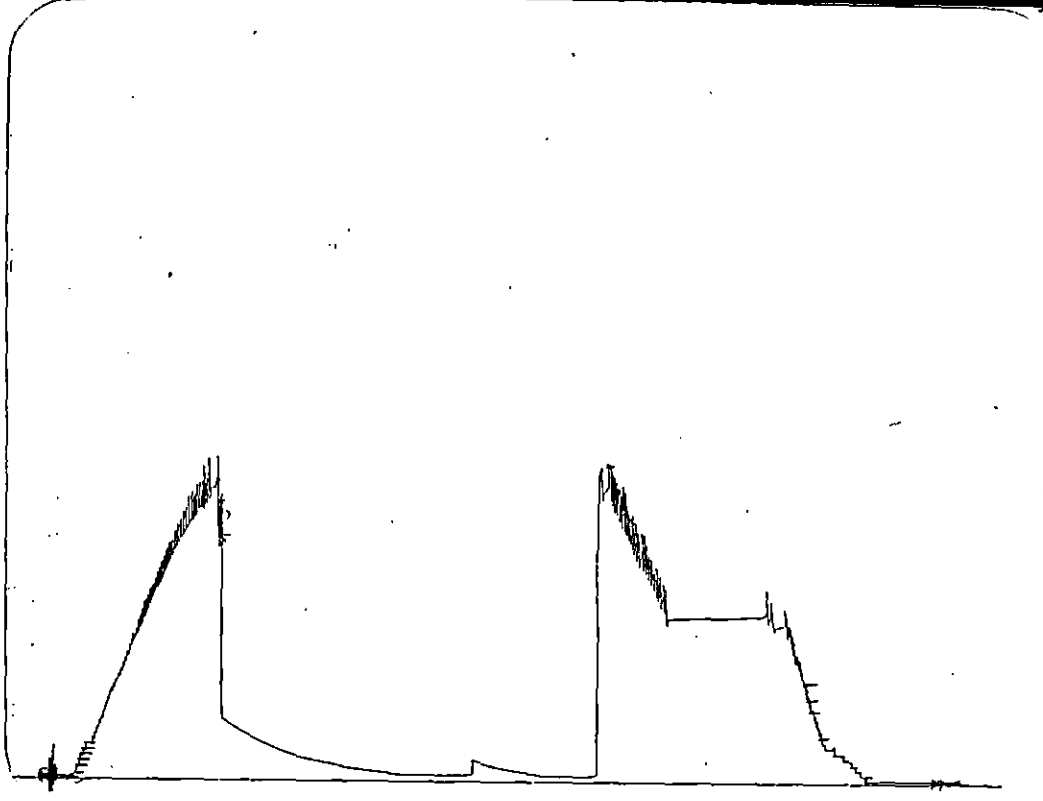
Remarks:

Fluid Analysis:
CI PPM S.G. Ph. Rw.
Pit: 2400 1.000 9 1.6 @ 65°F.
Pipe: 2800 1.000 9 1.4 @ 65°F.
Sampler: 2800 1.000 9 1.4 @ 65°F.

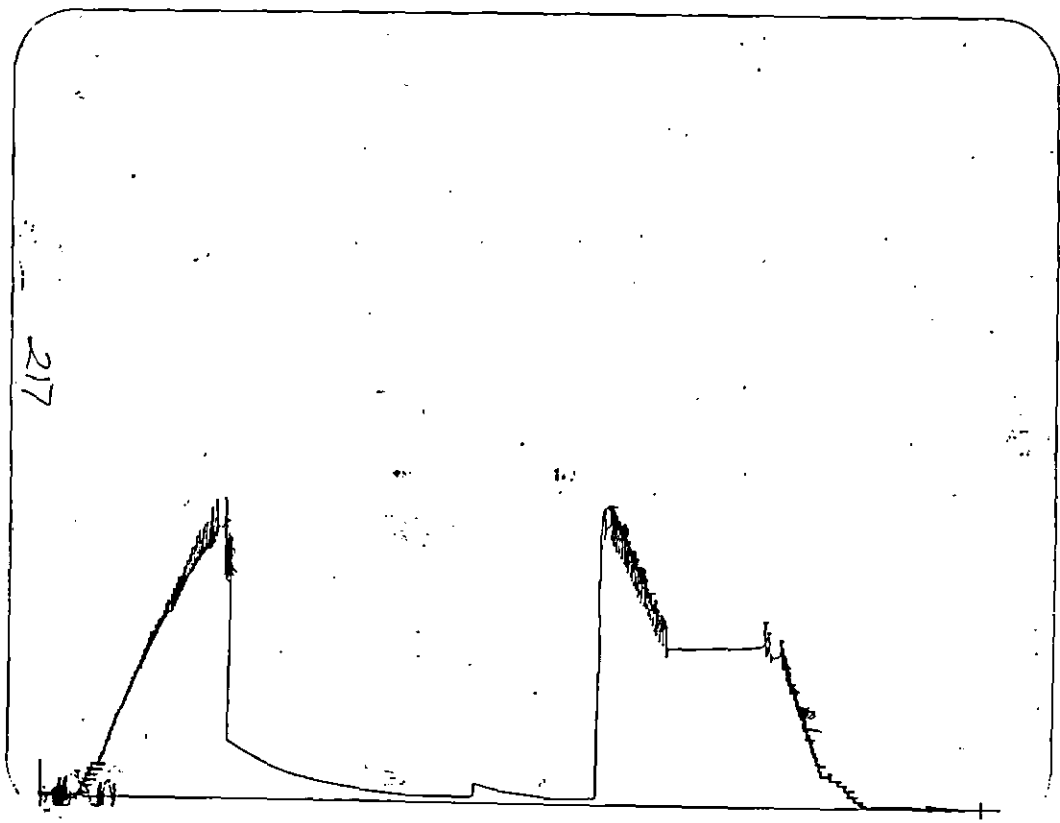
Tester Butch Young

Witnessed by: Roger Russell

EC. 13
TWP. 33S
RDE. 34W
COUNTY Seward
STATE Kansas
TEST #
TICKET NO. 3597
Cahot Oil & Gas Corporation
OPERATOR RPI/15-175-21350
Reimer #2-13
WELL NAME & NO.



Initial Hydrostatic _____ 2440 _____ psi
 IFP _____ 45 _____ psi to _____ 45 _____ psi
 ISIP _____ 177 _____ psi
 FFP _____ 51 _____ psi to _____ 51 _____ psi
 FSIP _____ 516 _____ psi
 Final Hydrostatic _____ 2421 _____ psi



ORIGINAL

WELL DATA

FIELD _____ SEC *13* TWP. *33 S* RING. *34 W* COUNTY *SEWARD* 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 *Spo* MUD WT. *8.9*
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC DATA _____ TOTAL DEPTH *1525*

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>N</i>	<i>24"</i>	<i>8.5#</i>	<i>KB</i>	<i>1523.5'</i>	
LINER						
TUBING						
OPEN HOLE			<i>12 1/4</i>	<i>C.L.</i>	<i>1524</i>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR <i>INJECT 4/11</i>	<i>1</i>	<i>H</i>
FLOAT SHOE		<i>0</i>
GUIDE SHOE <i>TEXAS PATT.</i>	<i>1</i>	<i>N</i>
CENTRALIZERS <i>3-4</i>	<i>7</i>	<i>C</i>
BOTTOM POPS <i>LEAST CLAMP</i>	<i>1</i>	<i>N O</i>
TOP PLUG <i>5 SWIPER</i>	<i>1</i>	<i>0</i>
HEAD <i>BCPC</i>	<i>1</i>	<i>N</i>
POWER <i>BASKET</i>	<i>1</i>	<i>C</i>
OTHER <i>HOLD DOWN</i>	<i>1</i>	<i>0</i>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>12-21-93</i>	DATE <i>12-21-93</i>	DATE <i>12-20-93</i>	DATE <i>12-21-93</i>
TIME <i>05:30</i>	TIME <i>08:00</i>	TIME <i>13:08</i>	TIME <i>14:03</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>R. ELMOD</i>	<i>40025</i>	
	<i>D 4360</i>	<i>Liberal KS</i>
<i>D. McBEAR</i>	<i>4503</i>	
	<i>204</i>	<i>"</i>
<i>A. CLARK</i>	<i>3826</i>	
	<i>G. 2724</i>	<i>(B) Hesperian Ls.</i>
<i>R. GARRISON</i>	<i>5886</i>	
	<i>G. 2729</i>	<i>(A) "</i>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____ GAL. _____ IN
 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. _____ IN
 PERFRAC BALLS TYPE _____ QTY. _____
 OTHER _____

DEPARTMENT *CEMENT*
 DESCRIPTION OF JOB *1-99 Seal*
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE *[Signature]*
 HALLIBURTON OPERATOR *[Signature]* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>575</i>	<i>Premium Lite B</i>	<i>H</i>	<i>B</i>	<i>2% cc, 1/4% Floccs</i>	<i>2</i>	<i>12.4</i>
	<i>150</i>	<i>Premium</i>	<i>H</i>	<i>B</i>	<i>2% cc</i>	<i>1.08</i>	<i>12.4</i>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 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 *41.31* REASON *Shoe Core*
 FIELD OFFICE _____

SUMMARY

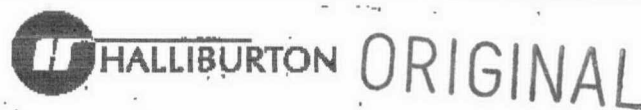
VOLUMES

PRESLUSH: BBL-GAL _____ TYPE _____
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL: BBL-GAL <i>94.5</i>
CEMENT SLURRY: BBL-GAL _____
TOTAL VOLUME: BBL-GAL _____

RECEIVED
 CONSERVATION DIVISION
 APR 22 1994
 REMARKS

CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER NO. *1-18-5811*
 DATE *12-21-93*
 WELL NO. *2-15*
 JOB TYPE *8-18 Seal*



JOB LOG FORM 2013 R-4

DATE: 12-23-93 PAGE NO: 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
CARBON GAS		2-15		REIMER		9 5/8 SUDFALL		649911	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				ST	AG	GLBING	CASING		
	08:30								Called out Ready Now
	08:20								on loc. Rig Drilling
	11:15								START CSG
	12:37								CSG on Bottom
	12:45								Circulate w/ Rig
	13:06								Back to Halliburton
	13:08	2.5	2045				250		START LEAD CNT
	13:34	2.2	28.9				300		START TAIL CNT
	13:38								Drop Plug
	13:41	5	94.3				100		START Displacement, Wash Pumps & Lines
	13:58	2	10				500		Stop Pump 2 B.P.M.
	14:03						12.50		Plug Down
									Circulated 12 P.M.
									61 BBLS
									171 S.B.
									Thank you for calling
									Halliburton
									Robert & Casual
									RECEIVED
									STATE CORPORATION COMMISSION
									APR 22 1994
									CONSERVATION DIVISION
									Wichita, Kansas



APR 19 '94 01:31PM

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATIONMid Continent
L. Liberal

P. 4

BILLED ON TICKET NO. 574605

ORIGINAL

WELL DATA

FIELD N. Liberal SEC _____ TWP. _____ RNC. _____ COUNTY Sevier 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	N	15.5	5 1/2	K.B.	4310	
LINER						
TUBING	U	24	8 3/4	K.B.	1500	
OPEN HOLE			2 7/8	1500	6580	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 1-6-93 TIME 14:30	DATE 1-6-93 TIME 17:00	DATE 1-6-93 TIME 18:05	DATE 1-7-93 TIME 20:30

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R. Taylor	D4033	Liberal
S. Tate	52823	Liberal
M. Lewis	50937	Hugoton
	G2896	4734

DEPARTMENT Cement
 DESCRIPTION OF JOB Plugback, 5 1/2" P.V. Production casing

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR R. Taylor COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	70	Premium	H	B		1.06	16.4
2	90	50/50 Poz	H	B	10% Salt, 12% G. Loss, 2% D-A., 5% CFP-3	1.53	13.5
3	300	50/50 Poz	H	B	10% Salt, 12% G. Loss, 2% D-A., 5% CFP-3	1.53	13.5

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____

SUMMARY

FRESHWASH: BBL-GAL _____ TYPE _____
 LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 TREATMENT: BBL-GAL _____ DISPL. BBL-GAL 58, 10.5
 CEMENT SLURRY: BBL-GAL 13, 24.5
 TOTAL VOLUME: BBL-GAL _____

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 CORPORATION COMMISSION
 APR 22 1994
 CONSERVATION DIVISION
 Wichita, Kansas

REMARKS See Job Log

FEET 4209 REASON Shut Joint

FIELD OFFICE

CUSTOMER: Lehart Oil & Gas
 LEASE: NE/MCI
 WELL NO: 2-13
 JOB TYPE: 5 1/2" P.V. Plugback & DATE: 1-6-93



JOB LOG FORM 2019 R-4

DATE: 1-6-93 PAGE NO: 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Cabot Oil & Gas		2-13		Reimer		5 1/2" D.U. Plugback		524605	
CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMP	PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS			
	14:30					Called Out			
	17:00					ON location, Rig circulating			
	17:30					Set up Co. Trk. Set Stay working			
	18:05					hookup iron			
	18:10	6	15	X	300	Start water ahead			
	18:13	5	13	X	300	Start Cement			
	18:19	3	5	X	150	Start water behind			
	18:18	2	58	X	150	Start mud displacement			
	18:28					Plug down & balanced @ 4200'			
	18:30					Rig pulling D.P. (215' Plug)			
	20:00					Rig run in w/D.P. + bit, dress plug			
	24:00					T.O.H. w/D.P.			
	08:00					Start casing, run closing agent			
	10:30					Circulating casing w/20 lbs in hole			
	11:00					Casing on bottom			
	11:45					hookup iron, rig circulating			
	12:44					hookup iron, Co. Trk.			
	12:49	5	10	X	250	Start Super Flush			
	12:51	5	10	X	250	Start Gel water			
	12:53	5	13	X	300	Start Cement			
	12:56				0	Shut down, deep shut off plug			
	12:58				0	Wash pumps & lines			
	13:00	2	30	X	100	Start water displacement			
	13:10	5	25	X	100	Start mud displacement			
	13:27				200	Plug head not pressurized up			
	13:24				100%	Released pressure, plugs held			
	13:26					Deep opening device			
	13:36				700	pressure up DV opened			
	13:40					hookup iron, rig circulating			
	19:35					hookup iron, Co. Trk.			
	19:38	55	10	X	200	Start Super Flush			
	19:40	55	10	X	200	Start Gel water			
	19:42	5	82	X	250	Start Cement			
	19:56					Shut down, wash pumps & lines			
	19:59					Deep SW Closing Plug			
	20:00	6	22	X	200	Start water displacement			
	20:10	3	10	X	500	Stowed rate			

HALLIBURTON ORIGINAL

JOB LOG FORM 2013 R-4

DATE	PAGE NO.
1-7-93	2

CUSTOMER		WELL NO.	LEASE	JOB TYPE	TICKET NO.
Cabot Oil & Gas		2-13	Reiner	5 1/2" D.V.	594605
CHART NO.	TIME	RATE (GPM)	VOLUME (GAL)	PRESSURE (PSI)	DESCRIPTION OF OPERATION AND MATERIALS
	20:14			600	Plug loaded
	20:19			1750	Pressured up
	20:25			0	released pressure, D.V. Closed
	20:30				Job Complete
					Thanks for Calling
					Halliburton
					Richard
					A. Crew

RECEIVED
 STATE PRODUCTION COMMISSION
 APR 22 1994
 CONSERVATION DIVISION
 Wichita, Kansas

FIELD OFFICE