

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- 171-205080000
County SCOTT
- NE/4- SW/4 Sec. 28 Twp. 17S Rge. 32 X W

Operator: License # 4243

Name: CROSS BAR PETROLEUM, INC.

Address 151 N. MAIN, SUITE 630

City/State/Zip WICHITA KS 67202

Purchaser: N/A

Operator Contact Person: ALBERT BRENSING

Phone (316) 265-2279

Contractor: Name: MALLARD JV, INC.

License: 4958

Wellsite Geologist: STEVE DAVIS

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

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

If Workover:

Operator:

Well Name:

Comp. Date Old Total Depth

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No.

Dual Completion Docket No.

Other (SWD or Inj?) Docket No.

02-14-97 02-27-97 03-03-97
Spud Date Date Reached TD Completion Date

1980 Feet from S/X (circle one) Line of Section

1980 Feet from X/W (circle one) Line of Section

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

Lease Name FREED Well # 1-28

Field Name WILDCAT

Producing Formation LANSING "E" + MORROW

Elevation: Ground 2981' KB 2986'

Total Depth 5420' PBTB

Amount of Surface Pipe Set and Cemented at 10 JTS @ 409; KB

Multiple Stage Cementing Collar Used? X Yes No

If yes, show depth set 2325 Feet

If Alternate II completion, cement circulated from 2325'

feet depth to surface w/ 250 sx cmt.

Drilling Fluid Management Plan ALT 2 JH 4-23-98
(Data must be collected from the Reserve Pit)

Chloride content 12,000ppm Fluid volume 600 bbls

Dewatering method used Allow to evaporate and then fill in pits.

Location of fluid disposal if hauled offsite

Operator Name SEP 25 1998

Lease Name License No.

Quarter Sec. Twp. Rng. E/W

Docket No.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 geologic logs 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 ALBERT BRENSING

Title ALBERT BRENSING, PRESIDENT Date 06-06-97

Subscribed and sworn to before me this 6TH day of June 19 97.

Notary Public Julie Thompson

Date Commission Expires 9-13-00

JULIE THOMPSON
Notary Public - State of Kansas
My Appt. Expires 9/13/00

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)

JAN 1970

SIDE TWO

CONFIDENTIAL

Operator Name CROSS BAR PETROLEUM, INC. Lease Name FREED Well # 1-28
 Sec. 28 Twp. 17S Rge. 32W East West
 County SCOTT

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.)

Log Formation (Top), Depth and Datums Sample
 Name Top Datum

List All E.Logs Run: Geologist's Report, Dual Induction Log, Dual Compensated Log, Microresistivity Log, Borehole compensated Sonic Log

SEE EXHIBIT 'A' ATTACHED HERETO FOR FORMATION TOPS
 PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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"	23#	409	60/40 Pozmix	240	2% Gel, 3% CC
PRODUCTION	7-7/8	5-1/2"	14#	4722	25 BBL 2% Clay fix flush EA-2	50 125	HLC 14##/sk scavenger slurry 5% Calseal, 18% salt, 0.6% H-322, 7# Gilsonite/sack

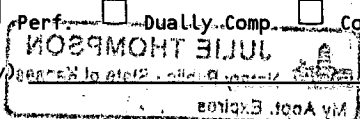
ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate Protect Casing <input checked="" type="checkbox"/> Plug Back TD Plug Off Zone	4724'-5420'	60/40 Poz	130	2% gel + 1% CaCl ₂ + 32.5 lbs FLOCELE

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	4623-28', 4632-36', 4639-42' Morrow	750 gal 15% Fe w/8 gal Morflo	
4	4060-65' Lansing/Kansas City "E"	500 gal 15% DSFe w/2 gal Losurf	4060-65'

TUBING RECORD	Size 2 3/4 Set At 4684'	Packer At 4572	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD, or Inj. 4-03-97	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil 12 Bbls.	Gas N/A Mcf	Water 25 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 Other (Specify)
 Production Interval
 4060-4065'
 4623-4628'
 4632-4636'
 4639-4642'



COMPOSITE DRILLING REPORT

-TIGHT HOLE -

Cross Bar Petroleum #1-28 Freed

1980' FSL & 1980' FWL Sec. 28-T17S-R32W

Scott County, Kansas

KB: 2986' GL: 2981' API: 15-171-205080000

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Exhibit A of ACO-1

Results of DST #1, 4060-75', Lansing "E" Zone, 30-60-30-90, 1st open - off bottom of bucket in 8 mins. 2nd open - off bottom of bucket in 12 mins. Rec. 285' GIP, 608' CGO (5% G, 95% O), 60' MCO (55% O, 45% M), IHP 1966, IFP 71-182, ISIP 923, FFP 233-374, FSIP 882 Building, FHP 1937, BHT 117°F, gravity 34° @ 80°F.

Results of DST #2, 4144-66, Lansing "I" Zone, 30-60 no FFP or FSIP. 1st open - weak blow died in 20 mins. 2nd open - no blow, flushed tool, no help. Came out of hole. Recovered 10' of VSOCM, IHP 1973, IFP 37-37, ISIP 1154, FFP N/A, FSIP N/A, FHP 1942, BHT 110°F.

Results of DST #3, 4190-4212', Lansing 'I', 30-60-5-0-, 1st op - weak blow throughout. 2nd op - no blow, flushed tool, no help. Came out of hole - recovered 80' DM, IHP 2073, IFP 41-62, ISIP 1070, FFP 93-93, FSIP N/A, FHP 2063, BHT 135°F.

Results of DST #4, 4230-70', Lansing 'K', 30-60-30-90, 1st op - off bottom in 17 mins, 2nd op - slowly built to 10" in 30 mins. Recovered 236' WM (20% W, 80% M), 309' W (chl 50,000), IHP 2123, IFP 52-176, ISIP 1120, FFP 228-270, FSIP 1120, FHP 2103, BHT 131°F.

Results of DST #5, 4602-50', Morrow Sand, 45-90-60-120, 1st op - weak blow built to 2" in 45 mins, 2nd op - off bottom of bucket in 40 mins. Recovered 330' GIP, 140' O&GCM (15% Oil, 45% Gas, 40% Mud), no water, IHP 2239, IFP 21-51, ISIP 1150, FFP 58-87, FSIP 1130 building, FHP 2222, BHT 127°F.

Log tops	Depth/Subsea
Heebner Shale	3923 -937
Toronto	3943 -957
Lansing	3967 -981
Lansing 'B'	3998 -1012
Lansing 'C'	4017 -1031
Lansing 'D'	4053 -1067
Lansing 'E'	4060 -1074
Lansing 'F'	4080 -1094
Lansing 'H'	4158 -1172
Lansing 'T'	4197 -1211
Lansing 'J'	4225 -1239
Stark	4244 -1258
Lansing 'K'	4256 -1270
Lansing 'L'	4293 -1307
Pleasanton	4331 -1345
Marmaton	4371 -1385
Cherokee Shale	4501 -1515
Morrow Shale	4622 -1636
Morrow Sand	4623 -1637

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JUN 9 1997
CONSERVATION DIVISION
Wichita, Kansas

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SEP 25 1998

FROM CONFIDENTIAL

<u>Log tops</u>	<u>Depth/Subsea</u>
Miss Uncoformity	4600 -1614
St. Louis	N/A
St. Louis Porosity	Abst
Spergen	4804 -1818
Warsaw	4878 -1892
Viola	5253 -2267
Arbuckle	5352 -2366
RTD	5420 -2434
LTD	5421 -2435

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STATE CORPORATION COMMISSION
JUN 9 1997
CONSERVATION DIVISION
Wichita, Kansas

KCC OIL/GAS REGULATORY OFFICE

15-171-20508-00-00

DATE 3/6/97

OPERATOR Cross Bar Petroleum, Inc. # 4243

NAME 151 N. Main, Ste. 630

ADDRESS Wichita, KS 67202-1407

PHONE NO. OPER. 316-265-2279 OTHER

- New Situation
- Response to Request
- Follow-up

LOCATION NE SW, SEC 28, T 17 S, R 32 W

LEASE Freed Well # 1-28

COUNTY Scott API#15-171-20,508

REASON FOR INVESTIGATION: Alternate II completion

PROBLEM:

PERSON(S) CONTACTED:

FINDINGS: Port collar at 2325'. Used 250 sx Mid Con II 2% cc 1/4# floseal. Opened port collar and mixed cement until it circulated. Had good circulation all of the time.

TD 5420', 5 1/2" casing at 4722' with 175 sx cement, 8 5/8" at 409' with 240 sx cement

RECEIVED
KANSAS CORP COMM
1997 MAR 10 P 3:42

LEASE INSPECTION

COMPLAINT

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

ACTION/RECOMMENDATIONS: Alternate II cementing completed. photos taken:

FIELD REPORT X

Retain 1 copy Joint District Office
Send 1 copy Conservation Division

By Mike Maier

3/6/97

15-171-20508-00-00

RELEASED

SEP 25 1998

ORIGINAL

FROM CONFIDENTIAL CONFIDENTIAL

TELEPHONE:

AREA CODE 913 483-2627
AREA CODE 913 483-3887

A IED CEMENTING COMPANY, C.

P. O. BOX 31

RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

TO: Cross Bar Petroleum, Inc.
Centre City Plaza
151 N. Main, #630
Wichita, KS 67202-1407

INVOICE NO. 74486
PURCHASE ORDER NO. _____
LEASE NAME Free 1-28
DATE 2-15-97

SERVICE AND MATERIALS AS FOLLOWS:

Common 144 sks @\$7.20	\$1,036.80	
Pozmix 96 sks @\$3.15	302.40	
GEL 4 sks @\$9.50	38.00	
Chloride 7 sks @\$28.00	<u>196.00</u>	\$1,573.20
Handling 240 sks @\$1.05	252.00	
Mileage (42) @\$0.04¢ per sk per mi	403.20	
Surface	445.00	
Extra Footage 109' @\$4.1¢	44.69	
Mi @\$2.85 pmp trk chg	119.70	
1 plug	<u>45.00</u>	1,309.59
	total	\$2,882.79

If Account CURRENT a
Discount of \$ 432.42
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.

Thank You!

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Wichita, Kansas

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All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

15-171-20508-00-00

ALLIED CEMENTING CO., INC.

1574

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

SERVICE POINT:

M.B.

DATE <u>2-15-97</u>	SEC <u>28</u>	TWP <u>17</u>	RANGE <u>32</u>	2-14-97 CALLED OUT <u>10:30 AM</u>	2-15-97 ON LOCATION <u>7:00 AM</u>	JOB START <u>6:00 AM</u>	JOB FINISH <u>9:00 AM</u>
LEASE <u>Freed</u>		WELL # <u>1-28</u>		LOCATION <u>SCOTT City 5N 2E 1/2 S E 1/2</u>		COUNTY <u>SCOTT</u>	STATE <u>K.S.</u>

OLD OR NEW (Circle one)

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CONTRACTOR	<u>Mallard Drilling Rig</u>		
TYPE OF JOB	<u>Surface pipe</u>		
HOLE SIZE	<u>12 1/2</u>	T.D.	<u>413 ft</u>
CASING SIZE	<u>8 1/2</u>	DEPTH	<u>409 ft</u>
TUBING SIZE		DEPTH	
DRILL PIPE		DEPTH	
TOOL		DEPTH	
PRES. MAX	<u>100#</u>	MINIMUM	
MEAS. LINE	<u>39 1/2 ft</u>	SHOE JOINT	
CEMENT LEFT IN CSG.	<u>15 ft</u>		
PERFS.	<u>Displace ment 25.2 bbl</u>		

OWNER Same

AMOUNT ORDERED 240 60/100 36cc 27 gal

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>Mike M.</u>
# <u>120</u>	HELPER <u>Duane S.</u>
BULK TRUCK	
# <u>116</u>	DRIVER <u>Bill W.</u>
BULK TRUCK	
#	DRIVER

RELEASED
SEP 25 1998

COMMON	<u>144</u>	@	<u>7.20</u>	<u>1036.80</u>
POZMIX	<u>96</u>	@	<u>3.15</u>	<u>302.40</u>
GEL	<u>4</u>	@	<u>9.50</u>	<u>38.00</u>
CHLORIDE	<u>7</u>	@	<u>28.00</u>	<u>196.00</u>
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>240</u>	@	<u>1.05</u>	<u>252.00</u>
MILEAGE	<u>42</u>			<u>403.20</u>
	<u>KCC</u>			
	<u>JUN 6</u>			
TOTAL				<u>\$ 2228.40</u>

FROM CONFIDENTIAL

REMARKS:

CONFIDENTIAL

SERVICE

Circulate Hole with Rig mud pump
my Cement + Release the plug
Displace plug Down with water
Cement did not circulate to surface
Cement 10ft Down unit on it to
seat up thr to get hard

DEPTH OF JOB	<u>409 ft</u>			
PUMP TRUCK CHARGE	<u>0-300'</u>			<u>445.00</u>
EXTRA FOOTAGE	<u>109'</u>	@	<u>.41</u>	<u>44.69</u>
MILEAGE	<u>42</u>	@	<u>2.85</u>	<u>119.70</u>
PLUG	<u>1-8 1/8 wooden plug</u>	@	<u>45.00</u>	<u>45.00</u>
		@		
		@		

TOTAL \$ 654.39

CHARGE TO: Cross Bar Petroleum Inc
STREET 151 N. Main #630
CITY Wichita STATE Ks ZIP 67202

FLOAT EQUIPMENT

Thank you
Allied Cementing Co
Mike + Duane + Bill

	@			
	@			
	@			
	@			
	@			

TOTAL

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.

TAX	<u>- 0 -</u>			
TOTAL CHARGE	<u>\$ 2882.79</u>			
DISCOUNT	<u>\$ 432.42</u>			
IF PAID IN 30 DAYS				

Net \$ 2450.37

SIGNATURE Mark J. Chan

06-04-97 09:32R P.02

FAX NO.: 1 313 625 2536

FROM: HES HAYS



CHARGE TO
CROSSBAR PETROLEUM 15-171-20508-00-00
ADDRESS
CITY, STATE ZIP CODE

ORIGINAL - DUNCAN COPY TICKET

No. 196258-

PAGE 1 OF 9

1. SERVICE LOCATIONS HAYS, KS	WELL/PROJECT NO 1-28	LEASE FREED	COUNTY/PARISH SCOTT	STATE KS	QTY OFFSHORE LOCATION	DATE 2-28-97	OWNER SAME
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR MALLARD DRILLING	RIG NAME NO	SHIPPED VIA 3293	DELIVERED TO LOCATION	ORDER NO	
3. WELL TYPE	WELL CATEGORY 01	JOB PURPOSE 01	WELL PERMIT NO 035-675	WELL LOCATION 15171 205080000	WELL LOCATION 28-175-32W		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M	
000-117		1			MILEAGE	220	MI	1	2.99	657
009-308		1			PUMP CHARGE - PLUG BACK	4	MES		1180.00	1180
001-016		1			PUMP CHARGE - LONGSTRAW	4772	PT	6	1820.00	1820
019-241		1			ROTATING HEAD	1	STB	5 1/2"	185.00	185
018-317		1			SUPERFLUSH	12	SS		100.00	1200
314-163		1			CLAYEX II	5	BA		28.00	140

ORIGINAL
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RCU
JUN 6
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STATE CORPORATION COMMISSION
JUN 9 1997
CONSERVATION DIVISION
Wichita, Kansas

RELEASED
SEP 25 1998
FROM CONFIDENTIAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL 5182
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					(3) 1958
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered		<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) T.C. LARSON	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X T.C. Larson	HALLIBURTON OPERATOR/ENGINEER W. Wilson & Dash	EMP # 51609	HALLIBURTON APPROVAL
---	--	--	-----------------------	----------------------

15-171-20508-00-00

FROM: HES HAYS
HALLIBURTON

SUMMARY

FAX NO.: 1 913 625 2536

06-04-97 09:35A P.06

HALLIBURTON LOCATION **HAYS, KS**

BILLED ON TICKET NO. **196258**

WELL DATA

FIELD _____ SEC. **28** TWP. **17S** RNG. **32W** COUNTY **SCOTT** 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	14	5 1/2	KB	4722	
LINER						
TUBING						
OPEN HOLE			7 7/8			SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 2-27	DATE 2-27	DATE 2-28	DATE 2-28
TIME 1630	TIME 2330	TIME 0010	TIME 1445

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD P.C.	1	HOLKO
PACKER		
OTHER ROTATING HEAD	1	"

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
A. ASH	E1609	PO
W. WELSON	B9377	39604 HAYS, KS
R. SUTER	H7187	53293 m PTAR "
L. LEDGER	H6872	BULK " "
R. Berens	57220	3860 BULK " "
M. HALLIN	41511	53418 BULK " "

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. _____ IN
FLUID LOSS ADD. _____ GAL. _____ IN
GELLING AGENT TYPE _____ GAL. LB.
FRIC RED. AGENT TYPE _____ GAL. LB.
BREAKER TYPE _____ GAL. LB.
BLOCKING AGENT TYPE _____ GAL. LB.
PERFPAC BALLS TYPE _____ QTY.

DEPARTMENT **CEMENT**
DESCRIPTION OF JOB **PLUG BACK OPEN HOLE**
CEMENT 5 1/2" LONG STRUCK
PORT COLLAR C
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
CUSTOMER REPRESENTATIVE **X T.C. Janson**

OTHER **10-CEMENT / 15 SKS BATHOLE, 10 SKS MAKE HAYS**

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
P.B.	130	40/60		B	270 GEL, 190CC, 1/4 # FLOCEL (PLUG BACK)	1.30	13.96
LD	75	HIC		B	1/4 # FLOCEL PISK	1.97	12.4
TL	125	EA-2		B	570 CALSEAL, 4/10 HALAD 322, 18% SALT, 7 # GELSONITE PISK	1.90	15.3

PRESSURES IN PSI

SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH **0B1** **42** TYPE **CLAYFLU B / SUPERFLUSH**
 BREAKDOWN _____ MAXIMUM _____ LOAD & BRDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL **0B1** **114.3**
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY **0B1** **P.B.-30 / 15.58**
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET **35** REASON **LATCH DOWN RAFFLE**

REMARKS

SEE JOB LOG & CHART

THANK YOU

CUSTOMER CROSS BAR PERFORMUM LEASE FACE B WELL NO. 1-28 JOB TYPE 1-28 DATE 2-28-97

15-171-20508-00-00

FROM: HES HAYS

FAX NO.: 1 913 625 2536

06-04-97 09:36A P.07



DATE: 2-27-97 PAGE NO: 1

JOB LOG HAL 2013-C

CUSTOMER: CROSSBAR PETROLEUM WELL NO.: 1-28 LEASE: FREED JOB TYPE: PLUG BACK / LONGSTRING TICKET NO.: 196258

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1630							CALLED OUT ORIGINAL
	2030							ON LOCATION - DISCUSS JOB PROCEDURE - WAIT ON CAT
								TO- 5420 PLUGBACK - 130 SKS CEMENT 4 1/2 X-HOLE D.P. - 7 7/8 HOLE
1	0014	4	3	✓		500		PUMP H2O SPACER
	0015	4	30	✓		300		PUMP CEMENT - 130 SKS
	0024	4	1	✓		300		PUMP H2O SPACER
	0024	5	68.3	✓		500		PUMP MUD TO BALANCE - ISEP VAC (SLIGHT)
	0040							PULL D.P. TO 4830' - CIRCULATE HOLE - PUMP WASH UP TRUCK - 1 HR LAY DOWN D.P. / SWITCH OPERATORS
2	0845							BochonLoc
	0940							Circulate Well RUC
	1130							St. mixing Flushes JUN 6
	1158	5	25	✓		500	500	St. Pumping Clean Flush
	1204	5	12	✓		500	500	St. Super Flush CONFIDENTIAL
	1207	5	5	✓		500	500	St. Clay/Flu. Flush
			4					Plug R.H.
			3					Plug M.J.
	1215	5 1/2	0					St. CM - Down C/S - 5000 H2O Lead
	1219	5 1/2	26.2			500	500	end Lead CMT
	1220	5 1/2	0			500	500	St. Tail CMT 1255KSE 2 Tail
	1230	5 1/2	31.2			500	500	end Tail CMT
								WASHOUT Pumping Lines - Drop Plug
	1232	5 1/2	0	✓		100		St. Disp.
	1246	5 1/2	77	✓		300		Concrt CMT
	1256	5 1/2	114.3	✓		1600		End Plug. RELEASED
	13103							Release PSI SEP 25 1998
	1305							Plug Holds
	1320							Washup P.T. FROM CONFIDENTIAL
	1335							Reck up Trs.
	1400							Do Tickets
	1430							Job Complete Thank You. - Dave Ray, Gen. Mgr

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