

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- 191-22,225-00-00

County Sumner

SE - NW - NE Sec. 9 Twp. 34S Rge. 3 X E

Operator: License # 31140

Name: SOUTH OAK PRODUCTION COMPANY

Address P.O. Box 52093
Lafayette, LA 70505

City/State/Zip _____

Purchaser: D & A

Operator Contact Person: Henry W. Pfeffer, JR.

Phone (318) 232-5063

Contractor: Name: ALLEN DRILLING COMPANY

License: 5418

Wellsite Geologist: William Shepherd ^{KCC}

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: N/A

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. _____

2/19/93 3/03/93 3/04/93
Spud Date Date Reached TD Completion Date

1,000 Feet from S/W (circle one) Line of Section

1,660 Feet from E/W (circle one) Line of Section

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

Lease Name DVORAK Well # 1

Field Name Wildcat

Producing Formation D & A

Elevation: Ground 1230' KB 1235'

Total Depth 4846' PBTB --

Amount of Surface Pipe Set and Cemented at 307' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

Drilling Fluid Management Plan D&A JH 12-16-93
(Data must be collected from the Reserve Pit)

Chloride content 5500 ppm Fluid volume 723 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

_____ Quarter Sec. _____ Twp. _____ 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 [Signature]

Title Vice President Date 10/25/93

Subscribed and sworn to before me this 25th day of October, 19 93.

Notary Public Ellen Menard

Date Commission Expires at death

RECEIVED STATE CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
OCT 28 1993
Distribution
KCC _____ SWD/Rep _____
KGS _____ Plug _____
Wichita _____
Other _____
(Specify) _____

Operator Name SOUTH OAK PRODUCTION COMPANY Lease Name DVORAK Well # 1

Sec. 9 Twp. 34 Rge. 3 East West County Sumner

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 checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input 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	2819	-1984
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Iatan	3145	-1910
List All E.Logs Run:	DUAL INDUCTION <i>KCC</i> SPECTRAL DENSITY <i>PH</i> COMPENSATED SONIC CORAL	L. Stalnaker Sd	3223	-1988
		Kansas City	3526	-2291
		B/Kansas City	3799	-2564
		Cher. Shale	3996	-2761
		Mississippi	4242	-3007
		Kinderhook	4595	-3360
		Viola	4658	-3423
		Simpson Sd	4668	-3433
		Arbuckle	4800	-3565
		LTD	4847	-3612

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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"	20#	307'	60/40 poz	200	3% cc, 2% gel

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method <input 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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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: _____



Ricketts Testing, Inc.

COPY

Company SOUTH OAKS PRODUCTION CO. Lease & Well No. DVORAK #1

Elevation 1235 K.B. Formation MISSISSIPPI Effective Pay _____ ft. Ticket No. 1690

Date 2-27-93 Sec. 9 Twp. 34S Range 3W County SUMNER State KANSAS

Test Approved by BILL SHEPHERD Ricketts Representative JIM RICKETTS

Formation Test No. 1 Interval Tested from 4239 ft. to 4250 ft. Total Depth 4250 ft.

Packer Depth 4339 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4336 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4244 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 4247 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length _____ I.D. _____ in.

Mud Type Chemical Viscosity 47 Weight Pipe Length _____ I.D. _____ in.

Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 4219 I.D. 3.25 in.

Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 11 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow Initial Flow Period. Gas to surface 15 minutes of Final Flow Period.
Gauged 26,000 CFPD.

Recovered 140 ft. of Gas cut mud.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer (s)	<u>2:18</u>	XXXX A.M.	Time Started Off Bottom	<u>5:03</u>	XXXX P.M.	Maximum Temperature	<u>120°</u>
Initial Hydrostatic Pressure	(A)	<u>2109</u>				P.S.I.	
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>81</u>		P.S.I.	to
			(C)	<u>81</u>		P.S.I.	
Initial Closed In Period	Minutes	<u>27</u>	(D)	<u>1647</u>		P.S.I.	
Final Flow Period	Minutes	<u>45</u>	(E)	<u>88</u>		P.S.I.	to
			(F)	<u>70</u>		P.S.I.	
Final Closed In Period	Minutes	<u>60</u>	(G)	<u>1694</u>		P.S.I.	
Final Hydrostatic Pressure	(H)	<u>2105</u>				P.S.I.	

Pressure Data

Date 2-27-93 Test Ticket No. 1690
 Recorder No. 13306 Capacity 4625 Location 4247 Ft.
 Clock No. Elevation 1235 K.B. Well Temperature 120 °F

Point	Pressure		Open Tool	Time Given		Time Computed	
A Initial Hydrostatic Mud	2109	P.S.I.		2:18	P	M	
B First Initial Flow Pressure	81	P.S.I.	First Flow Pressure	30	Mins	30	Mins.
C First Final Flow Pressure	81	P.S.I.	Initial Closed-in Pressure	30	Mins	27	Mins.
D Initial Closed-in Pressure	1647	P.S.I.	Second Flow Pressure	45	Mins	45	Mins.
E Second Initial Flow Pressure	88	P.S.I.	Final Closed-in Pressure	60	Mins	60	Mins.
F Second Final Flow Pressure	70	P.S.I.					
G Final Closed-in Pressure	1694	P.S.I.					
H Final Hydrostatic Mud	2105	P.S.I.					

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	6		9		9		20	
	of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.	final inc. of	Min.
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	81	0	81	0	88	0	70	
P 2 5	81	3	554	5	88	3	823	
P 3 10	81	6	1001	10	88	6	1264	
P 4 15	81	9	1302	15	88	9	1428	
P 5 20	81	12	1439	20	88	12	1518	
P 6 25	81	15	1522	25	83	15	1561	
P 7 30	81	18	1570	30	80	18	1597	
P 8 35		21	1601	35	77	21	1615	
P 9 40		24	1628	40	72	24	1628	
P10 45		27	1647	45	70	27	1642	
P11 50		30		50		30	1653	
P12 55		33		55		33	1661	
P13 60		36		60		36	1669	
P14 65		39		65		39	1676	
P15 70		42		70		42	1681	
P16 75		45		75		45	1683	
P17 80		48		80		48	1685	
P18 85		51		85		51	1688	
P19 90		54		90		54	1690	
P20 95		57		95		57	1692	
		60				60	1694	



Ricketts Testing, Inc.

Company SOUTH OAKS PRODUCTION CO. Lease & Well No. DVORAK #1
 Elevation 1235 K.B. Formation SIMPSON SAND Effective Pay _____ ft. Ticket No. 1691
 Date 3-2-93 Sec. 9 Twp. 34S Range 3W County SUMNER State KANSAS
 Test Approved by BILL SHEPHERD Ricketts Representative JIM RICKETTS

Formation Test No. 2 Interval Tested from 4660 ft. to 4682 ft. Total Depth 4682 ft.

Packer Depth 4660 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4657 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4665 ft. Recorder Number 13307 Cap. 4650

Bottom Recorder Depth (Outside) 4668 ft. Recorder Number 13306 Cap. 4625

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length _____ I.D. _____ in.

Mud Type Chemical Viscosity 43 Weight Pipe Length _____ I.D. _____ in.

Weight 9.4 Water Loss 11.6 cc. Drill Pipe Length 4640 I.D. 3.25 in.

Chlorides 4,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 22 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow throughout test.

Recovered 1 ft. of Free oil.

Recovered 30 ft. of Oil cut mud. 5% Oil

Recovered 1364 ft. of Salt water.

Recovered 1200 ft. of Gas in pipe.

Recovered _____ ft. of _____

Remarks: DST Fluid Chlorides 100,000 PPM

Time Set Packer (s) 6:06 ~~P.M.~~ A.M. Time Started Off Bottom 8:06 ~~P.M.~~ A.M. Maximum Temperature 142°

Initial Hydrostatic Pressure.....(A) 2258 P.S.I.

Initial Flow Period Minutes 30 (B) 115 P.S.I. to

(C) 345 P.S.I.

Initial Closed In Period Minutes 30 (D) 1656 P.S.I.

Final Flow Period Minutes 30 (E) 417 P.S.I. to

(F) 568 P.S.I.

Final Closed In Period Minutes 30 (G) 1653 P.S.I.

Final Hydrostatic Pressure (H) 2234 P.S.I.

Pressure Data

Date 3-2-93 Test Ticket No. 1691
 Recorder No. 13307 Capacity 4650 Location 4665 Ft.
 Clock No. _____ Elevation 1235 K.B. Well Temperature 142 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2258</u> P.S.I.	Open Tool	<u>6:06</u> A M	
B First Initial Flow Pressure	<u>115</u> P.S.I.	First Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
C First Final Flow Pressure	<u>345</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1656</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>417</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins	<u>30</u> Mins.
F Second Final Flow Pressure	<u>568</u> P.S.I.			
G Final Closed-in Pressure	<u>1653</u> P.S.I.			
H Final Hydrostatic Mud	<u>2234</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	115	0	345	0	417	0	568
P 2 5	125	3	782	5	417	3	1575
P 3 10	150	6	1587	10	436	6	1610
P 4 15	197	9	1617	15	475	9	1626
P 5 20	236	12	1633	20	510	12	1633
P 6 25	287	15	1644	25	545	15	1637
P 7 30	345	18	1651	30	568	18	1644
P 8 35		21	1653	35		21	1647
P 9 40		24	1654	40		24	1649
P10 45		27	1655	45		27	1651
P11 50		30	1656	50		30	1653
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
		60				60	

DISTRICT PRATT KS DATE 3-3-93

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: SOUTH OAK (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE DVORAK SEC. 9 TWP. 34S RANGE 36
FIELD _____ COUNTY HARPER STATE KS OWNED BY _____

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
<u>ARBUCKLE</u>							
CASING							
LINER							
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

PLUG TO ABANDON WITH 140 SKS 49/60 P02 W/48 GCL

(PLUGGING PROCEDURE SEE JOB LOG)

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [Signature] CUSTOMER

DATE 3-4-93

TIME 0230 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

HALLIBURTON SERVICES JOB LOG

WELL NO. 1 LEASE DIVORAK TICKET NO. 215457
 CUSTOMER SOUTH OAK PAGE NO. 1
 JOB TYPE PLUG TO ABANDON DATE 3-8-73

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2100							<p>ORIGINAL</p> <p>JOB READY NOW CALLED OUT FOR JOB PUMP + BULK CAT INTO LOCATION (PLUGGING PROCEDURE)</p>
	2150							
	0300							
		7.0	10	✓		450'		SPOT A 35 SK PLUG AT 4800'
		7.0	9.0	✓		450'		pump to base FRESH WATER ahead
		7.0	3	✓		450'		MIX 35 SK CMT
		7.0	51.0	✓		42		PLUG 3 BAR WATER BEHIND
	0400							DISPLACE CMT WITH 51 BAR MUD
	{ }							1ST PLUG SPOTTED
								LAY DOWN DRILL PIPE
								TO 575'
	0545							SPOT A 35 SK PLUG AT 575'
								LAY D P DOWN TO 360'
	0600							SPOT A 35 SK PLUG AT 360'
								LAY DOWN REST OF D.P
								LEAVE 50' IN HOLE
	0615							CIRCULATE TOP 60' WITH 25 SKS
	0620							MIX 15 SKS TOP R.H
								JOB COMPLETE

RECEIVED
 STATE CORPORATION COMMISSION
 DEC 27 1993
 CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

EASTERN
PPATT, R

BILLED ON TICKET NO. 295182

WELL DATA

FIELD _____ SEC. 7 TWP. 34S RNG. 31W COUNTY WAGONER STATE KS

FORMATION NAME ARROWKIP 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 4846

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<u>8 7/8</u>			
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>3-3-73</u>	DATE <u>3-4-73</u>	DATE <u>3-4-73</u>	DATE <u>3-4-73</u>
TIME <u>2:00</u>	TIME <u>02:30</u>	TIME <u>03:30</u>	TIME <u>06:15</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. WOODROW 67573</u>	<u>37537</u>	
	<u>PIU</u>	
<u>K. DUTTOIT 8660</u>	<u>50100</u>	
	<u>RUM</u>	
<u>R. PARKER 41254</u>		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-⁰API

DISPL. FLUID _____ DENISTY _____ LB/GAL-⁰API

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. 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 _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB PLUG TO ABANDON

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE **X** David Z. Bess

HALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>140</u>	<u>40/66 P02</u>	<u>11610</u>	<u>B</u>	<u>4% GFL</u>	<u>1.43</u>	<u>13.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL. 35.5

TOTAL VOLUME: BBL-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS RECEIVED
E CORPORATION COMMISSION
DEC 27 1993
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER SOUTH OAK
LEASE DYPARK
WELL NO. 1
JOB TYPE PTA
DATE 3-4-73

**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

ATTACH TO INVOICE & TICKET NO. 295345-6

FORM 1988 R-7

A Division of Halliburton Company

ORIGINAL

DISTRICT Pratt, Kansas

DATE 2-19-93

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: ALLEN DRILLING FOR SOUTH OAK (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE DUBRAK SEC. 9 TWP. 34S RANGE 3W

FIELD _____ COUNTY SUMNER STATE KANSAS OWNED BY SOUTH OAK PRODUCTION

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____
INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N	20	8 5/8	KB	307	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	315	SHOTS/FT.
PERFORATIONS			7 7/8	315	550	
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

SET 307' 8 5/8" SURFACE CASING w/ 2000 SX 40/100 ARMED CEMENT CONTAINING 3% CaCl

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Richard Stevenson CUSTOMER

DATE 2-19-93

TIME 1230 A.M. P.M.

RECEIVED
STATE CORPORATION COMMISSION

REGISTRATION DIVISION
Wichita, Kansas

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

HALLIBURTON SERVICES
JOB LOG

WELL NO. 1 LEASE DUORAK TICKET NO. 295345

CUSTOMER Allen Drig Co PAGE NO. _____

FORM 2013 R-2

JOB TYPE 8980 DATE 2-19-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							Called out
	1200							OK now
								ORIGINAL
	1601							BREAK CIRC
	1604	8.5	-			300		START MIXING Cmt
	1610	6	45.2			-		finish mixing
	1611					-		RELEASE Plug
	1621	4	-			50		START Disp
	1628	2	19.56			125		Plug down
	1629							Close w Open 10/5/10/10 to pit
	1730							Job Complete
								THANK YOU
								JAIMIE BILL MARVIN

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STATE CORPORATION COMMISSION
DEC 27 1993
CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

JOB SUMMARY

 HALLIBURTON DIVISION EASTERN AREA 1
 HALLIBURTON LOCATION PRATT KANSAS

 BILLED ON TICKET NO. 295345-6

 CUSTOMER Amesbury for South Ok Lease
 WELL NO. W-100
 JOB TYPE 8 7/8 SURFACE
 DATE 2-19-93
WELL DATA

 FIELD _____ SEC. 9 TWP. 34S RNG. 30W COUNTY SUMNER STATE KANSAS
 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	20	8 7/8	66	307	
LINER						
TUBING						
OPEN HOLE			12 1/4	66	315	SHOTS/FT.
PERFORATIONS			7 7/8	315	550	
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA
TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>2 Cup</u>	<u>8 7/8</u>	<u>1 Howco</u>
HEAD <u>4 Howco</u>	<u>8 7/8</u>	<u>1 Howco</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-19</u>	DATE <u>2-19</u>	DATE <u>2-19</u>	DATE <u>2-19</u>
TIME <u>0830</u>	TIME <u>1200</u>	TIME <u>1601</u>	TIME <u>1730</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. McDuff</u>	<u>39603</u>	<u>Pratt, Ks</u>
<u>B. Mause</u>	<u>4410</u>	
<u>M. Monahan</u>	<u>4124-5621</u>	
	<u>69017</u>	

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
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

 DEPARTMENT CEMENT
 DESCRIPTION OF JOB SET 8 7/8 SURFACE CASING - SEE JOB LOG
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE X Richard Stevenson
 HALLIBURTON OPERATOR James McDuff COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>200</u>	<u>40/100 Perm</u>	<u>B</u>	<u>2% GEC 3% CC</u>		<u>1.27</u>	<u>14.3</u>

PRESSURES IN PSI
SUMMARY
VOLUMES

 CIRCULATING _____ DISPLACEMENT _____ PRESLUSH BBL-GAL 5 TYPE H2O
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 19.56
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY BBL-GAL 45.2
 ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

REMARKS

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STATE CORPORATION COMMISSION

DEC 27 1993