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KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

Operator: License # 04782  
Name: ENSIGN OPERATING CO.  
Address: 5555 NW GRAND BLVD., STE 240  
NORMAN  
City/State/Zip: OKLAHOMA CITY, OK 73142  
Purchaser: WILLIAMS FIELD SERVICE  
Operator Contact Person: GODFREY J. HOLASEK, JR.  
Phone: (405) 943-8866 extension 101  
Contractor: Name: CHEYENNE DRLG., INC  
License: #5382  
Wellsite Geologist: N/A

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_  
06/04/01 06/05/01 07/14/01  
Spud Date or 08/06/01  
Recompletion Date Date Reached TD Completion Date or  
Recompletion Date

API No. 15 - 175-21848 - 0000  
County: SEWARD  
S/2 N/2 SE Sec. 18 Twp. 33 S. R. 31  East  West  
1650' feet from (S) N (circle one) Line of Section  
1320 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) (NE) SE NW SW  
Lease Name: DUDREY Well #: 3-18  
Field Name: EAST HUGOTON  
Producing Formation: CHASE  
Elevation: Ground: 2746' Kelly Bushing: 2752'  
Total Depth: 2720' Plug Back Total Depth: 2709'  
Amount of Surface Pipe Set and Cemented at 625 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 cmt.

Drilling Fluid Management Plan ALT 1 gwl 8/21/02  
(Data must be collected from the Reserve Pit)  
Chloride content 1100 ppm Fluid volume 2000 bbls  
Dewatering method used Evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ 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 of 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: Gregory Holasek, Jr.  
Title: District Manager Date: 09/13/01  
Subscribed and sworn to before me this 13th day of September,  
19 2001  
Notary Public: Jocinda M. Barton  
Date Commission Expires: MY COMMISSION EXPIRES 07-09-2003

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: ENSIGN OPERATING CO. Lease Name: DUDREY Well #: 3-18  
 Sec. 18 Twp. 33 S. R. 31  East  West County: SEWARD

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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:

Gamma Neutron (Gased Hole) ✓

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

Herrington Zone 2542'  
 U. Krider Zone 2578'  
 L. Krider Zone 2606'

CASING RECORD <input 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
Prod Csg	7-7/8"	4-1/2"	10.5	2720'	Poz Lite	620	1/4" / sx flocele
Surface	12.3"	8 5/8"	24	625'	35/65 Poz	165	10# / sx Gilsonite

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
1	Herrington 22542'-2556'	Acidized 50 gal/ ft w/	
	U. Krider 2578'-2598'	PPI tool on all zones.	
	L. Krider 2606'-2634'	7-1/2% FE- HCL Acid	

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-3/8	2564	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 07/14/01		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	-0-	215 mcf/d	5 bbls/dy		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, Sumit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_  
 Production Interval: 2542' - 2634' OA

API # 15-175-21848

Customer <b>CHEYENNE DRILLING</b>				Job Number <b>20221212</b>				
Well <b>DUDREY 3-18</b>		Location (logal)		Dowell Location <b>Ulysses, KS</b>		Job Start <b>6/4/01</b>		
Field		Formation Name/Type <b>surface</b>		Deviation <b>0</b>		Well TVD <b>625 ft</b>		
County <b>SEWARD</b>		State/Province <b>KANSAS</b>		Bit Size <b>12.3 in</b>		Well MD <b>625 ft</b>		
Rig Name <b>CHEYENNE 8</b>		Drilled For <b>Gas</b>		Service Via <b>Land</b>		Well Type <b>Development</b>		
Offshore Zone		Well Class <b>New</b>		BHP <b>0 psi</b>		BHST <b>75 °F</b>		
Drilling Fluid Type <b>Spud Mud</b>		Max. Density <b>9.1 lb/gal</b>		Plastic Viscosity <b>0 cp</b>		BHCT <b>70 °F</b>		
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>		Casing/Liner		Pore Press. Gradient <b>0 psi/ft</b>		
Max. Allowed Tubing Pressure <b>0 psi</b>		Max. Allowed Ann. Pressure <b>0 psi</b>		WellHead Connection <b>Single cement head</b>		Depth, ft <b>0</b>		
Service Instructions <b>Safely cement 8 5/8 surface casing as per customer's request</b>		Wellhead Connection		Casing/Liner		Size, in <b>8.625</b>		
				Tubing/Drill Pipe		Weight, lb/ft <b>24</b>		
				Perforations/Open Hole		Grade <b>0</b>		
				Top, ft		Thread		
				Bottom, ft		Grade <b>0</b>		
				spf		Thread		
				No. of Shots		Grade <b>0</b>		
				Total Interval		Thread		
				Diameter		Grade <b>0</b>		
				0 in		Thread		
				Packer Depth		Grade <b>0</b>		
				0 ft		Thread		
				Open Hole Vol		Grade <b>0</b>		
				0 bbl		Thread		
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job		
Lift Pressure: <b>268 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: <b>Guide</b>		
No. Centralizers: <b>3</b>		Top Plugs: <b>1</b>		Bottom Plugs: <b>0</b>		Shoe Depth: <b>625 ft</b>		
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>6/4/01 14:00</b>		Arrived on Location: <b>6/4/01 14:00</b>		Leave Location: <b>6/4/01 18:00</b>		
						Stage Tool Type		
						Tool Depth: <b>0 ft</b>		
						Stage Tool Depth: <b>0 ft</b>		
						Tail Pipe Size: <b>0 in</b>		
						Collar Type: <b>insert</b>		
						Tail Pipe Depth: <b>0 ft</b>		
						Collar Depth: <b>ft</b>		
						Sqz Total Vol: <b>0 bbl</b>		
Time	CPT/73 THO	Density	Pressure WT	Rate E/H				Message
24 hr clock	bpm	ppg	psi	bpm				
4:31	0	0	0	0	0	0	0	START ACQUISITION
4:32	0.	8.31	0.	0.	0	0	0	
4:32	0.	8.31	0.	0.	0	0	0	Pressure Test Lines
4:32	0.	8.31	0.	0.	0	0	0	
4:33	0.	8.31	0.	0.	0	0	0	
4:33	0.	8.32	0.	0.	0	0	0	
4:34	0.	8.3	206.	0.48	0	0	0	
4:34	0.	8.3	50.37	0.	0	0	0	
4:35	0.	8.3	4.58	0.	0	0	0	
4:35	0.	8.3	59.52	4.72	0	0	0	
4:36	0.	8.28	73.26	5.27	0	0	0	
4:36	0.	8.27	59.52	5.45	0	0	0	
4:37	0.	8.26	41.21	4.88	0	0	0	
4:37	0.	8.26	32.05	4.38	0	0	0	
4:38	0.	10.68	54.95	4.3	0	0	0	
4:38	0.	12.66	59.52	4.1	0	0	0	
4:39	0.	13.03	196.9	5.03	0	0	0	
4:39	0.	11.61	247.3	6.81	0	0	0	
4:40	0.	12.81	233.5	8.05	0	0	0	
4:40	0.	11.97	224.4	5.85	0	0	0	
4:41	0.	11.74	210.6	6.99	0	0	0	
4:41	0.	12.04	196.9	5.21	0	0	0	

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Well		Field			Service Date		Customer		Job Number	
DUDREY #3-18							CHEYENNE DRILLING		20221212	
Time	CPY773 THO	Density	Pressure Lt	Rate EFW					Message	
24 hr clock	bpm	ppg	psi	bpm						
4:42	0.	12.23	206.	6.11	0	0	0			
4:42	0.	11.8	192.3	7.63	0	0	0			
4:43	0.	11.27	183.2	9.33	0	0	0			
4:43	0.	11.37	174.	7.07	0	0	0			
4:44	0.	12.03	164.8	4.52	0	0	0			
4:44	0.	11.61	164.8	8.63	0	0	0			
4:45	0.	12.	164.8	8.95	0	0	0			
4:45	0.	12.12	164.8	6.83	0	0	0			
4:46	0.	12.13	187.7	7.59	0	0	0			
4:46	0.	12.03	219.8	7.49	0	0	0			
4:47	0.	12.37	196.9	7.77	0	0	0			
4:47	0.	12.23	178.6	8.95	0	0	0			
4:48	0.	11.81	160.3	4.64	0	0	0			
4:48	0.	11.5	96.15	10.05	0	0	0			
4:49	0.	13.52	114.5	25.31	0	0	0			
4:49	0.	14.58	164.8	4.92	0	0	0			
4:50	0.	15.31	41.21	2.24	0	0	0			
4:50	0.	14.48	137.4	4.78	0	0	0			
4:51	0.	15.19	119.	4.84	0	0	0			
4:51	0.	14.9	146.5	4.9	0	0	0			
4:52	0.	14.71	114.5	4.84	0	0	0			
4:52	0.	14.68	119.	5.11	0	0	0			
4:53	0.	14.72	155.7	4.84	0	0	0			
4:53	0.	14.7	137.4	4.88	0	0	0			
4:54	0.	14.61	132.8	4.98	0	0	0			
4:54	0.	14.08	151.1	6.03	0	0	0			
4:55	0.	14.	123.6	5.17	0	0	0			
4:55	0.	14.74	-9.16	0.719	0	0	0			
4:56	0.	9.07	-9.16	3.3	0	0	0			
4:56	0.	8.91	-4.58	0.	0	0	0			
4:57	0.	8.64	32.05	3.78	0	0	0			
4:57	0.	8.7	32.05	4.94	0	0	0			
4:58	0.	8.38	41.21	4.8	0	0	0			
4:58	0.	8.33	22.89	5.41	0	0	0			
4:59	0.	8.33	22.89	5.41	0	0	0		on disp	
4:59	0.	8.39	32.05	5.35	0	0	0			
4:59	0.	8.39	32.05	5.35	0	0	0		circ cmt	
4:59	0.	8.35	27.47	6.65	0	0	0			
5:00	0.	8.33	36.63	5.21	0	0	0			
5:00	0.	8.33	59.52	5.09	0	0	0			
5:01	0.	8.33	73.26	5.15	0	0	0			
5:01	0.	8.3	96.15	5.05	0	0	0			
5:02	0.	8.32	123.6	5.	0	0	0			
5:02	0.	8.32	109.9	4.94	0	0	0			
5:03	0.	8.32	119.	4.92	0	0	0			
5:03	0.	8.32	59.52	4.32	0	0	0			
5:04	0.	8.32	119.	2.08	0	0	0			
5:04	0.	8.32	169.4	2.06	0	0	0			
5:05	0.	8.32	164.8	2.02	0	0	0			
5:05	0.	8.32	183.2	2.02	0	0	0			
5:06	0.	8.32	160.3	2.02	0	0	0			
5:06	0.	8.32	467.	0.	0	0	0			
5:07	0.	8.32	9.16	0.	0	0	0			
5:07	0.	8.32	0.	0.2	0	0	0			

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Well DUDREY #3-18		Field		Service Date		Customer CHEYENNE DRILLING		Job Number 20221212	
Time	CPT/773 THO	Density	Pressure U1	Rate E/H				Message	
24 hr clock	bpm	ppg	psi	bpm					
5.08	0.	8.32	-4.58	0.22	0	0	0		
5.08	0.	8.32	-4.58	0.22	0	0	0	bump plug	
5.08	0.	8.32	-4.58	0.22	0	0	0	circ 40 bbls cmt	
5.08	0.	8.32	-4.58	0.22	0	0	0	plug down 1707	
5.08	0.	8.32	0.	0.22	0	0	0		
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
3	0	0	5	91	0	10	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
300	700	0	800	0		0 bbl	0 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume				
0 %	93 bbl	39 bbl	65 °F	<input type="checkbox"/> Washed Thru Perfs To	0 ft				
Customer or Authorized Representative Domaso			Dowell Supervisor Shubhanan Dakshindas			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

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Customer <b>CHEYENNE DRILLING</b>		Person Taking Call <b>Charley King</b>		Dowell Location <b>Ulysses, KS</b>		Order Date <b>6/1/01</b>		Job Number <b>20221212</b>			
Well Name and Number <b>DUDREY 3-18</b>			Legal Location		Field		County <b>SEWARD</b>		State/Province <b>KANSAS</b>		
Rig Name <b>CHEYENNE 8</b>			Well Age <b>New</b>		Sales Engineer <b>Charley King</b>		Job Type <b>Cem Surface Casing</b>				
Time Well Ready: <b>6/4/01 3:00 PM</b>		Deviation <b>0</b>		Bit Size <b>0 in</b>		Well MD <b>625 ft</b>		Well TVD <b>625 ft</b>		BHP <b>0 psi</b>	
BHST <b>75 °F</b>		BHCT <b>70 °F</b>		HHP on Location <b>0</b>		Max Allowed Pressure <b>0</b>		Max Allowed Ann Pressure <b>0</b>			
Treat Down <b>Casing</b>		Packer Type		Packer Depth <b>0 ft</b>		WellHead Connection <b>Single cement head</b>					
<b>Casing</b>						<b>Services Instructions:</b>					
Depth, ft						Size, in					
Weight, lb/ft						Grade					
Thread						Safety cement 8 5/8 surface casing as per customer's request					
625						8.625					
24											
0						0					
0						0					
<b>Tubing</b>						<b>Extra Equipment:</b>					
Depth,						Size, in					
Weight, lb/ft						Grade					
Thread						Take 5 - 8 5/8 centralizers, may only run 3 or 4					
0						0					
0						0					
0						0					
<b>Perforated Intervals</b>						auto fill insert					
Top, ft						Bottom, ft					
spf						No. of Shots					
Total Interval						Diameter					
0						0					
0						0					
0						0					
0						0 in					

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Contact	Voice	Mobile	FAX	Notes
Domaso		272-1393		

**Notes:**  
8 5/8 head, swedge and manifold

**Directions:**  
UKS E to 83-S to 160E - 6E on 160 to rd R - S to highway 54 - NE on 54 to top of first hill - E on meade lake rd ~ 1 mile - N into

**Other Notes:**

SALES ORDER



Halliburton Energy Services, Inc.

ORIGINAL

JUN 21 2001

KCC WICHITA

Sales Order Number: 1331739

Sales Order Date: June 04, 2001

<p><b>SOLD TO:</b>                  ENSIGN OPERATING COMPANY                  1225 SEVENTEENTH STREET SUITE 1900                  DENVER CO 80202                  USA</p>	<p><b>Ticket Type:</b> Services  <b>Well/Rig Name:</b> ENSIGN DUDREY 3-18, SEWARD  <b>Company Code:</b> 1100  <b>Customer P.O. No.:</b> N/A  <b>Shipping Point:</b> Liberal, KS, USA  <b>Sales Office:</b> Mid-Continent BD  <b>Well Type:</b> Oil  <b>Well Category:</b> Development  <b>Service Location:</b> 0037  <b>Payment Terms:</b> Net due in 20 days</p>
<p><b>SHIP TO:</b>                  ENSIGN DUDREY 3-18, SEWARD                  DUDREY                  *                  LIBERAL KS 67901                  USA</p>	<p><i>RM</i></p>

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
7523	PSL - CMT PRODUCTION CASING - BOM JP035	1	JOB					
1	"ZI-MILEAGE FROM NEAREST HES BASE,/UNIT" 000-117 Number of Units	30	MI		4.41	132.30	33.08-	99.22
2	MILEAGE FOR CEMENTING CREW,ZI 000-119 Number of Units	30	MI		2.60	78.00	19.50-	58.50
16091	ZI - PUMPING CHARGE 001-016 DEPTH FEET/METRES (FT/M)	1	EA		2,167.00	2,167.00	541.75-	1,625.25
132	PORTABLE DAS,/DAY/JOB,ZI 045-050 NUMBER OF DAYS	1	JOB		916.00	916.00	229.00-	687.00
141	RCM II W/ADC,/JOB,ZI 046-065	1	JOB		970.00	970.00	242.50-	727.50



ORIGINAL

Halliburton Energy Services, Inc.

Sales Order Number: 1331739

Sales Order Date: June 04, 2001

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
	NUMBER OF UNITS	1	each					
74038	ZI PLUG CONTAINER RENTAL-1ST DAY DAYS OR FRACTION (MIN1)	1	EA	643.00	643.00	643.00	160.75-	482.25
100076190	SHOE,IFS,4 1/2 8RD,INSR FLPR V SHOE,IFS,4 1/2 8RD,INSR FLPR Valve / SHOE-IFS- 4-1/2 8RD - INSERT FLAPPER / VALVE	1	EA		115.00	115.00		115.00
100013930	FILUP ASSY,1.250 ID,4 1/2,5 IN INSR 27815.19113 / FILLUP ASSY - 1.250 ID - 4 1/2 - / 5 IN. INSERT FLOAT VALVE	1	EA		45.00	45.00	11.25-	33.75
100004491	CTRZR ASSY,TURBO,API,4 1/2 CSG X 7 7/8 40 806.60104 / CENTRALIZER ASSY - TURBO - API - / 4-1/2 CSG X 7-7/8 HOLE - HINGED - / W/WELDED IMPERIAL BOWS AND FLUID / DEFLECTOR FINS	5	EA		78.75	393.75	98.44-	295.31
100013745	PLUG ASSY - 3W LATCHDOWN - 4-1/2 IN 593801.0373 / PLUG ASSY - 3 WIPER LATCHDOWN - 4-1/2 / CSG	1	EA		314.60	314.60	78.65-	235.95
100004364	BAFFLE ASSY - 4-1/2 8RD LATCHDOWN PLUG 594801.03734 / BAFFLE - CAST IRON - 4-1/2 8RD LATCH / DOWN PLUG	1	EA		131.00	131.00	32.75-	98.25
100004638	CLAMP-LIMIT-4 1/2-FRICT-W/DOGS XXXXXXX 806.72720 / CLAMP - LIMIT - 4-1/2 - FRICTION - / W/DOGS	1	EA		30.00	30.00	7.50-	22.50
100003800	CHEM-BE-6 BACTERIACIDE 516.00771 / CHEMICAL - BE-6 BACTERICIDE - 48 / ONE POUND BAGS/FIBER DRUM - REPLACES / FDP-F496-92 UNDER 999.99177	1	LB		107.00	107.00	26.75-	80.25

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KCC WICHITA





HALLIBURTON®

Halliburton Energy Services, Inc.

ORIGINAL

Sales Order Number: 1331739

Sales Order Date: June 04, 2001

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100001585	CHEM-KCL POTASSIUM CHLORIDE - 50# 70.15302 / CHEMICAL - KCL POTASSIUM CHLORIDE - / 50 LB SACK OR BAG	400	LB		0.54	216.00	54.00-	162.00
14239	SBM PREMIUM PLUS 50/50 POZ 504-132	470	SK		13.10	6,157.00	1,539.25-	4,617.75
101216940	Chemical - Poly-E-Flake (25# bag) NO PART NUMBER PRIOR TO SAP	155	LB		2.71	420.05	105.01-	315.04
100003700	Chem- Gilsonite (Bulk) 508-292 516.00337 / CHEMICAL - GILSONITE - BULK	5,450	LB		0.69	3,760.50	940.13-	2,820.37
100012205	Cement- Class C / Premium Plus (Bulk) 504-050516.00265 / CEMENT - CLASS C - PREMIUM - BULK	150	SK		19.39	2,908.50	727.13-	2,181.37
3965	HANDLE&DUMP SVC CHRГ, CMT&ADDITIVES,ZI 500-207 NUMBER OF EACH	761 1	CF each		2.47	1,879.67	469.92-	1,409.75
76400	ZI MILEAGE,CMT MTLs DEL/RET MIN 500-306 / MILEAGE,CMTG MTLs DEL/RET PER/TON ML.MIN NUMBER OF TONS	900 1.00	MI ton		1.51	1,359.00	339.75-	1,019.25
<b>SALES ORDER AMOUNT</b>						<b>22,743.37</b>	<b>5,657.11-</b>	<b>17,086.26</b>
Sales Tax - State								680.59
Sales Tax - County								15.25
Sales Tax - City/Loc								138.88
<b>SALES ORDER TOTAL</b>								<b>17,920.98</b> US Dollars

INVOICE INSTRUCTIONS:

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Operator Name:  
Customer Agent:

Halliburton Approval: X \_\_\_\_\_  
Customer Signature: X \_\_\_\_\_



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Halliburton Approval: X  
Customer Signature: X

*William W. Blograve*  
KCC WICHITA

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<b>HALLIBURTON</b>		<b>JO. SUMMARY</b>		SALES ORDER NUMBER 1739	TICKET DATE 06/05/01
REGION NORTH AMERICA LAND		MMA / COUNTRY USA		BDA / STATE KS.	COUNTY SEWARD
MBU ID / EMPL # MCLI0104/105848		H.E.S. EMPLOYEE NAME JOHN WOODROW		PSL DEPARTMENT Cementing Services	
LOCATION LIBERAL, KS.		COMPANY ENSIGN OPERATING		CUSTOMER REP / PHONE BILL BLAGRAVE	
TICKET AMOUNT \$17,920.98		WELL TYPE GAS		API/UWI # 15-175-218480000	
WELL LOCATION LIBERAL, KS.		DEPARTMENT ZONAL ISOLATION		SAP BOMB NUMBER 7523	Description Cement Production Casing
LEASE NAME DUDREY		Well No. 3-18	SEC / TWP / RING 18-33S-31W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS.	

**ORIGINAL**

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	HRS	HRS	HRS
Woodrow, J 105848		Ferguson, R 106154		
Wille, D 225409		Gonzales, R 224608		
Arnett, J 226567				

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
420621 P/U	30	10240236 / 10240243	30	
54219 / 78299	30	54029 / 75821	30	

Form. Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form. Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Retainer Depth \_\_\_\_\_ Total Depth 2720

Date	Called Out	On Location	Job Started	Job Completed
	06/06/2001	06/06/2001	06/06/2001	06/06/2001
Time	2120	2330	0601	0655

Tools and Accessories		Well Data	
Type and Size	Qty	Make	
Float Collar		H	
Float Shoe INSERT 4 1/2	1		
Centralizers F.M. 4 1/2	5	O	
Top Plug L.D. 4 1/2	1		
HEAD P/C 4 1/2	1	W	
Limit clamp 4 1/2	1		
Weld-A		C	
Guide Shoe			
BTM PLUG		O	

New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	U	10.5#	4 1/2	KB	2,723	
Liner						
Liner						
Tubing						
Drill Pipe						
Open Hole						Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials			
Mud Type	Density	Lb/Gal	
Disp. Fluid	Density	Lb/Gal	
Prop. Type	Size	Lb	
Prop. Type	Size	Lb	
Acid Type	Gal.	%	
Acid Type	Gal.	%	
Surfactant	Gal.	In	
NE Agent	Gal.	In	
Fluid Loss	Gal/Lb	In	
Gelling Agent	Gal/Lb	In	
Fric. Red.	Gal/Lb	In	
Breaker	Gal/Lb	In	
Blocking Agent	Gal/Lb		
Perfpac Balls	Qty.		
Other			
Other			
Other			
Other			

Hours On Location	Operating Hours	Description of Job
Date 6/6	Hours 7.0	
Date 6/6	Hours 1.0	
Total	7.0	
Total	1.0	

**JOB PROCEDURE  
SEE JOB LOG**

RECEIVED

6/21/01

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
Feet 10	Cement Left in Pipe	Reason
		SHOE JOINT

Cement Data							
Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	470	PP 50/50 POZ	Bulk/Sks	2% TOTALGEL, 1/8# POLY FLAKE, 10# GILSONITE / SK	9.54	1.92	12.20
2	150	PREM PLUS	Bulk/Sks	1/4# POLY FLAKE, 5# GILSONITE	5.84	1.34	14.8


Summary			
Circulating	Displacement	Preflush: BBI	10.00
Breakdown	MAXIMUM	Load & Bkdn: Gal - BBI	
Lost Returns	Lost Returns	Excess /Return BBI	
Cmt Rtn#Bbl	Actual TOC	Calc. TOC:	
Average	Frac. Gradient	Treatment: Gal - BBI	
Shut In: Instant	5 Min.	Cement Slurry BBI	197.0
	15 Min.	Total Volume BBI	250.00

Frac. Ring #1 \_\_\_\_\_ Frac. Ring #2 \_\_\_\_\_ Frac. Ring #3 \_\_\_\_\_ Frac. Ring #4 \_\_\_\_\_

THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER REPRESENTATIVE \_\_\_\_\_

*William H. Blagrove*  
 SIGNATURE

# ORIGINAL

 <b>HALLIBURTON</b>		<b>JOB LOG</b>		TICKET # 1331739	TICKET DATE 06/05/01
REGION NORTH AMERICA LAND		NWA / COUNTRY USA		BDA / STATE KS.	COUNTY SEWARD
MBU ID / EMPL # MCL10104/105848		H.E.S. EMPLOYEE NAME JOHN WOODROW		PSL DEPARTMENT Cementing Services	
LOCATION LIBERAL, KS.		COMPANY ENSIGN OPERATING		CUSTOMER REP / PHONE BILL BLAGRAVE	
TICKET AMOUNT \$17,920.98		WELL TYPE GAS		API/MI # 5-175-218480000	
WELL LOCATION LIBERAL, KS.		DEPARTMENT ZONAL ISOLATION		JOB PURPOSE CODE Cement Production Casing	
LEASE NAME DUDREY		Well No. 3-18	SEC / TWP / RNG 18-33S-31W	HES FACILITY (CLOSEST) TO WELL # LIBERAL, KS.	

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
Woodrow, J 105848		Ferguson, R 106154			
Wille, D 225409		Gonzales, R 224608			
Arnett, J 226567					

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate			Job Description / Remarks
				N2	CSG.	Tbg.	
	0100						JOB READY
	2120						CALLED OUT FOR JOB
	2330						PUMP TRUCK ON LOCATION / PRE JOB SITE ASSESMENT
							SPOT EQUIPMENT
	0100						START LAYING DOWN DRILL PIPE
	0415						START RUNNING 4 1/2 CSG. & FLOAT EQUIP,
	0530						CASING ON BOTTOM 2723 FT.
							HOOK UP 4 1/2 P/C & CIRC. IRON
	0545						START CIRC. WITH RIG PUMP
							THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
							JOB PROCEDURE
	0601				2000		TEST PUMP & LINES
	0603	5.0	10.0		0-200		PUMP SPACER
	0607	6.0	160.0		200-180		START MIXING LEAD CMT. AT 12.2# / GAL
	0632	6.0	36.0		190-250		START MIXING TAIL CMT. AT 14.8# / GAL
	0640						THROUGH MIXING CMT. / SHUT DOWN
	0642						CLEAN PUMP & LINES
	0645						START DISPLACING WITH 2% KCL WATER
					700-1500		MAX LIFT PRESSURE BEFORE LANDING PLUG
	0655				1500		PLUG DOWN / RELEASE FLOAT
							FLOAT HELD
							THANK YOU FOR CALLING HALLIBURTON
							( WOODY & CREW )

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JUN 21 2001  
KOG WICHITA

Work Order Contract

Order Number

1331739



Halliburton Energy Services, Inc.
Houston, Texas 77056

ORIGINAL

\* 70012 SAP

TO: HALLIBURTON ENERGY SERVICES, INC. - YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICE PERSONNEL TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO CUSTOMER LISTED BEEOW AND DELIVER AND SELL PRODUCTS, SUPPLIES AND MATERIALS FOR THE PURPOSE OF SERVICING:

Table with 5 columns: Well No., Farm or Lease, County, State, Well Permit Number, Customer, Well Owner, Job Purpose. Values include 3-18, DUDREY, SEWARD, KS., 15-175-218480000, ENSIGN OPERATING, ENSIGN OPERATING, Cement Production Casing.

THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

A. CUSTOMER REPRESENTATION - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton Energy Services, Inc. (hereinafter "Halliburton").

B. PRICE AND PAYMENT - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials.

C. RELEASE AND INDEMNITY - Customer agrees to RELEASE Halliburton Group from any and all liability for any and all damages whatsoever to property of any kind owned by, in the possession of, or leased by Customer and those persons and entities Customer has the ability to bind by contract or which are co-interest owners or joint venturers with Customer.

loss of well control; services to control a wild well whether underground or above the surface; reservoir or underground damage, including loss of oil, gas, other mineral substances or water, surface damage arising from underground damage; damage to or loss of the well bore; subsurface trespass or any action in the nature thereof; fire; explosion; subsurface pressure; radioactivity; and pollution and contamination and its cleanup and control.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS obligations will apply even if the liability and claims are caused by the sole, concurrent, active or passive negligence, fault, or strict liability of one or more members of the Halliburton Group, the unseaworthiness of any vessel or any defect in the data, products, supplies, materials or equipment furnished by any member or members of the Halliburton Group whether in the design, manufacture, maintenance or marketing thereof or from a failure to warn of such defect.

D. EQUIPMENT LIABILITY - Customer shall at its risk and expense attempt to recover any Halliburton Group equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence.

E. LIMITED WARRANTY - Halliburton warrants only title to the equipment, products, and materials supplied under this Contract and that same are free from defects in workmanship and materials for thirty (30) days from the date of delivery. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's sole 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, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items.

F. GOVERNING LAW - The validity, interpretation and construction of this Contract shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. DISPUTE RESOLUTION Customer and Halliburton agree that any dispute that may arise out of the performance of this Contract shall be resolved by binding arbitration by a panel of three arbitrators under the rules or the American Arbitration Association. The arbitration will take place in Houston, TX.

H. SEVERABILITY - If any provision or part thereof of this Contract shall be held to be invalid, void, or of no effect for any reason, such holding shall not be deemed to affect the validity of the remaining provisions of this Contract which can be given effect, without the invalid provision or part thereof, and to this end, the provisions of this Contract are declared to be severable. Customer and Halliburton agree that any provision of this Contract that is unenforceable or void under applicable law will be modified to achieve the intent of the parties hereunder to the greatest extent allowed by applicable law.

I. MODIFICATIONS - Customer agrees that Halliburton shall not be bound by any modifications to this Contract, except where such modification is made in writing by a duly authorized executive officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 4100 Clinton Drive, Houston, TX. 77020.

I HAVE READ AND UNDERSTAND THIS WORK ORDER CONTRACT WHICH CONTAINS RELEASE AND INDEMNITY LANGUAGE WHICH CUSTOMER ACKNOWLEDGES IS CONSPICUOUS AND AFFORDS FAIR AND ADEQUATE NOTICE AND I REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: [Signature] DATE: 6-6-01 TIME: 0100

Customer Acceptance of Materials and Services

THE CUSTOMER HEREBY ACKNOWLEDGES RECEIPT OF THE MATERIALS AND SERVICES DESCRIBED ON THE ATTACHED ORDER NUMBER 1331739

[Signature] CUSTOMER Authorized Signatory

RECEIVED JUN 27 2001 KOG-NICHITA

MID-CONTINENT NWA CEMENTING CALL FOR SALES & SERVICE  
 MAKE SAFETY A CORE VALUE IN YOUR LIFE!  
 PLEASE WORK & DRIVE SAFELY!



COMPANY <b>ENSIGN OPERATING</b>	OWNER <b>SAME</b>	DATE <b>6/4/2001</b>
BILLING ADDRESS <b>P. O. Box 2161, Liberal, KS 67901-2161</b>		
CONTRACTOR <b>Cheyenne Drilling Rig 8</b>	API <b>15-175-218480000</b>	SEC, TWN, RNG <b>S18-T33S-R31W</b>
LEASE <b>DUDREY</b>	WELL NO. <b>3-18</b>	COUNTY/ STATE <b>SEWARD/KS</b>
RT MILEAGE <b>30/30</b>		
DIRECTIONS <b>Liberal, KS 6 point intersection: 14.5 East on HWY 54 to Meade Lake Road, 1/8 East on Meade Lake Road, North 1/4 Mile to Location.</b>		

**QUOTE: 20685679 S/O - 1331739 KB - 1331740**

SURFACE	INTER.	LONG STRING <b>YES</b>	LINER	PLUG BACK	PTA
SQUEEZE	WHIPSTOCK	OTHER			
CASING SIZE <b>4.5"</b>	WEIGHT <b>10.5#</b>	THREAD <b>8 rd</b>	PLUG CONT <b>YES</b>	SWAGE <b>YES</b>	CSG SWIVEL
TBG / DP SIZE	WEIGHT	THREAD	TD <b>2720 FT</b>	% EXCESS <b>OH 100%</b>	MUD WT
					HOLE SIZE <b>7 7/8"</b>

NUMBER AND TYPE TRUCKS WANTED **RCM. Bulk Cement**  
 REMARKS **Fillup to surface 0% excess inside 8 5/8"**

# OF SACKS <b>470</b>	TYPE <b>50/50 Poz/C</b>	ADDITIVES <b>2% Total Gel, 1/4# Polyflake E, 10# Gilsonite/sk (PT-4 HRS)</b>
# OF SACKS	TYPE	ADDITIVES <b>Mix @ 12.2 ppg, 1.92 cf/sk, 9.54 gal/sk H2O</b>
# OF SACKS <b>150</b>	TYPE <b>Prem Plus</b>	ADDITIVES <b>1/4# Polyflake E, 5 #/sk Gilsonite (PT-2 HOURS)</b>
# OF SACKS	TYPE	ADDITIVES <b>Mix @ 14.8 ppg, 1.34 cf/sk, 5.84 gal/sk H2O</b>
# OF SACKS	TYPE	ADDITIVES <b>DISPLACE W/ 2% POTASSIUM CHLORIDE &amp; 1# BE-6</b>
# OF SACKS	TYPE	ADDITIVES

SPACER TYPE <b>2% KCI WATER</b>	QUANTITY <b>10 bbl</b>	REMARKS <b>AHEAD OF CEMENT</b>
SPACER TYPE	QUANTITY	REMARKS

KCL <b>400 LBS &amp; 1# BE-6</b>	CLAYFIX II	LO-SURF	CLASTA-XP
----------------------------------	------------	---------	-----------

CASING SIZE <b>4.5"</b>	CASING WEIGHT <b>10.5#</b>	THREAD <b>8 rd</b>	GUIDE SHOE	LATCH DOWN PLUG & BAFFLE <b>3 Wiper Plug &amp; Baffle</b>
INSERT FLOAT SHOE <b>IFS W/ FILL TUBE</b>	FLOAT SHOE	FLOAT COLLAR	INSERT FLOAT	

CENTRALIZER-QTY <b>5 EACH</b>	SIZE <b>4 1/2" X 7 7/8"</b>	TYPE <b>FLUIDMASTERS</b>
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WALL CLEANERS-QTY	TYPE	DV TOOL	DV PLUG SET
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LIMIT CLAMPS <b>1 EACH</b>	WELD-A	CMT BASKET	OTHER
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REMARKS

ORDERED BY: <b>William H Blagrave Cellular 405-317-3068 Office 620-626-8131</b>	TIME OF CALL: <b>1100 6/4/2001</b>
CALL TAKEN BY: <b>Willson /LARRY/DON</b>	TIME READY: <b>W/C</b>
CREW CALLED:	TIME: <b>TUES PM</b>

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**SEP 20 2001**  
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