

COPY

SIDE ONE

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

API NO. 15- 095-21,624-0060

County Kingman

5 W C NW SW Sec. 3 Twp. 29S Rge. 8 XX East West

1980 Ft. North from Southeast Corner of Section

4695 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

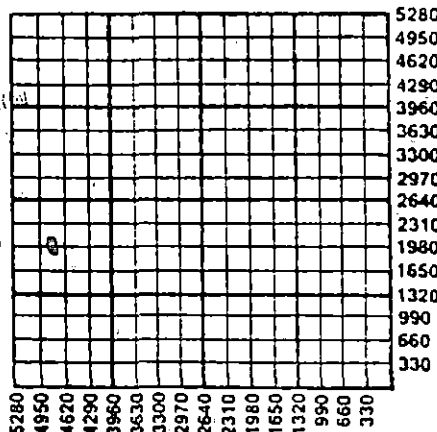
Lease Name Nelson A Well # 1

Field Name Garlisch SW

Producing Formation Mississippi

Elevation: Ground 1670' KB 1675'

Total Depth 4595' PBTD 4245'



Amount of Surface Pipe Set and Cemented at 257 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 cmr.

Operator: License # 3517

Name: Columbian Services Corporation

Address Bank IV Tower

P.O. Box 3501

City/State/Zip Topeka, KS 66601-3501

Purchaser: Peoples

Operator Contact Person: Stan Brady

Phone (913) 234-0581

Contractor: Name: H-30 Drilling, Inc.

License: 5107

Wellsite Geologist: Gary F. Gensch

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

12-23-89 1-4-90 2-27-90

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-111 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Stan Brady

Title Operations Manager Date 4-10-90

Subscribed and sworn to before me this 10th day of April, 19 90.

Notary Public Lois K. Long

Date Commission Expires 11-26-90

State of Kansas
Notary Public Expires 11-26-90

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

ORIGINAL

COPY

SIDE TWO

Operator Name Columbian Services Corp Lease Name Nelson A Well # 1
 East County Kingman
 Sec. 3 Twp. 29S Rge. 8W West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Sand</td><td>0</td><td>85'</td></tr> <tr><td>Sand & Shale</td><td>85'</td><td>274'</td></tr> <tr><td>Red Bed</td><td>274'</td><td>700'</td></tr> <tr><td>Shale</td><td>700'</td><td>1,227'</td></tr> <tr><td>Shale & Shells</td><td>1,227'</td><td>1,377'</td></tr> <tr><td>Shale & Lime</td><td>1,377'</td><td>1,752'</td></tr> <tr><td>Shale</td><td>1,752'</td><td>2,040'</td></tr> <tr><td>Lime & Shale</td><td>2,040'</td><td>4,515'</td></tr> <tr><td>Lime, Shale & Chert</td><td>4,515'</td><td>4,525'</td></tr> <tr><td>Sand</td><td>4,525'</td><td>4,595'</td></tr> <tr><td></td><td></td><td>4,595'</td></tr> </tbody> </table>	Name	Top	Bottom	Sand	0	85'	Sand & Shale	85'	274'	Red Bed	274'	700'	Shale	700'	1,227'	Shale & Shells	1,227'	1,377'	Shale & Lime	1,377'	1,752'	Shale	1,752'	2,040'	Lime & Shale	2,040'	4,515'	Lime, Shale & Chert	4,515'	4,525'	Sand	4,525'	4,595'			4,595'
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		4,595'																																				
See Attached Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																					
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					

CASING RECORD RTD New Used Production
 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#	257'	60-40 poz	170	3% cc
Production	7 7/8"	4 1/2"	10.5#	4,307'	50-50 Poz	250	

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4,134 - 4,143	Acidized w/250 gals 15% DSFE acid	

TUBING RECORD Size 2 3/8 Set At 4,082' Packer At N/A Liner Run Yes No

Date of First Production SIWOPL Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	Trace	300	85		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

JAMIE:AO

COPY

NELSON A #1

DST No. 1: 4,139 to 4,152', 30-60-60-60, IF 10" 552 MCF, 20" 840 MCF, 30" 951 MCFD,
FF 10" 1,076 MCF, 30" 1,141 MCFD, -60" 1,141 MCFD, IH 2,088, IF 215-275, ISI 1,375,
FF 339-339, FSI 1,358, FH 2,055, rec'd 250' MCW.

DST No. 2: 4,507 to 4,525, 30-60-30-60, IF stg blw, FF stg blw, IH 2,238, IF
382-565, ISI 902, FF 902-1,074, FSI 1,547, FH 2,217, rec'd 180' MCW, 2,220' GW.

RECEIVED
STATE CORPORATION COMMISSION

APR 17 1990

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

INVOICE
INVOICE



A DIVISION OF HALLIBURTON COMPANY

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
851569	01/05/1990

WELL LEASE NO.	WELL LOCATION	STATE	WELL OWNER
NELSON #1	KINGMAN	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
PRATT	H-30	CEMENT PRODUCTION CASING	01/05/1990
ACCT NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
179025	DICK BUDIG		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			88549

COLUMBIAN SERVICES CORPORATION
BOX 418
DERBY, KS 67037

DIRECT CORRESPONDENCE TO:
SUITE 600
COLORADO DERBY BUILDING
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	40	MI	2.20	88.00
		1	UNT		
001-016	CEMENTING CASING	4302	FT	1,089.00	1,089.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	4.5	IN	32.00	32.00 *
		1	EA		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	83.00	83.00 *
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" 8RD	1	EA	73.00	73.00 *
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	27.50	27.50 *
815.19113					
40	CENTRALIZER 4-1/2" MODEL S-4	10	EA	41.00	410.00 *
807.93004					
018-317	SUPER FLUSH	7	SK	74.00	518.00
504-308	STANDARD CEMENT	125	SK	5.35	668.75 *
506-105	POZMIX A	125	SK	2.79	348.75 *
506-121	HALLIBURTON-GE	4	SK	.00	N/C *
509-968	SALT	1200	LB	.052	62.40
508-291	GILSONITE	1250	LB	.35	437.50 *
507-153	CFR-3	158	LB	3.90	616.20 *
500-207	BULK SERVICE CHARGE	292	CFT	.95	277.40 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	480.56	TMI	.70	336.39 *

RECEIVED
STATE CORPORATION
APR 17 1990
CONSERVATION DIVISION
Wichita, Kansas

INVOICE SUBTOTAL	5,067.89
DISCOUNT - (BID)	
INVOICE BID AMOUNT	4,026.99
*-KANSAS STATE SALES TAX	112.89
*-PRATT COUNTY SALES TAX	26.56
INVOICE TOTAL - PLEASE PAY THIS AMOUNT	\$4,166.44

Nelson #1
Cement - PMO.25
Pratt 4 1/2" Cas & float DC=0
U=1450
R.P. Budig

TERMS INVOICES 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 AN ATTORNEY 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.

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME A-1 NELSON		COUNTY Kingman	STATE KS	CITY / OFFSHORE LOCATION	DATE 1-5-89
CHARGE TO COLUMBIAN SERVICES		OWNER State	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR U-30	LOCATION 1 Kingman KS	CODE 50355	
CITY, STATE, ZIP		SHIPPED VIA	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 Kingman KS	CODE 50320
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO loc	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB 035		ORDER NO. B- 879085	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices 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 an attorney 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. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

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 FOR A PARTICULAR PURPOSE 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, product liability, 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.

PRICE REFERENCE	SECONDARY REF. OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE	40	MIB	1	TRK	2.24	88.00
001-016		1		ROAD CHANGE	4302	FT	1	TRK	935.00 / 115	1089.00
030-016		1		TOP PLUG	1	EA	4 1/2	IN		32.00
12-A	825-201	1		GUIDE SHOE	1	EA	4 1/2	IN		83.00
24-A	815-19101	1		INSERT PLUG	1	EA	4 1/2	IN		73.00
27	815-19113	1		FILL UP UNIT	1	EA	4 1/2	IN		27.50
40	807-95004	1		CENTRALIZERS	10	EA	4 1/2	IN	41.00	410.00
018-317		1		SUPERFLUSH	300	Gal	7	SKS	74.00	518.00

THIS IS NOT AN INVOICE

RECEIVED

APR 17 1990

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 879085**

WAS JOB SATISFACTORILY COMPLETED? Wichita

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X DICK BUDIE
CUSTOMER OR HIS AGENT (PLEASE PRINT)

X L.R. Budie
CUSTOMER OR HIS AGENT (SIGNATURE)

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.

[Signature]
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER _____

SUB TOTAL **2147.39**

5067.89

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

**BULK MATERIALS DELIVERY
 AND
 TICKET CONTINUATION**

FOR INVOICE AND
 TICKET NO: 857569

DATE 1-5-90	CUSTOMER ORDER NO.	WELL NO. AND FARM Nelson A-1.	COUNTY Kingman	STATE Ks.
CHARGE TO Columbian Services		OWNER Same	CONTRACTOR No. B879085	
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 50320	PREPARED BY H.J. Folk
CITY & STATE		DELIVERED TO Location	TRUCK NO. 0977-6660	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
				250 50%permix/50% cement						
504-308	516.00261	2	b	Standard Cement	125	sk.			5.35	668.75
506-105	516.00286	2	b	Permix A	125	sk.			2.79	348.75
506-121	516.00259	2	b	4 Halliburton Gel						NC
509-968	516.00315	2	b	Salt Blended 10%w/250	1200	lb.			.052	62.40
508-291	70.15573	2	b	Gilsonite Blended 5%w/250	1250	lb.			.35	437.50
507-153	516.00161	2	b	GFR-3 Blended .75%w/250	858	lb.			3.90	616.20
				Returned Mileage Charge						
				ADP 1-7-1990						
				SERVICE CHARGE ON MATERIALS RETURNED						
500-207		2	b	CONSERVATION DIVISION SERVICE CHARGE					.95	277.40
500-306		2	b	Mileage Charge	24.028	TON WEIGHT	40	480.56	.70	336.39
No. B 879085						CARRY FORWARD TO INVOICE		SUB-TOTAL		2,747.39

CUSTOMER

JOB LOG

WELL NO. H-1 LEASE NELSON TICKET NO. 851267

CUSTOMER COLUMBIAN SERVICES PAGE NO.

JOB TYPE 4 1/2 LONG STALLING DATE 1-5-90

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0130							Called out READY NOW
	0345							ON LOC - SET UP
	0430							START 4 1/2 CSG TO HOLE
								CENTRALIZERS @ COLLARS #1-2-3-4-6-8-10-12-14
	0637							CASING TO HOLE - DROP BALL
	0645							BREAK CIRCULATION
	0703							FINISH CIRCULATION
								HOOK TO HOWCO CEMENT AS FOLLOWS
	0707	5.0	5.0	-	-		250	PUMP H2O SPACER
	0708	5.4	7.1	-	-		450	PUMP SUPERFLUSH (300 gal)
	0709	5.4	5.0	-	-		500	PUMP H2O SPACER
	0710	7.6	0	-	-		550	START MIXING CEMENT
	0718	7.6	61.4	-	-		500	FINISH MIXING CEMENT
								WASH OUT PUMP & LINES
								RELEASE PLUG
	0722	8.5	0	-	-		500	START DISPLACEMENT
	0730	8.5	68.2	-	-		1000	PLUG DOWN
	0800							JOB COMPLETE
								THANK YOU
								CALL AGAIN
								Doug
								NOTE: HAD 2910.52 10.5#
								1391.87 9.5#
								<u>4302.39 TOTAL</u>
								CS6

APR 17 1990
 CONSERVATION DIVISION
 Wichita, Kansas

WMA 45

BILLED ON TICKET NO. *851569*

WELL DATA
FIELD: _____ SEC: *3* TWP: *29* RNG: *3 W* COUNTY: *Kingman* 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 *4595*

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
	<i>10.5</i>	<i>4 1/2</i>	<i>KB</i>	<i>4302</i>	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE <i>4 1/2</i>	<i>1</i>	<i>Howsco</i>
GUIDE SHOE <i>4 1/2</i>	<i>1</i>	<i>Howsco</i>
CENTRALIZERS <i>5-4</i>	<i>10</i>	<i>Howsco</i>
BOTTOM FLUG		
TOP PLUG <i>5-4</i>	<i>1</i>	<i>Howsco</i>
HEAD <i>PC</i>	<i>1</i>	<i>Howsco</i>
PACKER		
OTHER		

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>5-90</i>	DATE <i>5-90</i>	DATE <i>5-90</i>	DATE <i>1-5-90</i>
TIME <i>0130</i>	TIME <i>0345</i>	TIME <i>0707</i>	TIME <i>0800</i>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-APP _____
DISPL. FLUID _____ DENSITY _____ LB/GAL-APP _____
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 _____ IN _____
PERFPAC BALLS TYPE _____ QTY _____
OTHER _____
OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>D. BIGLER</i>	<i>C1650</i>	<i>Pickup 35748</i>
<i>J. WOODROW</i>	<i>62573</i>	<i>Road Truck</i>
<i>B. FOLKS</i>	<i>D 505T</i>	<i>0977-6400</i>

DEPARTMENT: *Cement*
DESCRIPTION OF JOB: *Cement 4 1/2" production CSK*
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN:
CUSTOMER REPRESENTATIVE: *X L. L. Budge*
HALLIBURTON OPERATOR: *Jim Degan* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDS	YIELD CUFT/SK	MIXED LB/GAL
	<i>250</i>	<i>750 Co</i>	<i>Hows</i>	<i>B</i>	<i>10% Sur, 0.75% CR-3, 5% GILSONITE</i>	<i>1.38</i>	<i>14.08</i>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5 MIN _____ 15 MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ ADD: *7-1990* USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL _____ DIVISION _____
CEMENT LEFT IN PIPE _____
FEET: *39.89* REASON: *HOK*

SUMMARY

PREFLUSH: BBL-GAL *300 ml* TYPE: *SUPERFLUSH*
LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
TREATMENT: BBL-GAL _____ DISPL: BBL-GAL *63.2*
CEMENT SLURRY: BBL-GAL *61.7*
TOTAL VOLUME: BBL-GAL _____
REMARKS: *SEE JOB LOG*
THANKS Doug

CUSTOMER: *OLSON DAW*
SERVICES: *LEAD*
WELL NO: *9-1*
JOB TYPE: *MS L&M S&MS*
DATE: *1-5-90*

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

ATTACH TO INVOICE & TICKET NO. 851569

DISTRICT: Permian KS DATE: 1-5-90

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

WELL NO. A-1 LEASE NELSON SEC. 3 TWP. 29S RANGE 8W

FIELD _____ COUNTY Kingman 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.
FORMATION THICKNESS	FROM TO						
PACKER TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							SHOTS/FT.
INITIAL PROD: OIL _____ EPD: H ₂ O _____ EPD: GAS _____ MCF _____							
PRESENT PROD: OIL _____ EPD: H ₂ O _____ EPD: GAS _____ MCF _____							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
CEMENT 4 1/2 Production CS6 w/ 300 gal SUPERFLUSH Followed
By 2.56 SKS 50/100 P22 CONTAINING 2% TOTAL GEL, 10% SACT
75% CRR-3, 5% GILBERTS W/ ST

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 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.
- 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.

CONSERVATION DIVISION
Wichita, Kansas

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

SIGNED R. R. Budwig CUSTOMER
DATE 1-5-90

NELSON A #1

DST No. 1: 4,139 to 4,152', 30-60-60-60, IF 10" 552 MCF, 20" 840 MCF, 30" 951 MCFD, FF 10" 1,076 MCF, 30" 1,141 MCFD, 60" 1,141 MCFD, IH 2,088, IF 215-275, ISI 1,375, FF 339-339, FSI 1,358, FH 2,055, rec'd 250' MCW.

DST No. 2: 4,507 to 4,525, 30-60-30-60, IF stg blw, FF stg blw, IH 2,238, IF 382-565, ISI 902, FF 902-1,074, FSI 1,547, FH 2,217, rec'd 180¹/₂ MCW, 2,220' GW.

RECEIVED
STATE CORPORATION COMMISSION

APR 17 1990

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

Well File

DAILY DRILLING REPORT
 43-5 BOX 800
 TULSA OK 74121

CONTRACTOR
 H-30 DRILL INC

DATE
 12-23-89

COMPANY
 COLUMBIAN RES. CORP.

LEASE
 NELSON

WELL NO.
 A-1

RIG NO.
 7

DISTRICT
 KING MAN.

STATE
 KS.

D. P. STRING NO.
 1

SIZE
 4 1/2" X-4000

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM ROBERT FULTON	8
						EM TIM ARELL	8
						H RANDY DIXON	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.						
						130MI	
	DEG. OFF					DRLR R. DIXON	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: OLD LOCATION LOAD OUT NOW DOING NEW LOCATION WEST SIDE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0		Run 6 JTS OF NEW 20# 8 1/2 CASING				DM Tim Klusever	12
		TOTAL OF 257' SET. CEM WITH 170 SKS CEM.				EM Steve Sigler	12
		60-40 P2-320CC-2% GEL. PLUG DOWN AT 11:00 PM				H David McMullen	12
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.	12-23-89. JOB BY					
		ALLIED CEM CORP G.R BEND KS.					190 miles
		KCC. CALLED ON 12-22-89. WICHITA KS.				DRLR Baxter R. May	12

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Set seals - Start motors & Rig up - Thaw Rotary Table - 7:00-8:00

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0	274	SAND-SHALE	175	10/20	600	* BOB FULTON	8
		0-85 SAND				* TIM ARELL	8
						* TOM LARKIN	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	0 FT.	MIXED GEL=40 / LIME=30					
	DEG. OFF						
						MILES=212	
						LYLE JVERGENSEN	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT	N	DRILLING	2 1/2	SIZE D. P.	
SIZE	12 1/4	VISC.	A	CORING	1	SIZE COLL.	
MAKE	FOT	WTR. LOSS-C.C.	T 5	OTHER	CIR	JTS. D. P.	FT.
SERIAL NO.	1725	FILTER CAKE	1 1/2	REPAIRS		KELLY DOWN	FT.
DEPTH IN	0	PH.	E D	TRIP PRES.	2.	COLLARS	FT.
HOURS RUN	0-	MTL. ADDED (REMARKS)			2 1/4	TOTAL	FT.

REMARKS: 3:00-5:00 Mix mud / 5:00-5:15 DRILL RAT HOLE & SET / 5:15-8:45 S.P.L.O. / 8:45-9:00 CIR & SET / 9:00-11:00 PIPE JOB & BRK CIR

PRINTED IN U.S.A. APPROVED *mike Thompson* RECEIVED JAN 2 1990 TOOL PUSHER

DAILY DRILLING REPORT
 Form 43-5 BOX 800
 TULSA OK 74101

CONTRACTOR H-30 - ORNG INC.	DATE 12-24-89.
COMPANY COLLUMBIAN RES. CORP.	LEASE NELSON
DISTRICT KINGMAN	COUNTY KS
WELL NO. A-1	RIG NO. 7
D. P. STRING NO. 1	SIZE 4 1/2"

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
274	—					DM LYLE JUERGENSEN	8
						EM TOM LARKIN	8
						H RANDY DIXON	8
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR 170 MILES RALPH - DIXON	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER CEM 1/2		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		WOC. 7 1/2		TOTAL	FT.

REMARKS: 11:00-11:30 CEM. 8 1/2 SET PITS. 11:30 - 700 L.O.C. CUT DRIG LINE 60'.
 DRAG UP RIG FOR X-MAS. PICK UP - GET UP PIPE - TAIL IN JOINT.
 PIVE DOWN AT 11:30 PM - 12-23-89.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Tim Klusever	2
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR 190 miles Roxter R. Mat	2

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

RE: Check everything out - knock loose valves & Bottom Taps
 Down. Alcohol Air System & D.W. Oiling System.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM	
						EM	
						H	
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	FT.						
DEG. OFF						DRLR NO WORK TODAY	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS **DRY & FF.**

CONTRACTOR H-30- DRWG INC.	DATE 12-28-89.
COMPANY CCL RES. CORP	LEASE NELSON
DISTRICT —	WELL NO. A-1
COUNTY KINGMAN	RIG NO. 7
STATE KS	D. P. STRING NO. 1
	SIZE 4 1/2"

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM	
						EM	
						H	
						H	
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	FT.						
	DEG. OFF						

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
274	7:00	RED-BEAS	190	10/25	600	DM FLINT RUCKER	12
						EM KELLY SICKWELL	12
						H GARY RUCKER	12
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	FT.	MUD = RC-MUD-MIXED					
	DEG. OFF					H	
						DRLR MIKE TAARP	12

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	4	DRILLING	274	SIZE D. P.	
SIZE	7 1/2	VISC.	A	CORING	1	SIZE COLL.	
MAKE	SOS	WTR. LOSS-C.C.	T	OTHER		JTS. D. P.	FT.
SERIAL NO.	K28418	FILTER CAKE	E	REPAIRS	3	KELLY DOWN	41' 00" FT.
DEPTH IN	274	PH.	R	TRIP		COLLARS	FT.
HOURS RUN	6-27	MTL. ADDED (REMARKS)		START UP	3 1/2	TOTAL	FT.

REMARKS: 7:00 - 10:30 - START UP RIG + ETC PUMP WATER / 10:30 - 11:15 PULVES + CEM. / 11:15 - 3:00 DRLG

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
700	1227	SHALES	200	29 1/2	650	DM Gerald Hankin	4
1227	1377	SHALES - Shells	85	20/25	850	EM Joe Whiting	4
						H Tom Hankin	4
SLOPE TEST		ACCIDENT:— (GIVE NAME)					
@	1349 FT.	MUD - MIXED = 20- GEL. FLUSHING					
	DEG. OFF					H	
						DRLR Kyle Juergensen	4

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	4	DRILLING	134	SIZE D. P.	1 1/2
SIZE	7 1/2	VISC.	A	CORING	1	SIZE COLL.	2 1/2
MAKE	SOS	WTR. LOSS-C.C.	T	OTHER		JTS. D. P.	OK FT.
SERIAL NO.	K28418	FILTER CAKE	E	REPAIRS		KELLY DOWN	4 FT.
DEPTH IN	274	PH.	R	TRIP		COLLARS	1 FT.
HOURS RUN	6 1/4	MTL. ADDED (REMARKS)				TOTAL	1 1/2 FT.

REMARKS: 3:00 - 7:00 DRLG w/ 1/2 OFF CUNT / 7:00 - 8:45 DRLG; 8:45 - 10:30 Jct 1 pt Make Bit Trip @ 1349. Bit Rot 1075' in 6 1/4. Flush hole w/ 1 1/2 balls prior to Trip. 10:30 - 11:00 Drlg



DAILY DRILLING REPORT
 43-5 BOX 800
 TULSA OK 74101

CONTRACTOR: **H-30 Drilling Co Inc** DATE: **12-29-89**
 COMPANY: **Columbia Resources Inc** LEASE: **NELSON** WELL NO.: **A-1** RIG NO.: **7**
 DISTRICT: COUNTY: **KM** STATE: **KS** D. P. STRING NO.: SIZE:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1377	1752	Shale ^{1/2} Lime STKS	80/90	20/30	850	* Gerald Larkin	8
						* Joe Whiting	8
						* Tom Larkin	8
SLOPE TEST @ FT.		ACCIDENT: - (GIVE NAME)		5' @ BROKIN			
DEG. OFF		Frac Tank Full - OK THANKS		Went home on short change - 106 miles			
				DRLR hyle Juergensen			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	W	DRILLING	6 1/2	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	a	OTHER	1 1/2	SIZE COLL.	2
MAKE	HTC J-225	WTR. LOSS-C.C.	T	REPAIRS		JTS. D. P.	3
SERIAL NO.	FO74-J	FILTER CAKE	e	TRIP		KELLY DOWN	4
DEPTH IN	1349	PH.	r			COLLARS	
HOURS RUN	7	MTL. ADDED (REMARKS)				TOTAL	

REMARKS: 11⁰⁰-17⁰⁰ Only FUEL-28"

Flush hole ^{1/2} @ 25 bbls @ 1550 JER PITS OFTEN

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1752	2040	Shales	80/90	30,000	900	DM DAVID Holloway	8
						EM Jim Casper	8
						H BRANTON Petty	8
SLOPE TEST @ FT.		ACCIDENT: - (GIVE NAME)		1/2 SK Lime			
DEG. OFF				DRLR ALAN LESLIE			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	W	DRILLING	6 3/4	SIZE D. P.	1 1/2 6 1/2
SIZE	7 7/8	VISC.	a	CORING		SIZE COLL.	2 1/2
MAKE	HTC J-225	WTR. LOSS-C.C.	T	OTHER	1 1/4	JTS. D. P.	3 1/2
SERIAL NO.	FO74-J	FILTER CAKE	e	REPAIRS		KELLY DOWN	4 1/2
DEPTH IN	1349	PH.	r	TRIP		COLLARS	1/2
HOURS RUN	13 3/4	MTL. ADDED (REMARKS)				TOTAL	

REMARKS: (7:00-3:00 Delq.) w 1/4 hr CONN, 1/2 Rig & 1/2 Jet

LETth @ 1846 @ 2034 Flushed Hole @ 1878 w 1/4 bbls Mud

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2040	23 1/2	Lime-Shale	80/85	35/25	850	DM Gerald Larkin	8
						EM Joe Whiting	8
						H Tom Larkin	8
SLOPE TEST @ FT.		ACCIDENT: - (GIVE NAME)		Mix - 20 Gel - Flush			
DEG. OFF				DRLR hyle Juergensen			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	W	DRILLING	6 1/2	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	a	OTHER	1 1/2	SIZE COLL.	2 1/2
MAKE	HTC J-225	WTR. LOSS-C.C.	T	REPAIRS		JTS. D. P.	3 OK
SERIAL NO.	FO74-J	FILTER CAKE	e	TRIP		KELLY DOWN	4 OK
DEPTH IN	1349	PH.	r			COLLARS	
HOURS RUN	20 1/4	MTL. ADDED (REMARKS)				TOTAL	

REMARKS: 3⁰⁰-3³⁰ Only, 3³⁰-3⁴⁵ - Big Serv, 3⁴⁵-11⁰⁰ Only

Flush hole @ 2200 7 bbls. Jer Pits

DAILY DRILLING REPORT
 BOX 800
 TULSA OK 74101

CONTRACTOR H-30 Drly Co Inc	DATE 12-30-89
COMPANY Columbia Resources	WELL NO. A-1
LEASE NELSON	RIG NO. 7
DISTRICT	D. P. STRING NO.
COUNTY NM	STATE KS
	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2372	2670	LIME SHALE	8 1/4 / 45	2 1/2 / 35	700	DM ROBERT FLITON	8
						EM TIM ARELL	5
						H RANDY DIXON	8
SLOPE TEST		ACCIDENT: - 10 GEI	FIXED TO CID 170 MI DRLR P E DIXON				
@	FT.						
DEG. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING	7	SIZE D. P.	1 1/2
SIZE	7 1/8	VISC.		CORING		SIZE COLL.	2 OK
MAKE	HTC J-22 J	WTR. LOSS-C.C.		OTHER	1	JTS. D.P.	OK FT.
SERIAL NO.	F074 J	FILTER CAKE		REPAIRS		KELLY DOWN	4 OK FT.
DEPTH IN	1349	PH.		TRIP		COLLARS	FT.
HOURS RUN	27 1/4	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: SER RIG. AND 9 JETAN 21 - 2536 40 BBL FLSH. JET 2659

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2670	2990	LIME & SHALES	10 1/2 / 35	30 / 35	900	DM DAVID HOLLOWAY	8
		No Mud MIXED				EM JIM CASPER	8
						H BRANDON PERRY	8
SLOPE TEST		ACCIDENT: - FUEL START 13'	80 mi (NEW loading line on #1 PIPE BASKET)				
@	FT.	FINISH 62'					
DEG. OFF							
					DRLR ALAN LESLIE	8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	WATER	DRILLING	6 1/2	SIZE D. P.	1 1/2 GAL
SIZE	7 1/8	VISC.		CORING		SIZE COLL.	2 1/2
MAKE	HTC J-225	WTR. LOSS-C.C.		OTHER	1 1/2	JTS. D.P.	3 1/2 FT.
SERIAL NO.	F074 J	FILTER CAKE		REPAIRS		KELLY DOWN	4 1/2 FT.
DEPTH IN	1349	PH.	R	TRIP		COLLARS	FT.
HOURS RUN	33 3/4	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: (7:00 - 3:00 Drly.) (W 1 1/2 hr Contd v Rig & Jetting)

(JET #1 @ 2721 & 2967) (Flushed hde @ 2850 w 4 bbls FUEL 14")

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2990	3232	Lime-Shale	8 5/8 / 90	25 / 35	900	DM GENARO LARKIN	8
						* JIM CASPER	8
						H TOM LARKIN	8
SLOPE TEST		ACCIDENT: - MIX 3/4 GEL 2 COUSTIC 2 S. BSH	2 Q BROWN 2 1/2 17143				
@	FT.						
DEG. OFF							
					DRLR hyle Juergensen	8	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	W 89	DRILLING	6 1/2	SIZE D. P.	1 OK
SIZE	7 1/8	VISC.	a 36	CORING	1	SIZE COLL.	2 1/2
MAKE	J-225	WTR. LOSS-C.C.	T 10 1/4	OTHER		JTS. D.P.	3 1/2 FT.
SERIAL NO.	F074 J	FILTER CAKE	e 1	REPAIRS		KELLY DOWN	4 OK FT.
DEPTH IN	1349	PH.	r 10 5	TRIP		COLLARS	FT.
HOURS RUN	40 1/4	MTL. ADDED (REMARKS)		Displace	1/2	TOTAL	OK FT.

REMARKS: 3:00 - 3:15 No Ser. 3:15 - 3:45 Drly. 5:15 - 6:45 Displace Mud White Drilling. 6:45 - 11:00 Drly

DAILY DRILLING REPORT
 FORM 43-5 BOX 800
 TULSA OK 74101

CONTRACTOR H-30 DRIG INC.	DATE 12-31-89
LEASE NELSON	WELL NO. A1
COMPANY COLUMBIA RESOURCES	RIG NO. 7
DISTRICT KINGMAN	D. P. STRING NO.
COUNTY KAN	STATE KAN
STATE	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3232	3465	LIME & SHALE	85	30/35	900	DM ROBERT FUITON	8
						EM TIM ARELL	8
						H RANDY DIXON	8
SLOPE TEST		ACCIDENT: - 25 GEL 1 SODASH 1 CAUSTIC					
@ 3340 FT.		1 GARDIN PREMIX					
3/4 DEG. OFF						170 mi	
						R. E. DIXON	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	87 89	DRILLING	5	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	36 36	DRILLING CORR	3/4	SIZE COLL.	2 OK
MAKE	J-225	WTR. LOSS-C.C.	1.85 1.44	OTHER		JTS. D. P.	0.4 FT.
SERIAL NO.	F0	FILTER CAKE	1.32	REPAIRS		KELLY DOWN	4 0.4 FT.
DEPTH IN	1349	PH.	9.5 9.5	TRIP	CF 3305 1	COLLARS	FT.
HOURS RUN	45 1/4	MTL. ADDED (REMARKS)		CF 3246	1 1/4	TOT FUEL	51 FT.

REMARKS: SERVIC 3246 C.F. 3246 FIX DOG HOUSE HEATER - 1225 TO 135 - 135 TO 305 DAIL
 305 TO 405 C.F. 3305 - FLUSH HOLES 3462

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3465	3625	Lime & shale	85	30/35	900	DM DAVID HOLLOWAY	8
						EM JIM CASPER	8
						H BRANDON PETTY 80 mi	8
SLOPE TEST		ACCIDENT: - GEL 3/25, Caustic 1, Soda Ash 1, Q BEDKIN 1					
@ FT.							
DEG. OFF						ALAN LESLIE	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	91 913 91	DRILLING	7	SIZE D. P.	1 1/2 GAL
SIZE	7 7/8	VISC.	40 45 43	CORING		SIZE COLL.	2 1 GAL
MAKE	J-225	WTR. LOSS-C.C.	9.6	OTHER	1	JTS. D. P.	1/2 GAL
SERIAL NO.	F074J	FILTER CAKE	2.62	REPAIRS		KELLY DOWN	4 1/2 GAL
DEPTH IN	1349	PH.	11.0	TRIP		COLLARS	FT.
HOURS RUN	52 1/4	MTL. ADDED (REMARKS)				TOTAL FUEL	51 FT.

REMARKS: (7:00 - 3:00 DRIG.) (W Lbr. CONN 1 RIG SET #1 @ 3494')

(Added Tank Premix)

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3625	3785	Lime Shale	85	30/35	900	DM GERRID LARKIN	8
						EM TOM LARKIN	8
						H BRANDON PETTY	8
SLOPE TEST		ACCIDENT: - ADD 1/2 Lbr 1/2 Caustic - Flow Time					
@ FT.							
DEG. OFF						212 1 MILES Lyle Juergensen	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	91 913 91	DRILLING	7 1/4	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	43 43 45 45	DRILLING CORR	3/4	SIZE COLL.	2 OK
MAKE	J-225	WTR. LOSS-C.C.	7.6 10 11 12	OTHER		JTS. D. P.	3 1/2 FT.
SERIAL NO.	F074J	FILTER CAKE	2 22 3	REPAIRS		KELLY DOWN	4 1/2 FT.
DEPTH IN	1349	PH.	11 19 10	TRIP		COLLARS	FT.
HOURS RUN	59 1/2	MTL. ADDED (REMARKS)				TOTAL FUEL	1/2 FT.

REMARKS: 3" - 4 1/2" Drig. 4 1/2" - 4 3/4" Rg. Saw. 4" - 11" Drig.
 APR 17 1990

DAILY DRILLING REPORT
 43-5 BOX 800
 TULSA OK 74101

CONTRACTOR
 H-30 Drlg. Co.

DATE
 1-1-90

COMPANY
 Columbian Resources

LEASE
 Nelson

WELL NO.
 A-1

RIG NO.
 7

DISTRICT
 Kingman

COUNTY
 Kansas

D. P. STRING NO.
 1

SIZE
 4 1/2"

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3785	3913	Lime & Shale	85	30/35	900	DM Robert Fulton	8
						EM Brian Riggs	8
						H Robert Fulton Jr.	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		Mixed - 25 gal - 1 caustic			
@	FT.	1 @ Broxin - 1 Soda Ash					
DEG. OFF		1 Caustic threw Chm. BBL.		DRLR Tim Arcell 108 miles			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.3 9.3 9.3 9.3	DRILLING	5 1/4	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	39 40 38 40	CORING		SIZE COLL.	2 OK
MAKE	J-225	WTR. LOSS-G.C.	12.8 12.8 13.6	OTHER	1/2	JTS. D.	3 OK FT.
SERIAL NO.	F0745	FILTER CAKE	3/2 3/2 3/2 3/2	REPAIRS		KELLY DOWN	4 OK FT.
DEPTH IN	1349	PH.	9 9 9 9	TRIP		COLLARS	FT.
HOURS RUN	6 4 3/4	MTL. ADDED (REMARKS)	C.F.S.	2 1/4	TOTAL	FT.	

REMARKS: 11:00 - 11:45 Drlg 11:45 - 12:00 Vrig Jet #2 12:00 - 2:15 Drlg 2:15 - 3:30 C.F.S.
 3:30 - 4:15 Drlg 4:15 - 5:15 C.F.S. 5:15 - Drlg
 C.F.S. @ 3849 @ 3883 Jet #2 @ 3801 Add Mud @ 3802

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3913	4040	Lime & Shale	85	35,000	900	DM David Holloway	8
						EM Jim Casper	8
						H BRANDON PETTY 80mi	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		Gal 15, Caustic 1			
@	FT.	Soda Ash 1, 2 Broxin 1					
DEG. OFF		Hulls 10		DRLR ALAN LESLIE			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.3 9.3 9.3	DRILLING	7 1/2	SIZE D. P.	#1 1/2 GAL
SIZE	7 7/8	VISC.	40 51 45	CORING		SIZE COLL.	#2 1/2 GAL
MAKE	J-225	WTR. LOSS-G.C.	14 8.3	OTHER	1/2	JTS. #3	1/2 GAL
SERIAL NO.	F0745	FILTER CAKE	3/2 3/2	REPAIRS		KELLY DOWN	#4 1/2 GAL
DEPTH IN	1349	PH.	9.0 10.0	TRIP		Light Comp	OK FT.
HOURS RUN	7 2 1/4	MTL. ADDED (REMARKS)	1 1/2	TOTAL			FT.

REMARKS: (7:00 - 3:00 Drlg.) (w 1/2 hr. Conn Jet #1/Rig)

(Jet #1 @ 3956 & Add Tank of Premix) FUEL 34

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4040	4148	Lime - Shale	85	35,000	900	DM Gerald Larkin	8
						EM Tom Larkin	8
						* ALAN LESLIE	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		Add 5 Hulls			
@	FT.			3			
DEG. OFF				DRLR Lyle Juergensen			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.3 9.3 9.3	DRILLING	6 @ ?	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	45 46 46	CORING	1/2	SIZE COLL.	2 OK
MAKE	J-225	WTR. LOSS-G.C.	12.4 10.4 12	OTHER		JTS. D.	3 OK FT.
SERIAL NO.	F0745	FILTER CAKE	2 2 2	REPAIRS	Pump 1/2	KELLY DOWN	4 OK FT.
DEPTH IN	1349	PH.	10 10 10	TRIP		COLLARS	FT.
HOURS RUN	7 8 1/4	MTL. ADDED (REMARKS)	C.F.S. 4148	1	TOTAL		FT.

REMARKS: 3:00 - 3:25 Drlg 3:25 - 4:00 Run Saw 4:00 - 9:30 Drlg 9:30 - 10:30 C.F.S. @ 4148 10:30 - 11:00 WACK ON
 No pump Glass Rubber 1990

CONTRACTOR: H-30 Drilg Co. DATE: 1-2-90
 COMPANY: Columbian Resources LEASE: Nelson
 WELL NO.: A-1 RIG NO.: 7
 DISTRICT: Kingman COUNTY: Kingman STATE: Kansas

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4178	4152	Lime - Shale	85	35 ⁰⁰	900	DM Robert Fulton	8
4152	DST#1					EM Brian Riggs	8
						H Robert Fulton Jr.	8
SLOPE TEST		ACCIDENT - (GIVE NAME) DST#1					
@ 4152 FT.		4139 - 4152					
1° DEG. OFF		Miss.				DRLR Tim Groll 108 miles	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	2	WEIGHT	92	DRILLING		SIZE D. P.	1 OK
SIZE	7 1/2	VISC.	46	CORING		SIZE COLL.	2 OK
MAKE	J-22 S	WTR. LOSS-C.C.	11.2	OTHER	1/2	JTS. D. P.	3 1/4 gal. FT.
SERIAL NO.	F074J	FILTER CAKE		REPAIRS		KELLY DOWN	4 1/4 gal. FT.
DEPTH IN	1349	PH.	9	TRIP	4 1/2	COLLARS	FT.
HOURS RUN	78 1/4	MTL. ADDED (REMARKS)		C.F.S.	3 hrs	TOTAL	FT.

REMARKS: 11:00 - 11:30 changed gland rubbers on pump 11:30 - 12:00 C.F.S. @ 4148 12:00 - 12:05 Ddg 12:05 - 1:30 C.F.S. 1:30 - 2:15 Short Trip 2:15 - 3:15 C.T.G. H. 3:15 - 5:30 Trip Out DST#1 5:30 - 7:00 Make up tool trip in.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4152		Miss				DM David Holloway	8
		DST #1 (30-60-60-60)				EM Jim Casper	8
		4139-4152				H BRANSON PERRY 80mi	8
SLOPE TEST		ACCIDENT - (GIVE NAME) Pipe Stomp	4175.24 Board				
@ FT.			4174.49 Stomp				
DEG. OFF			75 Diff			DRLR ALAN LESLIE	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING		SIZE D. P.	#1
SIZE	7 1/2	VISC.		CORING		SIZE COLL.	#2
MAKE	J-22 S	WTR. LOSS-C.C.		OTHER		JTS. D. P.	#3 FT.
SERIAL NO.	F074J	FILTER CAKE		REPAIRS		KELLY DOWN	#4 FT.
DEPTH IN	1349	PH.		TRIP	3 1/2	COLLARS	Light collar FT.
HOURS RUN	79 1/4	MTL. ADDED (REMARKS)		DST#1 -	8.	TOTAL FUEL	21" FT.

REMARKS: (7:00 - 11:15 Testing) (11:15 - 12:45 POH w/DST#1 Break & Lay down tool) 1:00 - 3:00 Trip in w/ Bit

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4152	4300	Lime - Shale	60/85	20/35	900	DM Gerald Larkin	8
						EM Tom Larkin	8
						H Jim Ruble	8
SLOPE TEST		ACCIDENT - (GIVE NAME) 1ST TANK Mix kaustic, 1 Soda, 1 lig, 25 Gal, 10 hulls					
@ FT.		FUEL = 19"	R ADD TO SYSTEM				
DEG. OFF		FUEL = 61"	2ND TANK kaustic, 1 lig, 1 Soda, 30 Gal			DRLR Kyle Juergensen	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	91 93 95	DRILLING	5	SIZE D. P.	1 OK
SIZE	7 1/2	VISC.	50 42 36 30	CORING	1/2	SIZE COLL.	2 1
MAKE	J-22 S	WTR. LOSS-C.C.	12 11 12 11	OTHER		JTS. D. P.	3 1/2 FT.
SERIAL NO.	F074J	FILTER CAKE	2 2 2 2	REPAIRS	1/2	KELLY DOWN	4 1/2 FT.
DEPTH IN	1349	PH.	10 10 9 10	TRIP		COLLARS	FT.
HOURS RUN	83 1/4	MTL. ADDED (REMARKS)		OTEM 4152	1	TOTAL Liteplait	1/2 FT.

REMARKS: 3:00 - 4:00 Cure To Clean hole 4:00 - 7:00 Ddg 7:00 - 8:00 C.F.S. @ 4267. 8:45 - 11:00 Ddg

DAILY DRILLING REPORT

43-5 BOX 800 TULSA OK 74101

CONTRACTOR

H-30 Drilg. Co.

DATE

1-3-90

COMPANY

Columbian Resources

LEASE

Nelson

WELL NO.

A-1

RIG NO.

7

DISTRICT

COUNTY

Kingman

STATE

Kansas

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.	
4300	4354	Lime - Shale	80/35	30/35 ⁰⁰⁰	900	DM	Robert Fulton	8	
4354	4410	Shale	80	30/35 ⁰⁰⁰	900	EM	Brian Riggs	8	
						H	Robert Fulton Jr.	8	
SLOPE TEST		ACCIDENT: - (GIVE NAME)		20-6-1 10-Hulls		H			
@	FT.								
DEG. OFF									
						DRLR	Tim Arell	105 miles	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	93 94 93	DRILLING	7 1/2	SIZE D. P.	#1 OK
SIZE	7 7/8	VISC.	40 35 40	CORING		SIZE COLL.	#2 OK
MAKE	J-225	WTR. LOSS	10.8 12 12	OTHER CORR	1/4	JTS. #3	OK FT.
SERIAL NO.	F074J	FILTER CAKE	3/32 3/32 3/32	REPAIRS		KELLY DOWN	#4 OK FT.
DEPTH IN	1349	PH.	95 85 85	TRIP		COLLARS	FT.
HOURS RUN	90 3/4	MTL. ADDED (REMARKS)	Suck up Mud 1/4			TOTAL	FT.

REMARKS: 11:00-12:15 Drilg. 12:15-12:30 Vrig 12:30-2:30 Drilg. 2:30-2:45 Suck up P. & Mud 80 BBL. 2:45-7:00 Drilg.

P & Mud 80 BBL @ 4358

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
4410	4515	Lime & Shale	40/85	35,000	900	DM	David Holloway	8
						EM	Jim Casper	8
						H	BRANDON PEHY 80m.	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		GEL-35, 5A-1		H		
@	FT.	Cauda - I, @ Broxin 1						
DEG. OFF		Hulls - 15						
						DRLR	ALAN LESLIE	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	94 94 93	DRILLING	6 1/4	SIZE D. P.	#1 1/2
SIZE	7 7/8	VISC.	40 45 50	CORING		SIZE COLL.	#2 OK
MAKE	H.T.C.	WTR. LOSS	12.0 12.0 10.4	OTHER CORR	1/2	JTS. #3	1/2 FT.
SERIAL NO.	F074J	FILTER CAKE	3/32 3/32 3/32	REPAIRS		KELLY DOWN	#4 1/2 FT.
DEPTH IN	1349	PH.	8.5 8.5 9.5	TRIP		Light Fuel	OK FT.
HOURS RUN	97	MTL. ADDED (REMARKS)	2# CES		1/4	TOTAL FUEL	52" FT.

REMARKS: (7:00-12:45 Drilg. w 1/4 hr CORR & Vrig) (12:45-1:00 clet #1 & Add Premit) (1:00-2:15 CES @ 4504) (2:15-3:00 Drilg.)

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
4515	4525	Lime - Shale - Chert	80	35000	900	DM	Gerald Larkin	8
						EM	Tony Larkin	8
						H	Tim Ruble	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		3		H		
@	FT.							
DEG OFF		ADD 5-Hulls						
						DRLR	Wyle Jurgensen	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	93 93	DRILLING	1/4	SIZE D. P.	1 OK
SIZE	7 7/8	VISC.	50 45	DRILL CORR	1/4	SIZE COLL.	2 1/2
MAKE	J-225	WTR. LOSS - C.C.	10 10 1	OTHER		JTS. D. #3	OK FT.
SERIAL NO.	F074J	FILTER CAKE	2 2	REPAIRS		KELLY DOWN	4 1/2 FT.
DEPTH IN	1349	PH.	9.5 9.5	TRIP	DST #2 4 3/4	COLLARS	FT.
HOURS RUN	97 1/4	MTL. ADDED (REMARKS)	CES 4525 - 2 3/4			TOTAL	Light plant 1/2 FT.

REMARKS: 3:00-3:15 Drilg. 3:15-3:20 CES @ 4525. 6:00-11:00 DST #2 (4507-4525) Strong blow. 30-45

APR 17 1990

RECEIVED

PRINTED IN U.S.A.

CONVENTION APPROVED Wichita, Kansas

Mike Thompson

JAN 8 1990 VEA pi TOOL PUSHER

DAILY DRILLING REPORT

BOX 800
TULSA OK 74101

CONTRACTOR H-30	DATE 1-4-90
COMPANY Columbian Resources	LEASE Nelson
DISTRICT	WELL NO. A-1
COUNTY Kingman	RIG NO. 7
STATE KANSAS	D. P. STRING NO. 1
	SIZE 4 1/2"

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4525						Robert Fulton	8
		D.S.T. #2 Viola				Brian Riggs	8
		(4507 - 4525) - 2400' SALT WATER P.				Robert Fulton Jr.	8
SLOPE TEST		ACCIDENT: - (GIVE NAME) CHANGE OUT 4 1/2 SLIP RIES					
@	FT.						
DEG. OFF						DRLR Tim Arell 10 miles	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING		SIZE D. P.	#1 OK
SIZE	7 7/8	VISC.		CORING		SIZE COLL.	#2 OK
MAKE	J225	WTR. LOSS-C.C.		OTHER		JTS. #3	2991 FT.
SERIAL NO.	F0745	FILTER CAKE		REPAIRS		KELLY DOWN #4	2991 FT.
DEPTH IN	1349	PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 11:00-12:45 D.S.T. #2 12:45-3:45 Trip out, Lay down tool REC. OUT 2400' SALT WATER.
3:45-6:30 TRIP IN w. BIT + BRK CIR / 6:30-7:00 CIR HOLE.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4525	4495	SIMPSON SAND	80/85	35,000	900	DM Jim CASPER	8
						EM BRANDON PETHY 80mi	8
						* Tim ARELL	8
SLOPE TEST		ACCIDENT: - (GIVE NAME) TD = BT 11:45 AM 1-4-90					
@	FT.						
DEG. OFF						DRLR ALAN LESLIE	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	#3	WEIGHT	9.3 9.3 9.3	DRILLING	3 1/2	SIZE D. P.	#1 1/2 991
SIZE	7 7/8	VISC.	48 52 52	CORING		SIZE COLL.	#2 1/2 991
MAKE	HL J-22 S	WTR. LOSS	12.0 11.0 11.0	OTHER	CONN 1/4	JTS. #3	OK FT.
SERIAL NO.	F0745	FILTER CAKE	3/32 3/32 3/32	REPAIRS	Circ	KELLY DOWN #4	OK FT.
DEPTH IN	1349	PH.	8.5 10.0	TRIP	2 1/2 1 3/4	COLLARS	FT.
HOURS RUN	100 3/4	MTL. ADDED (REMARKS)				TOTAL FUEL	47" FT.

REMARKS: (7:00-7:15 CATCH HOLE) (7:15-8:30 Delq.) (8:30-9:15 CFS @ 4550)
(9:15-11:45 Delq.) (11:45-1:15 Circ. f/LOG) (1:15-3:00 POH f/LOG)

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4595	TD					DM GRENLO HARKIN	8
						EM TOM HARKIN	8
						H JIM RUBLE	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)					
@	FT.	Clean Screen on Pump - Plugged					2 1/2 miles
DEG. OFF						DRLR Lyle Juergensen	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	1 OK
SIZE		VISC.		CORING		SIZE COLL.	2 OK
MAKE		WTR. LOSS-C.C.		OTHER	Wob 1/2	JTS. D. #3	OK FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN #4	1/2 FT.
DEPTH IN		PH.		TRIP	OUT - 2 1/4	COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)			Logging - 5 1/4	TOTAL PLANT	OK FT.

REMARKS: 3:00-3:30 Finish Trip out Log 3:30-4:00 Wait on loggers. 4:00-4:30 Logging, Jet Collar - 1hr 5min
9:00-10:00 Go in hole w/ D. P. 11:00 CATCH For Pipe Job

APR 11 1990 RECEIVED
JAN 9 1990
TOOL PUSHER VE PC

PRINTED IN U.S.A.
CONSERVATION APPROVED
Wichita, Kansas

Mike Jones

DAILY DRILLING REPORT

43-5 BOX 800 TULSA OK 74101

CONTRACTOR

Columbian Resources

DATE

1-5-90

COMPANY

H-30 Orla, Co.

LEASE

Nelson

WELL NO.

A-1

RIG NO.

7

D. STRICT

COUNTY

Kingman

STATE

Kansas

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
4595	T.D.	Run 107 JTS used	4 1/2"	W 5# casing		DM	Robert Fulton	8
		SET AT 4307. Perm w 250 SAS 50-50 - PIZ-Mix				EM	Brian Riggs	8
		PLUG DOWN AT 7:30 AM. 1-5-90.				H	Robert Fulton Jr.	8
		SLOPE TEST				H		
		ACCIDENT: (GIVE NAME)	JOB BY HUNCO. PRATKS.			H		
@	FT.							
		DEG. OFF						
						ORLR	Tim Arell 108 miles	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		C.T.C.H. 1 1/2		TOTAL	FT.

REMARKS: 11:00 - 12:15 C.T.C.H. - 12:15 - 3:15 Lay down pipe 3:15 - 4:15 Collar work + rig up casing crew 4:15 - 6:30 run 4 1/2 Long string 6:30 - 7:00 Cement

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
						DM	JIM CASPER.	8
						EM	BRYAN THOM.	8
						H	BRANDON PETTY.	8
						H	80 MILES	
						ORLR	ALAN LESLIE	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER T-Down 7 1/2		JTS D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		CEM. 1/2		TOTAL	FT.

REMARKS: 7:00 - 7:30 - CEM 4 1/2 CASING / 7:30 - 3:00 - TEAR DOWN RIG

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
						DM		
						EM	NO	
						H	WORK	
						H	TODAY	
						ORLR		

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: OFF STATE CORPORA

APR 17 1990