



DATE: 9/15/80

DRILLING PROGRAMRECEIVED
SEP 25 1980
COLO. OIL & GAS CONS. COMM.

WELL NAME: COOK #7-7

LOCATION: Ctr SW/4, Sec. 7 T33S-R43W

DIRECTIONS TO LOCATION: Approximately 11.5 miles southeast of Walsh, Colorado

OBJECTIVE (Formation & Depth): Topeka @ 3600'

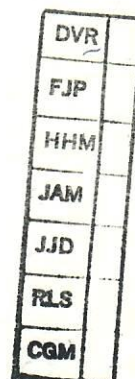
ELEVATION: KB _____ GL _____

CONTRACTOR: Wakefield Oil DAYWORK FOOTAGE X

CASING PROGRAM

	DEPTH	WEIGHT	GRADE	JOINT	DESIGN SAFETY FACTOR		
					COLLAPSE	TENSION	BURST
CONDUCTOR:	11-3/4 40'-60'	42#	H-40	STC	--	--	--
SURFACE:	8-5/8 400'	24#	K-55	ST&C	6.85	25.4	13.0

PROTECTION:



LINER:

PRODUCTION:	4-1/2 3600'	9.5#	K-55	STC	2.02	3.04	2.67
TUBING:	2-3/8 3550'	4.7 #	K-55	EUE	6.13	5.75	3.53

CEMENT PROGRAM

	TOP	AMOUNT	TYPE CEMENT	SLURRY WT.	WOC TIME
SURFACE:	Circulate	100% Excess	Class "G" w/2% Gel & 1/4# flocele	14.8	8

PROTECTION:

LINER:

PRODUCTION:	2600'	+450 sks	50/50 Poz w/10% Salt & 1% CFR-2	14.4	12
2nd Stage	2000'-1100'	+450 sks	50/50 Poz w/10% Salt & 1% CFR-2	14.4	12

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BIT PROGRAM

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<u>BIT NO.</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTHS</u>	<u>FEET</u>	<u>HRS.</u>	<u>ACCUM.</u> <u>HRS.</u>	<u>BIT</u> <u>WT.</u>	<u>RPM</u>	<u>GPM</u>	<u>A/V</u>	<u>N/V</u>
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Footage Contract - Bits to be determined by drilling contractor.

Hole Size: 0-400' 12-1/4
400-3600 7-7/8

DVR	
FJP	
HHM	
JAM	
JJD	
RLS	
CGM	

MUD TREATMENTS-MECHANICAL EQUIPMENT-REMARKS

DEPTH INTERVALS:

DISCUSSION

0-400'	Spud mud. Gel and lime necessary to clean hole.
400-2000'	Drill with water. Check for anhydrite contamination and treat with soda ash if necessary. Lost circulation possible from 1200'-1600'. Control with fiber and hulls. Control pump rate to minimize erosion.
2000'-3600'	Build system with gel, CMC and lignite. Add soda ash if anhydrite contamination elevates chlorides above 20,000 ppm. Maintain mud weight at ± 9.0 ppg and viscosity at 30-35. Reduced water loss below 8 cc's before 2055'. Raise viscosity to 45-50 for testing and logging.

DEVIATION CONTROL

<u>DEPTH INTERVAL</u>	<u>DISTANCE SURVEYS</u>	<u>MAXIMUM DEVIATION</u>	<u>MAXIMUM CHANGE</u>
0-400'	150	1°	1° per 100'
400-3600'	500	5°	1° per 100'

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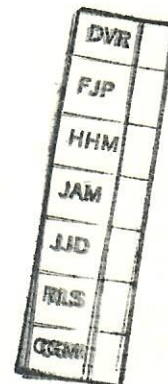
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DRILLING PROGRESS/COST

COLD. OIL & GAS CONS. COMM.

<u>DEPTH INTERVAL</u>	<u>DAYS</u>	<u>COST</u>	<u>EXPECTED PROBLEMS</u>
0-400'	2		None
400-3600'	10		Possible lost circulation in Glorietta Ss from ± 1200 to 1600'. Also possible water flow in Glorietta Ss.



FORMATION EVALUATION PROGRAM

FORMATION TOPS:

Stone Corral	1568	(+2437)
Red Cave Ss	1587	(+2418)
Neva	2765	(+1240)
Waubunsee	3015	(+ 990)
Topeka "A"	3113	(+ 892)
Topeka "B"	3193	(+ 812)
Topeka "D"	3262	(+ 743)
Lecompton	3319	(+ 686)

ELECTRIC LOGS:

DIL-SFL with GR to base surface casing
FDC-CNL with GR

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(Formation Evaluation Program Cont'd)

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SAMPLES:

20' Samples (wet) from grass-roots to base anhydrite
10' Samples (wet) from base anhydrite to T.D.

MUD LOGGING:

1 man gas logging unit from base anhydrite (± 1550) to T.D.

DRILLSTEM TESTS AND CORING:

Three (3) DST's in Red Cave, Waubaunsee, and/or Topeka depending on drilling breaks and gas shows

SUPERVISORS

DRILLING:	Mike Nugen	Phone # 797-8173 (H)	(303) 571-1110, x242 (W)
GEOLOGICAL:	Harry Connors	Phone # 642-7281 (H)	(303) 571-1110, x274 (W)

DVR	
FJP	
HHM	
JAM	
JJD	
RLS	
CGM	

ADDITIONAL COMMENTS

Drill to $\pm 400'$ with 12-1/4" to set 8-5/8" surface pipe. "Rathole" ahead with 7-7/8" hole through Glorietta Ss $\pm 1600'$ and 1) if circulation is maintained, set surface as planned; 2) if loss of circulation - ream 12-1/4" through lost zone and set 8-5/8" casing.