



DATE: 9/11/80

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DRILLING PROGRAM

COLORADO OIL & GAS CONS. COMM.

WELL NAME: WECO STATE #1-16

LOCATION: Ctr NE/4 Sec. 16, T33S-R43W

DIRECTIONS TO LOCATION: 12 miles south 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:

DVR
FJP
HMM
JAM
JHD
PLS
QGM

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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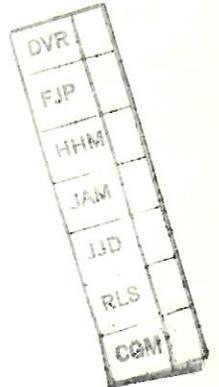
BIT PROGRAM

COAL & GAS CONS. COMM.

<u>BIT NO.</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTHS</u>	<u>FEET</u>	<u>HRS.</u>	<u>ACCUM. HRS.</u>	<u>BIT 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



MUD TREATMENTS-MECHANICAL EQUIPMENT-REMARKS

<u>DEPTH INTERVALS:</u>	<u>DISCUSSION</u>
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 $\pm 9.0$ 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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DRILLING PROGRESS/COST

<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.

DVR
FJP
HHM
JAM
JJD
RLS
CGM

FORMATION EVALUATION PROGRAM

FORMATION TOPS:

Stone Corral	1537	(+2412)
Red Cave Ss	1556	(+2393)
Neva	2734	(+1215)
Waubaussee	2984	(+ 965)
Topeka "A"	3082	(+ 867)
Topeka "B"	3140	(+ 809)
Topeka "D"	3216	(+ 733)
Lecompton	3273	(+ 676)

ELECTRIC LOGS:

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



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(Formation Evaluation Program Cont'd)

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, Waubausee, 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 Conners Phone # 642-7281 (H) (303) 571-1110, x274 (W)

DVR	
FJP	
HHM	
JAM	
JJD	
RLS	
GGM	

ADDITIONAL COMMENTS

Drill to ± 400' with 12-1/4" to set 8-5/8" surface pipe. "Rathole" ahead with 7-7/8" hole through Glorietta Ss to 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.