

J. MARK RICHARDSON
Petroleum Geologist - Operator

200 O. W. GARVEY BLDG.
WICHITA, KANSAS 67202

DRILLING REPORT

BUS. PHONE 262-3192
RES. PHONE 838-1616

TO: INTEREST HOLDERS

RE: #2 NETTIE DEAN KONDA PROSPECT
Approx 200'S. NW NW 11-27S-22W, Kiowa County, Kan
Elev. 2407 KB

DATE 7-17-73 DRILLING _____ FEET Zero is 6 ft. above Braden Head.

SPUD 7-2-73 SET 85/8 SURFACE CASING @ 536 FT W/ 375 SACKS CEMENT.

FORMATION TOPS Ft Riley 2728-321 COTTONWOOD 3110-703 Porosity Zone 3158-751

HOWARD 3518-1111; TOPEKA 3722-1315

HEEBNER 4152-1745 LANSING 4282-1875 BKC MARMATON 4722-2315

MARMATON ZONE 4805-2398 CHEROKEE ~~LINE~~ SD. 4932-2525 MISSISSIPPI 4946-2539

MISSISSIPPI POROSITY 4998-2591 ROTARY TOTAL DEPTH 5023-2613 ELECT LOG TD 5023-2616

4 1/2 CASING 5022-2615 WITH 150 SACKS CEMENT Pos mix w/2% G & 18% salt
flush with salt water before cement.

Drill stem test #1 - 3112 to 3180 open 20 shut in 30 open 60 shut in 30,

gas to surface _____ min Ga. _____

Recovered 130 feet Drilling Mud _____

Drill Stem Test #2 4890 to 4975 open 20 shut in 30 open 60 shut in 30,
 Packer was stuck for 1 hr after tool was closed in.
 gas to surface --- min Ga. Note: At start of drilling after DST oil flowed to pits
 for 45 minutes.

Recovered 210 ft Oil & Gas cut mud IFP 52 FFP 95 ISIP 169 FSIP 169

Drill stem test #3 4965 to 5015 open 20 shut in 30 open 60 shut in 30,
 gas to surface --- min Ga.

Recovered 190 ft slightly oil & gas cut mud IFP 69 FFP 116 ISIP 1179 FSIP 179

The pressure charts indicated some plugging during test.

REMARKS

Our samples and electric log indicated that we found a much better developed Cherokee and Mississippi sand that had oil saturation and live oil in wet samples. See drill stem test #2 above. The Mississippi dolomitic porosity zone had free oil in wet samples and it compared favorably on log analysis to the old show hole that had 333 feet free oil on drill stem test. We think acid treatment will result in in a good oil producer from this zone. We plan to start completion 7-23-73.

ZONES OF INTEREST

Cottonwood	3109-13	18 % porosity and	47 % water sat	DST
	3160-66	23	32	DST
Howard	3518-22	23	34	
Lansing-KC	4285-88	18	34	
	4318-20	11	48	
	4378-86	28	56	
	4476-82	30	22	Scattered stain & trace free oil
	4520-26	29	50	"
	4536-38	27	30	"
	4548-51	27	50	"
Cherokee SD	4934-38	21	43	Saturated tight sand some fr oi
Mississippi sand	4956-60	20	35	saturated friable sd with fr oi
Miss Dolomit	4998-5010	16/22	30/55	saturated dolo. w/free oil
	5015-5017	18	not log	" "

COMPANY MARK RICHARDSON
 WELL # 2 NETTLE DEAN
 FIELD W.C.
 COUNTY FORD
 STATE KANS.

Quantitative Log Interpretation

This interpretation represents our best judgement. However, because all log analysis is based on best assumptions and empirical relationships, we cannot guarantee the accuracy of these figures. For this reason, we must disclaim any responsibility for any loss or expense which results from the use of this interpretation.



A/L COMMENT ONLY

Point No.	Depth	ΔT	ΦAL	DB	SWN	COND	RW	RT	SW	SW	Remarks	References
	5015-17	64	11		18	16	.065	10	55	55	MISS.	ΔT _M =
	5007-10	56	6		12	16	"	10 ¹⁰⁰		55		ΔT _F =
	5005-07	63	10		14	20	"	6.5	80	47		DG =
	5002-05	58	7		8	18	"	23	65	30		D _F =
	5000-02	70	15		15	22	"	7.5	55	42		V _M = 2,000
	4967-72	56	6		5	8	"	40	58	47		
	4956-60	80	17		16	16 20	.07	15	42	35	CHERO. SD, 18000 U.M.	EQUATIONS
	4934-38				21	21	"	8		43	DIRTY MARM.	
	4821-25	58	7		10	11	"	10	100	70	DIRTY	
	4552-62	63	11		14	25	.055	7.5	75	58	" KC	
	4548-51	70	15		20	27	"	5	68	50	POSS FRAC "	
	4536-38	70	15		22	27	"	10	48	30		CHART MANUAL PAGE REFERENCE
	4530-33	73	17		18	29	"	12	38	24	POSS FRAC "	
	4520-26	72	16		18	29	"	2.5	80	50	" " "	
	4501-04	58	7		8	15	"	20	65	35	" "	
	4476-82	70	15		23	30	"	50	22	12	COHESIVE "	
	4460-63	61	9		9	14	"	20	54	36	" "	
	4447-49	61	9		16	23	"	6	80	41	COHESIVE "	OTHER
	4402-10	71	16		24	32	"	7	55	30	" " "	
	4378-86	71	16		20	28	"	2	100	56	" "	
	4318-20	59	7.5		11	11	"	17	68	48	" "	
	4285-88	62	10		16	18	"	15	55	34	" "	
	3518-22	67	13		18	23	.05	8	57	34	HOWARD	
	3160-66	64	11		16	23	.055	15	54	32	COTTON WOOD	
	3109-13	13			13	18	.055	6	69	47	<u>Howard</u>	

DRESSER ATLAS ENGINEER

DATE

7-17-73