

Permit #: 20007

Date Issued: 05-10-76

County: Holt

Date Cancelled: _____

CONFIDENTIAL UNTIL: _____

Date Plugged: 05-26-76

COMMENTS:

Stripped 10-26-81 da

OGC FORMS	Date Received
1	
2	
3	05-10-76
3i	
4	05-10-76
4i	
5	07-12-76
6	07-12-76
7	08-12-76
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs			
Samples	chip		
	core		
Analyses	water		
	core		

Additional Submitted Data:

MISSOURI OIL AND GAS COUNCIL

Form OGC - 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

Anadarko Production Company -

NAME OF COMPANY OR OPERATOR Diamond Shamrock Corporation

DATE 5/13/76

Box 351

Liberal

Kansas 67901

Address

City

State

DESCRIPTION OF WELL AND LEASE

Name of lease Dudeck "A"	Well number 1	Elevation (ground) 1122'
------------------------------------	-------------------------	------------------------------------

WELL LOCATION (give footage from section lines) 1980 ft. from (S) sec. line 1980 ft. from (E) sec. line
--

WELL LOCATION Section 5 Township 59N Range 37W	County Holt
--	-----------------------

Nearest distance from proposed location to property or lease line: 1980 feet	Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: None feet
--	---

Proposed depth: 2950'	Rotary or Cable tools Rotary	Approx. date work will start 5/24/76
---------------------------------	--	--

Number of acres in lease: 253.58	Number of wells on lease, including this well, completed in or drilling to this reservoir: 1
	Number of abandoned wells on lease: 0

If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____	No. of Wells: producing _____ inactive _____ abandoned _____
---	--

Status of Bond Single Well <input type="checkbox"/> Amt. _____	Blanket Bond <input checked="" type="checkbox"/> Amt. \$30,000	<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED
---	---	--

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.

Proposed casing program:	Approved casing - To be filled in by State Geologist
amt. size wt./ft. cem. <u>150'</u> <u>8-5/8"</u> <u>20LB.</u> <u>150sx.</u> <u>2950'</u> <u>4 1/2</u> <u>10.5LB.</u> <u>160sx.</u>	amt. size wt./ft. cem. <u>OK AS Proposed</u>

I, the undersigned, state that I am the Division Office Mgr. of the Anadarko Production Company, and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature: Wallace B. Dore

Permit Number: 20007
Approval Date: 10 May 1976
Approved By: Wallace B. Dore

SAMPLES REQUIRED
 SAMPLES NOT REQUIRED

Note: This Permit not transferable to any other person or to any other location.
Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned.

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MO. OIL & GAS COUNCIL

WATER SAMPLES REQUIRED @:
any DST's

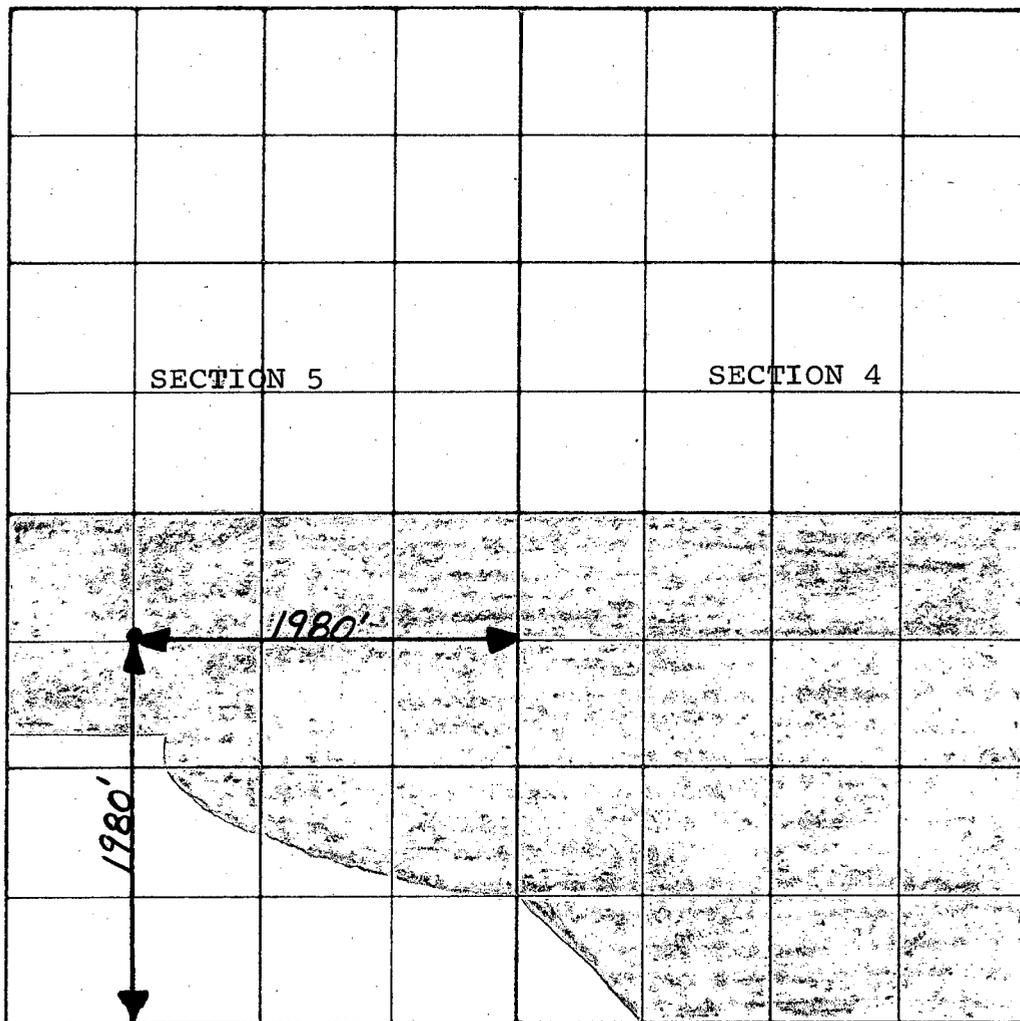
MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC - 4

Owner: Anadarko Production Co./Diamond Shamrock Co.

Lease Name: Dudeck "A" #1 County, Holt

1980 feet from (N) ~~(S)~~ line and 1980 feet from (E) ~~(W)~~ line of Sec. 5 Twp. 59N Range 37W



SCALE
1" = 1000'

REMARKS:

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(SEAL)

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
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Registered Land Surveyor

(701-067)

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

Owner: Anadarko Production Company
Diamond-Shamrock Corp. Address: P. O. Box 351, Liberal, Kansas 67901

Lease Name: DUDECK "A" Well Number: #1

Location: 1980' FNL & 1980' FEL Sec. --- TWP-Range or Block & Survey
Sec. 5-59N-37W

County: Holt Permit number (OGC3 number): 20007

Date spudded: 5/17/76 Date total depth reached: 5/25/76 Date completed, ready to produce: Elevation (DF, RKB, RT or Gr.): 1122 feet GL Elevation of casing hd. flange: feet

Total depth: 2243' P. B. T. D.

Producing interval (s) for this completion: Rotary tools used (interval) From 0 to 2243' Drilling Fluid used: Cable tools used (interval) From to

Was this well directionally drilled? Was directional survey made? Was copy of directional survey filed? Date filed:

Type of electrical or other logs run (list logs filed with the State Geologist): Open Hole Date filed: Enclosed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	8-5/8"	20#	174'	150	None

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)
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PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
----------------	-------------	----------------	------------------------------	----------------

INITIAL PRODUCTION

Date of first production: Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr)
--------------	-------------	------------	-----------------------------	---------------------------	-------------------------------	------------------------

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas—oil ratio
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Disposition of gas (state whether vented, used for fuel or sold):

Method of disposal of mud pit contents:

CERTIFICATE: I, the undersigned, state that I am the Div. Ofc. Mgr. of the Anadarko Production (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Stan Shoemaker
Signature: Stan Shoemaker

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DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Clay/Lime	0'	187'	DST #1: 1850-68', 30 min pre flow, op 60 min w/no blow, rec no fluid. ISIP 8# (30)
Lime/Shale	187'	1750'	
Mississippi	1750'	2068'	
Kinderhook	2068'	2163'	
Hunton	2163'	2243'	

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

MISSOURI OIL AND GAS COUNCIL

Form OGC-6

NOTICE OF INTENTION TO ABANDON WELL

Name of Lease DUDECK "A" Date 6/21/76

Well No. 1 is located 1980 feet from (N) (~~S~~) line and 1980'

feet from (E) (~~W~~) line of Section 5 Township 59N Range 37W

Holt County The elevation of the ground at well site is 1122

feet above sea level.

Name and address of Contractor or Company which will do work is:

B & N Drilling Company

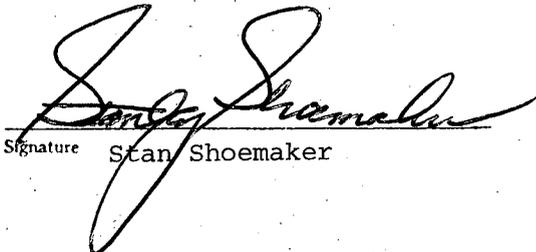
P. O. Box 846, Independence, Kansas 67301

DETAILS OF WORK

(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

Spotted 30 sxs cmt @ 1750', 20 sxs 203', 10 sxs 30-0', 4 sxs rathole & mousehole.

CERTIFICATE: I, the undersigned, state that I am the Div. Ofc. Mgr. of the Anadarko Production (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.


Signature Stan Shoemaker

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MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD

Form O.G.C.-7

Owner Anadarko Production Company Diamond-Shamrock Corp.	Address Box 351, Liberal, Kansas 67901
Name of Lease DUDECK "A"	Well No. #1

Location of Well 1980' FNL & 1980' FEL	Sec-Twp-Rge or Block & Survey Sec. 5-59N-37W	County Holt
--	--	-----------------------

Application to drill this well was filed in name of APC Diamond-Shamrock Corp.	Has this well ever produced oil or gas NO	Character of well at completion (initial production) Oil (bbls/day) Gas (MCF/day)	Dry? Yes
Date Abandoned: 5/26/76	Total depth 2243'	Amount well producing prior to abandonment. Oil (bbls/day) Gas (MCF/day)	Water (bbls./day)

Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of abandonment	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
None Encountered			

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes
8-5/8	174'	None	174'		

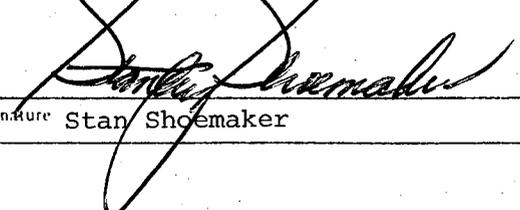
Was well filled with mud-laden fluid? Yes	Indicate deepest formation containing fresh water. Unknown
---	--

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE		
Name	Address	Direction from this well:

Method of disposal of mud pit contents: Back Fill

Use reverse side for additional detail
File this form in duplicate with

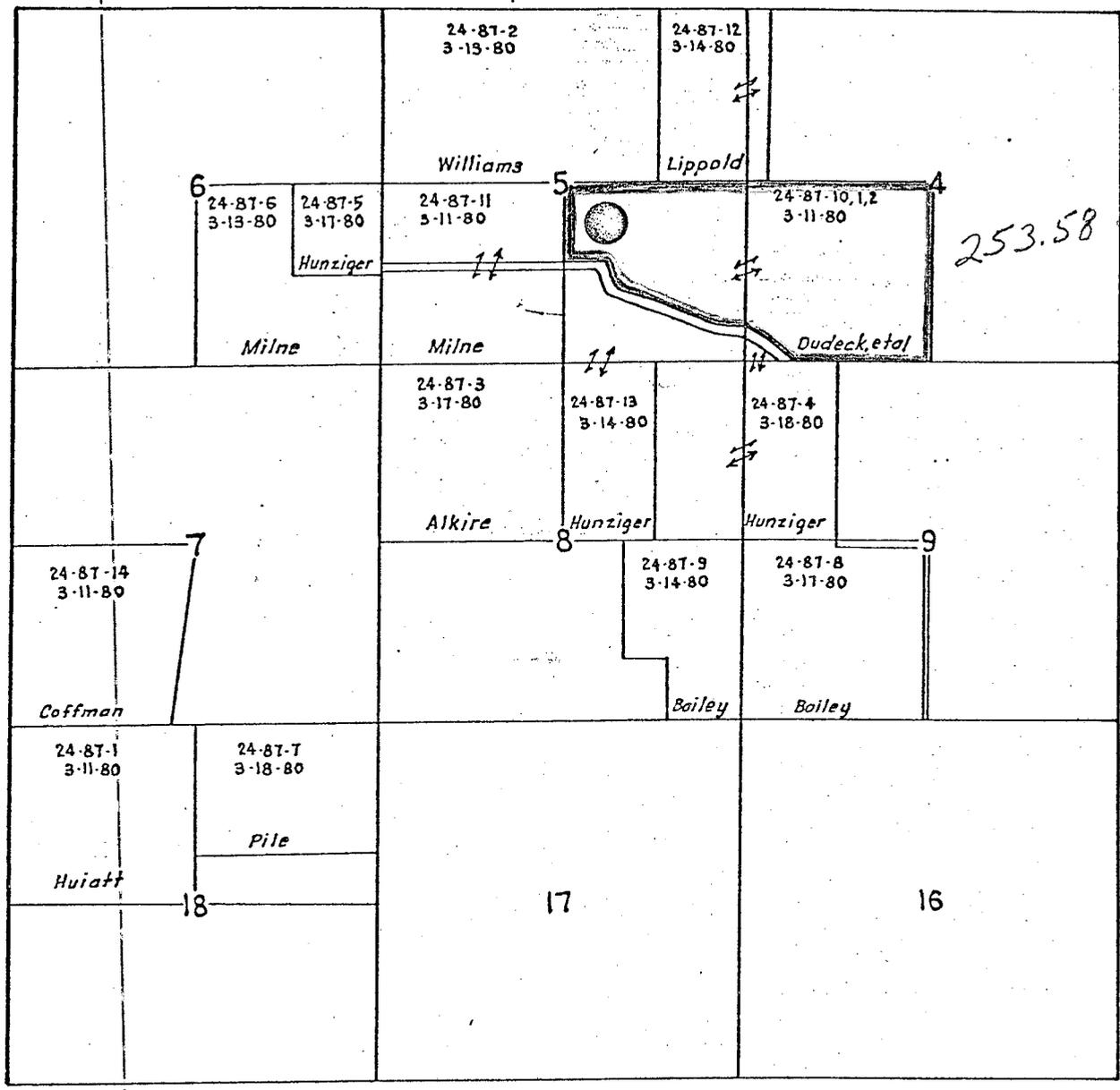
CERTIFICATE: I, the undersigned, state that I am the Div. Ofc. Mgr. of the Anadarko Production (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.


 Signature Stan Shoemaker

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Star

R37W



253.58 acres

T
59
N

ALL APC LEASES : APC - 50%
DIAMOND SHAMROCK - 50%

Dudeck "a" no. 1

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MO. OIL & GAS COUNCIL

ANADARKO PRODUCTION COMPANY
RICHVILLE PROSPECT HOLT COUNTY, MISSOURI
LAND PLAT Proposed Location

(701-068)

LOCATION NOTICE

March 18, 1976

Make location for drilling well located in Section 5 Township 59N

Range 37W County Holt State Missouri

Well No. 1 Farm Dudeck "A" as follows:

1980 feet from the South and East Lines or the Center of the Northwest

Quarter of the Southeast Quarter of Section 5, Township 59 North, Range

37 West, Holt County, Missouri.

Prepared by: /nt

APPROVALS:

Checked by:

JL Pader

cc: Drilling Superintendent

The above described well was located as follows:

Surveyed ^{NE} 934' @ 45° fr & road at N-S fence 1/2 line x-1179 in center of 1/2 Sect. 5. Tied to control point (E-TRAD E at 5/16' between sections 5 & 6. Mr. Gotlin present at stky. Sect. size chkd by aerial photo.

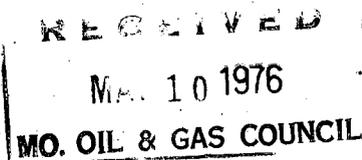
and has an elevation of 1122 gr. feet.

H. C. Moser

(Surveyor)

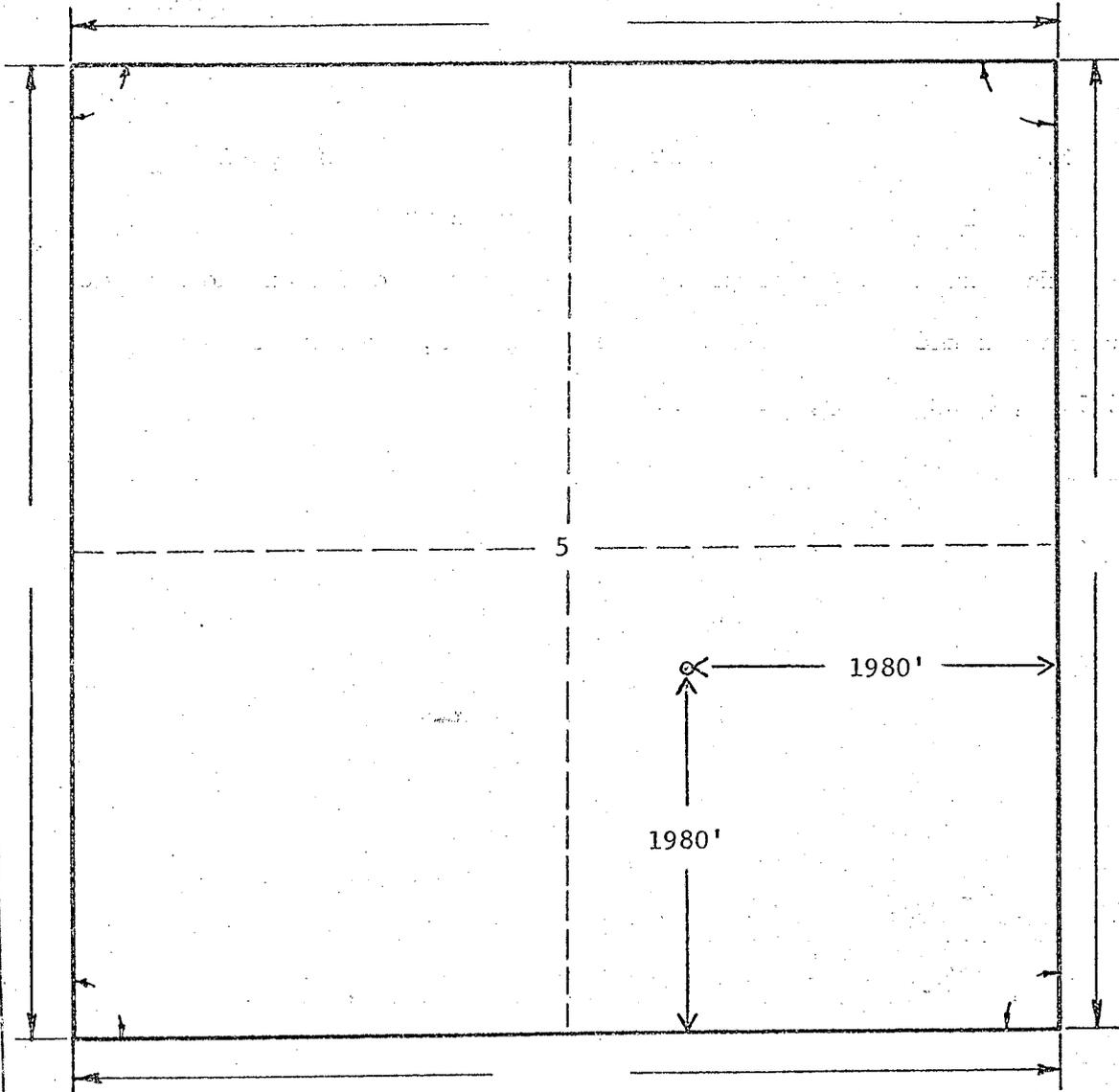
Laughtin Simmons & Co.

April 12, 1976



WELL NAME AND NUMBER

DUDECK "A" No. 1



SECTION 5 TOWNSHIP 59N RANGE 37W COUNTY Holt STATE Missouri
BLOCK _____ SURVEY _____

FOOTAGES 1980 FS & FE of 5

ELEVATION 1122 gr

DATE Apr. 12, 19 76

DESCRIBE TERRAIN _____

SCALE 1 INCH = 1000 FEET

SURVEYOR R.E. Moser

(701-070)

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Log Analysis

COMPANY: Anadarko Production Co. Diamond Shamrock
 FIELD: Wildcat COUNTY: HOLT
 WELL: #1 Dundeck "A" STATE: Missouri

DEPTH	R _{LL}	R _W	Q _D	Q _N	% POROSITY	% WATER	REMARKS
1720-24	9	0.33	10-26	20-25	15-25%	100-66	
24-26	9	"	25	23	24	70	
26-28	12	"	21	19	20	74	
28-32	14	"	19-22	16-22	17 1/2-22	79-68	
32-38	11	"	21-24	24-20	25 1/2-22	59-69	
38-42	13	"	19	17	18	79	
42-46	9	"	13	13	13	100	Shaley
48-52	9-15	"	26	23	24 1/2	68-53	
1830-34	21	0.30	10	22	16	75	Shaley
1854-62	50	"	12	5	8 1/2	91	Shaley
1876-80	70	"	8	16	12	55	
1952-62	75	0.50	13	20	16 1/2	64	
62-68	70	"	13	13	13	65	
68-72	35	"	13	22	17 1/2	68	
72-76	50	"	11	16	13 1/2	74	
76-82	25	"	11	23	17	83	
2004-10	200	"	8	8	8	63	
" 4	150	"	9	9	9	64	
14-24	250	"	6-9	6-9	6-9	95-50	Tite
24-28	200	"	9	9	9	56	

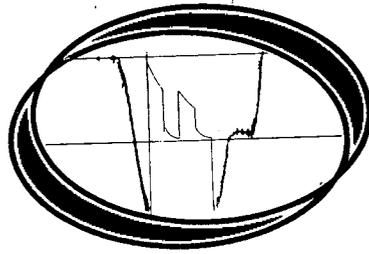
Coal Streaks

Depths 568-70, 1190, 1420, 1482, 1510-18, 1532-36, 1551, 1565-67, 584, and 1650

Interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 7 of our General Terms and Conditions as set out in our current Price Schedule.

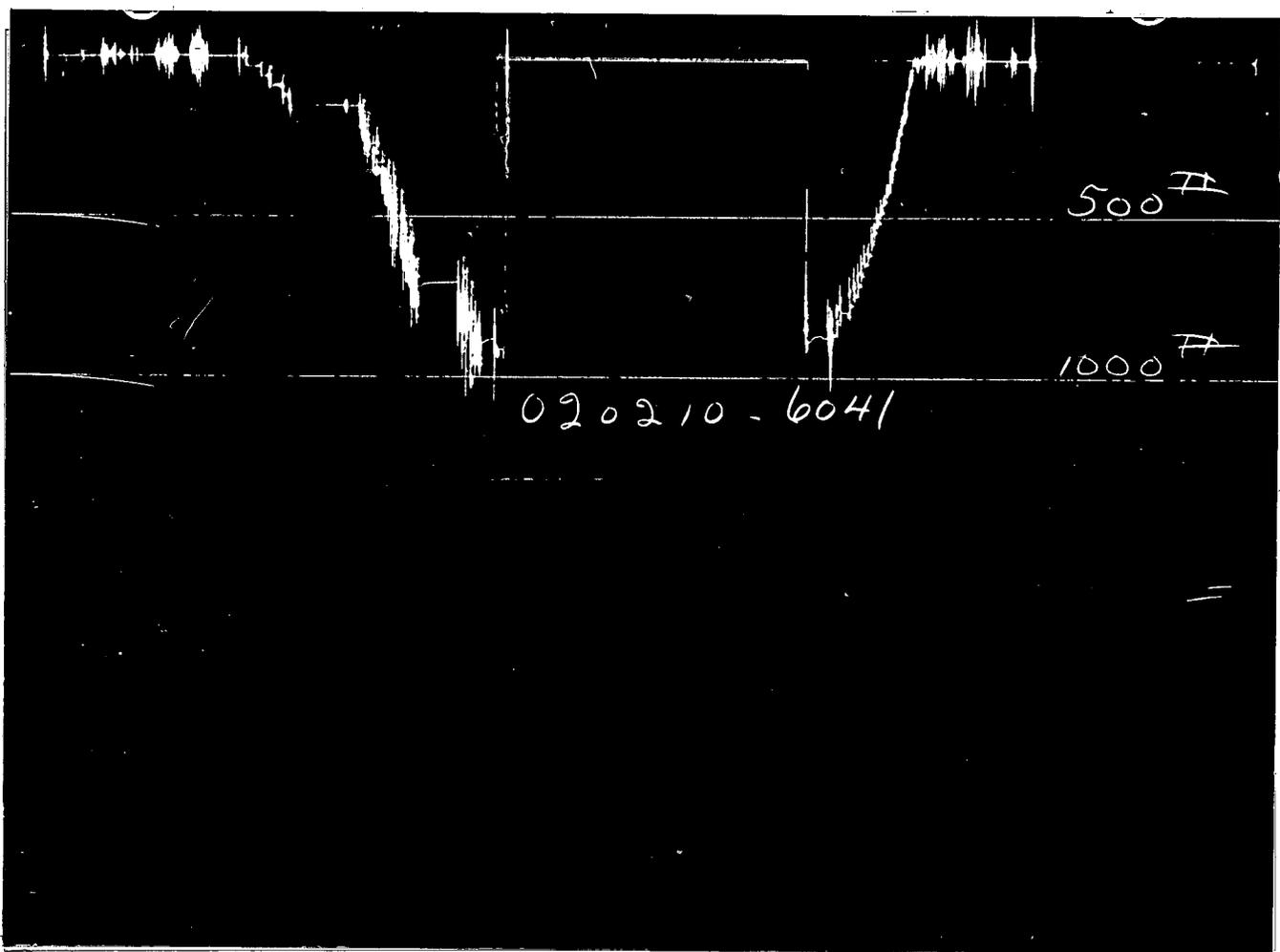
DATE: 5-25-76 LOCATION: Wichita KS ENGINEER: Langenbuch

Formation Testing Service Report

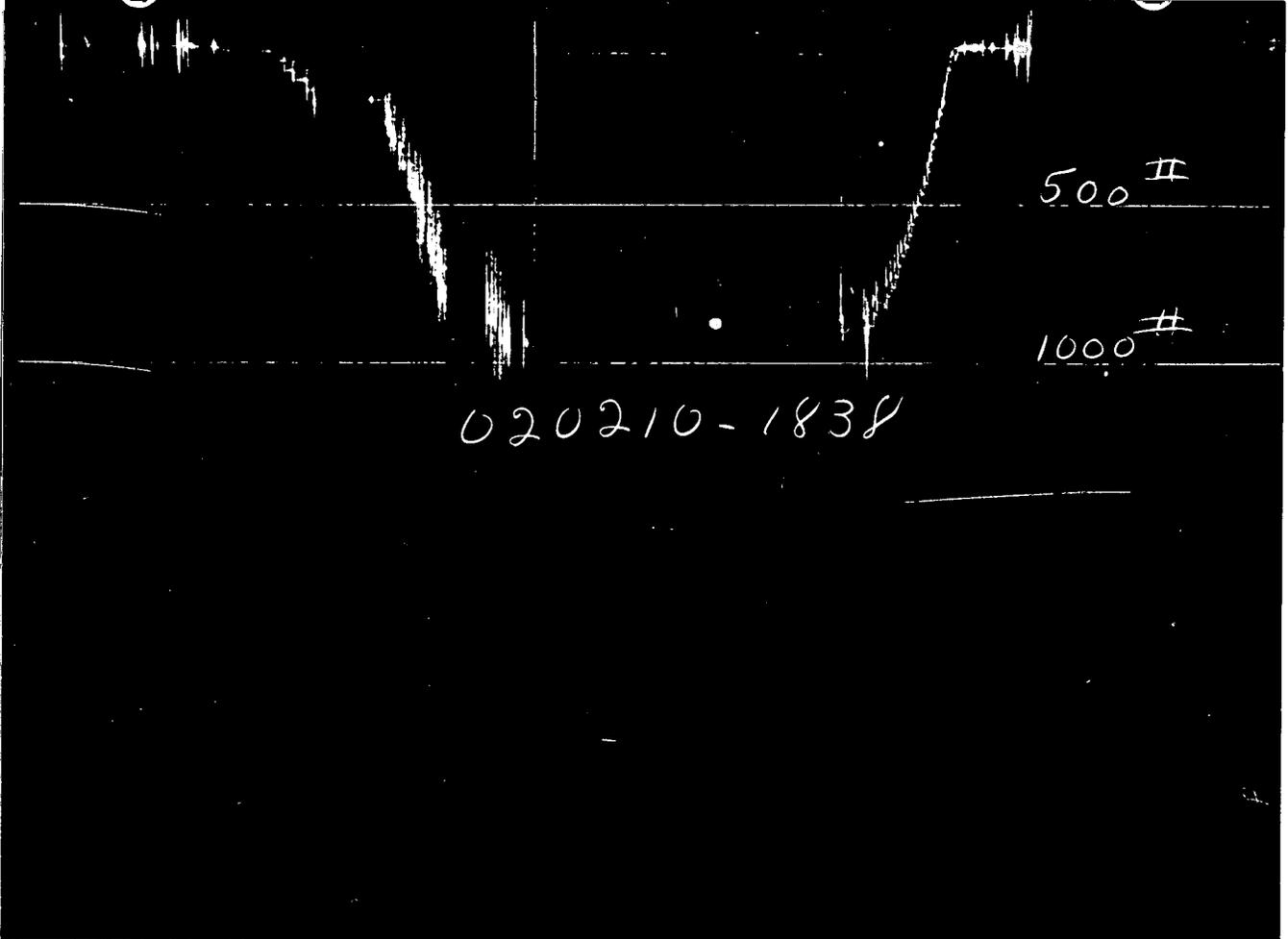


HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

Well No. _____ Test No. _____
Lease Name _____
AWARD-KKU PRODUCTION COMPANY



TIME →



Each Horizontal Line Equal to 1000 p.s.i.

PRESSURE
 TIME
 020210-6041
 020210-1838

FLUID SAMPLE DATA		Date	5-21-76	Ticket Number	020210
Sampler Pressure _____ P.S.I.G. at Surface	Recovery: Cu. Ft. Gas _____	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
cc. Oil _____	cc. Water _____	Tester	MR. MONDERO	Witness	MR. RIGGS
cc. Mud _____	Tot. Liquid cc. _____	Drilling Contractor	B & N DRILLING COMPANY		DR
Gravity _____ ° API @ _____ ° F.	Gas/Oil Ratio _____ cu. ft./bbl.	EQUIPMENT & HOLE DATA			
RESISTIVITY _____	CHLORIDE CONTENT _____	Formation Tested	Mississippi		
Recovery Water _____ @ _____ ° F. _____ ppm	Recovery Mud _____ @ _____ ° F. _____ ppm	Elevation	1100'	Est. G.L.	Ft.
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm	Mud Pit Sample _____ @ _____ ° F. _____ ppm	Net Productive Interval	13'	Test	Ft.
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm	Mud Weight 9.3 vis 50sec 00	All Depths Measured From	Kelly Bushing		
		Total Depth	1868'		Ft.
		Main Hole/Casing Size	7 7/8"		
		Drill Collar Length	300'	I.D.	2.25"
		Drill Pipe Length	1575'	I.D.	3.826"
		Packer Depth(s)	1850-1855' Ft.		
		Depth Tester Valve	1833' Ft.		

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
				1/4"	3/4"
Recovered 1		Feet of drilling mud			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			
Recovered		Feet of			

Remarks Opened tool for 30 minute first flow with no blow. Closed tool for 30 minute first closed in pressure. Reopened tool for 60 minute second flow with no blow. Closed tool for 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 6041		Gauge No. 1838		Gauge No.		TIME	
	Depth:	1834 Ft.	Depth:	1864 Ft.	Depth:	Ft.		
Est. °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool	A.M.
	Blanked Off NO		Blanked Off YES		Blanked Off		Opened	1405 P.M.
Actual 94 °F.							Opened	A.M.
	Pressures		Pressures		Pressures		Bypass	1706 P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	880	884	878				Minutes	Minutes
First Period	Flow Initial	8	7	21				
	Flow Final	8	7	21			30	
	Closed in	8	7	21			30	
Second Period	Flow Initial	8	7	21				
	Flow Final	8	7	21			60	
	Closed in	8	7	21			60	
Third Period	Flow Initial							
	Flow Final							
Final Hydrostatic	863	875	891					

Legal Location: Sec. - Twp. - Rng. 5-59N-37W
 Lease Name: WILDCAT
 Well No.:
 Test No.:
 Field Area: WILDCAT
 Mea. From Tester Valve:
 County: HOLT
 State: MISSOURI
 Lease Owner/Company Name: PRUDENTIAL COMPANY

EQUIPMENT DATA

LITTLE S. 96976 75C 8/74



DEPTH	LENGTH	I. D.	O. D.	DESCRIPTION
				Drill Pipe or Tubing
				Reversing Sub
				Water Cushion Valve
			4 1/2"	Drill Pipe
			6"	Drill Collars
	1575'	3.826"		Drill Collars
	300'	2.25"		Drill Collars
				Handling Sub & Choke Assembly
			5"	Dual CIP Valve
			5"	Dual CIP Sampler
			5"	Dual CIP Sampler
			5"	Hydro-Spring Tester
			5"	Multiple CIP Sampler
				Extension Joint
1834'	4'	3.06"	5"	AP Running Case
	4'	1"	5"	Hydraulic Jar
	3'	1"	5"	VR Safety Joint
				Pressure Equalizing Crossover
				Packer Assembly
				Distributor
				Packer Assembly
				Flush Joint Anchor
				Pressure Equalizing Tube
				Blanked-Off B.T. Running Case
				Drill Collars
				Anchor Pipe Safety Joint
				Packer Assembly
1850'	6'	1.53"	6 3/4"	Packer Assembly
				Distributor
				Packer Assembly
1855'	6'	1.53"	6 3/4"	Packer Assembly
				Anchor Pipe Safety Joint
				Side Wall Anchor
				Drill Collars
				Flush Joint Anchor
				Blanked-Off B.T. Running Case
1864'	4'	3"	5"	Blanked-Off B.T. Running Case
1868'				Total Depth

NOMENCLATURE

- b = Approximate Radius of Investigation Feet
- b₁ = Approximate Radius of Investigation (Net Pay Zone h) Feet
- D.R. = Damage Ratio
- EI = Elevation Feet
- GD = B.T. Gauge Depth (From Surface Reference) Feet
- h = Interval Tested Feet
- h₁ = Net Pay Thickness Feet
- K = Permeability md
- K₁ = Permeability (From Net Pay Zone h) md
- m = Slope Extrapolated Pressure Plot (Psi²/cycle Gas) psi/cycle
- OF₁ = Maximum Indicated Flow Rate MCF/D
- OF₂ = Minimum Indicated Flow Rate MCF/D
- OF₃ = Theoretical Open Flow Potential with/Damage Removed Max. MCF/D
- OF₄ = Theoretical Open Flow Potential with/Damage Removed Min. MCF/D
- P_s = Extrapolated Static Pressure Psig.
- P_f = Final Flow Pressure Psig.
- P_o = Potentiometric Surface (Fresh Water *) Feet
- Q = Average Adjusted Production Rate During Test bbls/day
- Q₁ = Theoretical Production w/Damage Removed bbls/day
- Q_g = Measured Gas Production Rate MCF/D
- R = Corrected Recovery bbls
- r_w = Radius of Well Bore Feet
- t = Flow Time Minutes
- t_o = Total Flow Time Minutes
- T = Temperature Rankine °R
- Z = Compressibility Factor
- μ = Viscosity Gas or Liquid CP
- Log = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.