Case No
5454

Large Exhibits

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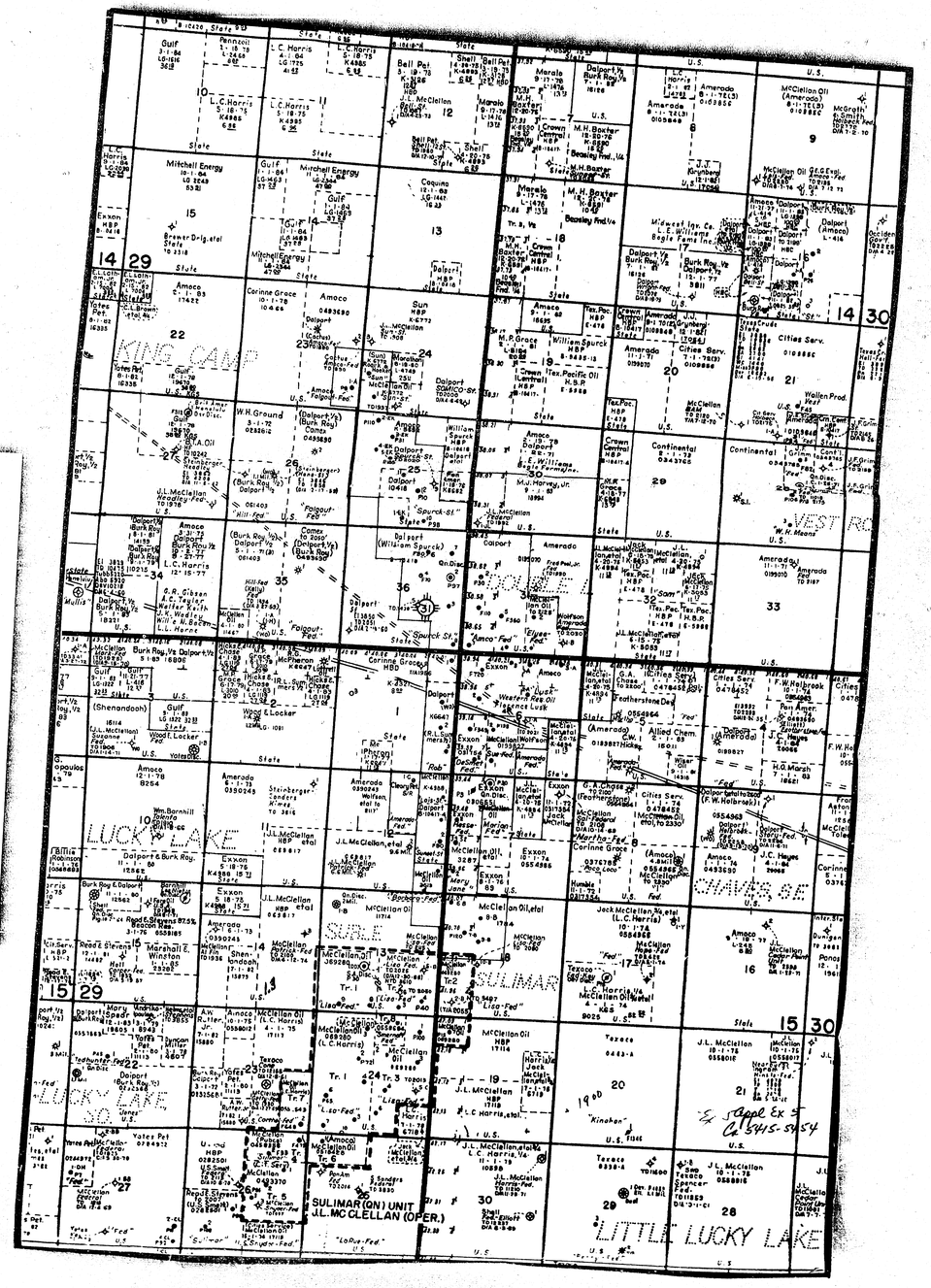

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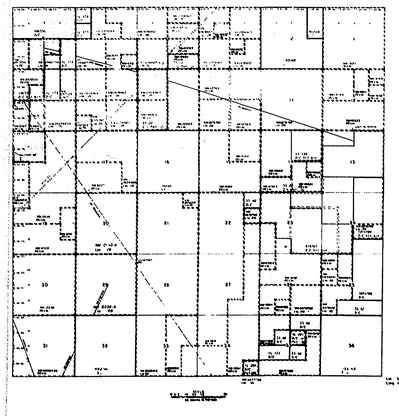
TOWNSHIP 15 SOUTH, RANGE 30 EAST, OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO.

CHAVES COUNTY — 005

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

OG PLAT



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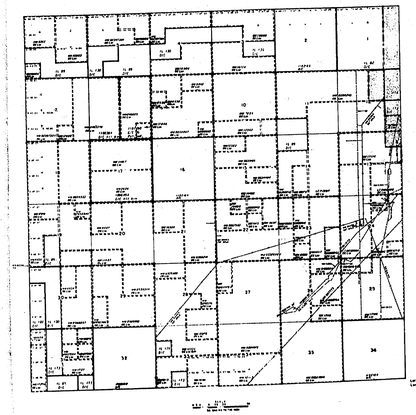
TOWNSHIP 15 SOUTH, RANGE 29 EAST OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

CHAVES COUNTY — 005

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

OG PLAT



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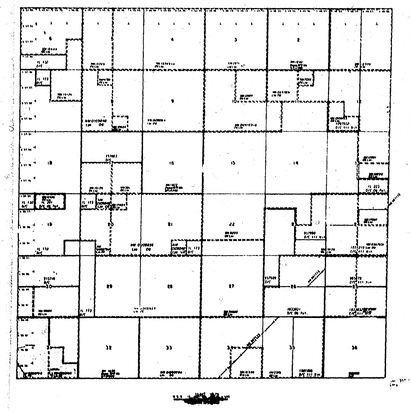
TOWNSHIP 14 SOUTH, RANGE 30 EAST, OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

CHAVES COUNTY – 005

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

OG PLAT



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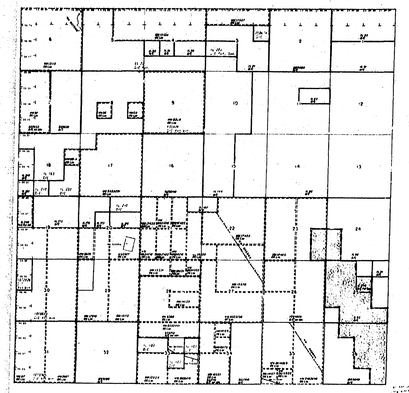
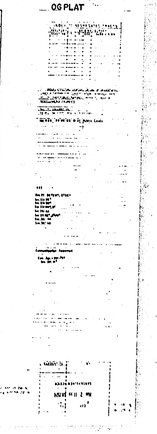
TOWNSHIP 14 SOUTH, RANGE 29 EAST, OF THE NEW MEXICO PRIN. MERIDIAN, NEW MEXICO

CHAVES COUNTY — 005

STATUS OF PUBLIC DOMAIN LAND AND MINERAL TITLES

OG PLAT





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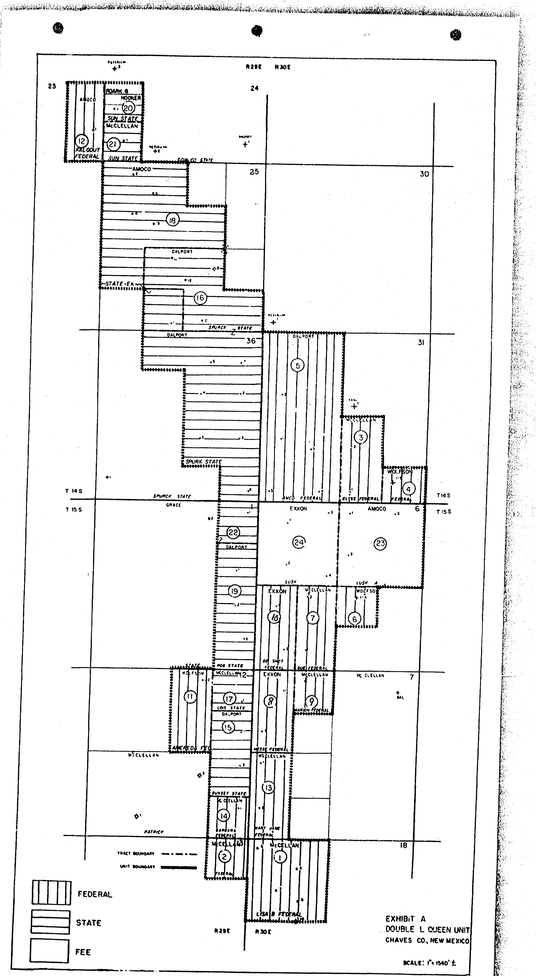

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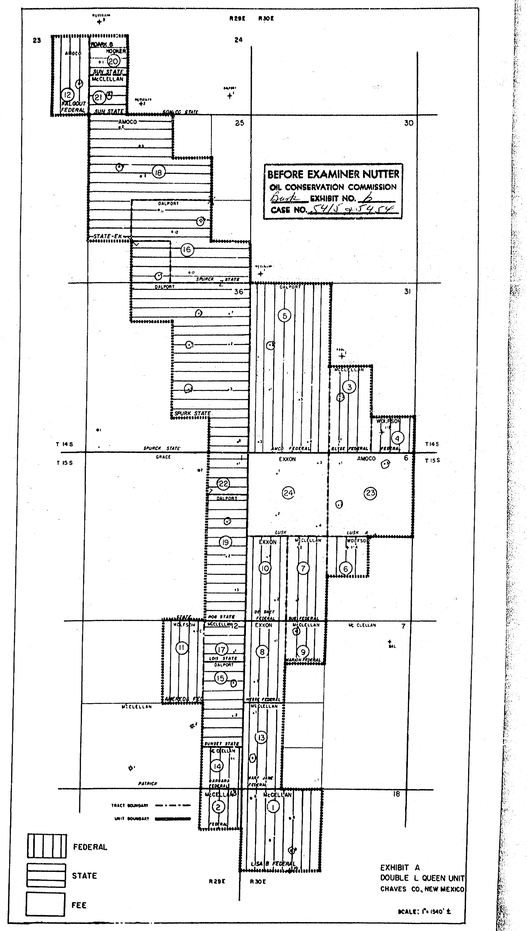

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Schlumberger

Compensated

Densilog

FILE NO.

COMPANY Amoco Production Company

WELL STATE "EL" WELL NO. 4

FIELD DOUBLE "L" (Qeen)

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 1650' FSL & 990' FWL

Other Services: NONE

SEC. 25 TWP. 14-S RGE. 29-E

Permanent Datum	G.L.	Elev. 3813'	K.B. 3825
Log Measured from	K.B.	12 Ft. Above Permanent Datum	D.F. 3824'
Drilling Measured from	K.B.		G.L. 3813'

Date	4-22-71							
Run No.	ONE							
Depth—Driller	1922							
Depth—Logger	1942							
Bottom Logged Interval	1942							
Top Logged Interval	SURFACE							
Casing—Driller	8 5/8 @ 361							
Casing—Logger	362							
Bit Size	7 7/8							
Type Fluid in Hole	SALT GEL							
Density and Viscosity	9.9	135						
pH and Fluid Loss	9.5	10.0 cc					cc	
Source of Sample	FLOWLINE							
Rm @ Meas. Temp.	.69 @ 80 °F		@	°F	@	°F	@	°F
Rmf @ Meas. Temp.	.64 @ 80 °F		@	°F	@	°F	@	°F
Rmc @ Meas. Temp.	— @ — °F		@	°F	@	°F	@	°F
Source of Rmf and Rmc	M							
Rm @ BHT	.46 @ 85		@	°F	@	°F	@	°F
Time Since Circ.	2 HR.							
Max. Rec. Temp. Deg. F	85			°F		°F		°F
Equip. No. and Location	1019 Hobbs							
Recorded By	HOWE							
Witnessed By	MR. CRAIGIE							

FIELD PRINT

RETURN TO PROD. DEPT. ROOM 346

Density: Compensated; Gamma Ray: Gamma Ray; Caliper: Caliper; Equipment Data: Run No. ONE; Test Model No. 1019; Base Model No. 1019; Caliper Model No. 1019; Source Model No. 1019; Source Size 50 MC; Logging Speed 60 FPM; Gamma Ray Scale 0-100; Caliper Scale 6-16; Gamma Ray Detector Type SCINTILLATION; Caliper Detector Type SCINTILLATION; Density Tool No. 1019; Density Source Type CESIUM; Density Source Strength 50 MC; Density Detector Type SCINTILLATION; Gamma Ray Tool No. 1019; Gamma Ray Detector Type SCINTILLATION; Caliper Tool No. 1019; Caliper Detector Type SCINTILLATION; Density Tool Sensitivity 1.0; Gamma Ray Tool Sensitivity 1.0; Caliper Tool Sensitivity 1.0; Density Time Constant 1 SEC; Gamma Ray Time Constant 1 SEC; Caliper Time Constant 1 SEC; Density Recorder Scale Factor 1; Gamma Ray Recorder Scale Factor 1; Caliper Recorder Scale Factor 1; Density Tool Position EXCENTERED; Caliper Tool Position EXCENTERED; Density Hole Correction STANDARD (Sandstone); Gamma Ray Hole Correction NONE; Caliper Hole Correction NONE; Mud Type GEL CHEM; Mud Density 9.9 LB/GAL; Mud Viscosity 135 SEC; Fluid Loss 10.0 CC; Mud pH 9.5; Mud Resistivity (Rm) .69 @ 80 °F; Mud Resistivity (Rmf) .64 @ 80 °F; Mud Resistivity (Rmc) — @ — °F; Mud Sample Source FLOWLINE; Rm @ BHT .46 @ 85 °F; Rmf @ BHT .42 @ 85 °F; Rmc @ BHT — @ — °F; Time Since Circulation 2 HR.; Max. Rec. Temp. 85 °F; Equipment Location 1019 HOBBS; Recorded By HOWE; Witnessed By MR. CRAIGIE; Density Logging Method SCINTILLATION; Density Source Type CESIUM; Density Source Strength 50 MC; Density Detector Type SCINTILLATION; Gamma Ray Logging Method SCINTILLATION; Caliper Logging Method SCINTILLATION; Density Tool Position EXCENTERED; Caliper Tool Position EXCENTERED; Density Hole Correction STANDARD (Sandstone); Gamma Ray Hole Correction NONE; Caliper Hole Correction NONE; Density Recorder Scale Factor 1; Gamma Ray Recorder Scale Factor 1; Caliper Recorder Scale Factor 1; Density Time Constant 1 SEC; Gamma Ray Time Constant 1 SEC; Caliper Time Constant 1 SEC; Density Logging Speed 60 FPM; Gamma Ray Logging Speed 60 FPM; Caliper Logging Speed 60 FPM; Density Source Strength 50 MC; Density Source Type CESIUM; Density Detector Type SCINTILLATION; Gamma Ray Detector Type SCINTILLATION; Caliper Detector Type SCINTILLATION; Reference Elevation

BULK DENSITY GRAMS/CC — CORRECTION 3.0 / 2.5 / 2.0 — 0 / 1/2 / 1 — 1/2 / 0 — 1/2 / 1

DEPTH

GAMMA RAY & CALIPER — API UNITS 0 / 100 — HOLE SIZE — INCHES 6 / 16

1600 1900

Caliper (Dashed) 6 Inches

Gamma Ray (Solid) API Units

4-12-71 10 1942

W.N.M.C.F. MICROGRAPHICS

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Dresser Atlas

COMPENSATED

Densilog

FILE NO.

COMPANY PAN AMERICAN PETROLEUM CORPORATION

WELL LUSK "A" NO. 1

FIELD DOUBLE L QUEEN

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 330' FNL & 2310' FEL

SEC 6 TWP 15-S RGE 30-E

Other Services

Permanent Datum G.L. Elev. 3889'

Log Measured from K.B. Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations: KB 3901' DF 3899' GL 3889'

Date	4-20-70					
Run No.	ONE					
Depth—Driller	2027					
Depth—Logger	2017					
Bottom Logged Interval	2015					
Top Logged Interval	SURF					
Casing—Driller	8 5/8@364	@	@	@	@	
Casing—Logger	365					
Bit Size	81					
Type Fluid in Hole	OIL					
Density and Viscosity						
pH and Fluid Loss		cc	cc	cc	cc	cc
Source of Sample						
Rm @ Meas. Temp.		@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.		@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.		@ °F	@ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc						
Rm @ BHT		@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.						
Max. Rec. Temp. Deg. F.		°F	°F	°F	°F	°F
Equip. No. and Location	6040 HOBBS					
Recorded By	HOWE					
Witnessed By	MR. TANDY - MR. GRAVENS					

Density — Equipment Data: Sel. Holder No. 1305 5; Sonde No. 132 8; Caliper Model No. CHDD; Source Model No. CS-135; Source Holder No. L-226; Source Data 1 Curie Cesium; Detector Data SPINE-397, PAD-382

Gamma Ray — Equipment Data: Sel. Holder No. DALE; Sonde No. 30; Crystal No. 3CSI 8; Detector Model No. CHDD-277

Logging Data — Gamma Ray: Det. Type Scint.; Det. Crystal No. 3CSI 8; Det. Position Eccentered; Det. Standoff Inches 1; Det. Speed FPM 30; Det. Sensitivity 6424; Det. Time Constant Sec. 1; Det. Filter Cycles 60; Det. Interval From Ft. 2015; Det. Interval To Ft. SURF; Det. Recorded Pass SEC 1

Density: Det. Type Scint.; Det. Crystal No. 3CSI 8; Det. Position Eccentered; Det. Standoff Inches 0; Det. Sensitivity Pri.Sec.Det. 10; Det. Time Constant Sec. 1; Det. Filter Cycles 60; Det. Interval From Ft. 2015; Det. Interval To Ft. SURF; Det. Recorded Pass SEC 1

Density Compensation Data: Density Scale Sec. 2.0/3.0; Lithology Data 1/CO

Porosity Scale Data: Limestone 0-45; Dolomite 0-35; Sandstone 0-42

Remarks: PORO-417, CURVE RAN FROM 1400 TO 1750 ONLY; PORO-418, CURVE RAN FROM 1750 TO 2000 ONLY; FLUID LEVEL COMPLETELY DRESSED AND REMOVED FROM LOG; SOURCE RAY DRAFTED FROM REPEAT FROM FLUID LEVEL TO SURF.

Reference Elevations:

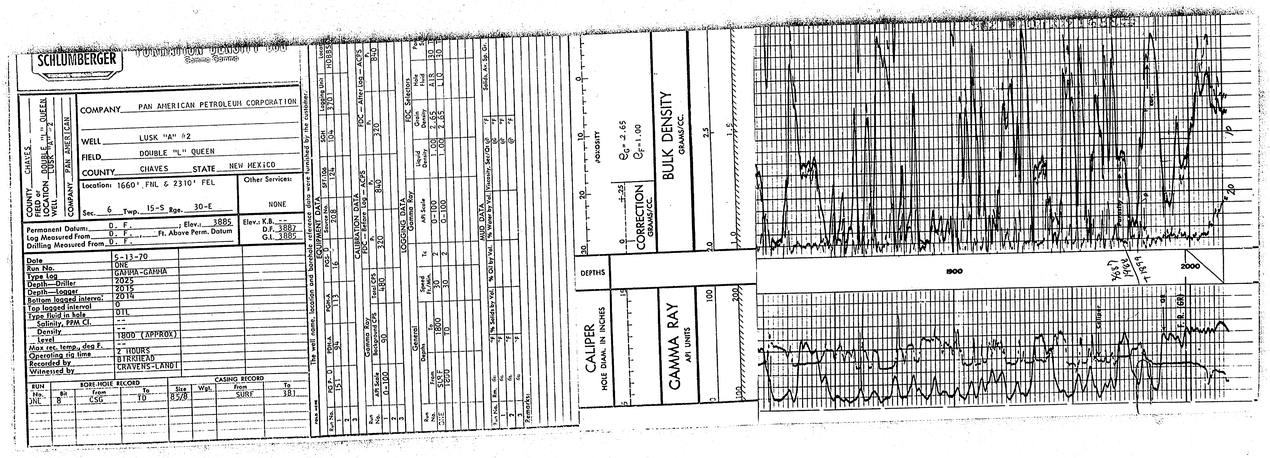
GAMMA RAY & CALIPER — 0 API — API UNITS-100 API — 10 API/CD — HOLE SIZE-INCHES 6 16

DEPTH — 2"=100 — SURF

BULK DENSITY GRAMS/CC — CORRECTION 1.0 0 2.0 — CORRECTION 2.5 3.0

PERCENT POROSITY 0 15 30 45

1000 1900 2000



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Dresser Atlas

COMPENSATED

Densilog

FILE NO.

COMPANY PAN AMERICAN PETROLEUM CORPORATION

WELL LUSK "A" NO. 3

FIELD DOUBLE "L" QUEEN

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 330' FNL & 989.3' FEL

Other Services

SEC. 6 TWP. 15-S RGE. 30-E

Permanent Datum	G.L.	Elev. 3895'	(Equals)
Log Measured from	K.B.	11 Ft. Above Permanent Datum	KB 3906'
Drilling Measured from	K.B.		DF 3905'
			GL 3895'

Date	7-6-70		
Run No.	ONE		
Depth—Driller	2048		
Depth—logger	2040		
Bottom logged interval	2038		
Top logged interval	SURF		
Casing—Driller	8 5/8@ 358	@	@
Casing—logger	358		
Bit Size	7 7/8		
Type Fluid in Hole	SALT BASE MUD		
Density and Viscosity	10.1 37		
pH and Fluid Loss	- -		
Source of Sample	PIT		
Rm @ Meas. Temp.	.040 @ 80 F	@ F	@ F
Rmf @ Meas. Temp.	.040 @ 80 F	@ F	@ F
Rmc @ Meas. Temp.	@ F	@ F	@ F
Source of Rmf and Rmc	MEASURED		
Rm @ BHT	.035 @ 90 F	@ F	@ F
Time Since Circ.	2 HRS.		
Max. Rec. Temp. Deg. F.	90		
Equip. No. and Location	6040 HOBBS		
Recorded By	HOWE		
Witnessed By	MR. LAUDI-MR. CRAVENS		

Densilog

Run No.	ONE		
Depth—Driller	2045		
Depth—logger	2038		
Bottom logged interval	2038		
Top logged interval	358		
Type Fluid in Hole	SALT BASE MUD		
Salinity, PPM Cl	150,000		
Density	10.1		
Viscosity	37		
Source of Sample	PIT		
Rm @ Meas. Temp.	.040 @ 80 F		
Rmf @ Meas. Temp.	.040 @ 80 F		
Rmc @ Meas. Temp.	@ F		
Source of Rmf and Rmc	MEASURED		
Rm @ BHT	.035 @ 90 F		
Time Since Circ.	2 HRS.		
Max. Rec. Temp. Deg. F.	90		
Equip. No. and Location	6040 HOBBS		
Recorded By	HOWE		
Witnessed By	MR. LAUDI-MR. CRAVENS		

Densilog

Equipment Data			
Run No.	ONE		
Tool Model No.	3622		
Serial No.	1478		
Date	7-6-70		
Type Model No.	502A		
Serial No.	501		
Source Strength	40C		
Detector	SCINTIL-PBG		
Max. Rec. Temp.	90		
Calibration Data			
Calibrator Model No.	CC-132		
Serial No.	71		
Calibrator Data			
	SCINTIL-PBG		
	RIB-PBG		
Logging Data			
Gamma Ray			
Run No.	ONE		
Tool Model No.	3622		
Serial No.	1478		
Density			
Run No.	ONE		
Tool Model No.	3622		
Serial No.	1478		
Source

Densilog

FILE NO.	
COMPANY	AMOCO PRODUCTION COMPANY
WELL	FALCOST "A" FEDERAL No. 1
FIELD	DOUBLE "L" (QUEEN)
COUNTY	CHAVES STATE NEW MEXICO
LOCATION:	990' FSL & 330' FEL
Other Services	NONE
SEC 23 TWP 14-S RGE 29-E	

Permanent Datum	G.L.	Elev. 3986'	K.B.	3996
Log Measured from	K.B.	10' Ft. Above Permanent Datum	D.F.	—
Drilling Measured from	K.B.		G.L.	3986

Date	3-15-71			
Run No.	ONE			
Depth—Driller	1951			
Depth—Logger	1950			
Bottom Logged Interval	1949			
Top Logged Interval	SURFACE			
Casing—Driller	8 5/8 @ 342	@	@	@
Casing—Logger	342			
Bit Size	7 7/8			
Type Fluid in Hole	SALT GEL			
Density and Viscosity	10.0	41		
pH and Fluid Loss	—	20 cc	cc	cc
Source of Sample	PIT			
Rm @ Meas. Temp.	.098 @ 74 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.078 @ 74 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M	—	—	—
Rm @ BHT	.038 @ 91 °F	@ °F	@ °F	@ °F
Time Since Circ.	3 HR			
Max. Rec. Temp. Deg. F	91	°F	°F	°F
Equip. No. and Location	5096 Hobbs			
Recorded By	HOWE			
Witnessed By	MR. CHILCUS			

RETAINED IN PROJ. ROOM-SIG

Gamma Ray Neutron — Reference Data — Density Log

Run No.	ONE	Run No.	—	Run No.	ONE	Run No.	—	Run No.	ONE	Run No.	—
Date	3-15-71	Date	—	Date	3-15-71	Date	—	Date	3-15-71	Date	—
Depth—Driller	1951	Depth—Driller	—	Depth—Driller	1951	Depth—Driller	—	Depth—Driller	1951	Depth—Driller	—
Depth—Logger	1950	Depth—Logger	—	Depth—Logger	1950	Depth—Logger	—	Depth—Logger	1950	Depth—Logger	—
Bottom Logged Interval	1949	Bottom Logged Interval	—	Bottom Logged Interval	1949	Bottom Logged Interval	—	Bottom Logged Interval	1949	Bottom Logged Interval	—
Top Logged Interval	350	Top Logged Interval	—	Top Logged Interval	350	Top Logged Interval	—	Top Logged Interval	350	Top Logged Interval	—
Type Fluid in Hole	SALT GEL	Type Fluid in Hole	—	Type Fluid in Hole	SALT GEL	Type Fluid in Hole	—	Type Fluid in Hole	SALT GEL	Type Fluid in Hole	—
Salinity, PPM Cl	160,000	Salinity, PPM Cl	—	Salinity, PPM Cl	160,000	Salinity, PPM Cl	—	Salinity, PPM Cl	160,000	Salinity, PPM Cl	—
Density	10.0	Density	—	Density	10.0	Density	—	Density	10.0	Density	—
Matrix	SAND	Matrix	—	Matrix	SAND	Matrix	—	Matrix	SAND	Matrix	—
Hole Fluid Factor	1.00	Hole Fluid Factor	—	Hole Fluid Factor	1.00	Hole Fluid Factor	—	Hole Fluid Factor	1.00	Hole Fluid Factor	—
Recorded By	HOWE	Recorded By	—	Recorded By	HOWE	Recorded By	—	Recorded By	HOWE	Recorded By	—
Witnessed By	MR. CHILCUS	Witnessed By	—	Witnessed By	MR. CHILCUS	Witnessed By	—	Witnessed By	MR. CHILCUS	Witnessed By	—

Gamma Ray Neutron — Gamma Ray Log

Run No.	ONE	Run No.	—
Date	3-15-71	Date	—
Depth—Driller	1951	Depth—Driller	—
Depth—Logger	1950	Depth—Logger	—
Bottom Logged Interval	1949	Bottom Logged Interval	—
Top Logged Interval	350	Top Logged Interval	—
Type Fluid in Hole	SALT GEL	Type Fluid in Hole	—
Salinity, PPM Cl	160,000	Salinity, PPM Cl	—
Density	10.0	Density	—
Matrix	SAND	Matrix	—
Hole Fluid Factor	1.00	Hole Fluid Factor	—
Recorded By	HOWE	Recorded By	—
Witnessed By	MR. CHILCUS	Witnessed By	—

Gamma Key

Run No.	ONE	Run No.	—
Date	3-15-71	Date	—
Depth—Driller	1951	Depth—Driller	—
Depth—Logger	1950	Depth—Logger	—
Bottom Logged Interval	1949	Bottom Logged Interval	—
Top Logged Interval	350	Top Logged Interval	—
Type Fluid in Hole	SALT GEL	Type Fluid in Hole	—
Salinity, PPM Cl	160,000	Salinity, PPM Cl	—
Density	10.0	Density	—
Matrix	SAND	Matrix	—
Hole Fluid Factor	1.00	Hole Fluid Factor	—
Recorded By	HOWE	Recorded By	—
Witnessed By	MR. CHILCUS	Witnessed By	—

Gamma Ray Neutron — Density Log

THE WESTERN COMPANY
Gammatron

RUN NO. 116541-H

COMPANY DALPORT OIL COMPANY
WELL AMERADA FEDERAL #1
FIELD WILDCAT
COUNTY CHAVES STATE NEW MEXICO
LOCATION: 660' FSL 1980' FEL
OTHER SERVICES:
SEC. 19 TWP. 13-S RGE. 30-E

PERMANENT DATUM GROUND LEVEL ELEV. 3818
LOG MEASURED FROM K.B. 10 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM K.B.

DATE	11-13-69	11-13-69
RUN NO.	ONE	ONE
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH-DRILLER	1904	1904
DEPTH-LOGGER	1905	1905
BTM. LOG INTERVAL	1656	1905.0
TOP LOG INTERVAL	SURFACE	SURFACE
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL.		
DENSITY		
LEVEL	2ft	
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	FROST	
WITNESSED BY	MR. LAMBERT	

BORE HOLE RECORD

BIT NO.	FROM	TO

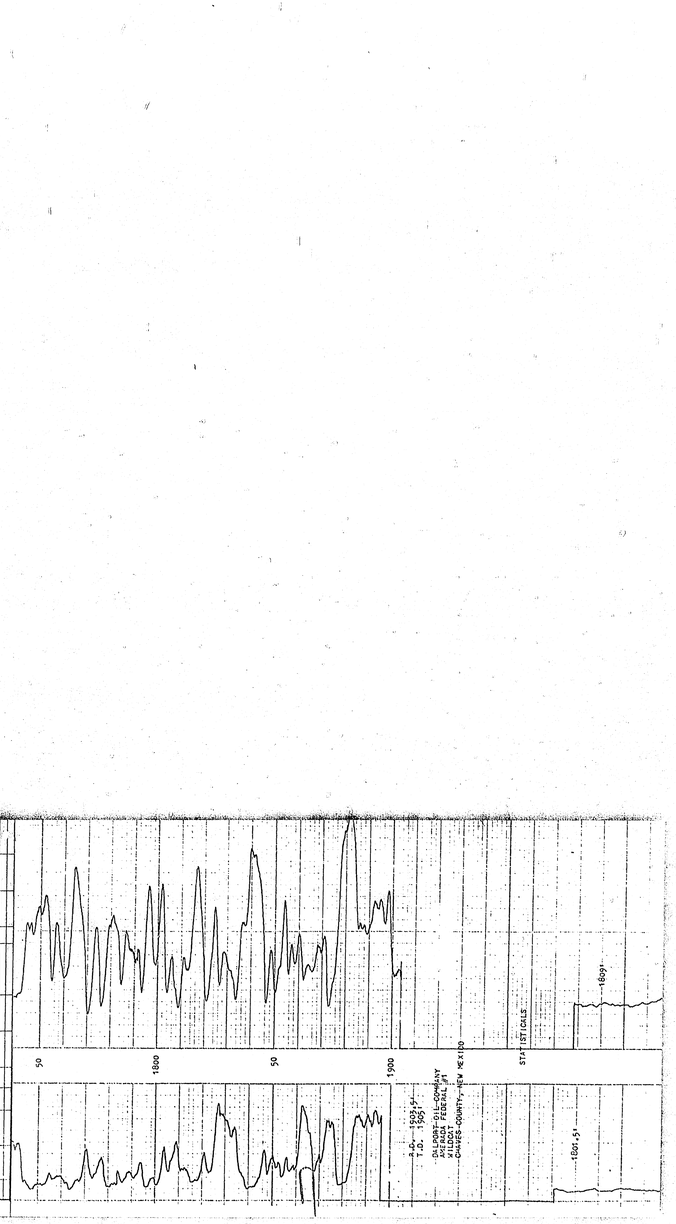
CASING RECORD

SIZE	WGT.	FROM	TO
8 5/8		SURFACE	256

THIS RECORD IS USE CONTROL TO AN M.P.T.

COMPANY DATA
GAMMA RAY
SONDE NO. 506
CABLE NO. 34
SKID NO. 12
SCINT. NO. 1
PMT NO. 1008
NEUTRON
SONDE NO.
BOOSTER
BOOSTER NO.
TYPE
SCINT. NO.
DISTANCE TO N. SOURCE
CENTER
HOST FRAME NO.
HOST FRAME TYPE NO.
TOOL SERIAL NO.
LOGGING DATA
GAMMA RAY
BKG. SETTING 0
API & MFG. PER LOG INC. 8
SENS. SETTING 2.0
TIME CONST. RC 3
SPEED 30
TO SURFACE
NEUTRON
BKG. SETTING 0
API & MFG. PER LOG INC. 8
SENS. SETTING 2.0
TIME CONST. RC 3
SPEED 30
TO SURFACE

NO.	FROM	TO
1	1905.5	SURFACE



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THE WESTERN COMPANY

Gammatron

FILING NO.

COMPLETE/INITIAL

107000-H

COMPANY Enjoy Oil Corporation

WELL Sunset State #2

FIELD Double Mtn

COUNTY Chaves STATE New Mexico

LOCATION 2310' FSL & 330' FEL

OTHER SERVICES:

SEC. 12 TWP. 15-S RGE. 32-E

PERMANENT DATUM Ground Level ELEV. 3895 ELEV. K.B. 3905

LOG MEASURED FROM 10 FT. ABOVE PERM. DATUM D.F.

DRILLING MEASURED FROM KB G.L. 3895

DATE	12-13-70	12-23-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2027	2027
DEPTH-LOGGER	2021	2021
BTM. LOGGED INTERVAL	2012	2019.5
TOP LOGGED INTERVAL	surface	surface
TYPE FLUID IN HOLE	water	water
SALINITY, PPM CL		
DENSITY		
LEVEL	full	full
MAX. REC. TEMP. DEG. F.		
OPERATING RIG TIME	2 hours	
RECORDED BY	Wallace	
WITNESSED BY	Mr. Ergueta	

RUN NO.	BIT	FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
				8 5/8	20	surface	338
				5½	14.5	surface	2029

THE READING AND USE OF THIS LOG IS SUBJECT TO API RP 33

FORM 1-495

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company ENJOY OIL CORPORATION — Core Type DIAMOND & SIDE — File 192-70-3343
Well SUNSET STATE NO. 2 — Drilling Fluid WATER BASE MUD — Date Report 12-11-70
Field DOUBLE MTN — Elevation 3895 K.B. — Analysts GUFF
County CHAVES — State NEW MEXICO — Formation SAN ANDRES — Remarks 12-7155-4356

CONVENTIONAL ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MAXIMUM	PERMEABILITY 90°	POROSITY %	WATER % PORE SPACE	OIL % PORE SPACE	GRAIN DENSITY	SATURATION METHOD
	2015.0-79.0						ABBY	
	2079.0-80.0						ABBY	
1	80.0-81.0	730	26.1	18.4	56.3		SD	
2	81.0-82.0	1115	27.1	19.2	44.0		SD	
3	82.0-83.0	1158	28.2	18.7	44.0		SD	
4	83.0-84.0	246	29.1	18.2	44.0		SD	
5	84.0-85.0	1.3	14.8	13.5	59.4		SD	
6	85.0-86.0	1.2	12.9	12.6	60.7		SD	
7	86.0-87.0	0.4	12.3	11.6	60.7		SD	
8	87.0-88.0	55	24.6	17.9	41.6		SD	
9	88.0-89.0	435	26.7	19.1	41.6		SD	
10	89.0-90.0	248	28.2	18.2	35.4		SD	
11	90.0-91.0	82	27.7	11.5	49.4		SD	
12	91.0-92.0	1.6	20.6	5.3	54.1		SD	
13	92.0-93.0	1.1	15.5	5.3	59.4		SD	
14	93.0-94.0	0.1	11.9	0.0	74.0		SD	
15	94.0-95.0	0.6	17.4	2.9	73.0		SD	
16	95.0-96.0	0.4	15.9	4.7	68.4		SD	
	96.0-98.0						SD	
	1998.0-2021.0						ABBY	

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

GAMMA RAY

"I" CASING

WELL HISTORY

SPUD DATE

COMP. DATE

DATE TESTED

V.R.N.C.F. MICROGRAPHICS

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V.R.M.C.F. MICROGRAPHICS

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WELEX GEOSCIENCE COMPANY

Gammatron

FILING NO. 40935-N

COMPANY DALPORT OIL CORPORATION

WELL SPURCK ST. #2

FIELD WILDCAT

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 1980' FNL & 660' FEL

SEC 36 TWP. 11S RGE. 29E

OTHER SERVICES: 3966'

PERMANENT DATUM: GROUND LEVEL ELEV. 3819 EST

LOG MEASURED FROM: 10 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM: KB

ELEV.: K.B. 3829

D.F. 3819 EST

G.L. 3819 EST

DATE	4-10-69	4-10-69
RUN NO.	ONE	ONE
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	1966	1966
DEPTH—LOGGER	1956.5	1956.5
BTTOM LOGGED INTERVAL	1947.5	1955
TOP LOGGED INTERVAL	SURFACE	SURFACE
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	1401	FULL
MAX. REC. TEMP. DEG. F		
OPERATING RIG TIME	2 HOURS	
RECORDED BY	CORGILL	
WITNESSED BY	MR. LAMPERT	DO NOT WRITE ABOVE THIS LINE

BORE-HOLE RECORD			CASING RECORD			
BIT NO.	FROM	TO	SIZE	WGT.	FROM	TO
			8 5/8		SURFACE	350

CASING DATA

DEPTH CONTROL MEASUREMENTS

Log No. 1 (1956-2562)

1956.5-1951.0
1951.0-1946.0
1946.0-1941.0
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Gamma Ray
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U.S.N.C.F. MICROGRAPHICS
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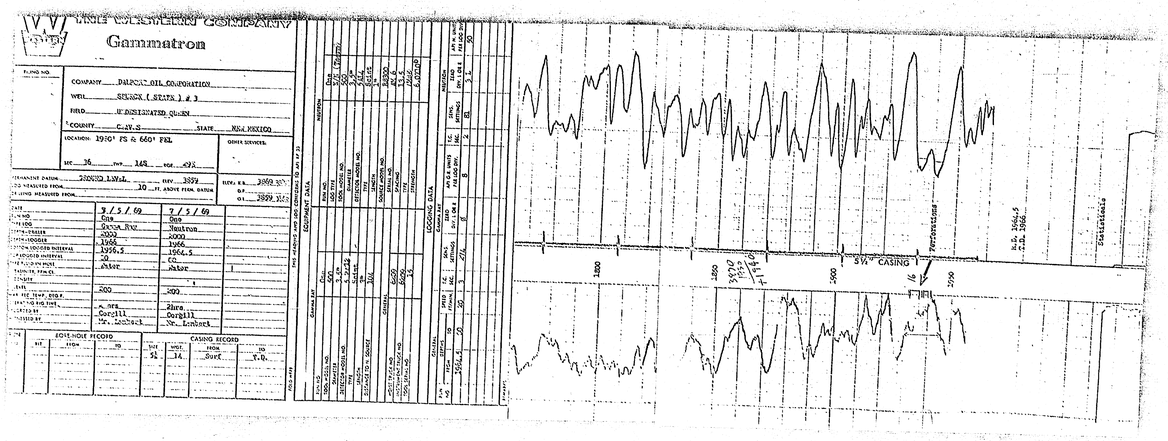

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Gammatron

FILING NO. 76928-H

COMPANY Dalport Oil Corporation

Confidential Go not release

WELL Spurck State #4

FIELD Undesignated

COUNTY Chaves STATE New Mexico

LOCATION: 1980'FNL 1980'FEL

OTHER SERVICES:

SEC. 36 TWP. 14-S RGE. 29-E

PERMANENT DATUM Ground Level ELEV. 3847

LOG MEASURED FROM FT. ABOVE PERM. DATUM ELEV.: K.B. 3857 3850

CASING MEASURED FROM D.F. G.L. 3847 3840

DATE	7-8-59	7-3-59
RUN NO.	One-XM	One-XM
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER	1970	1970
DEPTH—LOGGER	1968.5	1964.5
BTM. LOGGED INTERVAL	1959.5	1957
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	Full	Full
MAX. REC. TEMP. DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Wheatley	
WITNESSED BY	Mr. Lewis Leppert	

BORE-HOLE RECORD

BIT NO.	FROM	TO	SIZE	WGT.	FROM	TO
			9½	34	Surface	T.D.
			7⅞			

CASING RECORD

CORE ANALYSIS RESULTS

Page No. 1

Company Dalport Oil Corporation Formation Queen File XP-2-2826

Well Spurck State #4 Core Type Diamond-A 3 1/2in. Date Run 7-6-59

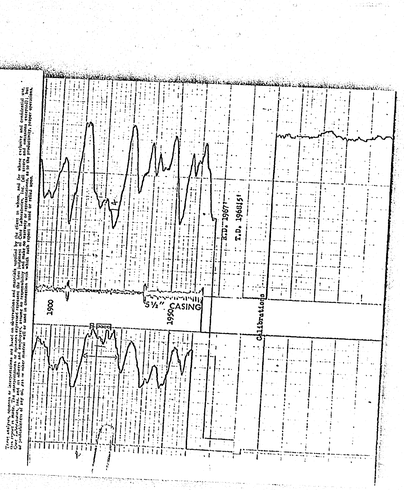
Field Undesignated Mud Type Native Water Base Mud Analysts MOORE

County Chaves Sec/Twp/Rge Unknown 3857KB Elevation Unknown

Lithological Abbreviations

CONVENTIONAL ANALYSES

	Interval	Permeability Maximum	Permeability 90° to Max.	Porosity %	Residual Fluid Saturation % Oil	Residual Fluid Saturation % Water	Lithological Abbreviations
1	1916.0-17.0						Anhydrite
2	1917.0-18.0	1.0		9.6	16.6	41.7	Dolomite
3	1918.0-19.0	0.8		7.1	9.9	39.2	Sand, Any
4	1919.0-20.0	0.6		4.9	0.0	81.7	Sand
5	20.0-21.0	0.7		5.5	9.5	42.5	Sand
6	21.0-22.0	0.7		10.1	16.1	26.2	Sand
7	22.0-23.0			16.2	19.2	38.3	Sand
8	23.0-24.0	14	29	19.3	24.6	39.5	Sand
9	24.0-25.0	3.0	5.4	17.0	25.1	35.3	Sand
10	25.0-26.0	8.4	7.2	14.1	24.1	37.6	Sand
	26.0-27.0		1.2	15.5	5.2	71.2	Sand
	27.0-28.0						Sand, Any
	1928.0-29.0						Anhydrite
	1929.0-30.0						Sand, Any
	1930.0-31.0						
	1931.0-32.0						
	1932.0-33.0						



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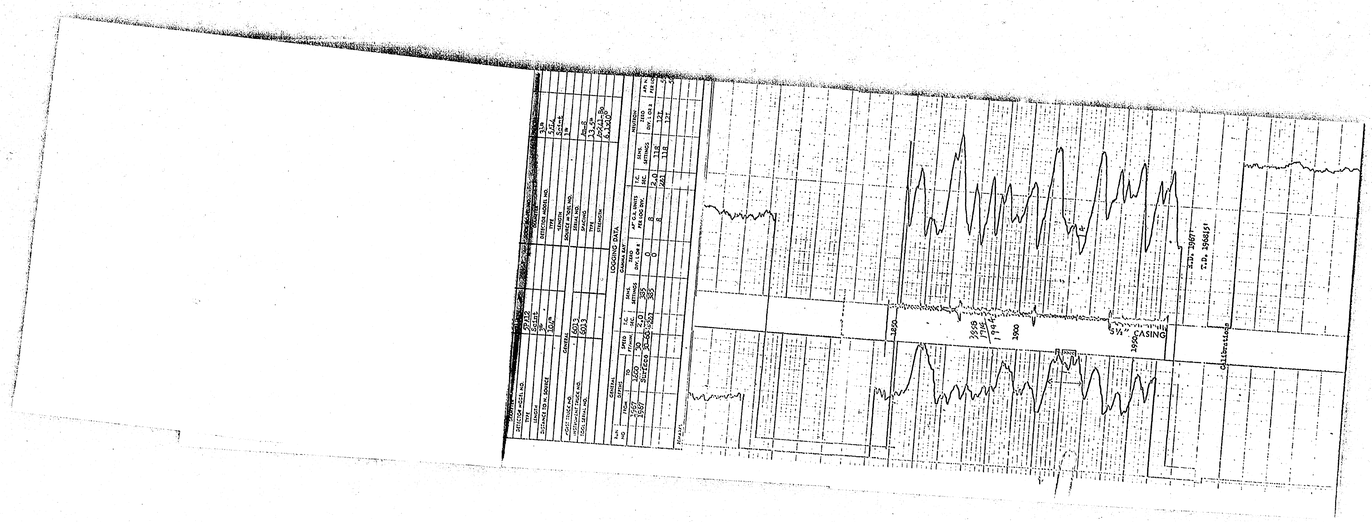

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SCHLUMBERGER

COUNTY CHAVES
FIELD OR LOCATION SEMI-WILDCAT
WELL SPURCK STATE #5
COMPANY DALPORT OIL CORP.

COMPANY DALPORT OIL CORPORATION

WELL SPURCK STATE #5

FIELD SEMI-WILDCAT

COUNTY CHAVES STATE NEW MEXICO

Location: 1980' FSL & 1980' FEL SEC 36, TWP 14S, RGE 29E

Other Services:

Permanent Datum:	G.L.	Elev.: 3864	Elev. K.B. 3864
Log Measured From	K.B.	10 Ft. Above Perm. Datum	D.F. 3863
Drilling Measured From	K.B.		G.L. 3854

Date	7-30-69		
Run No.	ONE		
Type Log	FDC-GR		
Depth—Driller	3632		
Depth—Logger	3630		
Bottom logged interval	3629		
Top logged interval	0		
Type fluid in hole	SALT WATER		
Salinity, PPM Cl.	250000		
Density	10		
Level	FULL		
Max rec. temp., deg F.	95		
Operating rig time	3 HOURS		
Recorded by	SLADEN		
Witnessed by	LAMBERT		

RUN No.	Bit No.	BORE-HOLE RECORD From	To	CASING RECORD Size	Wgt.	From	To
1	7 7/8	313	3630	9 5/8		SURF	313

The well name, location and elevation information were furnished by the customer.

Page No.

CORE LABORATORIES, Inc.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company DALPORT OIL CORPORATION Formation QUEEN File SY-3-2310
Well SPURCK STATE NO. 5 Core Type DIAMOND Date Report 2-13-69
Field SEMI-WILDCAT Elevation 3864 KB Analysts ROBERTS, SMITH
County CHAVES State NEW MEXICO Loc. 1980' FSL & 1980' FEL of Sec. 36, T-14S, R-29E

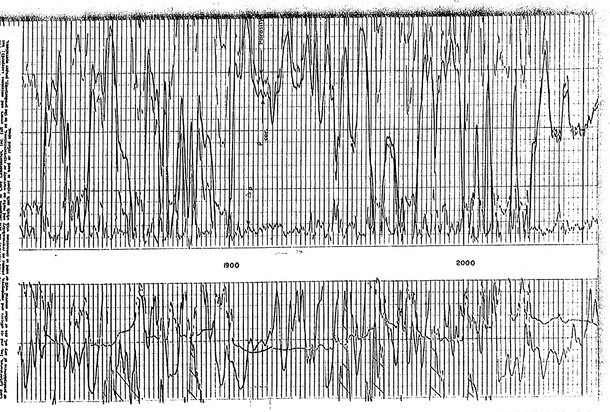
Lithological Abbreviations

- INDICATES CONVENTIONAL ANALYSIS

CONVENTIONAL ANALYSIS AND WHOLE-CORE ANALYSIS

Sample Number	Depth Feet	Permeability Maximum	Permeability 90° to Maximum	Porosity %	Residual Fluid Saturation % Oil	Residual Fluid Saturation % Water	Grain Density	Lithological Abbreviations
	1906.0-09.0 - CORE NO. 1							Anhydrite
	1909.0-07.5							Dolomite
	1907.5-08.5							Dolomite
	1908.0-13.0							Dolomite
* 1	1913.0-14.0	<0.1		5.7	12.3	31.0		Sand, EFP, fn grn
* 2	14.0-15.0	1.9		10.3	8.8	40.4		Sand, EFP, fn grn
* 3	15.0-16.0	0.2		8.8	10.5	69.2		Sand, EFP, fn grn
* 4	16.0-17.0	1.6		9.7	12.4	37.2		Sand, EFP, fn grn
* 5	17.0-18.0	0.6		10.6	11.5	40.3		Sand, EFP, fn grn
* 6	18.0-19.0	2.5		9.6	8.4	49.2		Sand, EFP, fn grn
* 7	19.0-20.0	0.4		15.1	9.0	81.2		Sand, EFP, fn grn
* 8	20.0-21.0	0.6		9.4	5.3	72.4		Sand, vsc, fn grn
	1911.0-13.0							Sand, EFP, fn grn
	1913.0-15.0							Sand, EFP, fn grn
	1915.0-20.5							Sand, EFP, fn grn
	1920.5-21.0 - CORE NO. 2							
9	1921.0-22.0	<0.1	1.0	10.4	56.2			Dolomite, anhy
10	22.0-23.0	<0.1	1.9	10.1	78.7			Dolomite, anhy
11	23.0-23.5	<0.1	1.5	10.8	76.2			Dolomite, anhy
12	23.5-25.2	0.1	<0.1	3.8	4.7	51.7		Dolomite, anhy
13	25.2-26.2	0.1	<0.1	4.5	6.9	61.3		Dolomite, anhy
14	26.2-28.1	0.1	<0.1	5.3	5.4	54.5		Dolomite, anhy
15	28.1-29.5	<0.1	<0.1	2.9	7.9	55.9		Dolomite, anhy
16	29.5-31.0	<0.1	<0.1	1.7	10.7	58.3		Dolomite, anhy
17	31.0-31.2	<0.1	<0.1	1.6	9.2	62.2		Dolomite, anhy
18	31.2-31.6	0.4	0.2	4.8	7.3	51.4		Dolomite, anhy, frac
19	31.6-32.5	0.4	<0.1	2.1	11.8	53.0		Dolomite, anhy
	32.5-37.0							Dolomite, anhy
20	3237.0-38.5	<0.1	<0.1	1.1	15.3	55.0		Dolomite, anhy, shy
21	38.5-40.0	<0.1	<0.1	2.8	2.9	73.9		Dolomite, anhy
	3240.0-57.0							Dolomite, anhy
	3257.0-3289							Drilled
	3289.0-21.0 - CORE NO. 3							
22	3289.0-90.5	4.4	0.1	5.2	4.4	10.1	51.5	Dolomite, anhy
23	90.5-92.5	0.4	0.1	5.2	15.0	46.9	63.3	Dolomite, anhy
24	3292.5-94.0	<0.1	<0.1	3.2	7.8	63.3		Dolomite, anhy, sl/frac

Core analysis results and descriptions on this report and subsequent pages are recommendations based upon an examination of the core samples submitted. The opinions or interpretations expressed are those of qualified petroleum engineers and geologists, but Core Laboratories, Inc. and its officers and employees, assume no responsibility for the use made of this report for any purpose.



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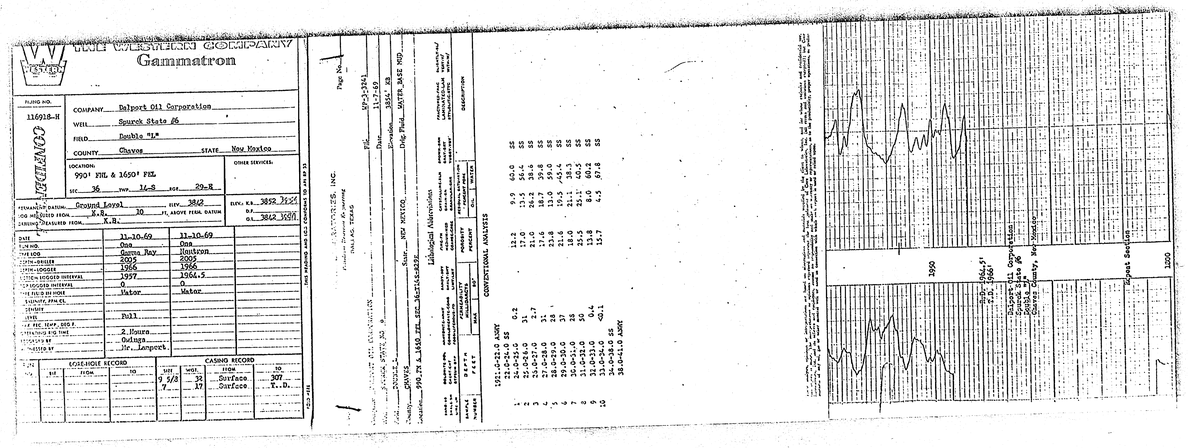

WELL WELL LOGGING COMPANY

Gammatron

FILING NO. 116918-H

COMPANY Dalport Oil Corporation

WELL Spurck State #6

FIELD Double "L"

COUNTY Chaves STATE New Mexico

LOCATION: 990' FNL & 1650' FEL

SEC. 36 TWP. 12-S RGE. 29-E

OTHER SERVICES:

PERMANENT DATUM: Ground Level ELEV. K.B. 3852 D.F. G.L. 3842

LOG MEASURED FROM K.B. 10 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM K.B.

DATE	11-10-69	11-10-69
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2025	2025
DEPTH-LOGGER	1966	1966
BTM. LOGGED INTERVAL	1957	1964.5
TOP LOGGED INTERVAL	0	0
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	Full	
MAX. REC. TEMP., DEG. F.		
ESTIMATED STD. TIME	2 Hours	
RECORDED BY	Outgas	
WITNESSED BY	Mr. Langeck	

CASING RECORD

BIT RECORD			CASING RECORD			
BIT	FROM	TO	SIZE	WGT.	FROM	TO
			9 5/8	32	Surface	307
			7	17	Surface	T.D.

DUAL INDUCTION AND GUARD LOG RECORDED ON SEPARATE FILM

FORM 3-3161

THE WELL LOGGING COMPANY, INC.
Petroleum Engineering Service
Roswell, New Mexico

Page No. 1

File W-3-3761

Date 11-7-69

Location 3852' KB

Orig Field WATER BASE MUD

County CHAVES State NEW MEXICO

Location 990 FN & 1650 FEL Sec. 36 Twp. 12S Rge. 29E

Log Measured From K.B. 10 Ft. Above Perm. Datum

Drilling Measured From K.B.

Lithological Abbreviations

CONVENTIONAL ANALYSIS

1951.0-52.0 ANHY
52.0-54.0 SS

1	54.0-54.5	0.2	12.2	3.9	60.0	SS
	54.5-55.0		13.0	5.5	59.4	SS
2	55.0-63.0	31	24.2	19.4		SS
	63.0-67.0	2.7	21.0	14.6		SS
3	67.0-68.0	31	17.6	18.7	39.8	SS
	68.0-73.0	18	19.8	19.5	45.0	SS
4	73.0-74.0	38	21.4	19.3	43.4	SS
5	74.0-76.0	31	18.0	21.1	38.3	SS
6	76.0-81.0	38	16.6	21.5	45.6	SS
7	81.0-82.0	10	13.6	8.0	60.2	SS
8	82.0-83.0	0.4	15.7	4.5	67.8	SS
9	83.0-84.0	40.1				
10	84.0-88.5 SS					
	88.5-91.0 ANHY					

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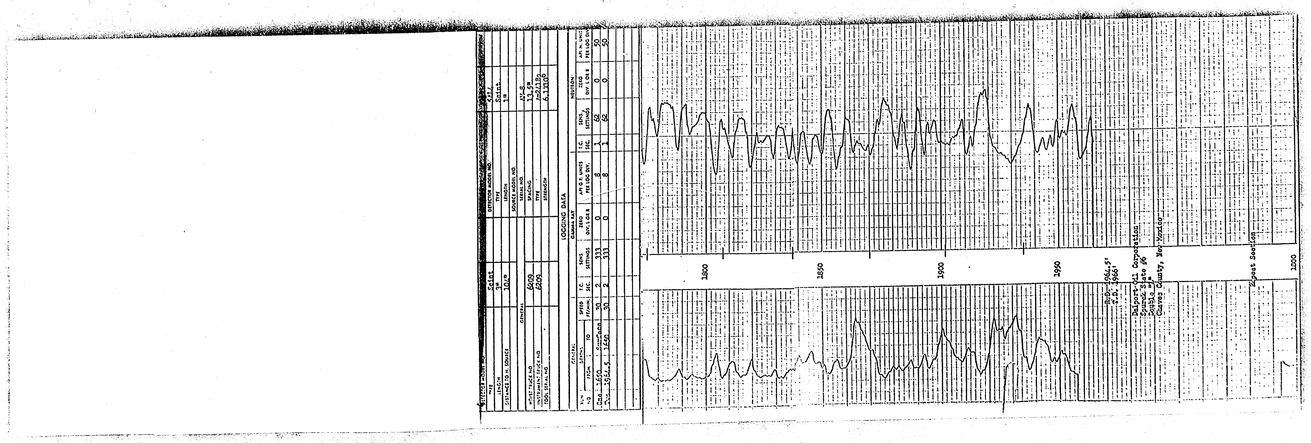

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THE WESTERN COMPANY

Gammatron

FILING NO. 116970-H

COMPANY DALPORT OIL CORPORATION

WELL SPURCK STATE #7

FIELD DOUBLE "L"

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 950' FNL 660' FEL

OTHER SERVICES:

SEC. 36 TWP. 14-S RGE. 29-E

PERMANENT DATUM GROUND LEVEL ELEV. 3840

LOG MEASURED FROM 10 FT. ABOVE PERM. DATUM

ENGINEERING MEASURED FROM

ELEV.: K.B. 3857 D.F. 3850 G.L. —

DATE	11-23-69	11-23-69
RUN NO.	ONE-AW	ONE-AW
TYPE LOG	CARBON RAY	NEUTRON
DEPTH-DRILLER	1980	1980
DEPTH-LOGGER	1976	1978
BOTTOM LOGGED INTERVAL	1969	1976.5
TOP LOGGED INTERVAL		
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	FULL	
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME	PORTABLE	
RECORDED BY	MANN	
WITNESSED BY		

BORE-HOLE RECORD

BIT NO.	SIZE	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
5½		SURFACE	1968

ADD-2414

Page No. 1

Prs. Related and Geo. Services Offered by and to

THE DOWELL DIVISION OF THE DOW CHEMICAL COMPANY
Petroleum Services Exploration
DALLAS, TEXAS

File: VP-3-2868

Date: 11-17-69

Division

Dist. or Plant: WATER BASE MUD

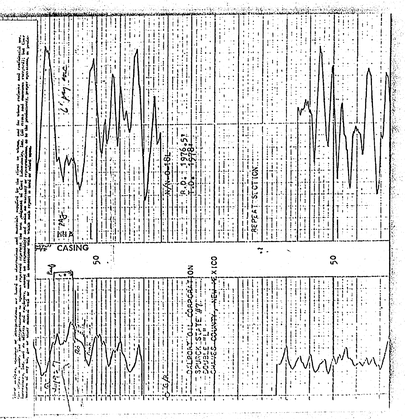
State: NEW MEXICO

Location: SEC 36-14S-29E

Lisington Intervision

COMPUTERIZED ANALYSIS

	1255.0-36.0 ANDY						
	36.0-36.5 SSL						
	36.5-38.5 SS						
1	38.0-39.0	21	20.7	23.2	44.0	SS	
2	39.0-40.0	23	20.8	24.5	45.0	SS	
3	30.0-31.0	26	21.4	24.8	46.2	SS	
4	31.0-32.0	2.2	19.0	21.0	39.6	SS	
5	32.0-33.0	5.4	19.9	26.6	46.7	SS	
6	33.0-34.0	7.0	17.0	20.0	37.0	SS	
7	34.0-35.0	1.9	14.4	18.1	32.7	SS	
8	35.0-36.0	15	20.6	17.5	47.2	SS	
9	36.0-37.0	11	17.5	23.6	41.2	SS	
10	37.0-38.0	0.6	18.9	7.9	66.2	SS	
	38.0-41.5 SS, SHY						
	41.5-44.0 SHY						
	44.0-45.0 SS, SHY						



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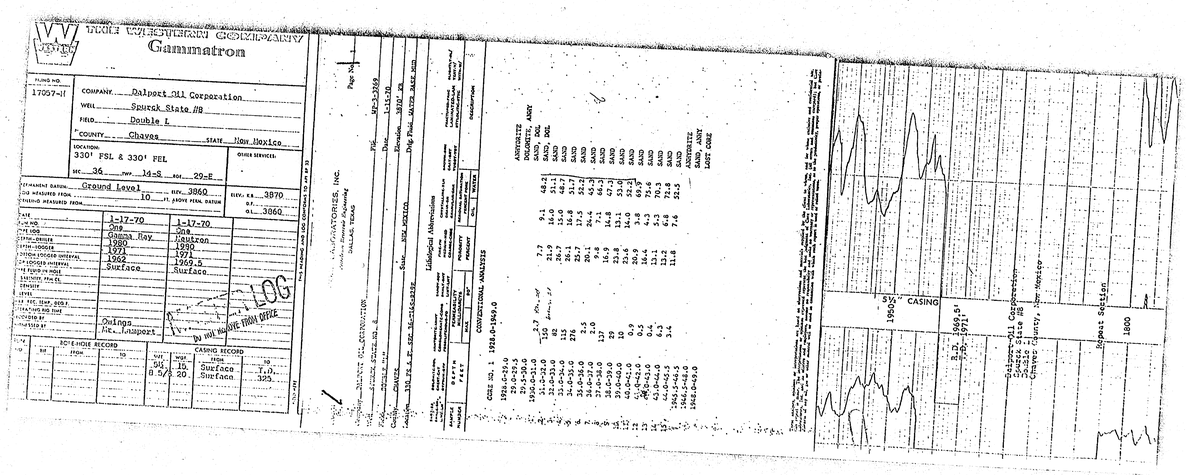

TEXAS WESTERN GEOPHYSICAL COMPANY

Gammatron

FILING NO. 17057-H

COMPANY Dalport Oil Corporation

WELL Spurck State #8

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION: 330' FSL & 330' FEL

SEC. 36 TWP. 14-S RGE. 29-E

OTHER SERVICES:

PERMANENT DATUM Ground Level ELEV. 3860

LOG MEASURED FROM KB 10 FT. ABOVE PERM. DATUM ELEV.: K.B. 3870 D.F. G.L. 3860

DATE	1-17-70	1-17-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Gamtron
DEPTH-DRILLER	1980	1969
DEPTH-LOGGER	1973	1973
BTM. LOGGED INTERVAL	1962	1969.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY		
LEVEL		
MAX. REC. TEMP. DEG. F		
EQUIP. NO. TYPE		
RECORDED BY	Owings	
WITNESSED BY	Mr. Tramport	

LOG

DO NOT REMOVE FROM OFFICE

RECORD

NO.	BIT	FROM	TO	SIZE	WGT.	TYPE	FROM	TO
				9½	15	Surface		T.D.
				8 5/8	20	Surface		325

CASING RECORD

Page No. 1

API No. 30-5-20969

Lease No. or Unit

Well No. 8

Elevation 3870' KB

Drlg. Fluid WATER BASE MUD

Rig No.

Date 1-17-70

Type Log Gamtron

Depth-Driller 1973

Depth-Logger 1973

Bottom Logged Interval 1969.5

Top Logged Interval Surface

Type Fluid in Hole

Salinity, PPM Cl

Density

Max. Rec. Temp. Deg. F.

Operating Rig Time

Recorded By Owings

Witnessed By Mr. Tramport

TEXAS WESTERN GEOPHYSICAL COMPANY, INC.
LOGGING LABORATORIES
DALLAS, TEXAS

Lithological Abbreviations

CONVENTIONAL ANALYSIS

CORE NO. 1 1958.0-1969.0

1	1958.0-59.0						
2	59.0-60.5						
3	60.5-70.5						
4	1970.0-71.0			7.7	Oil Stn. SP		
5	71.0-72.0	100	Brown, SP	21.9	9.1	48.2	ARKOSIC ARENITE SAND, SOL, ARGY
6	72.0-73.0	96		26.7	16.0	51.1	SAND
7	73.0-74.0	115		28.2	15.0	48.7	SAND
8	74.0-75.0	276		23.7	16.8	51.7	SAND
9	75.0-76.0	76.5			17.5	52.2	SAND
10	76.0-77.0	2.0		20.1	24.4	43.3	SAND
11	77.0-78.0	137		8.4	7.3	46.3	SAND
12	78.0-79.0	15		15.9	14.1	49.2	SAND
13	79.0-80.0	10		23.8	13.1	53.0	SAND
14	80.0-81.0	0.9		23.4	14.0	52.2	SAND
15	81.0-82.0	0.5		20.9	14.9	49.4	SAND
16	82.0-83.0	0.5		16.4	4.3	73.6	SAND
17	83.0-84.0	6.3		15.1	2.3	70.3	SAND
18	84.0-85.0	3.4		12.2	2.3	72.5	SAND
19	1965.5-66.5			11.8	7.6	52.5	SAND
20	1966.5-67.5						ARKOSIC ARENITE SAND, ARGY
21	1967.5-68.5						LIME STONE

5½" CASING 1960'

B.T.D. 1969.5'
T.D. 1971'

Dalport Oil Corporation
Spurck State #8
Double L
Chaves County, New Mexico

Mideast Section

1800

V.R.M.C.F. MICROGRAPHICS

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WELL OVERSEAS COMPANY

Gammatron

FILING NO. 37033-H

COMPANY Dalport Oil Corporation

WELL Spurck State #9

FIELD Double "L"

COUNTY Chaves STATE New Mexico

LOCATION: SEC. 36 TWP. 14-S RGE. 29-E

OTHER SERVICES:

PERMANENT DATUM Ground Level ELEV. N/A ELEV. K.B. 2638

LOG MEASURED FROM 8 FT. ABOVE PERM. DATUM D.F. G.L.

DRILLING MEASURED FROM G.L. 2630

DATE	3-12-70	3-12-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1995	1995
DEPTH-LOGGER	1984	1984
BOTTOM LOGGED INTERVAL	1975	1982.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	Full	
MAX. REC. TEMP. DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Wallace	
WITNESSED BY	Mr. Leon Lamport	

BORE-HOLE RECORD			CASING RECORD			
BIT NO.	FROM	TO	SIZE	WGT.	FROM	TO
11	Surface	325	8 5/8		Surface	325
7 7/8	325	2020	5½		Surface	2020

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File: RPC-3390
Date: 3-13-70
Run No.: One
Dwg Filed: WATER BASE MUD

Elevations: K.B. 2638 D.F. G.L. 2630

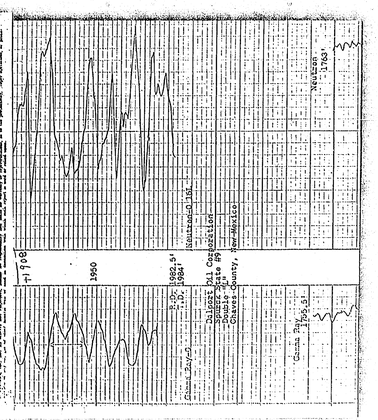
Field: NEW MEXICO

Well: 1980 FS & 1980 FEL SEC 36-14-29E

Lithological Abbreviations

CONVENTIONAL ANALYSIS

Sample Depth Feet	Permeability Maximum Horizontal Millidarcys	Permeability Maximum 90° to Horizontal Millidarcys	Residual Fluid Saturation Oil Per Cent Pore Space	Residual Fluid Saturation Water Per Cent Pore Space	Grain Density	Sample Description
1931.0-34.0 ANDY						
34.0-34.5 SH						
34.5-36.0 SS						
36.0-37.0	0.6		13.2	0.0	80.5	SS
37.0-38.0	0.2		7.2	0.0	82.5	SS
38.0-39.0	2.7		11.1	10.6	82.2	SS
39.0-40.0	15		16.0	20.6	81.8	SS
40.0-41.0	15		15.1	19.0	81.5	SS
41.0-42.0	10		12.1	33.3	81.3	SS
42.0-43.5 SS						
43.5-50.5 ANDY						
50.5-64.5 SS						



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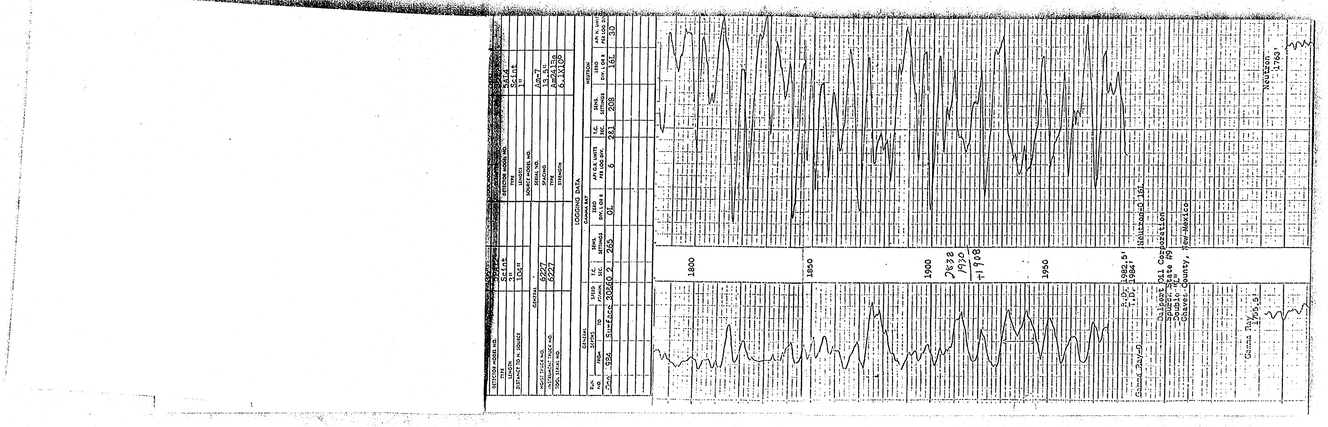

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FILING NO. 97012-H

COMPANY Dalport Oil Corporation

WELL Spurck State #10

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION: 330' FSL & 1980' FEL

SEC. 25 TWP. 14S RGE. 29E

OTHER SERVICES:

PERMANENT DATUM Ground Level ELEV. 3837 ELEV.: K.B. 3847

LOG MEASURED FROM 10 Ft. ABOVE PERM. DATUM D.F.

DRILLING MEASURED FROM G.L. 3837

DATE	9-11-70	9-11-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1970	1970
DEPTH-LOGGER	1963.5	1963.5
BOTTOM LOGGED INTERVAL	1954.5	1962
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl.		
DENSITY		
LEVEL		
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME	Portable Hunt	
RECORDED BY	Kelley	
WITNESSED BY	Mr. Lampert	

RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	SIZE	WGT.	CASING RECORD FROM	TO
				8 5/8	20	Surface	324
				5½	14	Surface	2000
	7 7/8	324	2000				

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Page No. 1

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company Dalport Oil Corporation — Formation QUEEN — File SF-9-1340
Well Spurck State No. 10 — Core Type DIAMOND, 6 3/4" — Date Report 9-16-70
Field Double L — Drilling Fluid Water Base Mud — Elevation 3837 Perm. Datum G.L. Log Measured From K.B.
County Chaves — New Mex. Pet. Engineering — Location: 330' FSL & 1980' FEL Sec. 25-14S-29E

Lithological Abbreviations

CONVENTIONAL Analysis

Sample Number	Depth Feet	Permeability Maximum Horizontal Millidarcys	Permeability Maximum 90° to Max. Millidarcys	Porosity %	Residual Fluid Saturations % Pore Space Oil	Residual Fluid Saturations % Pore Space Water	Grain Density	Core Description
	1951.0-51.0	ABSENT						
	14.0-15.0	ABSENT						
	15.0-16.0	SD	1.0	12.3	10.6	64.7	SD	
1	16.0-17.0		42	19.2	19.7	35.8	SD	
2	17.0-18.0		0.4	14.5	8.3	64.8	SD	
3	18.0-19.0		0.1	8.9	4.5	61.8	SD	
4	19.0-20.0		7.0	23.4	21.7	41.3	SD	
5	20.0-21.0		<0.1	4.4	0.0	73.0	SD	
6	21.0-22.0		40	22.2	22.1	39.4	SD	
7	22.0-23.0		1.0	13.6	12.1	35.5	SD	
8	23.0-24.0		19	24.3	21.1	38.0	SD	
9	24.0-25.0		0.4	12.1	5.8	64.0	SD	
10	25.0-26.0	SD						
	26.0-30.0	ABSENT						
	30.0-34.0	ABSENT						
	1934.0-35.0	SD						

5½" CASING
1950

Neutron-Gamma Ray

Dalport Oil Corporation
Spurck State #10
Double L
Chaves County, New Mexico

Statistically

Neutron at 1962'

Gamma Ray at 1954.5'

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WELL CLASSIFIED COMPANY

Gammatron

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FILING NO. 671116H

COMPANY Dalport Oil Corporation

WELL Spurck State #11

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION: 2310' FS & WL

OTHER SERVICES:

SEC. 25 TWP. 14-S RGE. 29-E

PERMANENT DATUM Ground Level ELEV. 3819'

LOG MEASURED FROM 10 FT. ABOVE PERM. DATUM

CASING MEASURED FROM

ELEV. K.B. 3829'

D.F.

G.L. 3819'

DATE	6-24-71	6-24-71		
RUN NO.	One	Two		
TYPE LOG	Gamma Ray	Neutron		
DEPTH-DRILLER	1981'	1981'		
DEPTH-LOGGER	1949.5'	1949.5'		
BOTTOM LOGGED INTERVAL	1940.5'	1948'		
TOP LOGGED INTERVAL	0	0		
TYPE FLUID IN HOLE	Water	Water		
SALINITY, PPM CL				
DENSITY				
LEVEL	Full			
MAX. REC. TEMP. DEG. F				
OPERATING RIG TIME	2 ½ Hours			
RECORDED BY	Tate			
WITNESSED BY	Mr. Lampert			

BIT RUN	BOREHOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGHT.	FROM	TO
				8-5/8		iFace	226'
				5 1/2		Surface	1981'

Page No. 1

Dalport Oil Corporation
Spurck State #11
Double L
Chaves County, New Mexico

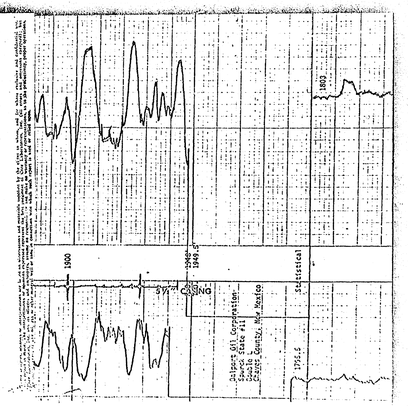
CORE ANALYSIS RESULTS

Formation: Yates
Shot: 3810' - 3830'
Drilling Fluid: Water Base Mud
Elevation: 3819' DF Elevation: 3829'
Bor. 3810' Elevation: 3819' DF Elevation: 3829'

Lithological Abbreviations

CONVENTIONAL ANALYSIS

Depth	Permeability Maximum	Permeability 90°	Porosity %	Residual Saturation Oil	Residual Saturation Water	Grain Density	Sample Description
3801.0-03.0	300.						
03.0-07.0	89.						
07.0-08.0		0.4	14.7	10.2	60.4	SD	
08.0-09.0		11.	14.7	11.6	62.2	SD	
09.0-10.0		14.6	15.3	14.0	63.5	SD	
10.0-11.0		74.	23.0	17.9	34.4	SD	
11.0-12.0		34.	20.0	14.0	43.2	SD	
12.0-13.0		1.3	15.5	6.5	43.0	SD	
13.0-14.0		1.4	13.5	9.7	43.0	SD	
14.0-15.0		21.	16.9	17.8	39.0	SD	
15.0-16.0		15.	21.2	17.2	42.2	SD	
16.0-17.0		0.5	25.2	17.5	42.9	SD	
17.0-18.0			21.0	3.8	62.9	SD	
18.0-21.0	ASHY						



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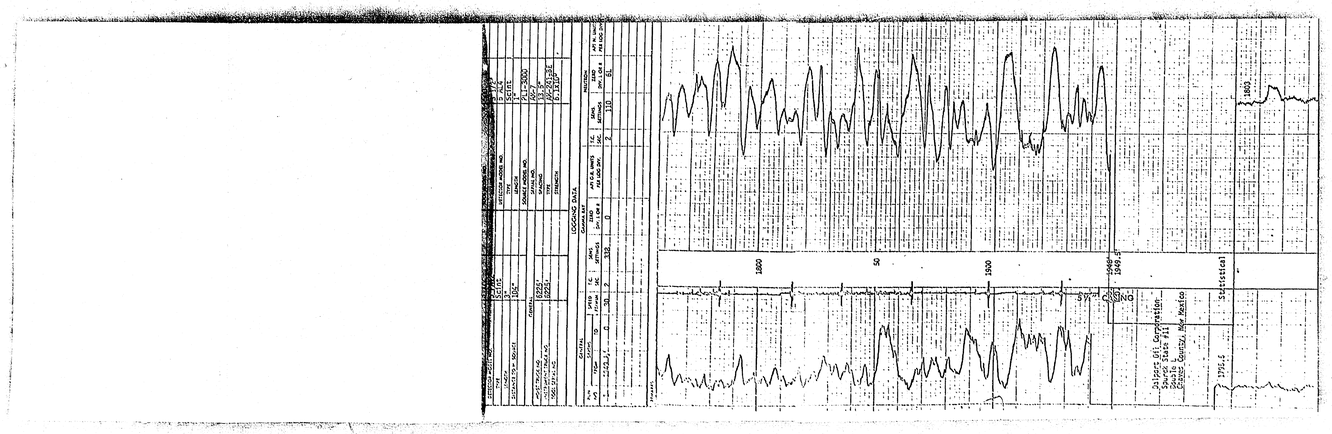

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THE WESTERN COMPANY

Gammatron

FILING NO. 7715H

Confidential Do Not Release

COMPANY Dalport Oil Corporation

WELL Spurck State #12

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION: 1650' FSL & 2310' FEL

OTHER SERVICES:

SEC. 25 TWP. 14-S RGE. 29-E

PERMANENT DATUM: Ground Level ELEV. 3829'

LOG MEASURED FROM 10 FT. ABOVE PERM. DATUM

DRILLED MEASURED FROM

ELEV. K.B. 3839'
D.F. 3829'
G.L.

DATE	6-28-71	6-28-71
FILM NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1959'	1969'
DEPTH-LOGGER	1958.5'	1956.5'
BTM LOGGED INTERVAL	1947.5'	1955'
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl		
DENSITY		
LEVEL	Full	
MAX REC. TEMP. DEG F		
OPERATING RIG TIME	1 1/4 Hour	
RECORDED BY	Tate	
WITNESSED BY	Mr. Lampert	

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
8 5/8		Surface	296'
5 1/2		Surface	1999'

Page No.

WESTERN ATLAS LABORATORIES, INC.
Petroleum Logging and Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company DALPORT OIL CORPORATION
Well SPURCK STATE NO. 12
Field DOUBLE L
County CHAVES New Mex.

Formation QUEEN
Core Type DIAMOND & SWC
Core Fluid SALT WATER BASE MUD
Elevation 3853' K.B. Location: 1650 FSL & 2310 FEL SEC. 25-14S-29E

Lithological Abbreviations

CONVENTIONAL ANALYSIS

SAMPLE NUMBER	FEET	PERMEABILITY MAXIMUM	PERMEABILITY 90°	POROSITY %	RESIDUAL SATURATION OIL % PORE VOLUME	RESIDUAL SATURATION WATER % PORE VOLUME	GRAIN DENSITY	DESCRIPTION
	1918.5-20.5	SANDY						
1	19.5-21.0	DOL						
1	21.0-23.0		0.2	11.1	44.1	44.4	2.71	SD
2	23.0-25.0		0.5	15.3	16.1	34.4	2.65	SD
3	25.0-27.0		0.5	15.8	15.4	34.6	2.65	SD
4	27.0-29.0		90	16.7	15.0	34.5	2.65	SD
5	29.0-31.0		1.5	15.1	14.1	34.3	2.65	SD
6	31.0-33.0		8.1	14.9	4.1	51.0	2.65	SD
7	33.0-35.0		0.2	13.0	12.9	40.9	2.65	SD
8	35.0-36.0		0.1	13.5	11.8	49.7	2.65	SD
	36.0-36.5	SD						
	36.5-36.0	ANDY						

THIS REMARKS AND LOG CONFORMS TO API RP 33

LOG DATE

1900 50

5½" CASING

Dalport Oil Corporation
Spurck State #12
Chaves County, New Mexico

Gamma Ray Neutron

Run No. One Two

Elev. K.B. 3839'
D.F. 3829'
G.L.

Location: 1650' FSL & 2310' FEL

Sec. 25 Twp. 14-S Rge. 29-E

Permanent Datum: Ground Level

Log Measured From: 10 Ft. Above Perm. Datum

Drilled Measured From:

Date 6-28-71 6-28-71

Type Log Gamma Ray Neutron

Depth-Driller 1959' 1969'

Depth-Logger 1958.5' 1956.5'

Btm. Logged Interval 1947.5' 1955'

Top Logged Interval Surface Surface

Type Fluid in Hole Water Water

Salinity, PPM Cl

Density

Level Full

Max. Rec. Temp. Deg. F.

Operating Rig Time 1 1/4 Hour

Recorded By Tate

Witnessed By Mr. Lampert

Run No. One

Bit No.

From Surface

To 1999'

Size 5 1/2

Wgt.

From Surface

To 1999'

Type Fluid in Hole Water

Density Lb/Gal

Viscosity

PH

Fluid Loss

Source of Sample

Rm @ Meas. Temp.

Rmf @ Meas. Temp.

Rmc @ Meas. Temp.

Source of Rmf & Rmc

Rm @ BHT

Time Since Circ.

Max. Rec. Temp. Deg. F.

Equip. No. & Location

Recorded By Tate

Witnessed By Mr. Lampert

Run No. One

Bit No.

From Surface

To 1999'

Size 8 5/8

Wgt.

From Surface

To 296'

Type Fluid in Hole Water

Density Lb/Gal

Viscosity

PH

Fluid Loss

Source of Sample

Rm @ Meas. Temp.

Rmf @ Meas. Temp.

Rmc @ Meas. Temp.

Source of Rmf & Rmc

Rm @ BHT

Time Since Circ.

Max. Rec. Temp. Deg. F.

Equip. No. & Location

Recorded By Tate

Witnessed By Mr. Lampert

Neutron 0 1907.5

Statistical

V.E.N.C.P. MICROGRAPHICS

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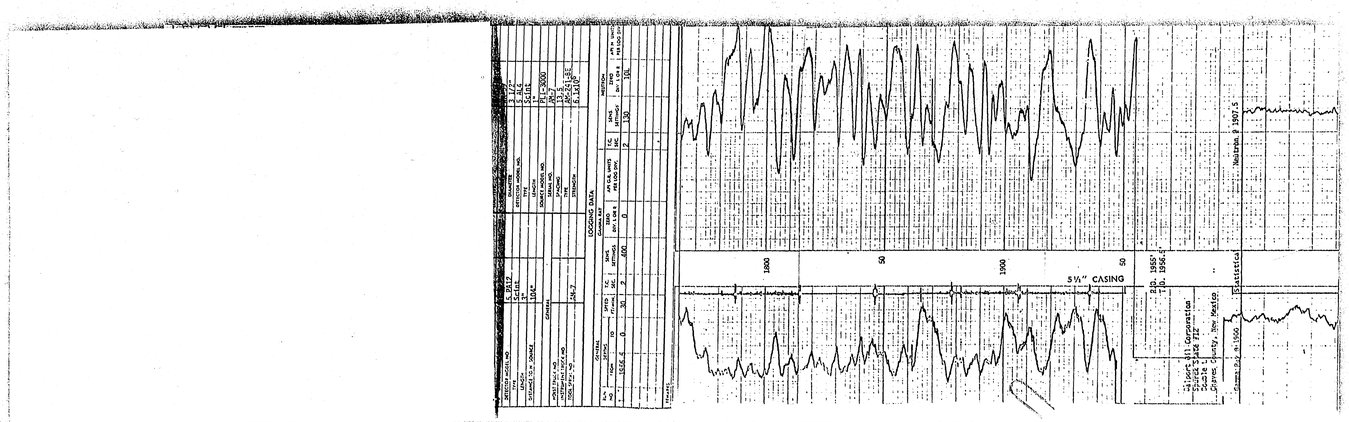

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THE WELLAND COMPANY
Gammatron

CONFIDENTIAL - DO NOT RELEASE

FILING NO. 6691BH

COMPANY DALPORT OIL CORPORATION

WELL ARCO FEDERAL #1

FIELD DOUBLE L.-PLR.-QUEEN

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 1980' FSL 660' FWL

OTHER SERVICES: SSN

SEC 31 TWP 14-S RGE 30-E

PERMANENT DATUM: GROUND LEVEL ELEV. 3969 ELEV.: K.B. 3989

LOG MEASURED FROM 10 FT. ABOVE PERM. DATUM D.F. 3989

DRILLING MEASURED FROM G.L. 3969

DATE	8-5-69	8-5-69	2-7-7
RUN NO.	ONE	ONE	
TYPE LOG	GAMMA RAY	CUTRON	
DEPTH-DRILLER	2000	2000	
DEPTH-LOGGER	1980	1939	
BOTTOM LOGGED INTERVAL	1980	1567.5	
TOP LOGGED INTERVAL	0	0	
TYPE FLUID IN HOLE	WATER	WATER	
SALINITY, PPM Cl			
DENSITY			
LEVEL	FULL		
MAX. REC. TEMP. DEG F			
OPERATING RIG TIME	1.5 HRS.		
RECORDED BY	CONGILL		
WITNESSED BY	LAMBERT		

BOREHOLE RECORD: BIT NO. 1, FROM 0, TO 2000, BIT SIZE 7 7/8

CASING RECORD: SIZE 10, FROM SURFACE, TO 2000

LABORATORIES, INC.
Petroleum Services Engineering
DALLAS, TEXAS

Page No. 1

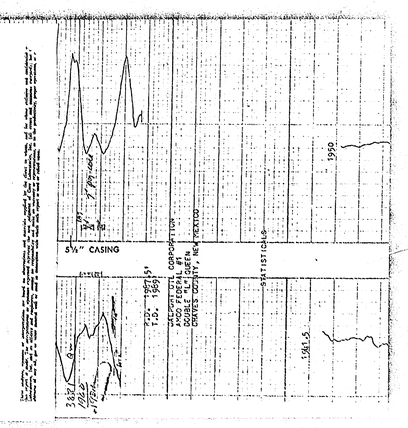
COMPANY DALPORT OIL CORPORATION
WELL ARCO FEDERAL NO. 1
FIELD DOUBLE L.-PLR.-QUEEN
COUNTY CHAVES STATE NEW MEXICO
LOCATION 1980 FSL & 660 FWL SEC 31 T14S R30E

File No. 10-1324
Date 8-5-69
Sample No. 32716
Elevation 3969 KB 3989 DF
Log Meas. From KB 20 Ft. Above Perm. Datum

Lithological Abbreviations

CONVENTIONAL ANALYSIS

Sample Number	Depth Interval Feet	Permeability Maximum Horizontal Millidarcys	Permeability Maximum 90° to Max. Millidarcys	Residual Fluid Saturation Pore Volume Percent	Residual Fluid Saturation Pore Volume Percent	Effective Porosity Fractional Pore Volume	Total Porosity Fractional Bulk Volume	Grain Density Gm/cc	Lithological Abbreviation	Description
	1956.0-59.5								Anhydrite	
	1959.5-60.5								Dolomite	
	1960.5-61.0								Sandy dolomitic	
1	1961.0-62.0	0.9		12.4	4.0	59.7			Sand	
	1962.0-64.0	99							Lost core	
2	64.0-65.0	160		24.2	34.6	36.6			Sand	
3	65.0-66.0	160		31.0	21.5	33.8			Sand	
4	66.0-67.0	125		25.7	25.6	34.2			Sand	
5	67.0-68.0	1.7		13.8	13.2	43.8			Sand	
6	68.0-69.0	1.3		10.0	7.2	36.0			Sand	
7	69.0-70.0	1.3		13.1	6.1	46.5			Sand	
8	70.0-71.0	6		30.9	10.8	37.0			Sand	
9	71.0-72.0	34		30.1	10.3	37.7			Sand	
10	72.0-73.0	2.3		24.6	12.5	44.6			Sand	
11	73.0-74.0	0.5		16.5	7.5	39.5			Sand	
12	74.0-75.0	0.5		16.8	7.5	39.5			Sand	
13	75.0-76.0	0.8		16.8	3.0	37.3			Sand	
	1976.0-77.0	1.7		11.9	4.6	47.3			Sand	
14	1977.0-78.0	1.7		13.4	5.8	39.8			Sand	
	1978.0-79.0								Anhydrite	
15	1979.0-80.0									



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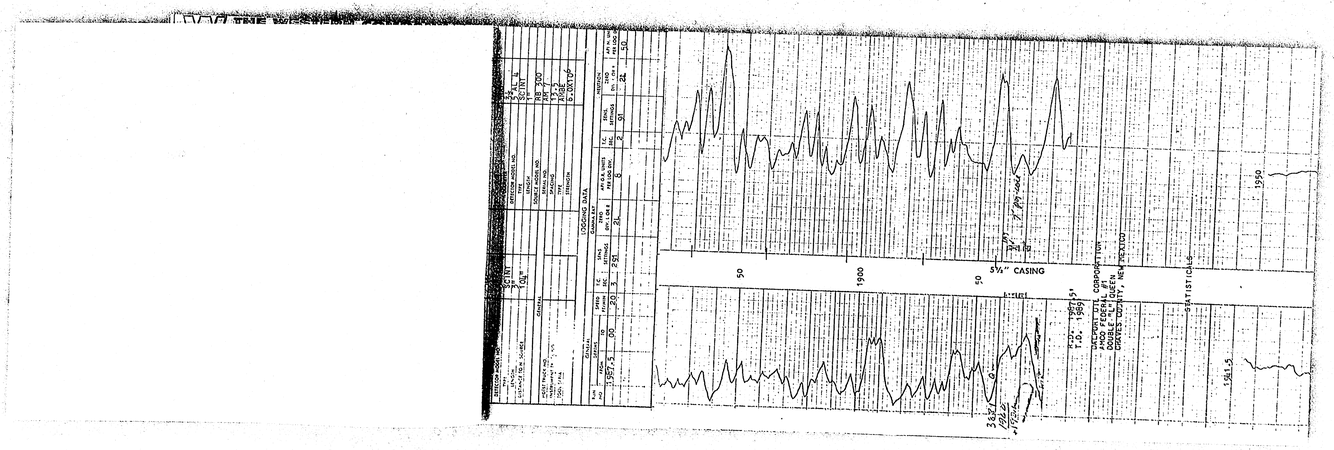
5½" CASING
1900
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...LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Company: ...ERAL OIL CORPORATION File: WP-3-3215
Well: ARCO FEDERAL NO. 2 Date: 8-5-69
Field: DOUBLE "L" QUEEN Elevation: 3967' KB
County: CHAVES State: NEW MEXICO Orig. Fluid: WATER BASE MUD
Location: 1980 FN & 660 FWL SEC 31-T14S-R30E

Lithological Abbreviations

SAND-SD SHALE-SH LIME-LM	DOLOMITE-DOL CALCI-CAT ANHYDR-ANY	ARGILLACEOUS-ARGIL CALCAREOUS-CALC FOSSILIFEROUS-FOS	SHALY-SHY SILTY-SLTY	FINE-FN MEDIUM-MED COARSE-CRSE	CRYSTALLINE-XLN GRAIN-GR LAMINATED-LAM	BROWN-BRN GRAY-GRY MARLY-MRLY	FRACTURED-FRAC LAMINATED-LAM STYLOLITIC-STYL	SLIGHTLY-SLY VERY-VRY WITH-W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS MAX	PERMEABILITY MILLIDARCYS 90°	POROSITY PERCENT	RESIDUAL SATURATION PERCENT PORE OIL	RESIDUAL SATURATION PERCENT PORE WATER	DESCRIPTION

CONVENTIONAL ANALYSIS

	1965.0-68.0						Anhydrite
	1968.0-68.5						Dolomite
1	1968.5-69.0	<0.1		5.6	0.0	85.7	Sand, Dolomitic
2	69.0-70.0	0.4		6.2	0.0	71.1	Sand
3	70.0-71.0	3.1		16.7	28.4	40.6	Sand
4	71.0-72.0	56		23.7	20.7	39.2	Sand
5	72.0-73.0	63		25.1	23.1	37.8	Sand
6	73.0-74.0	35		23.6	34.4	30.5	Sand, Oil
7	74.0-75.0	46		24.6	39.8	35.0	Sand, Oil
8	75.0-76.0	0.8		8.2	6.1	54.8	Sand
9	76.0-77.0	12		19.7	6.6	44.2	Sand
10	77.0-78.0	15		26.9	5.2	55.4	Sand
11	78.0-79.0	3.3		23.8	5.9	66.0	Sand
12	79.0-80.0	1.9		20.0	0.0	75.8	Sand
13	80.0-81.0	0.5		16.4	0.0	78.6	Sand
14	81.0-82.0	0.5		13.4	0.0	65.7	Sand
15	1982.0-82.5	<0.1		5.3	0.0	62.3	Sand
	1982.5-84.5						Sand
	1984.5-86.0						Anhydrite

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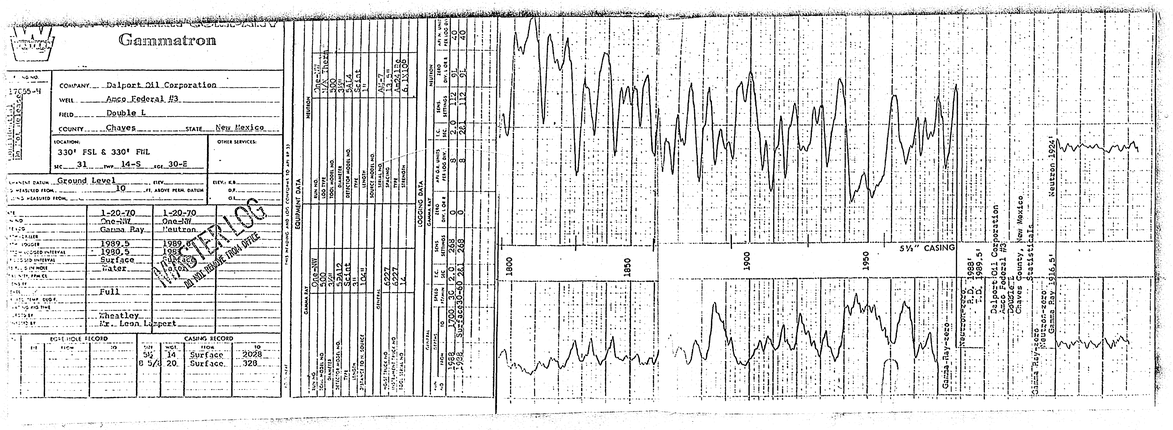

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company DALPORT OIL CORPORATION Formation QUEEN File SF-1-1274
Well ANCO FEDERAL NO. 3 Core Type DIAMOND 4 3/8" Date Report 1-18-70
Field DOUBLE "L" Drilling Fluid WATER BASE MUD Analyst MSEP
County CHAVES State N. MEXICO Elev. 3823' DF Location SW 1/4- SW 1/3 SEC. 31-T 14S-R30E

Lithological Abbreviations

CONVENTIONAL ANALYSIS

Sample Number	Depth Feet	Permeability Millidarcys	Porosity Per Cent	Residual Saturation Per Cent Pore Vol. Oil	Total Water	Remarks Description and Remarks
	1936.0-37.0					Anhydrite
	1937.0-38.0					Dolomite
1	1938.0-39.0	1125	24.6	15.0	43.9	Sand
2	39.0-40.0	2080	30.4	17.1	47.7	Sand
3	40.0-41.0	61	25.7	19.8	69.0	Sand
4	41.0-42.0	167	23.3	16.3	41.7	Sand
5	42.0-43.0	14	27.1	18.8	49.5	Sand
6	43.0-44.0	48	25.4	17.3	43.3	Sand
7	44.0-45.0	0.6	13.7	8.8	51.8	Sand
8	45.0-46.0	0.6	11.8	7.6	62.8	Sand
9	46.0-47.0	11	18.6	16.7	54.0	Sand
10	47.0-48.0	17	28.8	16.3	46.2	Sand
11	48.0-49.0	31	25.7	17.9	60.0	Sand
12	49.0-50.0	1.2	16.4	4.3	67.8	Sand
13	50.0-51.0	0.6	16.8	0.0	81.5	Sand
14	51.0-52.0	<0.1	11.5	0.0	80.0	Sand
15	52.0-53.0	137	16.9	13.8	48.1	Sand
16	53.0-54.0	237	19.0	6.3	37.4	Sand
17	54.0-55.5	<0.1	9.7	9.3	57.8	Sand
	1955.5-56.0					Anhydrite
	1956.0-58.0					Sand
	1958.0-59.0					Anhydrite

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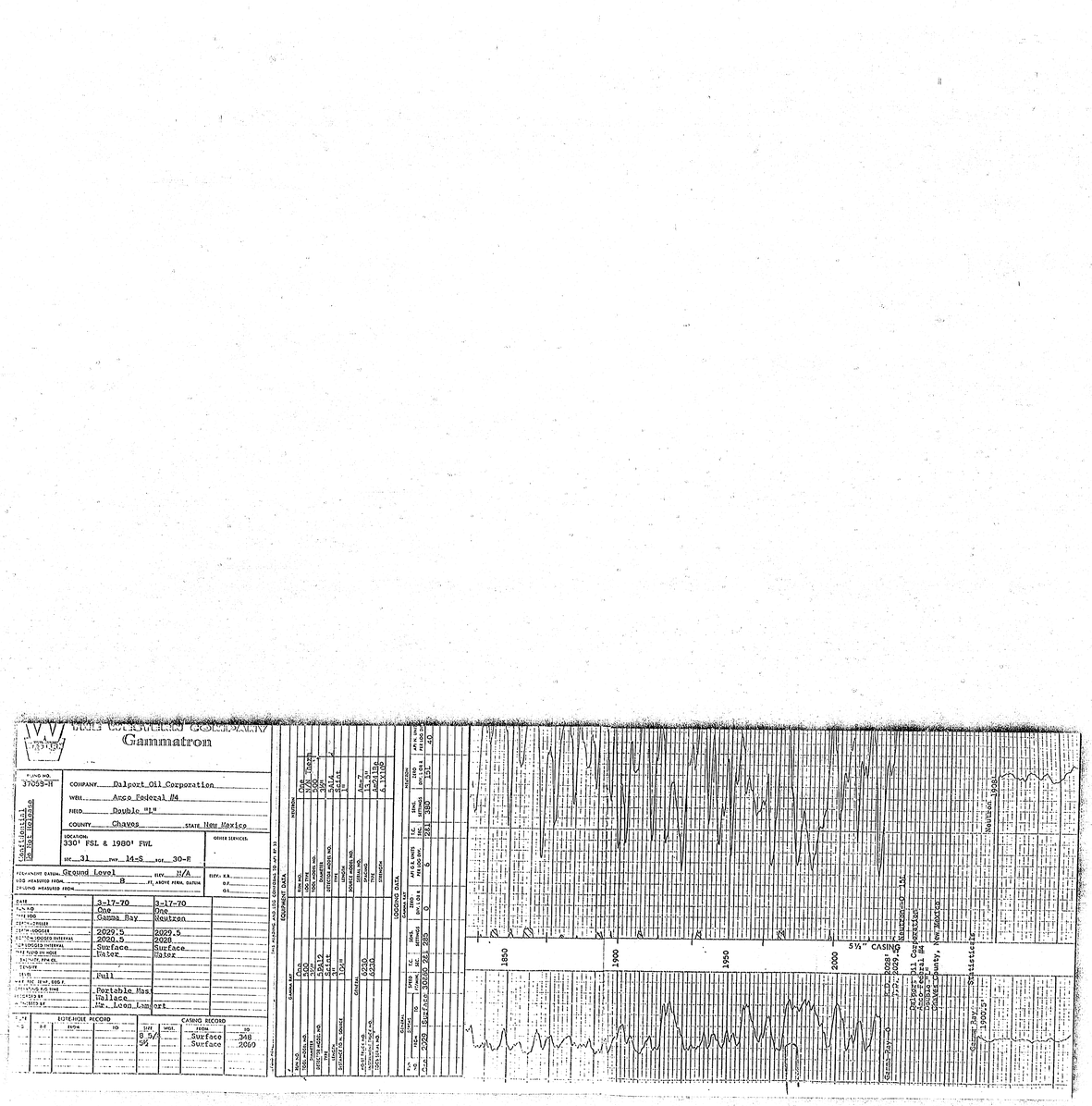
WELL LOGGING COMPANY
Gammatron
RUN NO. 37058-H
COMPANY Dalport Oil Corporation
WELL Anco Federal #4
FIELD Double "H"
COUNTY Chaves STATE New Mexico
LOCATION: 330' FSL & 1980' FWL
SEC. 31 TWP. 14-S RGE. 30-E
OTHER SERVICES:
PERMANENT DATUM Ground Level ELEV. N/A
LOG MEASURED FROM B FT. ABOVE PERM. DATUM
ELEV. K.B.
D.F.
G.L.
DATE 3-17-70 3-17-70
RUN NO One One
TYPE LOG Gamma Ray Neutron
DEPTH-DRILLER 2029.5 2029.9
DEPTH-LOGGER 2020.5 2020
BTM. LOG INTERVAL Surface Water Surface Water
TOP LOG INTERVAL Water Water
CASING-DRILLER
CASING-LOGGER
BIT SIZE
TYPE FLUID IN HOLE Full
DENS. VISC.
PH FLUID LOSS
SOURCE OF SAMPLE Portable Mud
RM @ MEAS. TEMP. Wallace
RMF @ MEAS. TEMP. Jr. Loco, Lm.
RMC @ MEAS. TEMP. Artesia
SOURCE RMF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. LOCATION
RECORDED BY
WITNESSED BY
BIT RECORD
BIT NO. FROM TO FT. SIZE
BORE-HOLE RECORD
CASING RECORD
TYPE WGT. FROM TO
9 5/8" Surface 348
5½" Surface 2020
One Detector
500 Micro-Mho
Gamma Ray
Neutron
Sidewall
Sandstone
Limestone
Dolomite
Anhydrite
Salt
Shale
Coal
Gypsum
Conglomerate
Chert
Igneous
Metamorphic
Dolomitic Limestone
Calcareous Shale
Sandy Shale
Shaly Sand
Sandy Limestone
Shaly Limestone
Gamma Ray-Neutron
Gamma Ray-Caliper
Gamma Ray-Sonic
Gamma Ray-Density
Gamma Ray-Neutron-Caliper
Gamma Ray-Neutron-Density
Gamma Ray-Neutron-Sonic
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Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity
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Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure
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Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other
Gamma Ray-Neutron-Caliper-Density-Sonic-Resistivity-Dip-Azimuth-Velocity-Temperature-Pressure-Flow-Other

THE WELLEX COMPANY

Gammatron

FILING NO. 67091-H

Confidential Until Further Notice

COMPANY Dalport Oil Corporation

WELL Amco Federal #5

FIELD Double "L"

COUNTY Chaves STATE New Mexico

LOCATION 1650' FSL & 1650' FWL

SEC. 31 TWP. 14-S RGE. 30-E

OTHER SERVICES Jet Perforate

PERMANENT DATUM Ground Level ELEV. 3875 ELEV.: K.B.

LOG MEASURED FROM 1 ft. ABOVE PERM. DATUM D.F.

ELEVATIONS MEASURED FROM Cable tool rig floor G.L. 3875

DATE	6-28-70	6-28-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER		
DEPTH—LOGGER	2012.5	2012.5
BOTTOM LOGGED INTERVAL	2003.5	2011
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl.		
DENSITY	Full	
LEVEL		
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME	Portable Mark	
RECORDED BY	Wallace	
WITNESSED BY		

BORE-HOLE RECORD

BIT	FROM	TO
8 5/8		
5½		

CASING RECORD

WGT.	FROM	TO
	Surface	403
	Surface	2012

RUN NO. One

DEPTH DRILLER 2012.5

DEPTH LOGGER 2011

BTM. LOG INTERVAL 2003.5

TOP LOG INTERVAL Surface

CASING DRILLER 8 5/8 @ 403

BTM. CASING 2012.5 Surface

TYPE FLUID IN HOLE Water

DENSITY Full

LEVEL

MAX. REC. TEMP. DEG. F.

EQUIP. NO. & LOCATION 1 Hobbs

RECORDED BY Wallace

WITNESSED BY

NEUTRON

DIST. FROM SOURCE 10"

SPACING

STRENGTH

DET. NO. AC-1106

DIST. FROM SOURCE 13"

SPACING

STRENGTH

DET. NO. AC-1106

GAMMA RAY

DIST. FROM SOURCE 10"

SPACING

STRENGTH

DET. NO. 6228

DIST. FROM SOURCE 16"

SPACING

STRENGTH

DET. NO. 6228

LOGGING DATA

GAMMA RAY

RUN NO. One

BOR. HOLE NO.

BOR. HOLE NO.

DET. NO. 6228

DIST. FROM SOURCE 10"

SPACING

STRENGTH

DET. NO. AC-1106

DIST. FROM SOURCE 13"

SPACING

STRENGTH

DET. NO. AC-1106

NEUTRON

DIST. FROM SOURCE 10"

SPACING

STRENGTH

DET. NO. AC-1106

DIST. FROM SOURCE 16"

SPACING

STRENGTH

DET. NO. AC-1106

GAMMA RAY

DIST. FROM SOURCE 10"

SPACING

STRENGTH

DET. NO. 6228

DIST. FROM SOURCE 16"

SPACING

STRENGTH

DET. NO. 6228

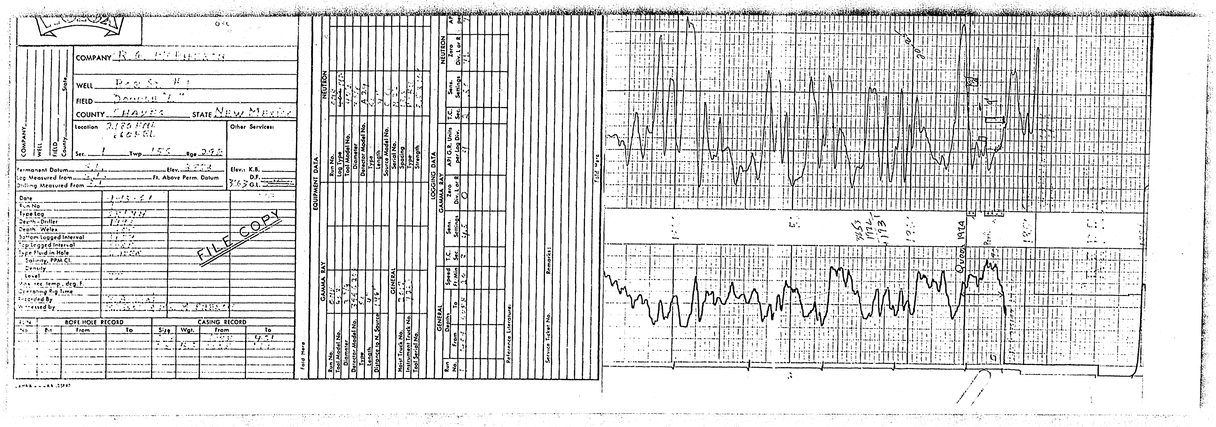
LOGGING DATA

RUN NO.	TOP	BOTTOM
One	Surface	2012.5

RUN NO.	TOP	BOTTOM
One	Surface	2011

RUN NO.	TOP	BOTTOM
One	Surface	2003.5

RUN NO.	TOP	BOTTOM
One	Surface	2012



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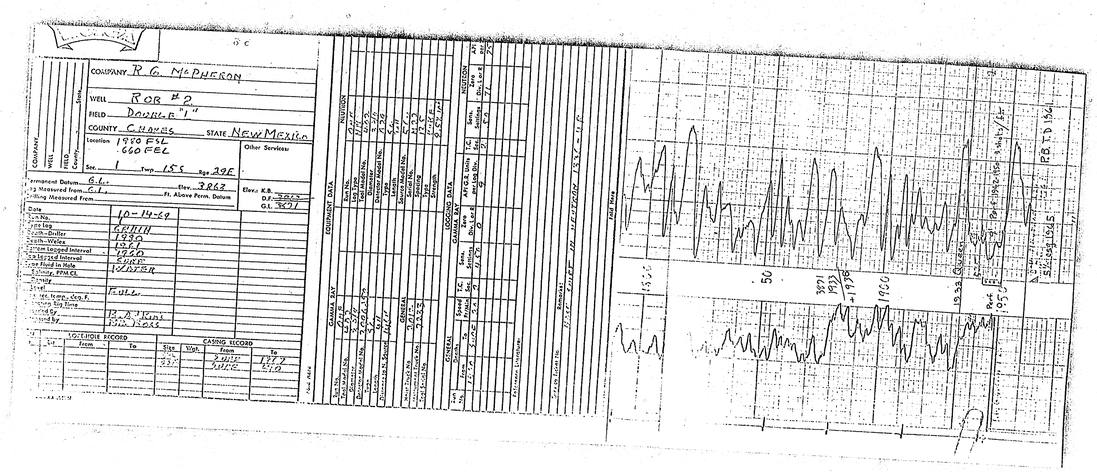

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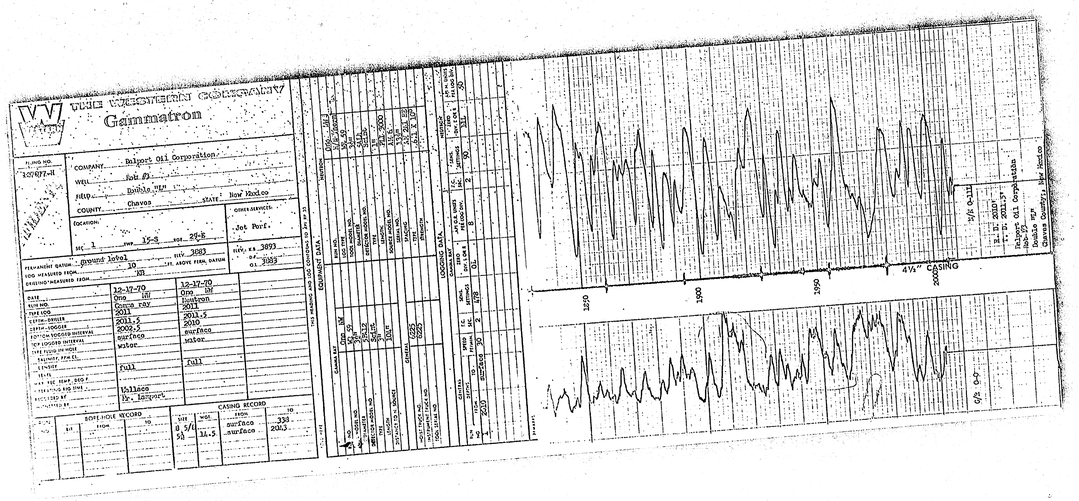

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Page No. 1

CORE ANALYSIS RESULTS

Company BALCORT OIL CORPORATION Formation QUEEN File DP-3-3365
Well SOL STATE NO. 3 Core Type DIAMOND 4 3/8" Date Report 12-16-70
Field DOUBLE "H" Drilling Fluid WATER BASE MUD Analysts ROGHE
County CHAVES State N. M. Elev. 3085 GL Location 990 FS & 330 FEL SEC 1-15S-26E

Lithological Abbreviations

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PORE SPACE OIL	RESIDUAL SATURATION PORE SPACE TOTAL	SAMPLE DESCRIPTION AND REMARKS
		CONVENTIONAL ANALYSIS				
	1961.0-63.0 ANHY					
	63.0-64.0 DOL					
1	64.0-65.0	0.4	9.4	7.5	60.7	SS
2	65.0-66.0	1.3	10.7	13.1	46.8	SS
3	66.0-67.0	0.5	12.0	4.2	78.3	SS
4	67.0-68.0	112	24.9	13.6	51.4	SS
5	68.0-69.0	3.7	16.3	12.5	38.1	SS
6	69.0-70.0	<0.1	7.3	0.0	72.7	SS
7	70.0-71.0	<0.1	7.5	0.0	65.3	SS
8	71.0-72.0	60	25.8	14.3	55.9	SS
9	72.0-73.0	2.3	19.4	6.2	71.0	SS
10	73.0-74.0	1.9	20.8	3.9	71.0	SS
11	74.0-75.0	0.4	14.8	3.4	77.1	SS
	75.0-77.0 SS					
12	77.0-78.0	0.1	6.8	13.2	42.7	SS
13	78.0-78.5	1.0	11.6	10.4	46.8	SS
	78.5-79.5 SS					
	79.5-80.5 ANHY					
	80.5-82.0 SH, SDY					
	82.0-83.0 ANHY					
	83.0-86.0 SH, SDY					

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THE WESTERN COMPANY

Gammatron

FILING NO. 37055-H

COMPANY Dalport Oil Corporation

WELL #1 Sunset State

FIELD Double "H"

COUNTY Chaves STATE New Mexico

LOCATION: 1980' FNL & 330' FEL

Sec. 12 Twp. 15-S Rge. 29-E

OTHER SERVICES: CCL

PERMANENT DATUM: Ground Level ELEV. N/A

LOG MEASURED FROM: Rig floor 1 FT. ABOVE PERM. DATUM

DRLG. MEASURED FROM: Cable tool rig floor

DATE	3-19-70	3-19-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1984	1984
DEPTH-LOGGER	1980.5	1980.5
BTM. LOGGED INTERVAL	1971.5	1979
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY		
DENSITY	Full	
MAX. REC. TEMP. DEG. F		
OPERATING RIG TIME		
RECORDED BY	Wallace	
WITNESSED BY	Mr. Leon Rogers	

BORE HOLE RECORD

BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
9 5/8	20	Surface	420
99	14	Surface	1936

EQUIPMENT DATA

Gamma Ray: Type 500; Serial No. 500; Skid No. 4-2412; Detector Model No. SC-1417; Detector No. 10x11; Shielding 1297, 4227; Amplifier Type Surface; Amplifier Model No. SC-1417; Serial No. 10x11; Calibrator Type Surface; Calibrator Model No. SC-1417; Serial No. 10x11

Neutron: Type 500; Serial No. 500; Skid No. 4-2412; Detector Model No. SC-1417; Detector No. 10x11; Shielding 1297, 4227; Amplifier Type Surface; Amplifier Model No. SC-1417; Serial No. 10x11; Calibrator Type Surface; Calibrator Model No. SC-1417; Serial No. 10x11

LOGGING DATA

	Gamma Ray	Neutron
Det. to Source Spacing	24"	24"
Speed FPM	20	20
Time Constant	1	1
Sensitivity	20	20
Gain	1	1
Zero Adj.	1	1
Log Scale	2" = 100	2" = 100
Log Scale	5" = 100	5" = 100
Log Scale		
Log Scale		
Log Scale	

THE WESTERN COMPANY

Gammatron

FORM NO. 127200 H

COMPANY Delcort Oil Corporation

WELL Falcont Fed. #1

FIELD Double L Queen

COUNTY Chaves STATE New Mexico

LOCATION 1980' FN & EL

SEC 35 TWP 14S RGE 29E

OTHER SERVICES

PERMANENT DATUM ... ELEV. K.B. 3872'

LOG MEASURED FROM 9.5 FT. ABOVE PERM. DATUM D.F. 3863'

DRILLING MEASURED FROM ... G.L. 3863'

DATE	12-17-72	12-17-72
RUN NO.	One	One
TAPE NO.	Gamma Ray	Neutron
DEPTH-DRILLER	1915'	1915'
DEPTH-LOGGER	1903.5'	1903.5'
BOTTOM LOGGED INTERVAL	1894.5'	1902'
TOP LOGGED INTERVAL	0	0
TYPE FLUID IN HOLE	Water	
SALINITY, PPM Cl		
DENSITY		
LEVEL	Full	Full
MAX. REC. TEMP. DEG. F		
OPERATING RIG TIME		
RECORDED BY	Giles	
WITNESSED BY	Mr. Lackert	

BORE-HOLE RECORD

RUN NO.	BIT NO.	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
8 5/8	20#	0	1940'
			28'?

EQUIPMENT DATA

| | | |

THE WESTERN COMPANY

Gammatron

Wichita Falls Division Co.

FILING NO. 47311 H

COMPANY Dalport Oil Corporation

WELL #2 Falgoot Federal

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION 1980' FNL & 1650' FWL

OTHER SERVICES

SEC 25 TWP 16S RGE 29E

PERMANENT DATUM Ground Level ELEV. 3822'

LOG MEASURED FROM Tubing Flange 4' ABOVE PERM. DATUM

DRILLING MEASURED FROM Tubing Flange

ELEV.: KB 3833' DF GL 3822'

DATE	4-2-73	4-2-73
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1881'	1881'
DEPTH-LOGGER	1876.5'	1875.5'
BOTTOM LOGGED INTERVAL	1865.5'	1874'
TOP LOGGED INTERVAL	0	0
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	100'	
MAX. REC. TEMP. DEG. F	1 1/2 Hour	
OPERATING RIG TIME		
RECORDED BY	Baker	
WITNESSED BY	Mr. Lamport	

MASTER LOG

DO NOT REMOVE FROM OFFICE

BORE-HOLE RECORD

RUN NO.	BIT NO.	FROM	TO
One		0	1881'

CASING RECORD

SIZE	WGT.	FROM	TO
8 5/8	20#	Surface	258'
4 1/2	4.5#	Surface	1881'

RUN NO. One

DEN. NO. 10C-59

SON. NO. 10C-59

RECORDED NO. 39312

DIAMETER 5 1/2"

SECTION MEDIA NO. 5014

CASING 8 5/8" @ 258'

HYDRO. NO. 10C-59

SONDE NO. 10C-59

SKID NO. 10C-59

TYPE Standard

STANDOFF 1"

GAMMA RAY

SCALE 0-200

SPD. 30

TIME CONST. 3

SONDE NO. 10C-59

SKID NO. 10C-59

TYPE Standard

STANDOFF 1"

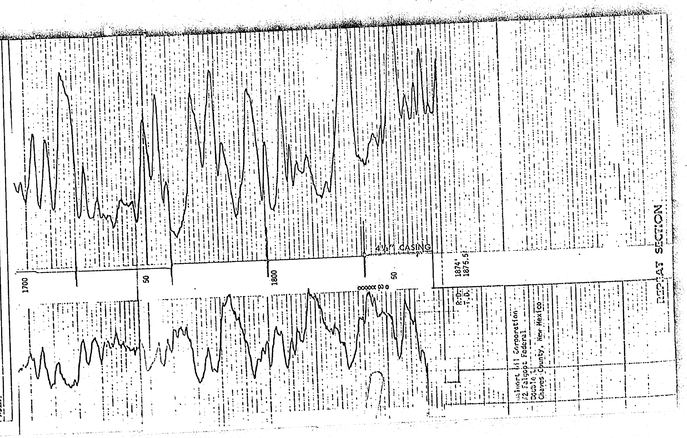
LOGGING DATA

GAMMA RAY

CASING	SPD.	30
	TIME CONST.	3
	SCALE	0-200
	API UNITS	
OPEN HOLE	SPD.	30
	TIME CONST.	3
	SCALE	0-200
	API UNITS	

NEUTRON

CASING	SPD.	30
	TIME CONST.	3
	SCALE	0-200
	API UNITS	
OPEN HOLE	SPD.	30
	TIME CONST.	3
	SCALE	0-200
	API UNITS	



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Dresser Atlas

Gamma Ray Neutron

FILE NO.

COMPANY HUMBLE OIL & REFINING COMPANY

WELL DE SMET FEDERAL NO. 1

FIELD DOUBLE "L" QUEEN

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 1980'FSL & 660'FWL

Other Services

SEC. 6 TWP. 15-S RGE. 30-E

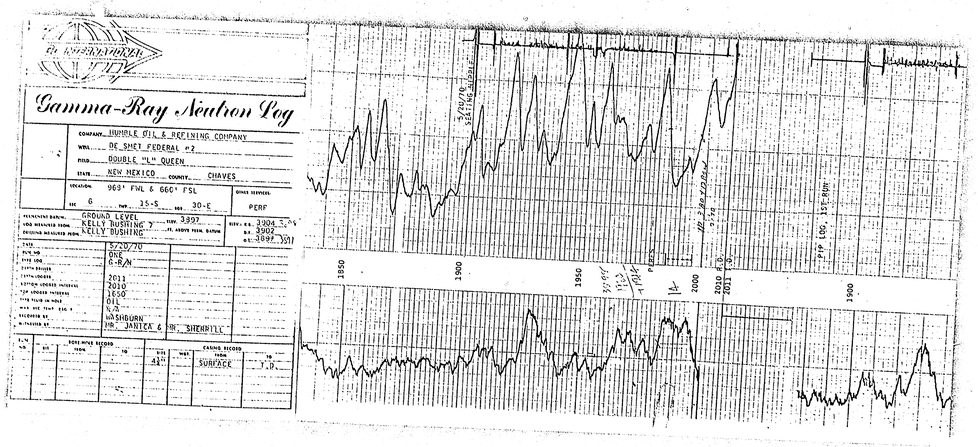
Permanent Datum	GROUND LEVEL	Elev. 3883	
Log Measured from	K. B. 7.5 Ft. Above Permanent Datum		
Drilling Measured from	K. B.		

Elevations:				
KB	3890'5"			
DF	3889'5"			
GL	3883'			
Date	1-14-70			
Run No.	ONE			
Type log	G/R-N/TN			
Depth-Driller	1957			
Depth-Logger	1951			
Bottom logged interval	1950			
Top logged interval	SURFACE			
Type fluid in Hole	SALT WATER			
Salinity, Ppm Cl.				
Density lb. Gal.				
Level	15%			
Max. Rec. Temp. Deg. F				
Oper. Rig Time	2 1/2 HOURS			
Recorded By	ADAMS			
Witnessed By	MR. JANICA			

Run No.	Bit No.	Bore Hole Record From	To	Size	Wgt.	Casing Record From	To
1	6 3/4"	396	1957	8 5/8"		SURF.	396

Nucleonic Data

| | | | |



Gamma-Ray Neutron Log

COMPANY HUMBLE OIL & REFINING COMPANY
WELL DE SHET FEDERAL #2
FIELD DOUBLE "L" QUEEN
STATE NEW MEXICO COUNTY CHAVES
LOCATION 963' FWL & 660' FSL
SEC 6 TWP 15-S RGE 30-E
OTHER SERVICES PERF
PERMANENT DATUM GROUND LEVEL ELEV. 3897
LOG MEASURED FROM KELLY BUSHING 7 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM KELLY BUSHING
ELEV.: K.B. 3904
D.F. 3902
G.L. 3897

DATE	5/20/70	
RUN NO.	ONE	
TYPE LOG	G-R/N	
DEPTH DRILLER	2011	
DEPTH LOGGER	2010	
BOTTOM LOGGED INTERVAL	1650	
TOP LOGGED INTERVAL	OIL	
TYPE FLUID IN HOLE	N.A.	
MAX. REC. TEMP. DEG. F	WASHBURN	
RECORDED BY	MR. JANICK & MR. SHERRILL	
WITNESSED BY		

BORE HOLE RECORD				CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				4½"		SURFACE	2011

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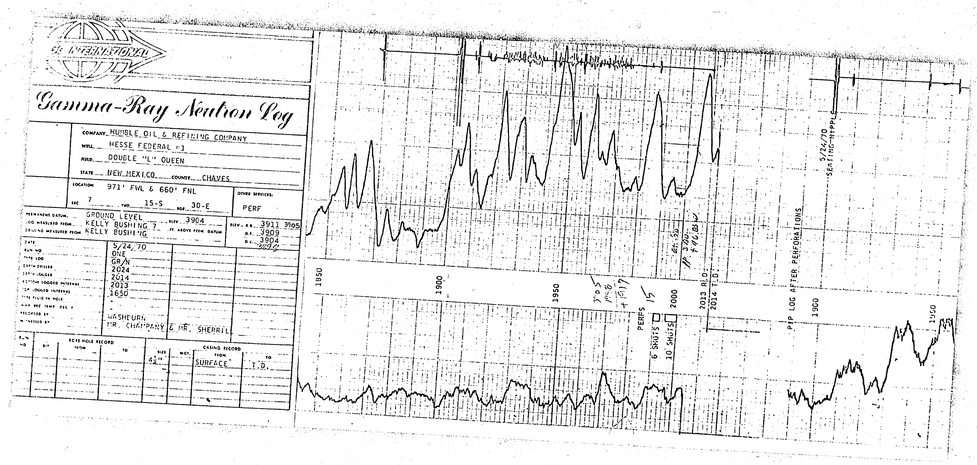

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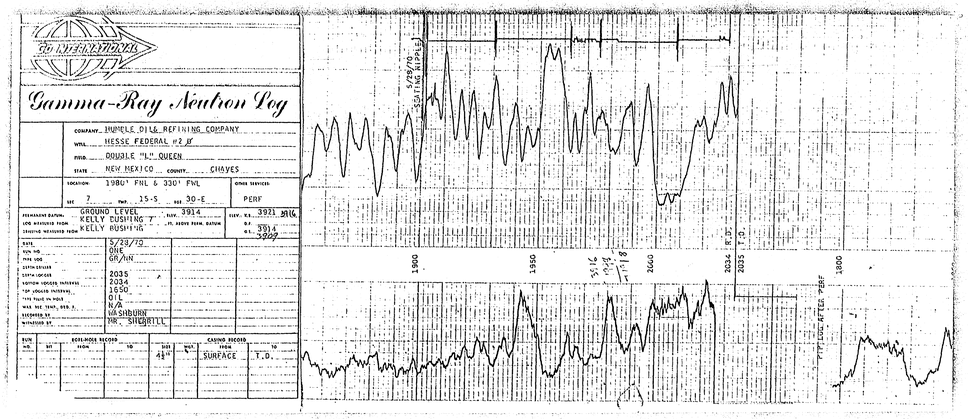

Gamma-Ray Neutron Log

COMPANY MUNGLE OIL & REFINING COMPANY
WELL HESSE FEDERAL #2 W
FIELD DOUBLE "L" QUEEN
STATE NEW MEXICO COUNTY CHAVES
LOCATION 1980' FNL & 330' FWL
OTHER SERVICES: PERF
SEC. 7 TWP. 15-S RGE. 30-E

PERMANENT DATUM	GROUND LEVEL	ELEV.	3914
LOG MEASURED FROM	KELLY BUSHING 7'	FT. ABOVE PERM. DATUM	
DRILLING MEASURED FROM	KELLY BUSHING		

ELEV.: K.B. 3921 3916
D.F. 3914
G.L. 3909

DATE	5/28/70		
RUN NO.	ONE		
TYPE LOG	GR/NN		
DEPTH DRILLER	2035		
DEPTH LOGGER	2034		
BOTTOM LOGGED INTERVAL	1650		
TOP LOGGED INTERVAL	OIL		
TYPE FLUID IN HOLE	N/A		
MAX. REC. TEMP., DEG. F.			
RECORDED BY	WASHBURN		
WITNESSED BY	MR. SHERRILL		

RUN NO.	BIT NO.	BOREHOLE RECORD FROM	TO	SIZE	WGT.	CASING RECORD FROM	TO
				4½"		SURFACE	T.D.

5/29/70 GR & NEUTRON

1900 1950 5/16 .047 .118 2000 2034 R.B. 2035 T.D. 1800

PERF'D 1966-1984

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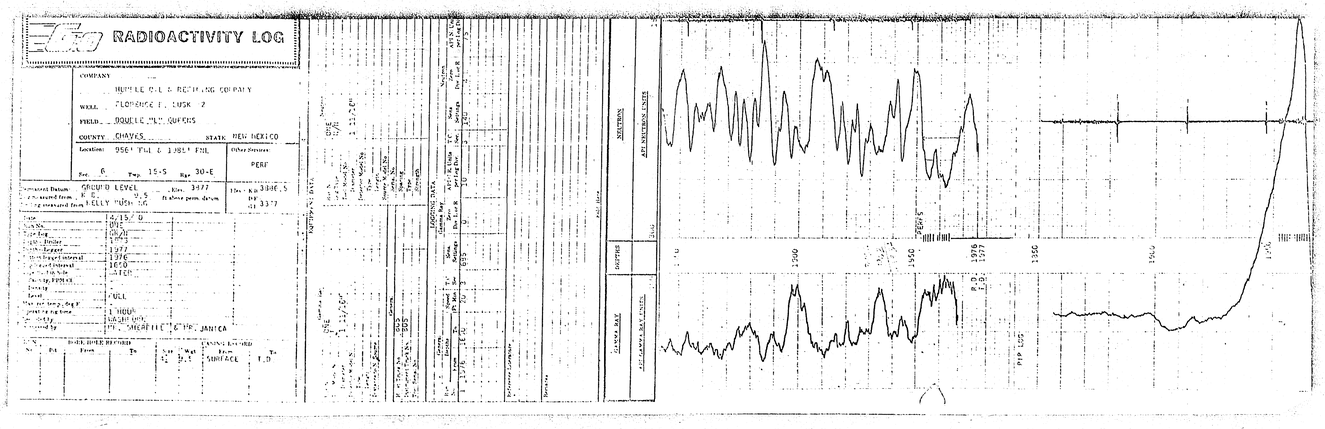

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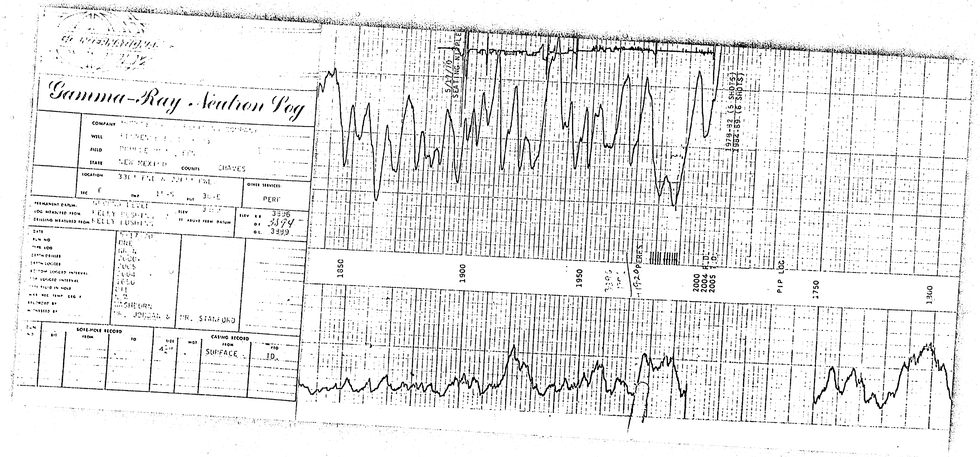

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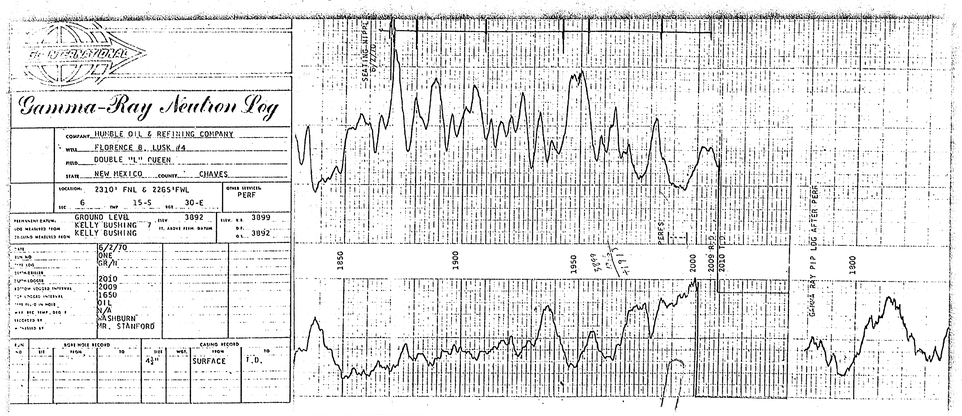

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THE WESTERN COMPANY

Gammatron

FLYING NO.	9691-H
COMPANY	Jack L. McClellan
WELL	Sue Federal #1
FIELD	Sulimar
COUNTY	Chaves STATE New Mexico
LOCATION	660' FSL & 1650' FWL
SEC.	6 TWP. 15-S RGE. 30-E
OTHER SERVICES	
PERMANENT DATUM	Ground Level ELEV. 3899
LOG MEASURED FROM	1 FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM	

DATE	8-27-69	8-27-69
RUN NO.	One	One
TYPE LOG	Gamma ray	Neutron
DEPTH-DRILLER		
DEPTH-LOGGER	2022.5	2022.5
BOTTOM LOGGED INTERVAL	2013.5	2013
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl		
DENSITY		
LEVEL		
MAX REC. TEMP., DEG F.		
OPERATING RIG TIME	14 Hours	
RECORDED BY	Thomas	
WITNESSED BY	Mr. McClellan	

RUN	BORE HOLE RECORD				CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				5½		Surface	2025

RECORDED DATA

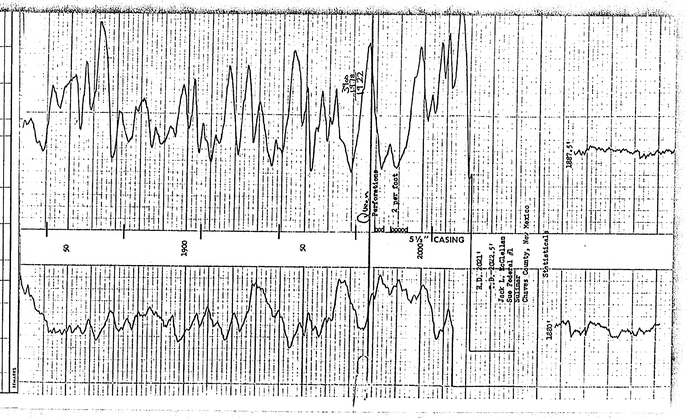
GAMMA RAY	SCALE	0-200	0-200	NEUTRON	SCALE	30-0	30-0
	SAND NO.	3A	3A		SAND NO.	3A	3A
	TOOL MODEL NO.	3012	3012		TOOL MODEL NO.	3012	3012
	DETECTOR MODEL NO.	5144	5144		DETECTOR MODEL NO.	5144	5144
	TYPE	GM-25	GM-25		TYPE	GM-25	GM-25
	LENGTH	6"	6"		LENGTH	6"	6"
	SOURCE MODEL NO.	4C-500	4C-500		SOURCE MODEL NO.	4C-500	4C-500
	TYPE	25 Ra	25 Ra		TYPE	25 Ra	25 Ra
	STRENGTH	6.7 MEV	6.7 MEV		STRENGTH	6.7 MEV	6.7 MEV
CENTER		2025	2025	CENTER		2025	2025
		Ft.	Ft.			Ft.	Ft.

LOGGING DATA

GENERAL	RIG NO.			GAMMA RAY	API & UNITS		
	TOOL MODEL NO.				RUN NO.	1	
	TOOL SERIAL NO.				SENS. SETTINGS	50	
	TYPE				T.C. SEC.	1	
	DIAM.				SPEED FT/MIN.	30	
	TD				SEC.	2	
Run	FROM	TO					
No. 1	Surface	2022.5					

NEUTRON

API & UNITS	
RUN NO.	1
SENS. SETTINGS	50
T.C. SEC.	1
SPEED FT/MIN.	30
SEC.	2



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THE WESTERN COMPANY

Gammatron

FILING NO. 47025-11

COMPANY Jack L. McClellan

WELL Sue Federal #2

FIELD Sulimar

COUNTY Chaves STATE New Mexico

LOCATION: 2310 ft S, 1650 ft W

SEC. 6 TWP. 15-S RGE. 30-E

OTHER SERVICES:

PERMANENT DATUM Ground Level ELEV. 3880

LOG MEASURED FROM 1 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM Ground Level

ELEV.: K.B. D.F. G.L. 3889

DATE	4-14-70	4-14-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2002	2002
DEPTH-LOGGER	2006	2004
BTM. LOGGED INTERVAL	1995	2000.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	Full	
MAX. REC. TEMP., DEG. F		
OPERATING RIG TIME	2 Hours	
RECORDED BY	Wallace	
WITNESSED BY	Mr. McClellan	

BORE-HOLE RECORD

BIT NO.	FROM	TO	SIZE	WGT.	FROM	TO
			8 5/8	24	Surface	2000
			5½	15.5	Surface	2000

CASING RECORD

THIS HEADING AND LOG CONTINUED TO #1 OF 2

GAMMA RAY

RUN NO.	One
LOG NO.	1
DENSITY	3872
ATTENUATION NO.	1
TYPE	SOLID
DIAMETER	1 3/4"
ATTACHED TO	SONDE
HOLE TRACE NO.	45320
CALIPER NO.	45320
TOOL SERIAL NO.	

LOGGING DATA

GAMMA RAY

FROM	2006	Surface
TO	Surface	1970
SPEED FT/MIN	30	30
T.C. SEC	2	2
SENS. SETTINGS	225	0
API G.R. UNITS PER 100 DIV.	5	5
T.C. SEC	2	2
SENS. SETTINGS	105	111
API G.R. UNITS PER 100 DIV.	40	40

NEUTRON

RUN NO.	One
LOG NO.	1
DENSITY	3872
ATTENUATION NO.	1
TYPE	SOLID
DIAMETER	1 3/4"
ATTACHED TO	SONDE
HOLE TRACE NO.	45320
CALIPER NO.	45320
TOOL SERIAL NO.	

LOGGING DATA

NEUTRON

FROM	TOP Depth	
TO	2000	
SPEED FT/MIN	30	
T.C. SEC	2	
SENS. SETTINGS	4.5	
API G.R. UNITS PER 100 DIV.	40	
T.C. SEC	2	
SENS. SETTINGS	105	
API G.R. UNITS PER 100 DIV.	5	
T.C. SEC	2	
SENS. SETTINGS	225	
API G.R. UNITS PER 100 DIV.	0	

R.P. 2002.5'
Sue Federal #2
Sulimar
Chaves County, New Mexico
Gamma Ray
Neutron
1395.5'
Statistical
1967

V.T.R.C.F. MICROGRAPHICS
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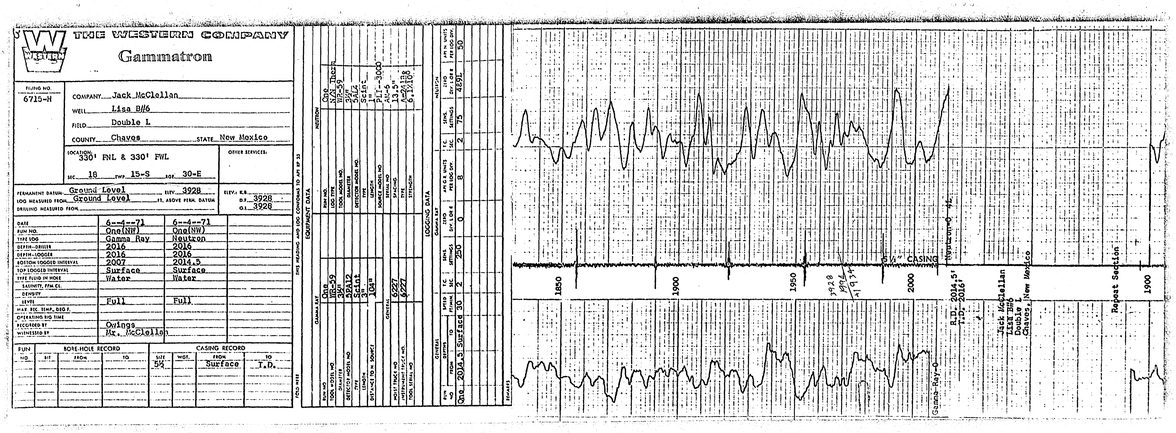

THE WESTERN COMPANY

Gammatron

FILING NO. 6715-N

COMPANY Jack McClellan

WELL Lisa B#6

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION 330' FNL & 330' FWL

SEC. 16 TWP. 15-S RGE. 30-E

OTHER SERVICES:

PERMANENT DATUM Ground Level ELEV. 3928

LOG MEASURED FROM Ground Level FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM

ELEV.: K.B. 3928 D.F. 3928 G.L. 3928

DATE	6-4-71	6-4-71
RUN NO.	One(UP)	One(DN)
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2016	2016
DEPTH-LOGGER	2016	2016
BOTTOM LOGGED INTERVAL	2007	2014.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl.		
DENSITY		
LEVEL	Full	Full
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Owings	
WITNESSED BY	Mr. McClellan	

RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
				5½		Surface	T.D.

DEPTH CONTROL: Log Measured From Ground Level, 0 Ft. Above Perm. Datum

Run One (Up) Gamma Ray: Gamma Ray 2016, Sonic Gamma Ray 2016, Gamma Ray-Neutron 2007, Neutron 2007, Gamma Ray 2007, Sonic 2007, Gamma Ray 2016, Gamma Ray-Neutron 2016, Gamma Ray 2016

Run One (Dn) Neutron: Gamma Ray-Neutron 2016, Gamma Ray 2016

Tool Strings: Gamma Ray-Neutron, Gamma Ray, Sonic, Gamma Ray

Logging Data: Run One (Up) Gamma Ray, Log Int. 2016-Surface, Scale 5"=100', Tied In, Run One (Dn) Neutron, Log Int. 2016-Surface, Scale 5"=100', Tied In

Remarks: Gamma-Ray-Neutron

Recorded: 6-4-71 2016.5' T.D. 2016'

Jack McClellan Lisa B#6 Double L Chaves, New Mexico

Repeat Section

1850 1900 1950 2000 1900

W.N.M.C.F. MICROGRAPHICS

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THE WESTERN COMPANY

Gammatron

FILING NO. 127050-H

COMPANY Jack L. McClellan

WELL Lois State #1

FIELD Double "L"

COUNTY Chaves STATE New Mexico

LOCATION: 990' FNL & 330' FEL

OTHER SERVICES:

SEC. 12 TWP. 15-S RGE. 29-E

PERMANENT DATUM: ground level ELEV. 3888

LOG MEASURED FROM 1 FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM cable tool rig floor

ELEV.: K.B. 3889 D.F. 3888 G.L. 3888

DATE	12-3-70	12-3-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	1993	1999
DEPTH-LOGGER	2002	2003
BOTTOM LOGGED INTERVAL	1992	1999.5
TOP LOGGED INTERVAL	surface	surface
TYPE FLUID IN HOLE	water	water
SALINITY, PPM Cl.		
DENSITY		
LEVEL	full	
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Portable-man	
WITNESSED BY	Jack McClellan	

RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
				8 5/8	32	surface	340
						surface	2002

DEPTH DRILLER 1993

SCHLUM. DEPTH 1999

DEPTH LOGGER 2002

BTM. LOG INTERVAL 1999.5

TOP LOG INTERVAL surface

CASING-DRILLER 8 5/8" @ 340' w/ 250 sx

CASING-LOGGER 340

BIT SIZE 7 7/8"

TYPE FLUID IN HOLE water

DENSITY

LEVEL full

MAX. REC. TEMP. DEG. F.

EQUIPMENT NO. 2

LOCATION Roswell, N.M.

RECORDED BY Portable-man

WITNESSED BY Jack McClellan

RUN NO. One

TYPE LOG Gamma Ray Neutron

SONDE NO. Dno-59BH

GAMMA RAY SKID NO. 5411

SKID NO. 5411

CABLE NO. 5411

CABLE LENGTH 100'

SERIAL NO. 6227

DETECTOR NO. 6227

SPACING

TENSION

MEAS. POINT-TYPE KB

MEAS. POINT-HEIGHT 10' above GL

TYPE LOG Neutron

SONDE NO. Dno-59BH

SKID NO. 5411

CABLE NO. 5411

CABLE LENGTH 100'

SERIAL NO. 6227

DETECTOR NO. 6227

SPACING 12"

TENSION 1300#

MEAS. POINT-TYPE KB

MEAS. POINT-HEIGHT 10' above GL

LOGGING DATA

GAMMA RAY

SERIAL NO. 6227

TIME CONST. 3

SENS. SETTINGS 300

DEPTH 1999.5

SPEED 30 ft./min.

TC SETTING 3

NEUTRON

SERIAL NO. 6227

TIME CONST. 3

SENS. SETTINGS 300

DEPTH 1999.5

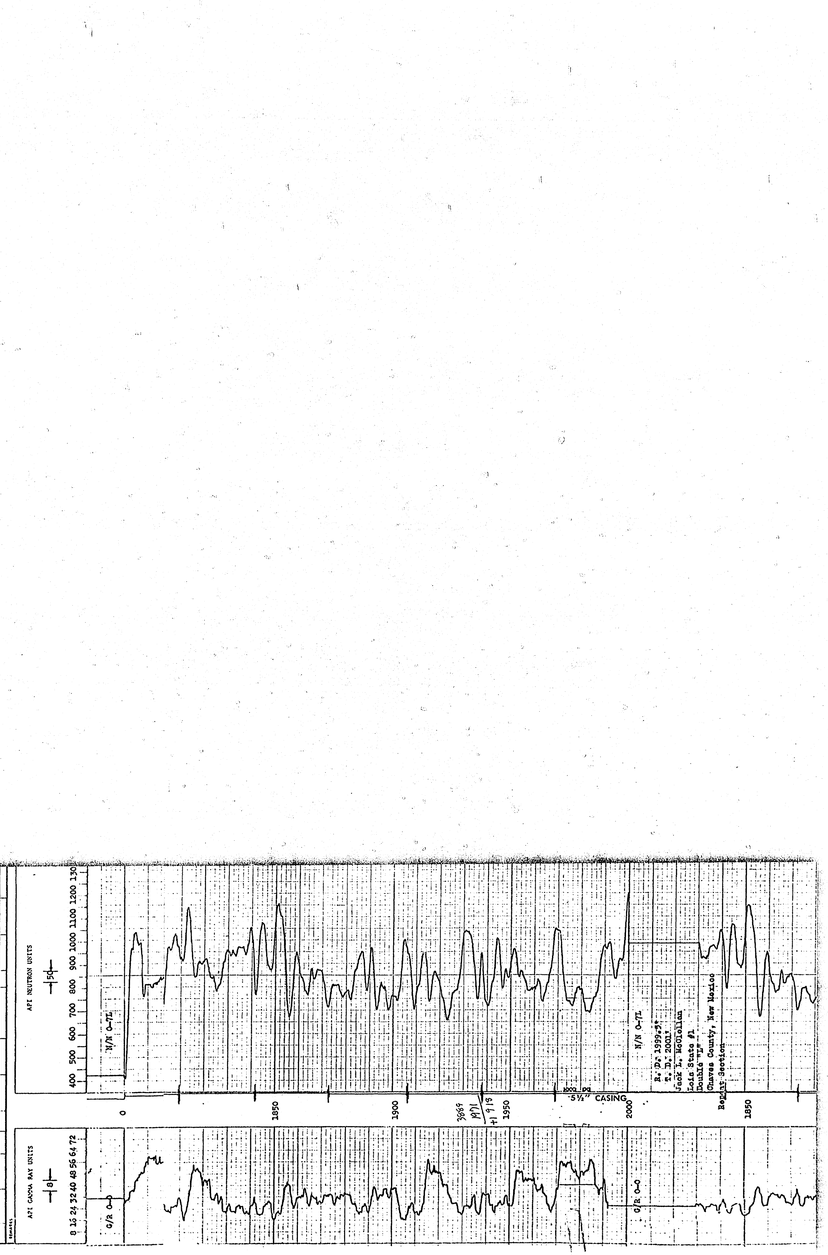
SPEED 30 ft./min.

TC SETTING 3

API G.R. UNITS FROM 0 TO 150

API N. UNITS FROM 50 TO 1250

REMARKS



W.R.N.C.F. MICROGRAPHICS

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WESTERN ATLAS INTERNATIONAL
Gamma Ray Neutron

F. NO. NO.	37012-11
COMPANY	Jack McClellan
WELL	Elyse Federal #1
FIELD	Double L
COUNTY	Chaves STATE New Mexico
LOCATION	330' FSL & 2310'
	SEC. 31 TWP. 14-S RGE. 30-E
OTHER SERVICES	
PERMANENT DATUM	Ground Level ELEV. 3884
LOG MEASURED FROM	Ground Level FT. ABOVE PERM. DATUM
24 FLNG MEASURED FROM	
ELEV.: K.B.	
D.F.	
G.L.	3884

DATE	2-24-70	2-24-70
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2015	2015
DEPTH-LOGGER	2009	2009
BOTTOM LOGGED INTERVAL	2000	2007.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY		
LEVEL	Full	
MAX. REC. TEMP., DEG F.		
EQUIPMENT NO. TRUCK		
RECORDED BY	2 Hours	
WITNESSED BY	Wallace	
RUN NO.	Mr. Jack McClellan	

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
8 5/8	23	Surface	442
5½	14	Surface	2012

EQUIPMENT DATA

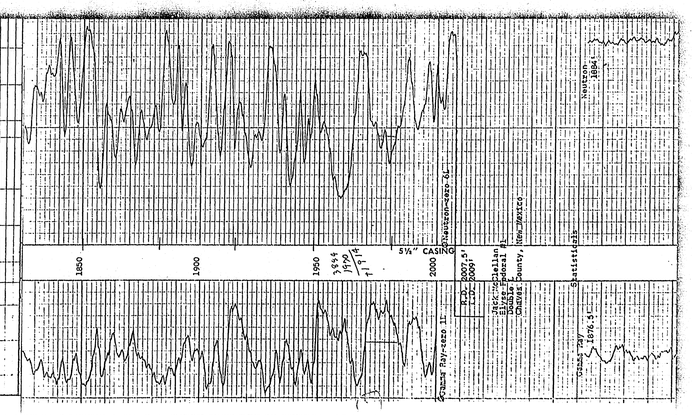
GAMMA RAY	DIF		
DET. NO.	One		
CCL TYPE			
CCL NO.			
DETECTOR LENGTH NO.	36x12		
DETECTOR DIA.	1¼		
DETECTOR FILL - SHORT	Ion		
LENGTH			
SPACING	4227		
SONDE TRACK NO.	4227		
INSTRUMENT TRACK NO.			
CCL SENS. NO.			

NEUTRON	One		
DET. NO.	LAO Short		
CCL TYPE			
CCL NO.			
DETECTOR LENGTH NO.	36x12		
DETECTOR DIA.	1¼		
DETECTOR FILL - SHORT	BF3-Ar		
	11 psi		
LENGTH			
SPACING	4227		
SONDE TRACK NO.	4227		
INSTRUMENT TRACK NO.			
CCL SENS. NO.			

CASING DATA

SPECIAL			
SIZE	10	5½	
WGT.	30	14	
FROM	Surface	Surface	
TO	1500	2012	
SPECIAL			
SIZE	2	2	
WGT.	2	2	
FROM	265	1970	
TO	288	1976.5	
SPECIAL			
SIZE	1¼	6	
WGT.	2	6	
FROM			
TO			
SPECIAL			
SIZE			
WGT.			
FROM			
TO			
SPECIAL			
SIZE			
WGT.			
FROM			
TO			

SPECIAL		
SIZE	1¼	30
WGT.	2	64
FROM	1970	64.124
TO	1976.5	64



W.V.H.C.F. MICROGRAPHICS
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THE WESTERN COMPANY

Gammatron

FILING NO. 87028-H

COMPANY Jack L. McClellan

WELL Elyse Federal #2

FIELD Double L

COUNTY Chaves STATE New Mexico

LOCATION: 1650' FSL & 2310' FEL

SEC 31 TWP 14-S RGE 30-E

OTHER SERVICES:

PERMANENT DATUM: Ground Level ELEV.:

LOG MEASURED FROM: Ground Level FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM: Ground Level

ELEV.: K.B. D.F. G.L. 3926

DATE	8-10-70	8-10-70	8-17-70
RUN NO.	One	One	Two
TYPE LOG	Gamma Ray	Neutron	G/R/N
DEPTH-DRILLER	2001	2001	2001
DEPTH-LOGGER	2004	2004	2000
BOTTOM LOGGED INTERVAL	1995	2002.5	1998.5
TOP LOGGED INTERVAL	0	0	1750
TYPE FLUID IN HOLE	None	None	Water
SALINITY, PPM Cl			
DENSITY			
LEVEL			
MAX REC. TEMP., DEG F			
EQUIPMENT NO. & LOCATION	2 Hours		
RECORDED BY	J.B. Motley		Wheatley
WITNESSED BY			Mr. Jack McClellan

RUN NO.	BIT FROM	BIT TO	BOREHOLE RECORD FROM	BOREHOLE RECORD TO	CASING RECORD SIZE	CASING RECORD WGT.	CASING RECORD FROM	CASING RECORD TO
One					8 5/8		Surface	371
					4½		Surface	T.D.

TIED INTO OPEN HOLE LOG DATED 8-10-70

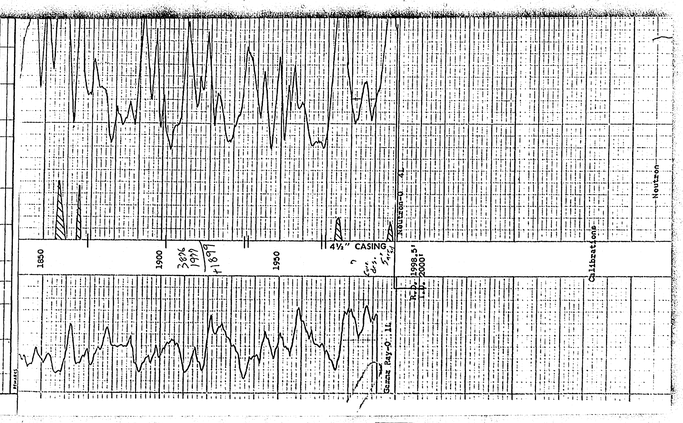
Gamma Ray: Run No. One; Log Reading 200; Tool No. 3021; Detector No. 3021; Source No. 3021; Detector Make Ohio; Detector Size 1½ x 2"; Detector Type Nal; Source Strength 10 mc; Source Type Ra-Be; Tool Length 5'; Tool Diameter 1 3/4"; Tool Weight 100#; Tool Serial No. 3021

Neutron: Run No. One; Log Reading 200; Tool No. 3021; Detector No. 3021; Source No. 3021; Detector Make Ohio; Detector Size 1½ x 2"; Detector Type Nal; Source Strength 10 mc; Source Type Am-Be; Tool Length 10.5'; Tool Diameter 1 3/4"; Tool Weight 125#; Tool Serial No. A-0128

LOGGING DATA

Gamma Ray: API G/R Units Pip Deviation 40; Time Constant Sec. 3; Speed FPM 30; Log Scale 1" = 100'; Tool Position Eccentered; Log Interval From 2000' To 1998.5'

Neutron: API G/R Units Pip Deviation 40; Time Constant Sec. 3; Speed FPM 30; Log Scale 1" = 100'; Tool Position Eccentered; Log Interval From 2000' To 1998.5'



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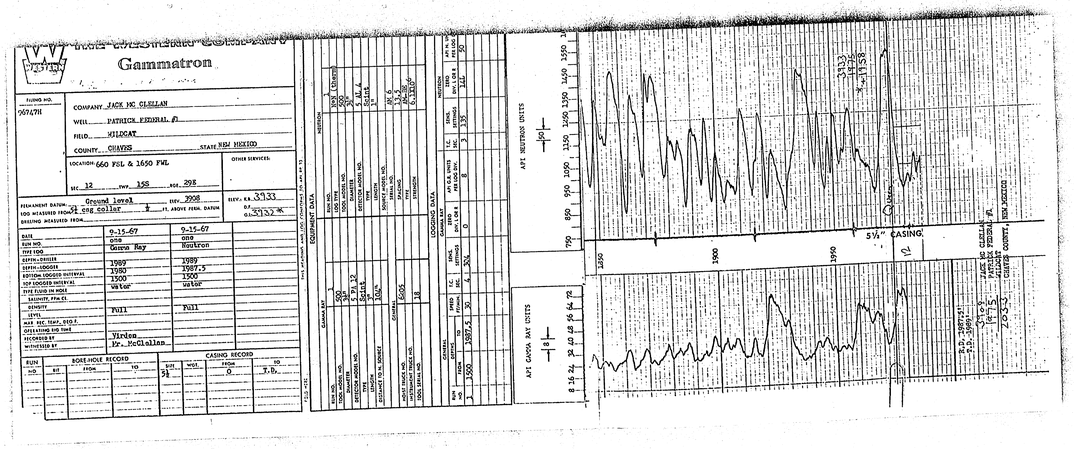

V.E.N.C.P. MICROGRAPHICS
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THE WESTERN COMPANY

Gammatron

FILING NO. 87023-H

COMPANY Jack L. McClellan

WELL Patrick Federal #2

FIELD Subla Queen

COUNTY Chaves STATE New Mexico

LOCATION: 1980' FSL & 1650' FEL

OTHER SERVICES:

SEC. 12 TWP. 15 S RGE. 29E

PERMANENT DATUM: Ground Level ELEV. 3916 ELEV.: K.B.

LOG MEASURED FROM 20 ft. ABOVE PERM. DATUM D.F.

DRILLING MEASURED FROM G.L. 3915 Ref.

DATE	8-17-70	8-17-70
RUN NO.	One	One NW
TYPE LOG	Sonan Ray	Neutron
DEPTH-DRILLER	2005	2005
DEPTH-LOGGER	2004	2004
BOTTOM LOGGED INTERVAL	1995	2002.5
TOP LOGGED INTERVAL	Surface	Surface
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL		
DENSITY		
LEVEL	250	
MAX. REC. TEMP. DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Sheatley	
WITNESSED BY		

RUN | BORE-HOLE RECORD: BIT, FROM, TO | CASING RECORD: SIZE, WGT., FROM, TO

RUN	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				4½		Surface	T.D.

EQUIPMENT DATA

RUN NO.	One	NW
TOOL NO.	5-137	5-137
SPACING	24	24
TYPE	Gamma	Gamma
DETECTOR NO.	5-137	5-137
SOURCE NO.	5-137	5-137
STRENGTH	100 mc	100 mc
DETECTOR MODEL NO.	5-137	5-137
TYPE	Gamma	Gamma
SOURCE MODEL NO.	5-137	5-137
TYPE	Gamma	Gamma
SHIELDING	1¼" Pb	1¼" Pb
STRENGTH	50 mc	50 mc

LOGGING DATA

CASING SIZE	4½	
WGT. & GRADE	9.5	
TOP (DRILLER)	Surface	
BOTTOM (DRILLER)	2002.5	
TOP (LOGGER)	Surface	
BOTTOM (LOGGER)	2002.5	
TYPE FLUID IN HOLE	Water	
DENSITY		
LEVEL	Full	
MAX. REC. TEMP. DEG. F.	92°	
EST. CEMENT TOP	1995	
SOURCE OF INFORMATION	Sheatley	

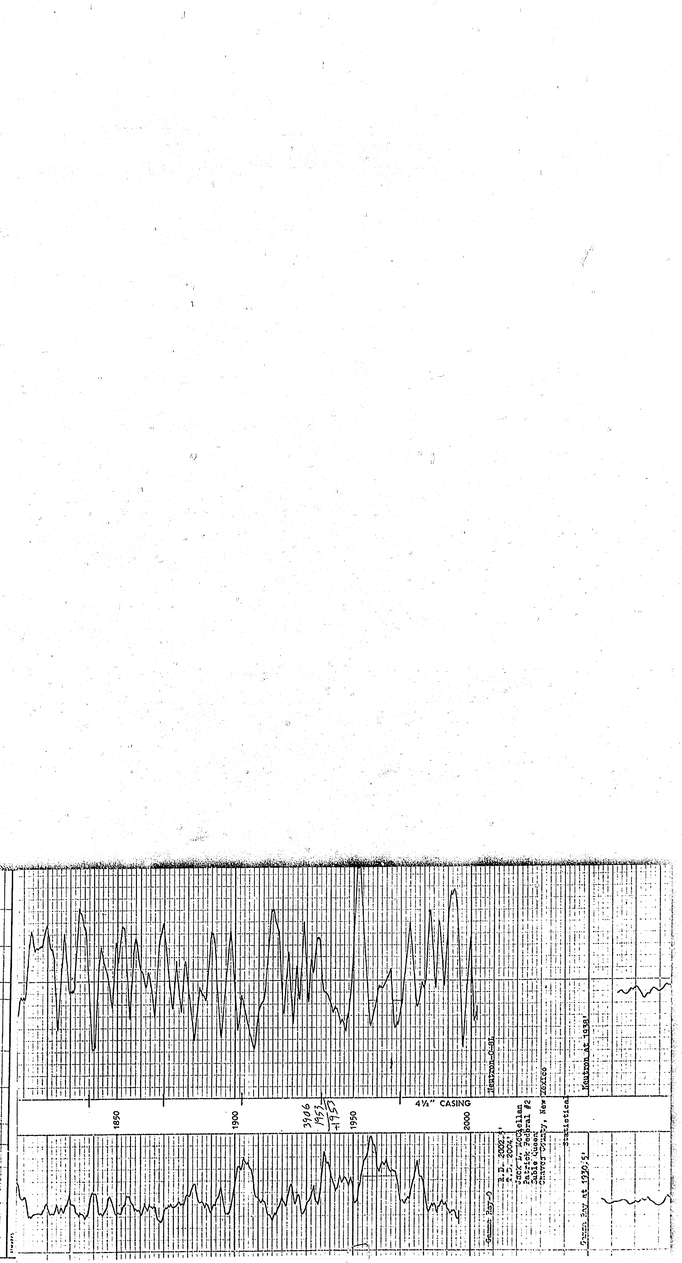
RECORDED BY: Sheatley

WITNESSED BY:

RUN NO.	One	NW
TIME SINCE CIRC.	24 hrs.	24 hrs.
MAX. REC. TEMP. DEG. F.	92°	
EQUIP. LOCATION	Hobbs	Hobbs
RECORDED BY	Sheatley	
WITNESSED BY		

METERING

TYPE	Gamma	Gamma
SENSITIVITY	1.0	1.0
TIME CONSTANT	1.0	1.0
GAMMA RAY CALIBRATOR	5-137	5-137
API UNITS	50	
LOW SCALE	0	
HIGH SCALE	100	250



W.N.M.C.F. MICROGRAPHICS

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SCHLUMBERGER

COMPANY JACK L. MC CLELLAN

WELL MARION FEDERAL #1

FIELD WILDCAT

COUNTY CHAVES STATE NEW MEXICO

LOCATION 330' FNL & 1650' FWL

Other Services:

Sec. 7 Twp. 15-S Rge. 30-E

LL, SLL

Permanent Datum: G.L. Elev. 1906 Elev.: K.B. 1916

Log Measured From K.B. 10 Ft. Above Perm. Datum D.F. 1915

Drilling Measured From K.B. G.L. 1906

Date	6-17-69			
Run No.	ONE			
Depth—Driller	3525			
Depth—Logger	3522			
Btm. Log Interval	3520			
Top Log Interval	0			
Casing—Driller	8 5/8@ 300	@	@	@
Casing—Logger	307			
Bit Size	7 7/8			
Type Fluid in Hole	SALT BASE			
Dens. / Visc.	10.4 / 33			
pH / Fluid Loss	6.8 / 16 ml	ml	ml	ml
Source of Sample	PIT			
R_m @ Meas. Temp.	.064 @ 83 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	.039 @ 83 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	.059 @ 83 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	M C			
R_m @ BHT	.062 @ 90 °F	@ °F	@ °F	@ °F
Time Since Circ.	2 HOURS			
Max. Rec. Temp.	90 °F	°F	°F	°F
Equip. Location	3770 HOBBS			
Recorded By	PERRY			
Witnessed By	MC CLELLAN			

JACK L. MCCLELLAN

Scale Changes: Type Log, Depth, Scale Up Hole, Scale Down Hole

Equipment Data: Run No., Tool Type, Tool Pos., Other

Surface Readout System: Type, Serial No., Panel No., Source No.

Gain Set: Date, Time

Source: R_m, R_{mf}, R_{mc}, R_m @ BHT

Density Log: Source, Matrix, Grain Density

Neutron Log: Source, Matrix, Fluid Density

Sonic Log: Source, Matrix, Fluid Density

Gamma Ray: Source

THE WESTERN COMPANY

Gammatron

RUN NO. 37118-H

COMPANY Jack McClellan

WELL Mary Jane #2

FIELD Double "H"

COUNTY Eddy STATE New Mexico

LOCATION: 330' FWL & 990' FSL

OTHER SERVICES:

SEC. 7 TWP. 15-S RGE. 30-E

PERMANENT DATUM Ground Level ELEV. 3920 ELEV.: K.B. 3922

LOG MEASURED FROM 2 FT. ABOVE PERM. DATUM D.F. 3921

DRILLING MEASURED FROM G.L. 3920

DATE	3-1-71	3-1-71
RUN NO.	One	One
TYPE LOG	Gamma Ray	Neutron
DEPTH-DRILLER	2014	2014
DEPTH-LOGGER	2013	2012
BOTTOM LOGGED INTERVAL	2004	2011.5
TOP LOGGED INTERVAL	0	0
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM Cl		
DENSITY		
LEVEL		
MAX. REC. TEMP., DEG. F.		
OPERATING RIG TIME		
RECORDED BY	Quings	
WITNESSED BY		

RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	SIZE	WGT.	CASING RECORD FROM	TO
				5½	15.5	Surface	T.D.

LOG MEASURED FROM KB 10 FT. ABOVE PERM. DATUM

RUN NO. One

DATE 3-1-71

TYPE LOG Gamma Ray

DEPTH-DRILLER 2014

DEPTH-LOGGER 2013

BOTTOM LOGGED INTERVAL 2004

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

SALINITY, PPM Cl

DENSITY

LEVEL

RECORDED BY Quings

WITNESSED BY

BIT NO. 1

SIZE 7 7/8

MAKE RR

TYPE J-3

FROM 0

TO 2014

FEET 2014

HOURS 5½

CASING SIZE 5½

WGT. & GRADE 15.5

FROM 0

TO 2013

CASING DRILLER 2013

CASING LOGGER 2012

BOTTOM LOGGED INTERVAL 2011.5

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

DENSITY

LEVEL

MAX. REC. TEMP. 6227

EQUIP. LOCATION 6227

RECORDED BY

WITNESSED BY

LOGGING DATA

ORIGINAL

RUN NO.	TIME	DEPTH DRILLER	DEPTH LOGGER	BTM. LOG INTERV.	TOP LOG INTERV.	TYPE FLUID IN HOLE	DENS.	VISC.	PH	FLUID LOSS	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE OF RMF	SOURCE OF RMC	RM @ BHT	TIME SINCE CIRC.	MAX. REC. TEMP.	EQUIP. LOCATION	RECORDED BY	WITNESSED BY
One		2014	2013	2012	0	Water													6227	6227		

RUN NO. One

DATE 3-1-71

TYPE LOG Neutron

DEPTH-DRILLER 2014

DEPTH-LOGGER 2012

BOTTOM LOGGED INTERVAL 2011.5

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

SALINITY, PPM Cl

DENSITY

LEVEL

MAX. REC. TEMP. 6227

EQUIP. LOCATION 6227

RECORDED BY

WITNESSED BY

BIT NO. 1

SIZE 7 7/8

MAKE RR

TYPE J-3

FROM 0

TO 2014

FEET 2014

HOURS 5½

CASING SIZE 5½

WGT. & GRADE 15.5

FROM 0

TO 2013

CASING DRILLER 2013

CASING LOGGER 2012

BOTTOM LOGGED INTERVAL 2011.5

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

DENSITY

LEVEL

MAX. REC. TEMP. 6227

EQUIP. LOCATION 6227

RECORDED BY

WITNESSED BY

LOGGING DATA

ORIGINAL

RUN NO.	TIME	DEPTH DRILLER	DEPTH LOGGER	BTM. LOG INTERV.	TOP LOG INTERV.	TYPE FLUID IN HOLE	DENS.	VISC.	PH	FLUID LOSS	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE OF RMF	SOURCE OF RMC	RM @ BHT	TIME SINCE CIRC.	MAX. REC. TEMP.	EQUIP. LOCATION	RECORDED BY	WITNESSED BY
One		2014	2012	2011.5	0	Water													6227	6227		

RUN NO. One

DATE 3-1-71

TYPE LOG Neutron

DEPTH-DRILLER 2014

DEPTH-LOGGER 2012

BOTTOM LOGGED INTERVAL 2011.5

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

SALINITY, PPM Cl

DENSITY

LEVEL

MAX. REC. TEMP. 6227

EQUIP. LOCATION 6227

RECORDED BY

WITNESSED BY

BIT NO. 1

SIZE 7 7/8

MAKE RR

TYPE J-3

FROM 0

TO 2014

FEET 2014

HOURS 5½

CASING SIZE 5½

WGT. & GRADE 15.5

FROM 0

TO 2013

CASING DRILLER 2013

CASING LOGGER 2012

BOTTOM LOGGED INTERVAL 2011.5

TOP LOGGED INTERVAL 0

TYPE FLUID IN HOLE Water

DENSITY

LEVEL

MAX. REC. TEMP. 6227

EQUIP. LOCATION 6227

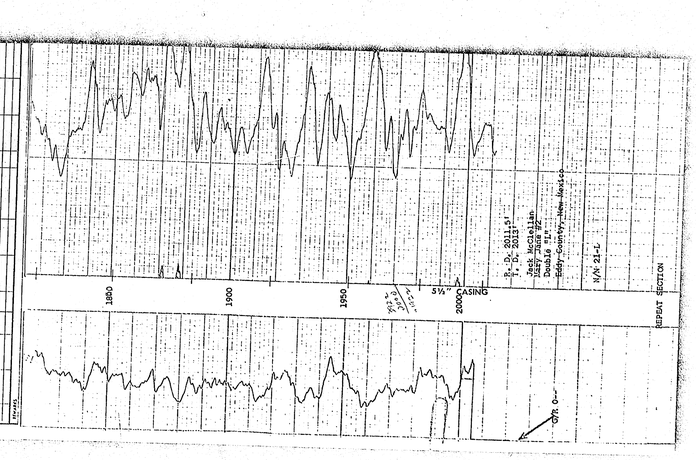
RECORDED BY

WITNESSED BY

LOGGING DATA

ORIGINAL

RUN NO.	TIME	DEPTH DRILLER	DEPTH LOGGER	BTM. LOG INTERV.	TOP LOG INTERV.	TYPE FLUID IN HOLE	DENS.	VISC.	PH	FLUID LOSS	SOURCE OF SAMPLE	RM @ MEAS. TEMP.	RMF @ MEAS. TEMP.	RMC @ MEAS. TEMP.	SOURCE OF RMF	SOURCE OF RMC	RM @ BHT	TIME SINCE CIRC.	MAX. REC. TEMP.	EQUIP. LOCATION	RECORDED BY	WITNESSED BY
One		2014	2012	2011.5	0	Water													6227	6227		



U.S.G.S. MICROGRAPHICS
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DresserAtlas

COMPENSATED

Densilog

FILE NO.

COMPANY PAN AMERICAN PETROLEUM CORPORATION

WELL STATE "EK" WELL NO. 1

FIELD DOUBLE "L" QUEEN

COUNTY CHAVES STATE NEW MEXICO

LOCATION: 330' FSL & 2310' FWL

SEC 25 TWP. 14-S RGE 29-E

Other Services

Permanent Datum	G.L.	Elev. 3828'	Elevations: KB 3830'
Log Measured from	D.F.	2 Ft. Above Permanent Datum	DF 3828'
Drilling Measured from	D.F.		GL 3828'

Date	7-3-70		
Run No.	ONE		
Depth—Driller	11930		
Depth—Logger	1952		
Bottom Logged Interval	1930		
Top Logged Interval	350		
Casing—Driller	8 5/8@353	@	@
Casing—Logger	350		
Bit Size	8"		
Type Fluid in Hole	DRY GAS		
Density and Viscosity			
pH and Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.	— @ —	@	@
Rmf @ Meas. Temp.	— @ —	@	@
Rmc @ Meas. Temp.	— @ —	@	@
Source of Rmf and Rmc	— —	—	—
Rm @ BHT	— @ —	@	@
Time Since Circ.			
Max. Rec. Temp. Deg F.			
Equip. No. and Location	6034 HOBBS		
Recorded By	VAUGHN		
Witnessed By	MR. CRAVENS		

Gamma Ray — Epithermal Data — Drilling

Run No. ONE | Detector Serial No. 3152 | Source Serial No. 340 | Compensator Model No. CM60 | Serial No. 25135 | Type Fluid In Hole DRY GAS | Max. Rec. Temp. 179 | Equip. No. and Location 6034 HOBBS | Recorded By VAUGHN | Witnessed By MR. CRAVENS

Gamma Ray — Thermal Data

Run No. ONE | Detector Serial No. 3152 | Source Serial No. 340 | Compensator Model No. CM60 | Serial No. 25135 | Type Fluid In Hole DRY GAS | Max. Rec. Temp. 179 | Equip. No. and Location 6034 HOBBS | Recorded By VAUGHN | Witnessed By MR. CRAVENS

Drilling — Density Correction: Fluid Density 1.0 | Matrix Density 2.65 | Hole Corr. 0.17/CC

Gamma Ray — Density Data

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Neutron Data

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Caliper

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Resistivity

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Sonic Data

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Other Data

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Reference Elevation

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Gamma Ray — Recorded Data

Run No. ONE | Detector Serial No. 3152 | Source Strength 10 MC | Source Serial No. 340 | Density Correction 0.15 | Porosity Correction 0.03 | Matrix Density 2.65 | Fluid Density 1.0 | Hole Corr. 0.17/CC

Run No.	Date	Depth—Driller	Depth—Logger	Bottom Logged Interval	Top Logged Interval	Type Log	Gamma Ray Scale	Neutron Scale	Density Scale
ONE	7-3-70	11930	1952	1930	350	DENSILOG	0-100 API	40%-0%	3.0-2.0

Remarks: GAMMA RAY RAN SEPARATELY DUE TO DRY GAS.
TIE BOREHOLE AND DRIFTED ON LOG.
WELL CASED TO BOTTOM 450

GAMMA RAY & CALIPER

DEPTH 2"=100' 350'

0 API — API UNITS 100 API — 200

10 API/CD

HOLE SIZE - INCHES 16

BULK DENSITY GRAMS/CC

CORRECTION -.1 0 .1 — 2.0 — 2.5 — 3.0

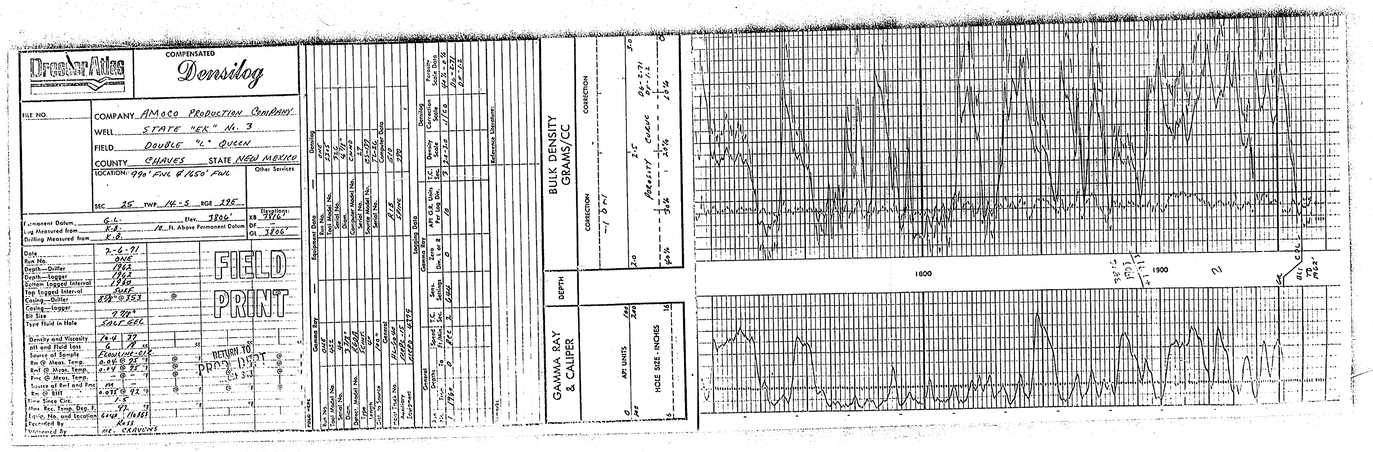
PERCENT POROSITY 40% — 30% — 20% — 10% — 0

1700 — 1800 — 1900

5513
2120
3116

V.E.N.C.P. MICROGRAPHICS

BEST AVAILABLE COPY


Dresser Atlas
COMPENSATED
Densilog
FILE NO.
COMPANY AMOCO PRODUCTION COMPANY
WELL STATE "ER" No. 3
FIELD DOUBLE "L" QUEEN
COUNTY CHAVES STATE NEW MEXICO
LOCATION: 990' FNL & 1650' FWL
Other Services
SEC 25 TWP 14-S RGE 32E
Permanent Datum G.L. Elev. 3826' K.B. 3826'
Log Measured from K.B. 14 Ft. Above Permanent Datum D.F.
Drilling Measured from K.B. G.L. 3826'
Date 2-6-71
Run No. ONE
Depth—Driller 1963
Depth—Logger 1962
Bottom Logged Interval 1930
Top Logged Interval SURF.
Casing—Driller 8 5/8" @ 353
Casing—Logger
Bit Size 7 7/8"
Type Fluid in Hole SALT GEL
Density and Viscosity 10.4 39
pH and Fluid Loss 9. 8.4
Source of Sample FLOWLINE
Rm @ Meas. Temp. 0.95 @ 82 °F
Rmf @ Meas. Temp. 0.77 @ 82 °F
Rmc @ Meas. Temp. @ °F
Source of Rmf and Rmc M
Rm @ BHT 0.67 @ 92 °F
Time Since Circ. 1.5
Max. Rec. Temp. Deg. F. 92
Equip. No. and Location 6748 HOBBS
Recorded By R.H.
Witnessed By MR. STEVENS
FIELD PRINT
RETURN TO PRODS. DEPT.
Equipment Data
Gamma Ray
Sonde Type GCT
Sonde Gen. No. 3711
Sonde Model No. 6-A
Skid No. 7-GCT
Serial No. 1-GCT
Logging Truck No. 1-GCT
Recorded 2-6-71 1200 hrs.
Logging Data
Density
Sonde Type FDC
Sonde Gen. No. 3711
Sonde Model No. 6-A
Skid No. 7-GCT
Serial No. 1-GCT
Logging Truck No. 1-GCT
Recorded 2-6-71 1200 hrs.
Logging Data
Source Cs 137
Strength 20 mc
Detector to Source Spacing 11"
Mud Density 10.4
Viscosity 39
Fluid Loss 9.8
Max. Rec. Temp. 92 °F
Time Since Circ. 1.5 Hrs.
Time on Bottom 1200 hrs.
Unit No. 6748
Location HOBBS
Recorded By R.H.
Witnessed By MR. STEVENS
Density
Sonde Type FDC
Sonde Gen. No. 3711
Sonde Model No. 6-A
Skid No. 7-GCT
Serial No. 1-GCT