WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/7/84 TICKET #7388
CUSTOMER: DIAMOND SHAMROCK EXPL.CO. LEASE: MARY K. KOHLER
WELL: #1 TEST: 1 GEOLOGIST: COATES
ELEVATION (KB): 1406 FORMATION: MISS
SECTION: 18 TOWNSHIP: 27S
RANGE: 4W COUNTY: SEDGWICK STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3668 FT TO: 3679 FT TOTAL DEPTH: 3679 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3663 FT SIZE: 6 3/4 IN PACKER DEPTH: 3668 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: KAW
MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.3 WATER LOSS (CC): 8.2
CHLORIDES (P.P.M.): 22000
JARS - MAKE: W.T.C. SERIAL NUMBER: 406
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: 300 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 3336 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 32 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 11 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING
TO STRONG. FINAL FLOW PERIOD STRONG
BLOW THROUGHOUT.

RECOVERED: 10 FT OF: MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:05 A.M. TIME STARTED OFF BOTTOM: 2:05 P.M.
WELL TEMPERATURE: 110 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1809 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 23 PSI TO (C) 23 PSI
INITIAL CLOSED IN PERIOD MIN: 57 (D) 343 PSI
FINAL FLOW PERIOD MIN: 30 (E) 26 PSI TO (F) 26 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 346 PSI
FINAL HYDROSTATIC PRESSURE (H) 1809 PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 10/7/84 TICKET #7388
CUSTOMER: DIAMOND SHAMROCK EXPL.CO. LEASE: MARY K. KOHLER
WELL: #1 TEST: 1 GEOLOGIST: COATES
ELEVATION (KB): 1406 FORMATION: MISS
SECTION: 18 TOWNSHIP: 27S
RANGE: 4W COUNTY: SEDGWICK STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	1809	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	23	PSI
(C)	FIRST FINAL FLOW PRESSURE:	23	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	343	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	26	PSI
(F)	SECOND FINAL FLOW PRESSURE:	26	PSI
(G)	FINAL CLOSED-IN PRESSURE:	346	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	1809	PSI
WELL TEMPERATURE:		110	'F

OPEN TOOL: 11:05 A.M.

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	60	MIN	57	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	60	MIN	60	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	23	0	23	0	26	0	26
2	5	23	3	43	5	26	3	37
3	10	23	6	64	10	26	6	55
4	15	23	9	86	15	26	9	71
5	20	23	12	103	20	26	12	89
6	25	23	15	122	25	26	15	111
7	30	23	18	137	30	26	18	130
8			21	154			21	151
9			24	169			24	169
10			27	187			27	189
11			30	204			30	206
12			33	222			33	220
13			36	240			36	236
14			39	257			39	253
15			42	273			42	270
16			45	287			45	284
17			48	302			48	299
18			51	319			51	312
19			54	333			54	326
20			57	343			57	342
21							60	346
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Phone (316) 793-7903

WESTERN TESTERS

P. O. Box 793 - Great Bend, Kansas

Fluid Sample Report

Date 10/7/84 Ticket No. 7388

Company Diamond Shamrock Exploration Company

Well Name & No. #1 MARY K KOHLER DST No. 1

County Sedgwick State Kansas

Sampler No. 1 Test Interval 3668-3679

Pressure in Sampler 12 PSIG BHT 110 °F

Total Volume of Sampler 3150 cc.

Total Volume of Sample: 2350 cc.

Oil: cc.

Water: cc.

Mud: 2350 cc.

Gas: cu. ft.

Other:

Resistivity

Water: @ of Chloride Content ppm.

Mud Pit Sample .34 @ 72° of Chloride Content 22,000 ppm.

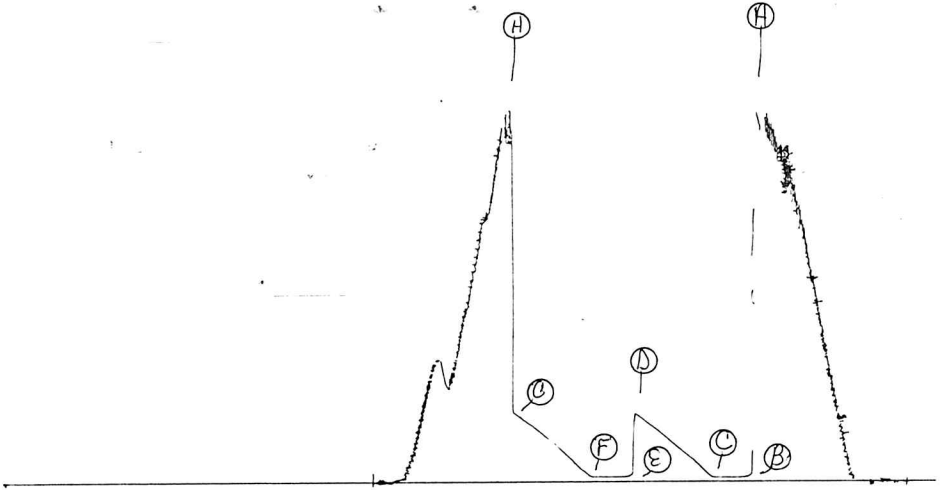
Gas/Oil Ratio Gravity °API @ °F

Where was sample drained SHOP

Remarks:

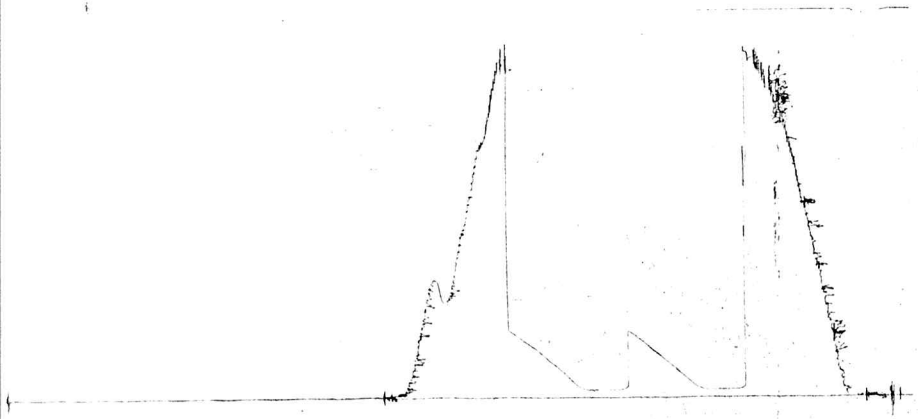
13402
DST #1, TKT # 7388

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15.59
DST #1 TKT # 7388

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WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/8/84 TICKET #7389
CUSTOMER: DIAMOND SHAMROCK EXPL. CO. LEASE: MARY K. KOHLER
WELL: #1 TEST: 2 GEOLOGIST: LARK
ELEVATION (KB): 1406' FORMATION: MISS
SECTION: 18 TOWNSHIP: 27S
RANGE: 4W COUNTY: SEDGWICK STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3676 FT TO: 3705 FT TOTAL DEPTH: 3705 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3671 FT SIZE: 6 3/4 IN PACKER DEPTH: 3676 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: KAW
MUD TYPE: CHEM VISCOSITY: 48
WEIGHT: 9.3 WATER LOSS (CC): 8.2
CHLORIDES (P.P.M.): 22000
JARS - MAKE: W.T.C. SERIAL NUMBER: 406
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:		FT	I.D.:		IN
WEIGHT PIPE LENGTH:	300	FT	I.D.:	3.2	IN
DRILL PIPE LENGTH:	3344	FT	I.D.:	3.8	IN
TEST TOOL LENGTH:	32	FT	TOOL SIZE:	5 1/2 O.D.	IN
ANCHOR LENGTH:	29	FT	SIZE:	5 1/2 O.D.	IN
SURFACE CHOKE SIZE:	3/4	IN	BOTTOM CHOKE SIZE:	3/4	IN
MAIN HOLE SIZE:	7 7/8	IN	TOOL JOINT SIZE:	4 1/2 XH	IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW SLOWLY
BUILDING TO FAIR. FINAL FLOW PERIOD
FAIR BLOW THROUGHOUT.

RECOVERED: 110 FT OF: MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:55 A.M. TIME STARTED OFF BOTTOM: 4:44 A.M.
WELL TEMPERATURE: 112 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1852	PSI
INITIAL FLOW PERIOD	MIN: 30	(B) 48	PSI TO (C) 57 PSI
INITIAL CLOSED IN PERIOD	MIN: 57	(D) 1155	PSI
FINAL FLOW PERIOD	MIN: 30	(E) 78	PSI TO (F) 87 PSI
FINAL CLOSED IN PERIOD	MIN: 60	(G) 1117	PSI
FINAL HYDROSTATIC PRESSURE		(H) 1801	PSI

WESTERN TESTING COMPANY INC.
PRESSURE DATA

DATE: 10/8/84 TICKET #7389
CUSTOMER: DIAMOND SHAMROCK EXPL. CO. LEASE: MARY K. KOHLER
WELL: #1 TEST: 2 GEOLOGIST: LARK
ELEVATION (KB): 1406 FORMATION: MISS
SECTION: 18 TOWNSHIP: 27S
RANGE: 4W COUNTY: SEDGWICK STATE: KANSAS
GAUGE SN #13402 RANGE: 4025 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1852	PSI
(B) FIRST INITIAL FLOW PRESSURE:	48	PSI
(C) FIRST FINAL FLOW PRESSURE:	57	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1155	PSI
(E) SECOND INITIAL FLOW PRESSURE:	78	PSI
(F) SECOND FINAL FLOW PRESSURE:	87	PSI
(G) FINAL CLOSED-IN PRESSURE:	1117	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1801	PSI
WELL TEMPERATURE:	112	'F

OPEN TOOL: 1:55 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	57 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	48	0	57	0	78	0	87
2	5	48	3	91	5	78	3	144
3	10	48	6	140	10	79	6	261
4	15	50	9	241	15	80	9	443
5	20	53	12	435	20	82	12	624
6	25	56	15	651	25	85	15	757
7	30	57	18	791	30	87	18	840
8			21	874			21	896
9			24	939			24	937
10			27	978			27	969
11			30	1013			30	998
12			33	1045			33	1019
13			36	1068			36	1038
14			39	1088			39	1055
15			42	1106			42	1069
16			45	1118			45	1081
17			48	1129			48	1092
18			51	1139			51	1101
19			54	1147			54	1109
20			57	1155			57	1116
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WESTERN TESTERS

P. O. Box 793 - Great Bend, Kansas

Fluid Sample Report

Date 10/8/84 Ticket No. 7389

Company Diamond Shamrock Exploration Company

Well Name & No. #1 MARY K KOHLER DST No. 2

County Sedgwick State Kansas

Sampler No. 1 Test Interval 3676-3705

Pressure in Sampler 82 PSIG BHT 112 °F

Total Volume of Sampler 3150 cc.

Total Volume of Sample: 2450 cc.

Oil: cc.

Water: 50 cc.

Mud: 2400 cc.

Gas: cu. ft.

Other:

Resistivity

Water: .19 @ 68 of Chloride Content 47,000 ppm.

Mud Pit Sample .49 @ 68 of Chloride Content 22,000 ppm.

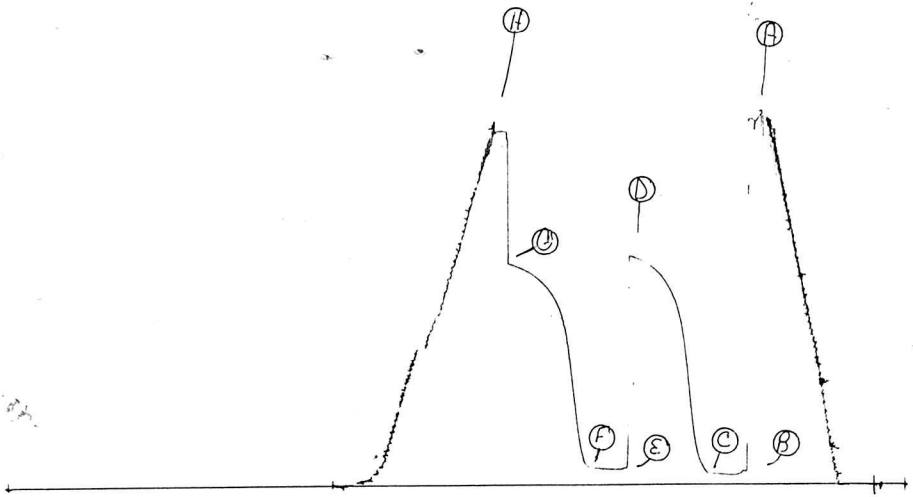
Gas/Oil Ratio Gravity °API @ °F

Where was sample drained RIG

Remarks:

13402
DST #2 TKT # 7389

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1559
DST #2 TKT # 7389

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