DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE U.S. DEPARTMENT OF ENERGY

OPEN-FILE REPORT
82-456
SHEET 1 OF 2

(200)
R290
no. 82-456

B

WEST

PLAYA FIELD

SYSTEM	SERIES	FORMATION
TERTIARY	PALEOCENE	FORT UNION
CRETACEOUS	UPPER CRETACEOUS	LANCE
		FOX HILLS SANDSTONE
		LEWIS SHALE
		ALMOND
		ERICSON SANDSTONE
		ROCK SPRINGS
		MESAVERDE GROUP
		BLAIR
		BAXTER SHALE

7

Davis Oil
Reid Federal #1
NW¼NW¼SEC.34,T.21N.,R.97W.
KB 7236

6

Tubco Petroleum
#1-34 Playa-Federal
SW¼SW¼SEC.34,T.21N.,R.98W.
GR 7160

5

J.L. Kemmerer Jr.
#2 Unit
NE¼SW¼SEC.34,T.21N.,R.99W.
KB 6914

4

True Oil
True Bluewater Colorado Federal #41-26
NE¼NE¼SEC.26,T.21N.,R.100W.
KB 7136

3

Prenalta Corp.
State #44-36-21-101
SE¼SE¼SEC.36,T.21N.,R.101W.
GR 6635

2

Prenalta Corp.
Gov't #14-34-21-101
SW¼SW¼SEC.34,T.21N.R.101W.
KB 6917

1

Prenalta Corp.
Gov't #44-32-21-102
SE¼SE¼SEC.32,T.21N.,R102W.
DF 7217

Producing Interval
IPF 2550 MCFD

TD 4110 | TD 5854 | LTD 7443 | LTD 6896 | LTD 8659 | TD 9230 | TD 11635

8.0 km 5.0 mi | 9.3 km 5.8 mi | 16.2 km 10.1 mi | 12.5 km 7.8 mi | 3.2 km 2.0 mi | 5.4 km 3.2 mi

Lance | Fox Hills Ss | Lewis Sh | Fox Hills Ss

DST 01 3686-3751
Rec 60 ft Mud
FP 48-66, 62-72
ISIP 1353 FSIP 165
HP 2060-2027

DST 02 3752-3802
Rec 58 ft MSOCM
FP 48-99, 80-89
ISIP 103 FSIP 82
HP 2137-2120

DST 03 3828-3871
OTS in 10 min at 4 MCFD
OTS in 1 H 14 min at 10 MCFD
OTS in 2 H at 9 MCFD
Rec 30 ft GCM 246 ft O & GCM
90 ft HOCM
FP 118-146, 100-186
ISIP 1053 FSIP 1155
HP 2105-2063

DST 04 3861-3861
IFP 20 FFP 20
No SIP reported

DST 05 3866-3886
IFP 30 FFP 25
FSIP 1320
HP 2132-2104

DST 06 3912-3932
IFP 182 FFP 180
FSIP 526
HP 3092-3066

Core 01 3699-3750 Rec 50.5 ft
Core 02 3751-3802 Rec 51 ft

Perforation Tests
3861-3861 Acid 500 gals
3859-3863 SOFR 30,000 gals 35,000 lbs sand
SOLD
3851-3851 SOFR 30,000 gals 50,000 lbs sand
SOLD
3851-3853 SOFR 9700 gals 20,000 lbs sand

DST 01 4778-4799
OTS in 4 min at 380 MCFD
OTS in 1 H at 722 MCFD
Rec 4 ft GCM 1 ft DLBT
FP 260 FFP 284
ISIP 2306 FSIP 2165
HP 3610-3593

DST 02 5005-5131
Rec 120 ft Mud
IFP 98 FFP 85
ISIP 1855 FSIP 250
FHP 2665

DST 03 5815-5850
OTS in 4 min at 258 MCFD
Rec 180 ft HOCM
ISIP 2000 FSIP 1835

Perforation Tests
5360-5362)
5526-5532) SOFR 30,000 gals
5562-5566) 30,000 lbs sand

4778-4792 SOFR 785 bbls
30,000 lbs sand

5406-5412 No details
4810-4812 No details

DST 01 7045-7109
Misrun

DST 02 7105-7170
Rec 415 ft Mud
IFP 118 FFP 204 SIP 1492
ISIP 2965 FSIP 2039
HP 3445

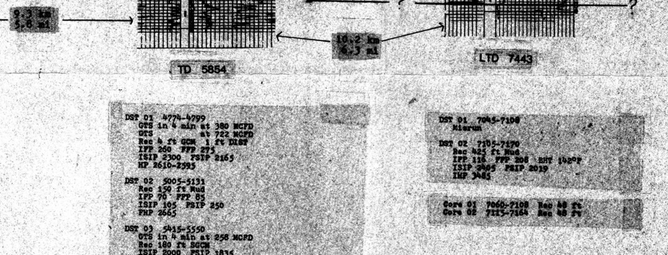
Core 01 7160-7168 Rec 48 ft
Core 02 7215-7265 Rec 48 ft

EXPLANATION

VERTICAL SCALE

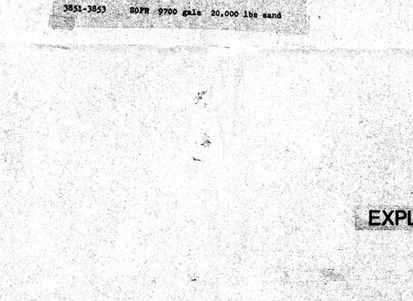
FEET	METERS
0	0
200	100
400	200
600	200
800	
1000	300

INDEX MAP SHOWING LOCATION OF CROSS SECTION



6-Location and reference number of wells

TYPE OF LOG USED



REFERENCES

Gill, J. R., Merewether, E. A., and Cobban, W. A., 1970, Stratigraphy and nomenclature of some Upper Cretaceous and lower Tertiary rocks in south-central Wyoming: U.S. Geological Survey Professional Paper 667, 53p.

Correlation line--facies relationship and (or) formation contact, queried where uncertain

Unconformity--queried where uncertain

Abandoned oil and gas test well

Producing gas well

Temporarily abandoned well

METRIC EQUIVALENTS

1 ft = 0.3048 m
1 psi = 7.03 X 10^{-2} kg per cm^2
1 MCFD = 28.32 m^3 per day
1 BWPD = 159 liters of water per day

ABBREVIATIONS

KB	Kelly bushing, elevation in feet	Cond	Condensate
DF	Derrick floor, elevation in feet	Emul	Emulsion
GR	Ground, elevation in feet	DIST	Distillate
TD	Total depth drilled, in feet	MCFD	Thousand cubic feet per day
LTD	Logged total depth, in feet	BCPD	Barrels of condensate per day
TA	Temporarily abandoned	BWPD	Barrels of water per day
DST	Drill stem test	FP	Flow pressure
Rec	Recovered	IFP	Initial flow pressure
OTS	Gas to surface	FFP	Final flow pressure
GCM	Gas cut mud	SIP	Shut in pressure
SOCM	Slightly gas cut mud	ISIP	Initial shut in pressure
VSGCM	Very slightly gas cut mud	FSIP	Final shut in pressure
HGCM	Highly gas cut mud	HP	Hydrostatic pressure
SG & WCM	Slightly gas and water cut mud	IHP	Initial hydrostatic pressure
O & GCM	Oil and gas cut mud	FHP	Final hydrostatic pressure
HO & GCM	Highly oil and gas cut mud	BHT	Bottom hole temperature
HOCM	Highly oil cut mud	IPF	Initial production, flowing
WTR	Water	SOFR	Sand-oil frac
MW or MWTR	Muddy water	SEFR	Sand-emulsion frac
GCW	Gas cut water	MA	Mud acid
HGCW	Highly gas cut water	SITP	Shut in tubing pressure
GCMW	Gas cut muddy water	SQZD	Squeezed
WC or WCUSH	Water cushion	Fract	Hydraulic fracturing
MCWC	Mud cut water cushion	Additv	Additive
GCWC	Gas cut water cushion	sd	Sand
SGCWC	Slightly gas cut water cushion	bbls	Barrels
SWCM	Slightly water cut mud	gals	Gallons
		lbs	Pounds
		cc	Cubic centimeters
		cft	Cubic feet

SECTION B--B', SUBSURFACE CORRELATIONS OF SOME UPPER CRETACEOUS AND TERTIARY ROCKS, GREAT DIVIDE BASIN, WYOMING

By

H.G. BUCUREL

1982