



00203993

GEOLOGICAL WELLSITE REPORT

CAZA EXPLORATION COMPANY
#1 State
NWNW Section 28-T7N-R53W
Logan County, Colorado

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NOV 0 2 1988

COLO. OIL & GAS CONS. COMM.

Michael J. Fuchs
Consulting Geologist

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WELL SUMMARY

The Caza Exploration #1 State was spudded on October 7, 1988. The well was drilled without problem to a total depth of 4766' (-696') on October 11, 1988.

The #1 State was drilled in an attempt to extend J Sand oil production in Atwood Field to the east. The D1 Sand and Lower J Sands were considered secondary objectives.

The J Sand was topped at 4672' (-602'), 5' high to the lowest producer in Atwood Field, and 4' high to the direct west offset producer. Sample shows ranging from good-poor were observed in the tight upper J Sand. Lost circulation was encountered in the stratigraphic equivalent of the Atwood Field producing zone. The producing sand equivalent in the #1 State was a course grained, unconsolidated sand with high porosity and permeability. The shows were weak in this sand due to the "washing," which probably took place during circulation. Electric logs confirmed the sand to have up to 18% density porosity. The resistivity log, containing only 15 ohms, looked wet. A drillstem test of the upper portion of the porous sand recovered 912' of water, which was both filtrate and formation water. The pressures indicated good reservoir rock and a drawn down bottom hole pressure of 640#. No hydrocarbons were recovered. The lack of hydrocarbon and the presence of formation water indicated that the reservoir had been drained.

The D Sand was tight and contained no shows. The lower J Sand was porous and wet. Electric logs confirmed the samples.

The decision to plug was made in the early morning of October 12, 1988.

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WELL RESUME

OPERATOR: Caza Exploration Company
WELL NAME: #1 State
LOCATION: 660' FNL, 660' FWL (NWNW)
Section 28-T7N-R53W
Logan County, Colorado
ELEVATION: 4060' GR, 4070' KB
SPUD DATE: October 7, 1988, 1530 Hours
RIG RELEASE: October 12, 1988
DRILLING CONTRACTOR: Caza Drilling Co. - Rig #1
TOOLPUSHER: Cliff Monroe
GEOLOGIST: Michael J. Fuchs
HOLE SIZE: 12 1/4 inch to 151 feet; 7 7/8 inch to 4766 feet
CASING: 8 5/8 inch to 136 feet
DRILLING FLUID: Gel/Chem
MUD COMPANY: Drilling Fluid Services, Inc.
MUD ENGINEER: Jay Goza
MUDLOGGING: None
CORES: None
DRILL STEM TESTS: J Sand - 4679'-4690'
Recovered 120' muddy water, 792' water
SAMPLE PROGRAM: 10 Foot Samples from 3750'- TD
LOGGING PROGRAM: Dresser, DIL, SP, CNL, FDC, FDC, GR, CAL,
TOTAL DEPTH: 4775' Driller, 4766' Dresser
WELL STATUS: Plugged and Abandoned

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MUD RECORD

10-07-88 4140' 9.1 wt 39 vis 8.8 Filt

BIT RECORD

#	Make	Size	Type	Jets	Serial #	Out	Ftg	Hours
1	Hughes	12 1/4	X3A	13-13-15	RR	151'	151'	1 3/4
2	Smith	7 7/8	FDS	12-13-13	KK9486	4742'	4591'	40 1/2
3	Hughes	7 7/8	J-11	13-13-13	Rebuilt	4775'	33'	2 3/4

FORMATION TOPS

Niobrara	3778'	(+292')
Fort Hays	4104'	(- 34')
Codell	4152'	(- 82')
X Bentonite	4500'	(-430')
D Sand	4594'	(-524')
J Silt	4651'	(-581')
J Sand	4672'	(-602')
Total Depth	4766'	(-696')

All tops are E-log tops from a KB of 4690'.

DEVIATION RECORD

Depth	Drift
151'	1/2
1516'	3/4
2549'	1 1/4
3710'	1 1/8
4744'	1

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SAMPLE SHOWS

J SAND

4672' - 4682' Sandstone, fine grained, clear-grey, subangular-subrounded, well sorted, moderate-well cemented, quartz, silicious and tight in most, glauconitic in part, dark grey minerals, poor-fair visible porosity, possible black oil stain on some, good even dull yellow fluorescence on pieces with stain, good moderate streaming white cuts on same.

4682' - 4698' Sandstone as above.
Sandstone, coarse grained, clear-off white-orange (Feldspars), rounded-subrounded, moderate sorting, poorly cemented-unconsolidated, floating grains, possible clay filling in part, good porosity, no visible stain, no fluorescence, weak ring cut.

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LIBERTY TESTERS, INC.

P.O. Box 1454
Sterling, CO 80751

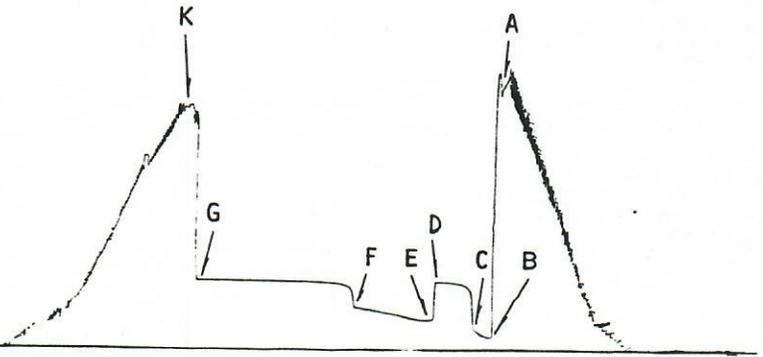
Contractor Caza Drilling Co.	Surface Choke 3/8"	Mud Type --
Rig No. 1	Bottom Choke 3/4"	Weight 9.7
Spot 660' FNL & 660' FWL	Hole Size 7 7/8"	Viscosity 86
Sec. 28	Core Hole Size --	Water Loss --
Twp. 7 N	DP Size & Wt. 4 1/2" 16.60	Filter Cake --
Rng. 53 W	Wt. Pipe None	Resistivity 3.2 @ 61 °F
Field Wildcat	I.D. of DC 2 1/4"	1,943 Ppm. NaCl
County Logan	Length of DC 583'	B.H.T. 137 °F
State Colorado	Total Depth 4767'	Co. Rep. Michael Fuchs
Elevation 4070' KB	Type Test Straddle	Tester Derrell Suter
Formation "J" Sand	Interval 4679' - 4690'	

Operator **CAZA EXPLORATION CO.**
 Ticket No. **1956**
 Date **10/10/88**
 Well Name & No. **STATE #1**
 Location **S-28 T-7N R-53W**
 County, State **LOGAN COUNTY, CO**
 Interval **4679' - 4690'**
 Formation **"J" SAND**

	REPORTED	CORRECTED	
Opened Tool @	18:15		hrs.
Flow No. 1	15	15	min.
Shut-In No. 1	30	28	min.
Flow No. 2	60	60	min.
Shut-In No. 2	120	120	min.
Flow No. 3	None Taken		min.
Shut-In No. 3	"	"	min.

Recorder Type **Kuster AK-1**
 No. **13483** Cap. **7150** psi
 Depth **4698** feet
 Inside _____ Clock _____
 Outside **X** Range **i2** hrs.

Initial Hydrostatic	A	2471.5
Final Hydrostatic	K	2294.4
Initial Flow	B	125.3
Final Initial Flow	C	199.2
Initial Shut-In	D	664.4
Second Initial Flow	E	292.4
Second Final Flow	F	402.1
Second Shut-In	G	670.8
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	



Pipe Recovery: **912' Total fluid = 7.52 bbl., consisting of:**
120' Muddy water = 1.70 bbl.
792' Water = 5.82 bbl.

Resistivity:
 Top: **4.1 @ 75°F - 2.35 @ Res Temp = 1,229 ppm NaCl., 747 ppm Cl.**
 Middle: **3.0 @ 70°F - 1.60 @ Res Temp = 1,824 ppm NaCl., 1,109 ppm Cl.**
 Bottom: **2.9 @ 65°F - 1.45 @ Res Temp = 2,029 ppm NaCl., 1,233 ppm Cl.**

1st Flow: **Tool opened with a weak blow, increased to bottom of bucket in 8 minutes with 7.5 oz and to 10.0 oz at end of flow period.**

2nd Flow: **Tool opened with a weak blow, slowly increased to bottom of bucket in 25 minutes with 7.5 oz, 9.0 oz in 30 minutes; began to decrease after 35 minutes to 7.0 oz at end of flow period.**

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DAILY REPORT

CAZA EXPLORATION COMPANY
1801 Broadway, Suite 360
Denver, Colorado 80202

WELL: #1 State

LOCATION: Section 28: NW/4 NW/4, T7N - R53W
Logan County, Colorado

CONTRACTOR: Caza Drilling Company

10/07/88 Clearing location. Expect to spud 5:00 P.M. today

10/08/88 Spudded at 15:30 10/07/88. Ran 3 jts. 8-5/8" (126') of surface casing. Set at 136' KB with 90 sx 3% CaCl. Plug down 18:30 10/7/88, excellent returns.

DEPTH: 1641'

FORMATION: Shale

OPERATION: Drilling

FOOTAGE DRILLED: 1641'

ROTATING HOURS: 9

MUD DATA: Drilling with water

BIT NUMBER: 1

SIZE: 12-1/4"

TYPE: X3A

IN: 0'

OUT: 151'

BIT NUMBER: 2

SIZE: 7-7/8"

TYPE: FDS

IN: 151'

FOOTAGE DRILLED: 1490'

HOURS: 7-1/4

SURVEYS: 1/2° @ 151'
3/4° @ 1516'

WOB 15-25,000#

DRILL COLLARS: 18

RPM: 180

PP: 900

LINERS: 5-1/2" x 14"

10/09/88

DEPTH: 4212'

FORMATION: Niobrara & Ft. Hays

OPERATION: Drilling

FOOTAGE DRILLED: 2571'

ROTATING HOURS: 21

MUD WEIGHT: 9.1

VIS: 39

WL: 8.8

FC: 1/32

PH: 9.0

SAND: .5

% SOLID: 4.8

BIT NUMBER: 2

IN: 151

FOOTAGE DRILLED: 4061'

HOURS: 28-1/4

SURVEYS: 1-1/4° @2549'
1-1/8° @3710'

WEIGHT ON BIT 30-38,000#

DRILL COLLARS: 18

RPM: 140

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10/10/88

PP: 950
LINERS: 5-1/2" x 14"

DEPTH: 4760'
OPERATION: Drilling
FORMATION: J & Shale
FOOTAGE: 548
ROTATING HOURS: 15-3/4
MUD WEIGHT: 9.7
VIS: 65
WL: 7.6
FC: 2/32
PH: 9
SAND: .7
% SOLID: 7.4
BIT NUMBER 2
IN: 151'
OUT: 4742'
FOOTAGE: 4591'
HOURS: 40-1/2
BIT NUMBER: 3
SIZE: 7-7/8"
TYPE: J-11
IN 4742'
FOOTAGE: 18
HOURS: 2-1/2
SURVEY: 1° @4742'
WEIGHT ON BIT: 30-38,000#
DRILL COLLARS: 18
RPM: 70
PP: 950
LINERS: 5-1/2"x14"

10/11/88

DEPTH: 4775'
FORMATION: J & Shale
OPERATION: LDDP
FOOTAGE DRILLED: 15'
ROTATING HOURS: 1/4
MUD WEIGHT: 9.7
VIS: 86
TYPE: J-11
IN: 4742'
OUT 4775'
FOOTAGE: 33
HOURS: 2-3/4
WEIGHT ON BIT: 35,000#
DRILL COLLARS: 18
RPM: 75
PP: 950
LINERS: 5-1/2"x14"
DST #1
Open 15 minutes - Blow
increased to bottom of bucket
in 8 minutes.
Closed 30 minutes
Open 60 minutes - Blow
increased to bottom of bucket
in 15 minutes. Increased to
9 oz. at 30 minutes. Decreased
to 7 oz. at end of 60 minute
period.
Closed 120 Minutes
PIPE RECOVERY: 120' muddy water. 792' fresh
water.
PRESSURE: IH - 2419'
IF - 93-146
ISI - 640
FF - 286-374
FSI - 640
FH - 2311

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REC:	912
NIOBRARA	3778'
"D"	4594'
"J"	4670'
LTD	4766'
DTD	4768'

PLUGGED AND ABANDONED

FINAL REPORT

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COLO. OIL & GAS CONS. CO 116