

API NO. 15-.....071-20,428.....
~~County~~.....Greeley.....
 ..NE ..NE ..NE Sec. 32 Twp 16S Rge. 41 .. East
 ..X .. West

4950 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

(Note: Locate well in section plat below)

Lease Name.....Johnson.....Well #.2.....

Field Name.....

Producing Formation.....

Elevation: Ground.....3768.....KB.....3773.....

Section Plat

[illegible]

4 WATER SUPPLY INFORMATION

If OWO: old well info as follows:

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Operator .....
Well Name .....
Comp. Date .....Old Total Depth.....
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Disposition of Produced Water: _____ Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #.....

Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West

Surface Water...100 Ft North from Southeast Corner
(Stream, pond etc)...3200 Ft West from Southeast Corner
Sec 31 Twp 16 Rge 41 ~~East~~ West

Other (explain).....
(purchased from city, R.W.D. #)

Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

SIDE TWO

Operator Name Castle Resources Lease Name Johnson Well # 2
 Sec. 32 Twp. 16S Rge. 41 ☐ East ☒ West County Greeley

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken ☒ Yes ☐ No
 Samples Sent to Geological Survey ☐ Yes ☒ No
 Cores Taken ☐ Yes ☒ No

See Drillers Log

DST # 1 3877-3905
 45-45-45-45
 TBHP 959
 FBHP 959
 FP 134-596
 680-815
 Recovery 1340' water

DST # 2 5000-5100
 30-0
 IBHP: none
 FBHP none
 FP 958-1050
 Recovery 2175' gassy water

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Topeka	3887	
Heebner	4100	
Lansing KC	4209	
Base KC	4524	
Marmaton	4612	
Ft Scott	4686	
Cherokee	4718	
Atoka	4848	
Morrow sh	5006	
Mississippi-St Louis	5204	
RTD-LTD	5470	

CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
.....Surface.....	12 1/2".....	8-5/8".....	24.....	289.....	50/50 poz	180	2% gel, 3% c.c.

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record

(Amount and Kind of Material Used) Depth

.....							
.....							
.....							
.....							

TUBING RECORD Size Set At Packer at Liner Run ☐ Yes ☐ No

Date of First Production Producing Method
☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

EMPHASIS OIL OPERATIONS

P. O. Box 506
Russell, KS 67665

32-16-41W

COPY

DRILLERS LOG

OPERATOR: Castle Resources
RR #1, Box 90
Hays, KS 67601

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Johnson

WELL #2

LOCATION: NE NE NE
Section 32-16S-41W
Greeley County, Kansas

Log Total Depth: 5470'

Rotary Total Depth: 5470'

Elevation: 3773' K.B.

Commenced: 10/16/86

Completed: 10/28/86

Casing: 8-5/8" @ 289' w/180 sks cement

Status: Dry Hole

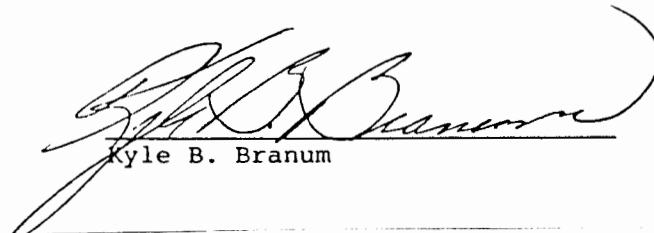
DEPTHS & FORMATIONS

(All measurements from K.B.)

Topsoil & Clay	160'	Salt	2550'
Sand	190'	Shale	2658'
Shale	1103'	Anhydrite	2715'
Sand & Shale	1650'	Shale	2740'
Lime & Shale	1850'	Shale & Lime	4012'
Redbed	1985'	Lime & Shale	4410'
Shale	2095'	Chalk	4422'
Shale & Lime	2105'	Lime (R.T.D.)	5470'

STATE OF KANSAS)
COUNTY OF RUSSELL) ss

Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum