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OCT 0 8 2014

Igloo 19 State # 2H

Well name:

Operator: Caza Operating, LLC String type: Intermediate Casing

Location: New Mexico, Lea County. API # 30-025-40604

Design parameters: Collapse		Minimum	design fact Collapse:	ors:	Environme H2S conside		No	
	10.00	~~~	DF	1 105			-	°F
Mud weight:	10.00	ppg	DF	1.125	Surface tem	perature:	75.00	۴
Design is based on evacuated pipe.					BHT		112	
					Temperatur	•	. 0.65	°F/100ft
					Minimum se	•	1,500	ft
			Burst:		Minimum Dr		8.750	in
-			DF	1.13	Cement top:		Surface	
<u>Burst</u>								
Max anticipated surface								
pressure:	2,844.08	psi						
Internal gradient:	0.12	psi/ft	Tension:		Non-directio	nal string.		
Calculated BHP	3,522.08	psi	8rd STC	1.80	(J)			
1			8rd LTC	1.80	(J)			
Annular backup:	8.00	ppg	Buttress:	1.60	(J)			
			Premium:	1.50	(J)			
			Body yield:	1.50	(B)	Re subsequ	uent strings	5:
					Next setting	depth:	11,322	ft
		Tension is	based on buo	yed weight.	Next mud w	eight:	9.200	ppg
		Neutral pt:	4,809.56	ft	Next setting	BHP:	5,411	psi
					Fracture mu	d wt:	12.000	ppg
					Fracture der	oth:	5,650	ft
					Injection pre	ssure	3,522	psi
Run Segment	Nominal		End	True Vert	Measured	Drift	Internal	
Seq Length Size	Weight	Grade	Finish	Depth	Depth	Diameter	Capacity	
(ft) (in)	(lbs/ft)			(ft)	(ft)	(in)	(ft³)	
2 3900 9.625	40.00	J-55	LT&C	3900	3900	8.75	1660.4	
1 1750 9.625	40.00	HCK-55	ST&C	5650	5650	8.75	J745	
Run Collapse Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension	
Seq Load Strength	Design	Load	Strength	Design	Load	Strength	Design	
(psi) (psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor	
2 2026 2528	1.248	2844	3950	1.39	192	520	2.70 J	
1 2935 4230	1.441	1691	3950	2.34	36	604	16.60 J	
Prepared			Phone: (432) 682 7424	Date:	October 3,2	014	
by: Richard Wri	ght		FAX: (432) 6	82 7425		Midland, Tex	xas	

Remarks:

Collapse is based on a vertical depth of 5650 ft, a mud weight of 10 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

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Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

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8001 West Industrial Avenue Midland, TX 79706 Office: 432.561.5822 Fax: 432.561.5823 www.nabors.com

Primary Cementing Proposal

Caza Petroleum

Igloo BRR State #2H

9 5/8 IN 2 STAGE INTERMEDIATE CASING

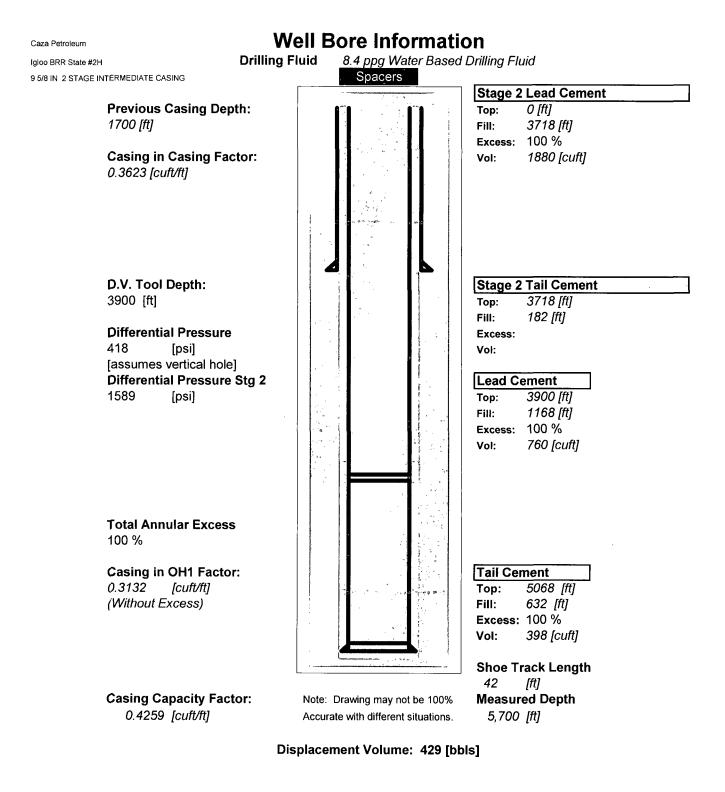
Well Location			Well Information	
			Casing Size:	9 5/8 [in]
County:	Lea		Casing Depth:	5700 [ft]
State:	NM		TVD:	5700 [ft]
			O.H. Size:	12 1/4 [in]
			O.H. Depth:	5700 <i>[ft]</i>
Water Estimates				
Spacer:	10.0	[bbls]	Pvs.Casing Size:	13 3/8 [in]
Total Mix Water:	434.3	[bbls]	Pvs. Casing Depth	1700 [ft]
Displacement:	725.0	[bbls]	BHST:	125.6 [°F]
Wash up:	30.0	[bbls]	BHCT:	108.0 [°F]
Total Water Estimate:	1199.3			
		۸h	NABORS COMPLETION & BHST: PRODUCTION SERVICES CO. BHCT:	111.2 <i>[°F]</i>
		'TP	PRODUCTION SERVICES CO. BHCT:	96 [°F]
Prepared For:	Richard Wr	ight	Prepared By:	Zach Glisson
			Phone:	432.683.5000
Date Prepared:	9/23/14		Fax:	432.683.3697
			Email:	zach.glisson@nabors.com

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NABORS COMPLETION &

WIP PRODUCTION SERVICES CO. 8001 West Industrial Avenue

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Caza Petroleum

Igloo BRR State #2H 9 5/8 IN 2 STAGE INTERMEDIATE CASING

Stage 1 System Information Mud / Cement Spacer System:

20 bbls of Fresh Water Spacer

Lead System

360 sks

35:65 POZ:High Early Compressive + 5% Salt (NaCl) (BWOW) + 6% Bentonite + 0.3% Super CR-1

Mix Weight:	12.40 [lb/gal]
Yield:	2.11 [cuft/sk]
Mix Water:	11.81 [gal/sk]

Tail System 300 sks

High Early Compressive + 0.2% Super CR-1

Mix Weight:	14.80 [lb/gal]
Yield:	1.33 [cuft/sk]
Mix Water:	6.31 [gal/sk]

429 bbls of Water

Always refigure on location!!!!

NABORS COMPLETION & PRODUCTION SERVICES CO.

8001 West Industrial Avenue Midland, TX 79706

Office: 432.561.5822 Fax: 432.561.5823 www.nabors.com

Caza Petroleum

Igloo BRR State #2H 9 5/8 IN 2 STAGE INTERMEDIATE CAS

Stage 2 System Information

Mud / Cement Spacer System:

0 bbls @ 8.34 [lb/gal]

Lead System 1000 sks

35:65 POZ:High Early Compressive + 5% Salt (NaCl) (BWOW) + 6% Bentonite + 0.1% Super CR-1

Mix Weight:	12.40 [lb/gal]
Yield:	2.07 [cuft/sk]
Mix Water:	11.46 [gal/sk]

Tail System

100 sks

High Early Compressive + 0.1% Super CR-1

Mix Weight:	14.80 [lb/gal]
Yield:	1.32 [cuft/sk]
Mix Water:	6.31 [gal/sk]

Displacement Fluid

296 bbls of Water

Always refigure on location!!!!