Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-40604
5. Indicate Type of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No. VB-1758

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

HOBBS OCD
OCT 06 2014
RECEIVED

7. Lease Name or Unit Agreement Name: Igloo 19 State
1. Type of Well: Oil Well [X] Gas Well [ ] Other
8. Well Number 2H
2. Name of Operator: Caza Operating, LLC
9. OGRID Number 249099
3. Address of Operator: 200 N. Loraine, Suite 1550, Midland, Texas 79701
10. Pool name or Wildcat: Lea; Bone Sprgs, South 37580
4. Well Location
Unit Letter A : 200 feet from the North line and 660 feet from the East line
Section 19 Township 20 S Range 35 E NMPM County Lea
11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3677 GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[X]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[ ]		
DOWNHOLE COMMINGLE	[ ]						
CLOSED-LOOP SYSTEM	[ ]						
OTHER:	[ ]			OTHER:	[ ]		

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Caza Operating, LLC respectfully request permission to change the surface Casing depth on the approved APD from 450 ft to 1800 ft. This should land the casing in the top of the Rustler formation. Attached is the casing design & cement adjustment for the changes.

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Richard L Wright TITLE Operations Manager DATE 10-6-2014

Type or print name Richard L. Wright E-mail address: rwright@cazapetro.com PHONE: 432 682 7424

For State Use Only

APPROVED BY: TITLE Petroleum Engineer DATE 10/08/14
Conditions of Approval (if any):

OCT 08 2014

Well name: **Igloo 19 State # 2H**

Operator: **Caza Operating, LLC**

String type: **Surface Casing**

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

Design parameters:

Collapse

Mud weight: 9.50 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 906.08 psi

Internal gradient: 0.12 psi/ft

Calculated BHP 1,122.08 psi

Annular backup: 8.00 ppg

Minimum design factors:

Collapse:

DF 1.125

Burst:

DF 1.10

Tension:

8 Round ST 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral pt: 1,547.14 ft

Environment:

H2S considered?	No	
Surface temperature:	75.00	°F
Bottom hole temperature:	87	°F
Temperature gradient:	0.65	°F/100ft
Minimum section length:	1,500	ft
Minimum Drift:	12.250	in
Cement top:	Surface	

Non-directional string.

Re subsequent strings:

Next setting depth:	5,650	ft
Next mud weight:	10.000	ppg
Next setting BHP:	2,935	psi
Fracture mud wt:	12.000	ppg
Fracture depth:	1,800	ft
Injection pressure	1,122	psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1800	13.375	54.50	J-55	ST&C	1800	1800	12.49	1562.3

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	888	1130	1.272	906	2730	3.01	84	514	6.10 J

Prepared Richard Wright Phone: (432) 682 7424 Date: October 3,2014

FAX: (432) 682 7425 Midland, Texas

Remarks:

Collapse is based on a vertical depth of 1800 ft, a mud weight of 9.5 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.

Burst strength is not adjusted for tension.

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

NABORS COMPLETION & PRODUCTION SERVICES CO.
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

13 3/8 IN SURFACE CASING

Well Location

County: *Lea*
State: *NM*

Well Information

Casing Size:	*13 3/8 [in]*
Casing Depth:	*1700 [ft]*
TVD:	1700 *[ft]*
O.H. Size:	*17 1/2 [in]*
O.H. Depth:	1700 *[ft]*

Water Estimates

Spacer:	*10.0 [bbls]*
Total Mix Water:	*295.3 [bbls]*
Displacement:	*256.2 [bbls]*
Wash up:	*30.0 [bbls]*
Total Water Estimate:	*591.5 [bbls]*

BHST:	*93.6 [°F]*
BHCT:	*83.0 [°F]*

NABORS COMPLETION & PRODUCTION SERVICES CO.

Prepared For: *Richard Wright*

Date Prepared: *9/23/14*

Prepared By: *Zach Glisson*
Phone: *432.683.5000*
Fax: *432.683.3697*
Email: zach.glisson@nabors.com

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Caza Petroleum

Igloo BRR State #2H

13 3/8 IN SURFACE CASING

Well Bore Information

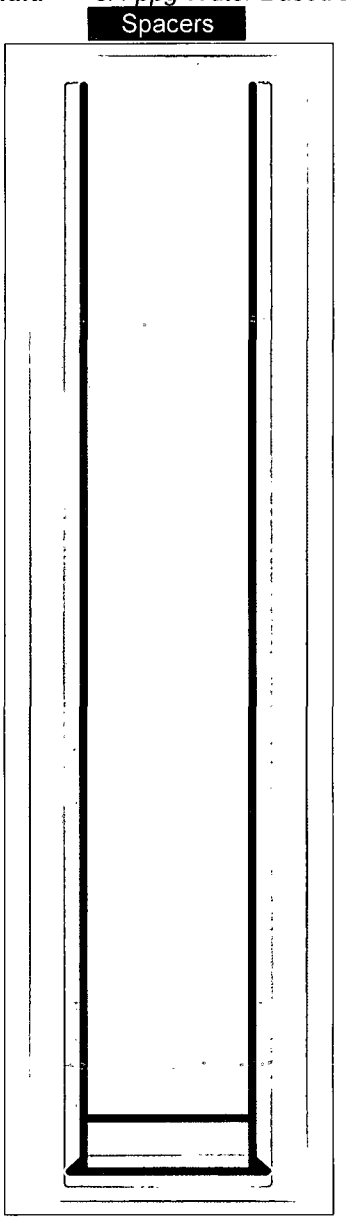
Drilling Fluid *8.4 ppg Water Based Drilling Fluid*

Differential Pressure
460 [psi]
[assumes vertical hole]

Total Annular Excess
100 %

Casing in OH1 Factor:
0.6946 [cuft/ft]
(Without Excess)

Casing Capacity Factor:
0.8676 [cuft/ft]



Note: Drawing may not be 100% Accurate with different situations.

Lead Cement
Top: *Cement to Surface*
Fill: *1438 [ft]*
Excess: 100 %
Vol: *2000 [cuft]*

Tail Cement
Top: *1438 [ft]*
Fill: *262 [ft]*
Excess: 100 %
Vol: *403 [cuft]*

Shoe Track Length
42 [ft]

Measured Depth
1,700 [ft]

Displacement Volume: 256 [bbls]

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Caza Petroleum

Igloo BRR State #2H

13 3/8 IN SURFACE CASING

Mud / Cement Spacer System:

20 bbls of Fresh Water Spacer

Lead System

1150 sks

High Early Compressive + 4% Bentonite + 2% Calcium Chloride

Mix Weight:	13.50 [lb/gal]
Yield:	1.74 [cuft/sk]
Mix Water:	9.13 [gal/sk]

Tail System

300 sks

High Early Compressive + 2% Calcium Chloride

Mix Weight:	14.80 [lb/gal]
Yield:	1.34 [cuft/sk]
Mix Water:	6.33 [gal/sk]

256 bbls of Water

Always refigure on location!!!!