



ENERGY SERVICES LLC

DESIGN - EXECUTE - EVALUATE - REPORT

PRODUCTION

CAZA

IGLOO 19 24 ST FED COM 14H

LEA County, NM

PRIMARY PUMP: SECONDARY PUMP:

2032

2035

Prepared By: Daniel Moreno

SERVICE SUPERVISOR
ARTESIA DISTRICT
1-575-748-8610

4/8/2020



ENERGY SERVICES LLC

Par Five Energy Services, LLC

ART20-11250-01B

11279 Lovington Hwy Artesia, NM Phone(575)748-8610 Fax: (575) 748-8625

Customer: Caza Operating

MD: 18060

Report Date:

March 21 2020

Well Name: Igloo 19 24 State Fed Com 14H

TVD: 9686

Stage:

Lead

County: Lea

BHST: 157

String:

Production

Rig: Nabors M51

State: NM

Blend Type:

Plant Blend

Salesman: Kurt Crowe

BHCT: 113

Reported By: Demitri, Valenzuela

Slurry Information

Density: 11.00 ppg

Yield: 3.39 cuft/sk

Mix Fluid: 20.129 gal/sk

Slurry Composition

Cement Bl	end:	50/50	PliteH		
Additive PF-044	Concent 5.000	-	Design BWOW	Description Salt	Lot Number M9CA14
PF-020	12.00%	%	BWOB	Bentonite Gel	Bulk
PF-153	0.40%	%	BWOB	Anti Settling Agent	DR119814991
PF-013	0.30%	%	BWOB	Retarder	MM10K-125399
PF-079	0.80%	%	BWOB	chemical Extender / Suspension Aid	44290310A
PF-062	5.000	lb/sk	BWOB	Extender	
PF-029	0.125	lb/sk	BWOB	Cellophane	
PF-042	3.000	lb/sk	BWOB	KOLSEAL	BulK
PF-045	0.400	lb/sk	BWOB	Defoamer	CJ20190814

		Rheolo	ogy (Ave	rage Rea	idings)		
Temp	3	6	100	200	300	PV	YP
80 °F	2	2	10	17	23	19.5	3.5
157 °F	2.5	3	8	11.5	15	10.5	4.5

		Free Fluid		
Temp	Incl.	ml Collected	Start Time	Stop Time
157 °F	45	0 ml/250	12:55	2:55

		Т	hickening	Time		
Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
157 °F		1		7:00		0

Thickening Time does not include batch time.

Comments



Par Five Energy Services, LLC

ART20-11250-02B

11279 Lovington Hwy Artesia, NM

Phone(575)748-8610 Fax: (575) 748-8625

Customer: Caza Operating

MD: 18060

March 21 2020 Report Date:

Well Name: Igloo 19 24 State Fed Com 14H

TVD: 9686

Tail Stage:

String:

Production

County: Lea

State: NM

BHST: 157 BHCT: 113

Blend Type:

Plant Blend

Rig: Nabors M51 Salesman: Kurt Crowe

Reported By: Demitri, Valenzuela

Slurry Information

Density: 14.20 ppg

Yield: 1.34 cuft/sk

Mix Fluid: 6.092 gal/sk

Slurry Composition

50/50PozH

Cement Blend: Additive Concentration 5.000 % PF-044 2.00% % PF-020

Design Description **BWOW** Salt **BWOB** Bentonite Gel

Lot Number M9CA14 Bulk

BWOB 0.40% % PF-017

Fluid Loss Retarder

MM10K-125399

0.15% % PF-013 0.10% PF-153

Anti Settling Agent

DR119814991

PF-045

BWOB BWOB Defoamer 0.400 lb/sk

BWOB

CJ20190814

			Rheolo	ogy (Ave	rage Rea	adings)		
Te	mp	3	6	100	200	300	PV	YP
80	°F	12.5	17.5	69.5	118	158	132.75	25.25

Temp	3	6	100	200	300	PV	1F
						132.75	
157 °F	16.5	22.5	95	147.5	191	144	47

		т	hickening	Time		
Temp	POD	30 Bc	50 Bc	70 Bc	100 Bc	Batch Time
157 °F	3:08	3:14	3:30	3:37		0
		Thickening	Time doe	s not incl	ude batch	time.

		Free Fluid		
Temp	Incl.	ml Collected	Start Time	Stop Time
157 °F	0	0 ml/250	12:55	2:55

WELL SUMMARY

	PA	IT	P			E	
	ENER	GY 5	ERV	ICE5	LLE		
COMPANY NAME:	CAZA		DATE:	4/8/2020			
LEASE NAME:	IGLOO 19 24 ST FED (COM	OPERATO	R NAME:			
WELL NUMBER:	14H		TICKET N	UMBER:	10760		
API NUMBER:	30-025-46412		AFE NUM	IBER:			
SECTION: 19		TOWNSHI	P:	20S		RANGE:	35E
COUNTY: LEA			STATE:	NM		1	
RIG NAME: NABORS	M51	COMPANY	REP:			PHONE#:	

DIRECTIONS

Take 82 east to 360, turn right on 360 and go to 62-180, turn left on 62-180 and go to Marathon road, turn right on Marathon and go 5.5 miles, turn left go 1.5 miles to location. Nabors M51

NOTES

UPDATED BY DANIEL A. 02/27/20

HSE

WEAR PROPER PPE

JOB PROCEDURE

TEST LINES

PUMP 60 BBLS CHEMICAL WASH PUMP 10BBLS FW

PUMP 950 SKS OF LEAD @ 11.0 PUMP 1580SKS OF TAIL @ 14.2 SHUT DOWN

BUMP PLUG DISPLACE WELL

WELL SUMMARY



ENERGY SERVICES LLC

	ENERG	iy ser	(VILES	LLL	
		WELL/CAS	SING DATA		
JOB TYPE:	PRODUCTION	l HOL	E SIZE:	8 3/4	
	0636	PRE	VIOUS CASING SIZ	ZE: 9 5/8	
PREVIOUS CASING LB/F	T: 40	PRE	VIOUS CASING DE	PTH: 5287	
	5 1/2				
CASING LB/FT: 2	20	CAS	ING GRADE:		HCP110
FLOAT COLLAR DEPTH: 1	18058.51		E JOINT LENGTH:		6.49
DV TOOL DEPTH:		SEC	OND DV TOOL DE	PTH:	
	18080	тот	AL CASING :	18065	
		TUBULA	AR DATA		
TBG/D.P. SIZE:		TBG	/D.P. DEPTH:		
TBG/D.P. LB/FT:		TOC	OL DEPTH:		
PACKER OR RETAINER:		PER	F/HOLE DEPTH:		
			QUIPMENT		
CEMENT HEAD SIZE:	5 1/2	QUI	CK CONNECT SIZE	: 5 1/2	
DRILL PIN SIZE/TYPE:			READ:	BUTRESS	
TUBING SWEDGE SIZE:		TAK	E 2 -2 INCH REGU	ILAR TUBING SWEDG	ES
		CHEMICA	LS NEEDED		

600LBS SUGAR, 600LBS SAPP, 15GALS PLEXAID 803

					QUIPMENT				
SUPERVISO	R 1:	Daniel Mor	eno	TOTAL TRANSPORT OF THE PARTY OF	FIELD REPRESENTATIVE:				
SUPERVISO					SAFETY REP	RESENTAT	IVE:		
PUMP OPEI	RATOR:	Ioshua Cas	illas		UNIT NUME	BER:	1032-2032		
E/O:		Johnny Cas			UNIT NUM	BER:	1036-2035		
E/O:		saac Hobb			UNIT NUM	BER:	1012-2003		
E/O:		Dustin Cod	dington		UNIT NUMI	BER:	1034-2062		
E/O:		Emir Omer	ivic		UNIT NUMI	BER:	1004-2063		
E/O:					UNIT NUM	BER:			
FB #1:					FB #3:				
FB #2:					FB #4:			20.00	
, , , , , , , , , , , , , , , , , , , ,					LUID DATA				
1CT CL	LIDDY.	50/50 PLite/I	H+5%PF44(BW	/OW)(Salt)+12	%PF20(Bentor	ite Gel)+0.49	6PF153(Anti		
1ST SLURRY: Settling)+0.6%PF13(Retarder)+0.8%PF		MIX H20:	20.147	SACKS:		950			
DENSITY:	11	50/50 Poz/H	+5%PF44(BW(OW)(Salt)+2%	PF20(Bentonite	Gel)+0.4%P	F17(Fluid		
2ND SI	LURRY:	Loss)++0.2%	PF13(Retarde	r)+0.2%PF153	(Anti Settling)+	0.4#/skPF45(Defoamer)	1580	
DENSITY:	14.2	YIELD:	1.33	MIX H2O:	6.062	SACKS:		1580	
3RD SI	LURRY:						т —		
DENSITY:		YIELD:		MIX H2O:		SACKS:			
4TH SI	LURRY:								
DENSITY:		YIELD:		MIX H2O:		SACKS:			
5TH S	LURRY								
DENSITY:		YIELD:		MIX H2O:		SACKS:			,
	LURRY								
DENSITY:		YIELD:		MIX H2O:		SACKS:	 	MUD MEICHT.	9.6
1st DISPLAC	EMENT TYPE :	SUGAI	RWATER		LACEMENT		20	MUD WEIGHT:	9.0
	CEMENT TYPE :		CL		PLACEMENT		379		+-
	CEMENT TYPE			3rd DISF	LACEMENT	VOLUME:			



DATE: 4/8/2020

COMPANY NAME:	: CAZA			DATE: 4/8/2020
EASE NAME:		24 ST FED	COM	TICKET NUMBER: 10760
WELL NUMBER:	14H			JOB TYPE: PRODUCTION
SCHEDULED LOCA	TION TIME:		11:30	DATE LEFT LOCATION: 4/9/2020
TIME ARRIVED ON LOCATION: 10:30			10:30	TIME LEFT LOCATION: 1:30
	RESSURE	VOLUME	RATE	LOG DETAILS
TBG O				
D.P				PRE-CONVOY MEETING
8:45				DEPARTURE FROM YARD
9:00				ARRIVE LOCATION
10:30				HAZZARD ASSESMENT
10:35				PRE-RIG UP MEETING
10:40				
10:45				RIG UP EQUIPMENT
14:00				PRE JOB SAFETY MEETING
14:12	210	2	2	PRIME LINES
14:14	4900			TEST LINES
14:16	500	60	5.5	CHEMICAL WASH
14:42				PUMPED 300 SKS OF LEAD AND PRIMARY PUMP WENT DOWN
				SWITCHED TO BACK UP PUMP AND COULD NOT GET IT
				GOING RIGHT. AT 15:30 THE DECISION WAS MADE TO
				ROLL THE HOLE AND GET SOME MORE PUMPS TO LOCATION.
				PRE JOB SAFETY MEETING
19:45				PRIME LINES
20:00	200		2	TEST LINES
20:01	6000	-		CHEMICAL WASH
20:03	686		7	LEAD
20:11	700		7	
21:38	744	377	7.5	SHUTDOWN
22:38				WASH UP
22:41				DROP PLUG
22:45				DICEL A CENTENT
22:46	657		8	OLOM DATE
23:38	2317		3	BUMP PLUG
23:40	3340			CHECK FLOATS BLED BACK 4 BBLS
23:44	3411	L		CIRCULATED 239 BBLS/ 395 SKS OF CEMENT TO SURFACE
				RIG DOWN SAFETY MEETING
23:55				RIG DOWN SAFETT MEETING RIG DOWN EQUIPMENT
0:01				NIG DOWN EQUITATENT
		-	+	