STATE	OF WYOMING		12. API No.:	49-025-23608		
10(1114	SERVATION COMM	ISSION	13. County:	Niobrara		
	Oil and Gas Supervisor			State - Instructions on the reverse.		
	D. Box 2640	•		on Change Provide Form 1A.		
	Wyoming 82602			w 158578		
•	•		6. Unit Agreement or CA:			
SUNDRY NOTICES	AND REPORTS ON W	ÆLLS	7. Farm or Lease Name:	Mad Hatter Fed.		
(Do not use this form for proposals to drill, or de	epen. Form 1 is provided for such propo	osals.)	8. Well No.:	19-2		
ı. Type Well:			9. Reservoir:	Mowry		
			10. Field Name:	WC		
x Oil Gas CBM Dry Hole	Injection Oth	her	11. Quarter- Quarter, Sect	ion, Township and Range:		
2 Operator: Strachan Exploration, Inc.			SW SE 19	38N 77 <u>W</u>		
3. Address: 383 Inverness Parkwat Ste 360	Englewood	, Co. 80112	14. Elevation: 5376	GL		
4. Phone Number (w/ area code): 303-785	-7006 Email: b	ill@strachanexploration.com	16. Latitude:	43.24498		
15. Footages: 1170FSL 1	350'FEL		17. Longitude;			
BHL: 1175FSL	641FEL	- CTATOMYON DANG		106.13801		
18. CHECK APPROPRIATE BOXES TO IN	DICATE THE NATUR			1A		
Type of Submission:		Type of Act		* **/ 11		
X Notice of Intent	Change Plans	x Fracture Treat/ En	-	nir Well		
Subsequent Report	Convert to injection	Plug and Abando	nShut	-in		
Change of Address. List Old & New Below.	Oormant	Perforate	Start	/ Resume Production		
Split Estate? Yes No	ocation or Site Change	Recomplete/ Plug	gback Tem	porarily Abandoned		
	vocation of one onlinge	Reclaim	Wate	er Shut-Off		
or Fed Lease owner change file Form IA.	ederal Lease Owner Change	Rename	Othe	er		
19. Describe the proposed or completed operations: Clearly state all pertinen	dates and details, including estimate					
Form 3 is required following completion and recompletion procedures. Attac	h additional sheets if necessary, refere	encing API No., Well Name and Leg	al Location.			
5-1/2" 17# J55 casing at 6784'. TOC from CBL 4	440'					
Mowry Shale Perforated 6435-6445 and 6472-64	88 with 3 SPF.					
2-7/8" tubing with packer set at 6422'						
Attached: Formation Details, Frac Proposal, Flo	wback, and Chemical D	ata				
* Form 1a previously submitted						
Total to provide distribution						
		·				
20. I hereby certify that the foregoing as to any work or opera	tion performed is a true and c	correct report of such work or	operations			
Name (Printed or Typed): C. V	Villiam Claxton	Title: Eng	ineer			
Tvaile (Finited of Typed).	- Intain Claxion	Tide. Ling	incer	-		
21. Signature: C. W. Laco CQ	art	Date: 5-0				
(The space below is for State office use)		Conditi	ions of approval, if any			
Approval Date:						
Approved By:						
State Oil and Gas Supervisor						
Approvals sent: OCT 0 6 2010	Approvals sent: OCT 0 6 2010					

WOGCC APPROVAL

STRACHAN EXPLORATION, INC.

383 INVERNESS PARKWAY SUITE 360 ENGLEWOOD, COLORADO 80112 (303) 785-7006 • FAX (303) 785-7012

October 5, 2010

Wyoming Oil & Gas Commission P.O. Box 2640 Casper, Wyoming 82602

Re: Mad hatter Federal # 19-2 Lease # WYW 158578 API# 49-025-23608 Natrona County, Wyoming

Gentlemen:

Attached please find our Sundry Notice of Intent to conduct a fracture treatment on the captioned well. Also attached is Halliburtons proposal and other data for approval.

Strachan Exploration, Inc., has the opportunity to perform this stimulation on October 7, 2010, if approval is granted. With the extremely busy schedule of frac crews, another opportunity could be several weeks to several months away.

If additional information is required, please notify this office.

C. W. Olean Clarkon

C William Clarton

Strachan Exploration, Inc. Fracture Treatment Mad hatter Federal # 19-2

Formation: Mowry Top 6388' MD 6339' TVD

Base 6629'MD 6578' TVD

Description: 80% shale Sil/calc cmt- Bent 15%

Tr mica & pyr

Perf: 6435-6445 & 6472-6488 total 78 .41" holes

Broke down with 200 bbl 5% Kcl water @2658 PSI and 5.7 BPM

Flow and swab load water and 10 bbl oil

Calculated Frac Gradient 0.57 psi/ft

Water for frac job will come from either Douglas or Wright city water Supply

FRAC DETAILS: Halliburton proposal attached

FLOW BACK and TEST; Flow back and swab will be into tanks on location.

Recovered water will be hauled to Linch Environmental

Disposal or other approved disposal sites.

FRAC CHEMICALS:

Trade Name	Product Use	Loading	Chemical Des.	CAS#
MO 67	additive P	.5-1.5 gpt	Sodium Hydroxide	1310-73-2
LGC-36 UC	Liquid Gel C	4-5 gpt N	aptha,hydrotreated heavy Polysaccharide	/ 64742-48-9 *
CLA-STA XP	Clay Stabilize	r 5 gpt	Polyepichlorohydrin Trimethyl,amine quater	ē .
FR-66	Friction Reduce	er .5 gpt	hydrotreated light petro	. Dist. 6472-47-8
GBW-30 Breal	ker Breaker	1-3 gpt	Hemicellulase enzyme Carbohydrates	9012-54-8

Trade Name	Product Use	loading	Chemical Description	CAS#
SP Breaker	Breaker	1-3 gpt	Sodium persulfate	7775-27-1
LO Surf-300E	Surfactant]	Ethanol Heavy aromatic pet. Naptha Napthalene 1,2,4 Trimethylbenzene Poly(oxy-1,2ethanediyl),apthanonylphenyl)-omega-hydroxy- Branched	64-17-5 64742-94-5 91-20-3 95-63-6 127087-87-0
BE-7	Biocide	.3 gpt	Sodium hypochlorite Sodium hydroxide	7681-52-9 1310-73-2
CL-31 crosslinker	crosslinker		Potassium metaborate Potassium hydroxide	13709-94-9 1310-58-3
CL-22 UC	crosslinker	.4-1.0 gp	t Potassium formate	590-29-4

^{*} Halliburton has applied for a confidentiality status

PROPPANT 20/40 mesh premium white sand- 60,000 # 100 mesh common white SSA-2 6,000#

FRAC LENGTH: Not much data on fracture treating the Mowry formation. Halliburton estimates a 300-400' half length.

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Strachan Exploration Inc 383 Inverness Dr S Ste 360 Englewood, Colorado 80112

Mad Hatter Fed 19-2

Natrona County, Wyoming United States of America S:19 T:38N R:77W API/UWI 49-025-23608-0000

Mad Hatter Fed 19-2 Mowry Frac

Prepared for:

Mr. Bill Claxton

September 28, 2010

Version: 1

Submitted by: Jared Fenton Halliburton 1125 17th Street #1900 Denver, Colorado 80202 303,249,7704



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Halliburton appreciates the opportunity to present this proposal and looks forward to being of service to you.

Foreword

Enclosed is our recommended procedure for treating the referenced zone(s) in the referenced well. The information in this proposal includes well data, calculations, materials requirements, and cost estimates. This proposal is based on information from our field personnel and previous stimulation services in the area.

Halliburton Energy Services recognizes the importance of meeting society's needs for health, safety, and protection of the environment. It is our intention to proactively work with employees, customers, the public, governments, and others to use natural resources in an environmentally sound manner while protecting the health, safety, and environmental processes while supplying high quality products and services to our customers.

We appreciate the opportunity to present this proposal for your consideration and we look forward to being of service to you. Our Services for your well will be coordinated through the Service Center listed below. If you require any additional information or additional designs, please feel free to contact me or one of our representatives listed below.

<u>Chemical Additives</u>: Actual chemical additive concentrations will be based on lab testing completed prior to job and may vary from the amounts recommended in this proposal.

<u>Prime-Up Chemicals</u>: Chemicals used on location for stimulation treatments will be charged based on the beginning and ending chemical straps. This volume will include materials used for priming pumps and for accuracy verification, e.g. bucket testing. Chemicals that are used when utilizing 'System Pricing' will be included in the System Pricing volume.

<u>Hydrocarbon Based Fluids:</u> On all jobs using a diesel or crude oil base fluid, fire suppression equipment is required on location. The cost and coordination of this equipment is the responsibility of the customer.

Prepared and Submitted by:		
,	Jared Fenton	
	Technical Advisor	

SERVICE CENTER: Casper, WY
SERVICE COORDINATOR: Jay Watson / Curtis Cheetham
OPER. ENGINEER: Ross Jones
PHONE NUMBER: 307,473,8200

Job Fluids Summary

Mowry Frac

FR-66 Water					
Volume	Base Fluid	Biocide	Surfactant	Breaker	
20250 (Gal)	5% KCL Water*	BE-7	Losurf-300D	SP Breaker	
Totals	20250 (Gal)	6.08 (Gal)	20.25 (Gal)	20.25 (lbm)	

Hybor G - R (15)					
Volume	Base Fluid	Biocide	Surfactant	Breaker	Breaker
31000 (Gal)	5% KCL Water*	BE-7	Losurf-300D	SP Breaker	GBW-30
Totals	31000 (Gal)	9.3 (Gal)	31 (Gal)	31 (lbm)	31 (lbm)

JOB TOTALS					
Volume (Gal)	Base Fluid (Gal)	Biocide (Gal)	Surfactant (Gai)	Breaker (lbm)	Breaker (lbm)
	5% KCL Water*	BE-7	Losurf-300D	SP Breaker	GBW-30
	51250	15.38	51.25	51.25	31

	Proppant	
	Designed Qty	Requested
Premium White-20/40	60000 (lbm)	60000 (lbm)
Common White-100 Mesh, SSA-2	6000 (lbm)	6000 (lbm)

. 296	Customer S	upplied Items *	
	Designed Qty	Tank Bottom	Requested w/ Tank Bottom
5% KCL Water	51250 Gal	0 Gal	51250 Gal

Treatment 1

Mowry Frac

Well Name	Mad Hatter Fed	FR-66 Water	20250 Gal
Job Name	Mowry Frac	Hybor G - R (15)	31000 Gal
Mid Perf Depth	6405 ft	Common White-100 Mesh, SSA-2	6000 lbm
Estimated Pump Time BHST	0.86 hrs 145 degF	Premium White-20/40	60000 lbm

			Ca	sing (Surfac	e)			
Trt-Stage	Stage Desc.	Flow Path	Fluid Desc.	Rate- Lig+Prop	Clean Vol.	Proppant	Proppant Conc.	Prop. Mass
1-1	Pad	IN	FR-66 Water	25	5000		0	0
1-2	Pad	IN	FR-66 Water	25	4000	Common White-100 Mesh, SSA-2	0.5	2000
1-3	Pad	IN	FR-66 Water	25	1000	0 1 -	0	0
1-4	Pad	IN	FR-66 Water	25	4000	Common White-100 Mesh, SSA-2	1	4000
1-5	Pad	IN	Hybor G - R (15)	25	1000		0	0
1-6	Proppant Laden Fluid	IN	Hybor G - R (15)	25	10000	Premium White-20/40	1	10000
1-7	Proppant Laden Fluid	IN	Hybor G - R (15)	25	10000	Premium White-20/40	2	20000
1-8	Proppant Laden Fluid	IN	Hybor G - R (15)	25	10000	Premium White-20/40	3	30000
1-9	Flush	IN	FR-66 Water	25	6250		0	0
Totals				200	51250			66000

Fluid Details - Treatment 1

Mowry Frac

FR-66 Water					
Volume (Gal)	Base Fluid	Biocide (gal/Mgal)	Surfactant (gal/Mgal)	Breaker (lbm/Mgal)	
	5% KCL Water *	BE-7	Losurf-300D	SP Breaker	
20250	0 - 20250	0.3	1	1	

Hybor G - R (15)										
Volume (Gal)	Base Fluid	Biocide (gal/Mgal)	Surfactant (gal/Mgal)	Breaker (lbm/Mgal)	Breaker (lbm/Mgal)					
	5% KCL Water *	BE-7	Losurf-300D	SP Breaker	GBW-30					
31000	0 - 31000	0.3	1	1	1					

^{*} Customer Supplied

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Cost Estimate

Mowry Frac

SAP Quote # 0

Mtrl Nbr	Description	Qty	U/M	Unit Price	Gross Amt	Discount	<u>Net Amt</u>
342341	PE BOM-GELLED WATER FRAC - CONVENTIONAL	1	JOB		0.00	0.00	0.00
	Fracturing Services and Equipment						
224400	MOBILIZATION CHGS FRAC SOL SVC CH	45	MI	247.00	11,115.00	4,334.85	6,780.15
	BARRELS/CUBIC METRES (BBL/CUM)	BBL					
	RATE PER BBL\CUM	25					
	PRESSURE UNITS (PSI/MPA/BAR)	PSI					
	PRESSURE	5000					
224401	FRACTURING -SOLUTION SERVICE CHARG	1	JOB	119,323.00	119,323.00	46,535.97	72,787.03
	BARRELS/CUBIC METRES (BBL/CUM)	BBL					
	RATE PER BBL\CUM	25					
	PRESSURE UNITS (PSI/MPA/BAR)	PSI	- 1				
	PRESSURE	5000					
224402	ADDTL HRS ON LOC FRACTURING SOL SVC CHG	0	н	9,794.00	0.00	0.00	0.00
	BARRELS/CUBIC METRES (BBL/CUM)	BBL	1				
	RATE PER BBL\CUM	25					
	PRESSURE UNITS (PSI/MPA/BAR)	PSI					
	PRESSURE	5000					
373061	PE DOT Vehicle Charge	14	EA	241.00	3,374.00	0.00	3,374.00
369282	PE Iron Certification, each	1	EA	100.00	100.00	0.00	100.00
21711	PE Environmental Charge	1	JOB	254.00	254.00	0.00	254.00
	SubTotal		USD		134,166.00	50,870.82	83,295.18
	Materials						
467131	FR-66 WATER	20250	GAL	67.80	1,372.95	961.07	411.88
341788	HYBOR G R	31000	GAL		53,413.00	37,389.10	16,023.90
	VIS	15					
101649552	BE-7	16	GAL	25.83	413.28	289.30	123.98
101783480	LOSURF-300D	52	GAL	113.64	5,909.28	4,136.50	1,772.78
100012754	SP BREAKER - 55#	52	LB	39.20	2,038.40	1,426.88	611.52
101237068	GBW-30	31	LB	73.74	2,285.94	1,600.16	685.78
100003676	SAND-COMMON WHITE-100 MESH, SSA-2	60	SK	67.72	4,063.20	2,844.24	1,218.96
100003678	SAND-PREMIUM WHITE-20/40	600	SK	43.83	26,298.00	18,408.60	7,889.40
216319	Proppant Handl & Stor. Soll Chg Per lb	66000	LB	0.09	5,940.00	4,158.00	1,782.00
216318	Proppant Del Sol Chg, per ton mile	1485	TNM	4.05	6,014.25	4,209.98	1,804.27
	SubTotal		USD		107,748.30	75,423.83	32,324.47
	Total	USD			_		241,914.30
	Discount	USD					126,294.65
	Discounted Total	USD					115,619.65

Primary Plant: Secondary Plant:

Casper, WY, USA Casper, WY, USA

Price Book Ref: 01 Western US

Price Date:

1/15/2010

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Conditions

NOTE

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at:

http://www.halliburton.com/terms for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.