

Mack Energy

Fracture Recommendation

Cockburn A State #5

Abo Single Stage

32-T17S-R33E Corbin Abo

Lea County, NM

API 30-025-25286

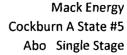
8/8/2012

Prepared for: Lee Livingston

leel@mec.com 575-748-1288

Oil Conservation Commission
Case No.
Exhibit No.

Elite Well Services Confidential







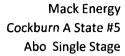
Thank you for the opportunity to provide this proposal for your consideration. If you have any questions or require further information, please feel free to contact us any time. Elite Services appreciates the opportunity to provide this information and we look forward to being of service to you in the future.

		Contact Inform	nation.	
A THE ALL AND	Salesman Salesman	Operations Manager	Preparer	#-t.\-\Service \\
Phone Cell	Mike Brown 575-513-9607	Orlando Sedillôs 575-513-8940	JJ McGlasson : 575-513-9621	Artesia NM
(† Fax. Email	mikebrown**	orlandosedillos***	j**	

**@elitewells.com

The estimated cost is for materials and/or services outlined within. The price in this analysis are based on Elite Well Serices current prices and are effective for 30 days from the date of this analysis. Prices will be reviewed if the work is awarded after 30 days of this written analysis. The projected equipment, personnel, and material needs are estimates based on the information presently available to us. At the time the work is actually performed, conditions may require an increse or decrease in the equipment, personnel, and/or material required. Charges will be based upon prices in effect at the time the work is preformed and the amount of equipment, personnal, and/or material actually used. Taxes, if any, are not included but will be added to the actual invoice.

Notes:







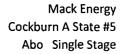
	Sum	mary (jea	dh stage)		
Stage Treat Via	Max Anticipated Rate (bbls/min) 80-	Estimated STP:(psi) 4748	Total Clean Volums (bbls) 33418	Total Proppant (Ibs) 246,700	Pumping Time (hr:min:ss) 30:42:53



...Tréatment Totals

	Treatmen	ıt Jotals 💮 💎	
Fluid Type	Fluid Volume	Proppant Type	Proppant Völume:
25# Borate	2,948 bbls	20/40 White	215,500 lbs
25# Linear Gel	200/bbls	20/40 SB Excell	31,200 lbs
Fresh Water	4 bbls		
Total Pump Time	0.42.53	Total Proppant	246,700 lbs
	(hr:min:ss)		

Rese	ervoir Data::»:	The state of the s
Pump Via Casing	Formation	Abo
Frac Gradient (avg) 0170 psi/ft Surface Temp (F) 75 F	BHEP-avg (psi)	(6,145)
Reservoir Temp (F) 136 F		
Packer Depth N/A		

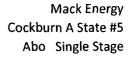






		Casing		
TopMD	BottomMD	OD.	.Weight/Grd	(TID
0.	9000	5 1/2	17/N-80	4.892 %

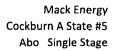
	P	eris	
Stage Top MD 8 644		op TVD: Bottom TVD 8,644 : 8,914 +	





Fluid Specifications

25# Borate		123,800 gal
Additives per 1000 Gallons:		
Plex Gel 907-LE	6.25 (gal/mgal)	773.8 gal
Piexbor 101	1.00 (gal/mgal)	123.8 gal
Claymax	1.00 (gal/mgal)	123.8 gal
Plexbreak 150	0.50 (gal/mgal)	61.9 gal
Plexsurf 240 E	1.00 (gal/mgal)	123.8 gal
Plexgel Breaker 10L	1.00 (gal/mgal)	123.8 gal
Ammonium Persulfate	1.00 (lb/mgal)	123.8 lb
Plexset 730	5.00 (gal/mgal)	70.0 gal
Biocide-AMA 398	0.15 (lb/mgal)	18.6 lb
25# Linear Gel		8,381 gal
Additives per 1000 Gallons:		
Plex Gel 907-LE	6.25 (gal/mgal)	52.4 gal
Claymax	1.00 (gal/mgal)	8.4 gal
Plexbreak 150	0.50 (gal/mgal)	4.2 gal
Plexsurf 240 E	1.00 (gal/mgal)	8.4 gal
Ammonium Persulfate	0.50 (lb/mgal)	4.2 lb
Biocide-AMA 398	0.15 (lb/mgal)	1.3 lb
Fresh Water		165 gal
Additives per 1000 Gallons:		700 Bui
Additives per 1000 Gallons.		
Plexsurf 240 E	1.00 (gal/mgal)	0.2 gal
Biocide-AMA 398	0.15 (lb/mgal)	0.0 lb

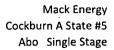




Pump Schedule

Stage 1

				ti.	reatmen	t Schedule					
Stg			Clean	Clean Vol	Slurry > Rate		Cum. Prop	Conc	∵Stg - Time	Cum.	* Time Remaning
.#₽	Fluid Type	Description	(bbls)	(gals)	(bpm)	Proppant	(lbs)	(lb/gal)	(mins):	(mins)	(mins)
1 2	Fresh Water 25# Borate	Scale Inhibitor	35.7.47	165 1,500	20 80 €				* 0.20 \$ 0.45	0.20 0.64	42.68 42.23
3	25# Borate	Pad	476.2	20,000	80	20/40 White	1,500	0.25	5.95 1.81	6.60 8.40	36.28 34.47
5	25# Borate 25# Borate	Prop Prop	142.9 214.3	6,000 9,000		20/40 White	6,000	0.50	2.74) 11.14	31.74
. 6 7	25# Borate: // 25# Borate	Prop Prop	226.2 238.1	9,500 10,000	80 80	20/40 White 557 20/40 White 557	15,500 30,500	1.00 1.50	2.96 3.18	14.10 17.27	28.78 25.60
. 8	25# Borate	Prop 🔩	250.0	10,500	80	20/40 White	51,500	2.00	3.41	20.68	22.19
10	25# Borate	Prop.	261.9 273.8	11,500	: ≀80 : ≀80	20/40 White	113,500	3.00	3.89	28.22	18.55 14.66
11 215	25# Borate	Prop	285.7 3571	12,000	80/	20/40 White	155,500 215,500	3.50 4.00	4.14 5.27	32:35 37.63	10.52 5.25
13	/ 25# Borate * ⊹	RC Prop	185.7	7,800	80	20/40 SB Excell	246,700	4.00	2.75	. 40.38	2.49
9	25# Borate 25# Borate 25# Borate 25# Borate 25# Borate 25# Borate	Prop Prop Prop Prop Prop	23811 250.0 261:9 273.8 285.7 357:1	10,000 10,500 11,000 11,500 12,000	80 80 80 80 80 80	20/40 White 20/40 White 20/40 White 20/40 White 20/40 White 20/40 White	30/500 51/500 79/000 1:13/500 1:155/500 21/5/500	1:50 2:00 2:50 3:00 3:50 4:00	3:18 3:41 3:65 3:89 4:14 5:27	17 27 20 68 24 33 28 22 32 35 37 63	





Pump Schedule

Stage 1

Stg Rate Clean Clean Conc. Rate Slurry Slurry Clb/m) Cl			Blende	r Schedule		P Market Company	
# (bpm) (bbls)				A COLOR PROPERTY OF THE REAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	[2] 对文本题则 [2] 學不能的記	。 	Stg. Time
21 80.00 36 40 5.16 80 35.7 39.6 39.6 0.0 5.9 31 80.00 476 5.16 80 476.2 515.8 0.0 5.9 4 79.11 143 659 0.25 80 144.5 658.7 831 1500 1.500 18 5 78.2 214 873 0.50 80 219.1 873.0 1.643 4.500 6,000 2.7 6 76.56 226 1.099 1.00 80 236.4 10992 3.215 9,500 415,500 2.9 7 74.9 238 1.337 1.50 80 254.3 1337.3 4720 15,000 30,500 31 8 73.74 250 1/587 2.00 80 272.7 1587.3 6,162 21,000 51,500 34	# (bpm)	(bbls)	(lb/gal) - (bpm)	(bbls)	(bbls)	[基础管理: 18 · 3]	(mins)
4 79:1 143 659 0.25 80: 144/5 658.7 831 1500; 1,500; 188 5 78:2 214 873 0.50 80; 219:1 873.0 1,643 4,500 6,000 2:7 6 76:5 226 1,099 1,00 80 236:4 1099:2 3:215 9,500 415;500 2:9 7 74:9 238 1;337 1:50 80 254:3 1337:3 4,720 15,000 30,500 3:1 8 73:4 250 1/587 2:00 80 272:7 1587:3 6;162 21,000 51,500 3:4	0. 8 St. 1 Sharan New Last 21 State 110 St. 11	4 4 4 4 40	805		for married war and married to the contract	0.	0.20\ 0.45
5 78.2 214 873 0.50 80 219.1 873.0 1,643 4,500 6,000 2.7 6 76.56 226 1,099 100 80 236.4 1099.2 3,215 9,500 15,500 2.9 7 74.9 238 1,337 1.50 80 254.3 1337.3 4,720 15,000 30,500 3.1 8 73.4 250 1,587 2.00 80 272.7 1587.3 6,162 21,000 51,500 3.4	3 6 6 80.0	476 516	the state of the s	THE REPORT OF THE PARTY AND THE CONTRACTOR OF THE PARTY AND THE PARTY AN	Frederick P. S.		5.95
[6] [76:5] [226] [1/099] [1/00] [80] [236:4] [1/099] [37:15] [9500] [47:5500] [29:500] [47:5500] [29:500] [47:20] <t< th=""><th>78.2</th><th></th><th>0.50</th><th>219.1</th><th>2873.0 1,643</th><th>4,500 6,000</th><th>2:74</th></t<>	78.2		0.50	219.1	2873.0 1,643	4,500 6,000	2:74
8 73.4 250 1587 2.00 2.00 2.00 2.327 2.72 2.72 2.72 2.72 2.72 2.72 2.7			1.00 (1.80 .	A home with the second of the second of the second of	PARTIES TO THE PARTIES OF THE PARTIE	The second second second second second second second	2.96 3.18
	73.4	250 📉 1/587	2.00	272-7			3 41
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13 (67.5) 186 (2.952) 4.00 (80) 220.2 (2951.5) 11,340 (31,200) 246,700 (2.7	13 67.5	186 . 2,952	4.00	220.2		31,200 246,700	2.75 2.49



Pricing

		Price Estim	ate (Entire	Job) 🔻		K. C. T.		
Code	Category	Description	Quantity	Units	Price	Discount %	Gross	Net price
1000	MILEAGE-HV	Heavy Vehicle mileage	720	mi	\$8.45	75%	\$6,084.00	\$1,521.00
1000	MILEAGE-LT	Light Vehicle mileage	60	mi	\$4.78	73%	\$286.80	\$77.44
1100	SV-FR-5000	Fracturing Services > 5000 HHP	1	Job	\$2,249.52	74%	\$2,249.52	\$584.88
1300	COMP-FRAC	Fracturing - computer monitoring	1	dol	\$4,523.76	74%	\$4,523.76	\$1,176.18
1500	DELV-ONEWY	Standard one way delivery	7,401	ton-mi	\$2.82	74%	\$20,870.82	\$5,426.41
2000	FP-05000PS	FP HHP 0 - 5,000 psi	9,309	HHP	\$16.46	74%	\$153,226.14	\$39,838.80
2300	BLEN-080BP	Blender 61-80 bpm	1	2hr	\$12,508.32	74%	\$12,508.32	\$3,252.16
3000	PC-01LB-GL	0.1 to 1.0 pounds per gallon	24,500	GAL	\$0.15	74%	\$3,785.25	\$984.17
3000	PC-04LB-GL	1.1 to 4.0 pounds per gallon	77,800	GAL	\$0.18	74%	\$13,622.78	\$3,541.92
3100	LA-CHEMADD	Chemical additive unit	1	Job	\$1,992.43	74%	\$1,992.43	\$518.03
3100	LA-CONT-MX	Continuous mix liquid gel processing service	1	Job	\$8,627.28	74%	\$8,627.28	\$2,243.09
3300	MANIFOLDTR	Trailer mounted frac manifold, initial hrs	1	HR	\$7,292.40	74%	\$7,292.40	\$1,896.02
3400	SKING-300K	Sand King (less than 300k lb capacity), 1st day	1	DAY	\$2,209.97	74%	\$2,209.97	\$574.59
7200	BIOCID-398	Biocide - AMA 398	21	LB	\$30.65	74%	\$643.65	\$167.35
7200	BREAK-10L	Breaker - Plexgel Breaker 10L	124	GAL	\$138.87	74%	\$17,219.88	\$4,477.17
7200	BREAK-AP	Breaker - Ammonium Persulfate	128	LB	\$11.90	74%	\$1,523.20	\$396.03
7200	CL-PLEX101	Cross Linker - Plexbor 101	124	GAL	\$51.10	74%	\$6,336.40	\$1,647.46
7200	GRNHIB679	Additives - Greenhib 679	165	GAL	\$40.15	74%	\$6,624.75	\$1,722.44
7200	KCL-CLAYMX	KCI Sub - Claymax	132	GAL	\$55.79	74%	\$7,364.28	\$1,914.71
7200	LG-907LE	Liquid Gel - Plexgel 907 LE	826	GAL	\$174.00	74%	\$143,724.00	\$37,368.24
7200	NE-PLEX150	Non Emulsifier - Plexbreak 150	66	GAL	\$84.00	74%	\$5,544.00	\$1,441.44
7200	PLEXSET730	Plexset 730	40	GAL	\$72.88	74%	\$2,915.20	\$757.95
7200	SURF-240E	Surfactant - Plexsurf 240E	132	GAĹ	\$24.50	74%	\$3,234.00	\$840.84
8000	WHITE2040	White Sand 20/40	2,155	cwt	\$48.75	74%	\$105,056.25	\$27,314.63
8000	2040SUPRLC	Super LC 20/40	31,200	LB	\$1.28	74%	\$39,936.00	\$10,383.36

Total:

\$577,401.08

Discount: Net price: \$433,050.81 **\$144,350.27**