



12701 ENERGY RD · FT. MORGAN, CO. 80701 · PH (970) 867-2766 · FAX (970) 867- 5922

CEP MID-CONTINENT LLC – SKIATOOK, OK
Coal Seam Frac Project

March 11, 2008

CEP – Kanmap - CEP Knisley #6-5 Stage #2

Skinner (664'-668', 4 spf), 16 shots total.

Started pump in with 97 gal gelled water. Followed with 500 gals of 7.5% HCl. Started treatment with a pad of 1596 gallons of MavFoam C70, followed by 5173 gals of MavFoam C70 carrying 5820 lbs 16/30 Brady Sand at 0.25 to 3.0 ppg down hole. The job was flushed to the top perforation with 445 gal gelled water, and over flushed with 210 gal gelled water. A total of 62,000 SCF (including cool down) of N₂ was used.

Started pump-in, STP-0, BH-290. Followed with acid @ 3.0 bpm, STP-924, BH-1171. Started Flush, STP-954, BH-1253. Started Pad, STP-736, BH-846. Initial FQ was 58. Sand stages were as follows: Started 0.25#, STP-924, BH-1005, FQ-68. Started 0.5#, STP-920, BH-994, FQ-69. Started 1#, STP-921, BH-1012, FQ-69. Started 2#, STP-918, BH-1014, FQ-68. Started 3#, STP-918, BH-1031, FQ-71. Started Flush, STP-921, BH-1072, FQ-70. Average FQ was 58. Max pressure was 3763 psi. Average rate was 13 bpm at 917 psi surface (992 psi bottomhole). ISIP was 684 psi (FG = 1.46).

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WICHITA, KS



MAVERICK
STIMULATION COMPANY, LLC

88 INVERNESS CIRCLE E. G-101
ENGLEWOOD, CO 80112
PH (303) 757-7789 FAX (303) 757-7610

TREATMENT REPORT PAGE 1

Date: 11-Mar-08

Well Name:	Location:	Customer Rep:	Field Order #
KNISLEY #6-5	SEC.6, T33S, R17E	DON STAFFORD	09546A
Stage:	Formation:	Treat Via:	Allowable Pressure Tbg Csg Well Type:
ST #12	SKINNER	CASING	4,000 GAS
County:	State:	Well Age:	PackerType: PackerDepth: Csg Size:
MONTGOMERY	KS	NEW	4.5
Type Of Service:	N2 FOAM FRAC	Csg Depth	Tbg Size: Tbg Depth: Liner Size:
Customer Name:	CEP MID-CONTINENT LLC	Liner Depth:	Liner Top: Liner Bot: Total Depth:
Address:	LARRY CASEY P.O. BOX 970 SKAITOOK OK 74070	Open Hole:	Csg Vol: BHT:
Remarks:	5,820 LBS. 16/30 BRADY 62,000 SCF N2 JOB PUMPED @ 13 BPM DOWNHOLE RATE	Perf Depths:	Perfs: TotalPerfs:
		664	668 16 16
			0
			0
			0
			0
			0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	FOAM/FLD (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
10:51	0.0	0	8	1	PRIME UP PRESS TEST TO = 4000 PSI	0	0	0.0
11:02	0.0	0	203	1	ST PUMP-IN	0	97	2.3
11:03	3.9	0	1364	1	BREAKDOWN @ 3763 PSSI	0	0	0.0
11:03	5.2	0	1075	1	ST ACID	0	500	12.0
11:06	0.0	0	1237	1	ACID BRK @ 1480 PSI	0	0	0.0
11:08	4.0	4067	699	1	ST PAD	0	1,596	11.4
11:11	3.7	2953	906	1	ST .25# 16/30 BRADY	500	2,000	14.3
11:14	3.8	3155	917	1	ST .5# 116/30 BRADY	500	1,000	7.1
11:16	4.4	3152	921	1	ST 1# 16/30 BRADY	500	500	3.6
11:17	4.6	3156	917	1	ST 2# 16/30 BRADY	1,400	700	5.0
11:18	4.7	3152	915	1	ST 3# 16/30 BRADY	2,920	973	7.0
11:21	11.8	0	898	1	ST FLUSH	0	445	10.6
11:21	12.0	0	812	1	ST OVERFLUSH	0	210	5.0
11:22	0.0	0	671	1	CUT FLUID - ISIP = 684 PSI	0	0	0.0
Total:						5,820	8,021	78.3

Summary

Max Fl. Rate Avg Fl. Rate Max Psi Avg Psi
12.0 5.8 3,763 911

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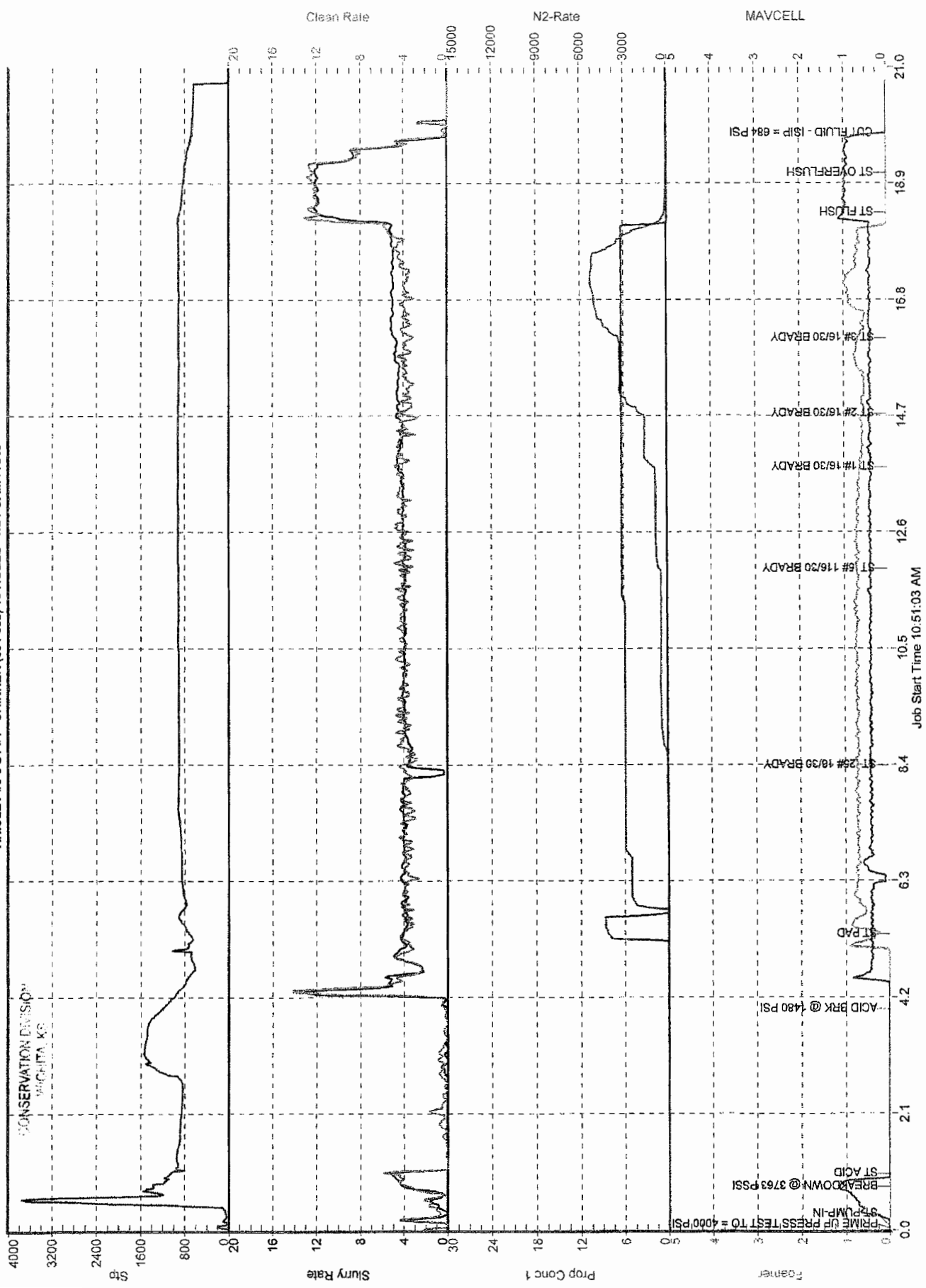
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CONSERVATION DIVISION
WICHITA, KS

Customer Acknowledgement:	Service Rating:	Treater:	PRODUCTS USED
	☐ Satisfactory ☐ Unsatisfactory	TERRY BOWMAN	MAV-100, BREAKER 503L, GB-3, WF-1, CL-57, MAVCELL, MAVCIDE II, 7.5% HCL, MAVHIB-3, N2, 16/30 BRADY.

CEP MID - CONTINENT LLC.
KNISLEY #6-S ST #1 - SKINNER (664-668) 16 HOLES - N2 FOAM FRAC

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CEP MID-CONTINENT LLC – SKIATOOK, OK
Coal Seam Frac Project

March 11, 2008

CEP – Kanmap - CEP Knisley #6-5 Stage #3

Summit Shale (512'-514', 4 spf), Mulky (540'-542', 4 spf), Ironpost (565'-567', 4 spf), 24 shots total.

Started pump in with 151 gal gelled water. Followed with 500 gals of 7.5% HCl. Started treatment with a pad of 1680 gallons of MavFoam C70, followed by 10890 gals of MavFoam C70 carrying 15420 lbs 16/30 Brady Sand at 0.25 to 3.0 ppg down hole. The job was flushed to the top perforation with 340 gal gelled water, and over flushed with 210 gal gelled water. A total of 103,000 SCF (including cool down) of N₂ was used.

Started pump-in, STP-42, BH-267. Followed with acid @ 3.0 bpm, STP-2778, BH-3029. Started Flush, STP-1651, BH-1841. Started Pad, STP-706, BH-822. Initial FQ was 58. Sand stages were as follows: Started 0.25#, STP-950, BH-989, FQ-72. Started 0.5#, STP-950, BH-996, FQ-71. Started 1#, STP-970, BH-1023, FQ-70. Started 2#, STP-1002, BH-1067, FQ-70. Started 3#, STP-1050, BH-1127, FQ-70. Started Flush, STP-1210, BH-1343, FQ-70. Average FQ was 58. Max pressure was 3062 psi. Average rate was 20 bpm at 1026 psi surface (1104 psi bottomhole). ISIP was 801 psi (FG = 1.92).

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TREATMENT REPORT PAGE 1

Date: 11-Mar-08

Well Name:	Location:	Customer Rep:	Field Order #
KNISLEY #6-5	SEC.6, T33S, R17E	DON STAFFORD	09546B
Stage:	Formation:	Treat Via:	Allowable Pressure Tbg Csg Well Type:
ST #13	SUMMIT & MULKY SHALE, IP	CASING	4,000 GAS
County:	State:	Well Age:	Packer Type: Packer Depth: Csg Size:
MONTGOMERY KMAP	KS	NEW	4.5
Type Of Service:	N2 FOAM FRAC	Csg Depth	Tbg Size: Tbg Depth: Liner Size:
Customer Name:	CEP MID-CONTINENT LLC	Liner Depth:	Liner Top: Liner Bot: Total Depth:
Address:	LARRY CASEY P.O. BOX 970 SKAITOOK OK 74070	Open Hole:	Csg Vol: BHT:
Remarks:	15,420 LBS. 16/30 BRADY 103,000 SCF N2 JOB PUMPED @ 20 BPM DOWNHOLE RATE	Perf Depths:	Perfs: Total Perfs:
		512	514 8 24
		540	542 8
		565	567 8
			0
			0
			0
			0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	FOAM/FLD (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
12:12	0.0	0	70	1	PRESSURE TEST LINE TO = 4000 PSI	0	0	0.0
12:16	0.0	0	162	1	ST PUMP-IN	0	151	3.6
12:17	2.8	0	2830	1	BREAKDOWN @ 3062 PSI	0	0	0.0
12:17	2.7	0	2783	1	ST ACID	0	500	12.0
12:21	0.0	0	2345	1	ACID BRK @ 2745 PSI	0	0	0.0
12:22	0.0	0	1668	1	ST FLUSH	0	361	8.6
12:24	6.7	2598	657	1	ST PAD	0	1,680	12.0
12:26	5.1	4961	938	1	ST .25# 16/30 BRADY	500	2,000	14.3
12:28	6.1	4945	950	1	ST .5# 16/30 BRADY	500	1,000	7.1
12:30	6.5	4948	969	1	ST 1# 16/30 BRADY	3,000	3,000	14.3
12:32	7.5	4955	991	1	ST 2# 16/30 BRADY	4,500	2,250	16.1
12:35	7.3	5214	1049	1	ST 3# 16/30 BRADY	7,920	2,640	18.8
12:40	9.7	2769	1176	1	ST FLUSH	0	340	18.1
12:40	20.3	0	1125	1	ST OVERFLUSH	0	210	5.0
12:40	0.9	0	825	1	CUT FLUID - ISIP = 801 PSI	0	0	0.0
Total:						16,420	14,132	129.9

Summary

Max Fl. Rate Avg Fl. Rate Max Psi Avg Psi
20.3 6.9 3,067 1,332

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WICHITA, KS

Customer Acknowledgement:	Service Rating:	Treater:	PRODUCTS USED
	☐ Satisfactory ☐ Unsatisfactory	TERRY BOWMAN	MAV-100, BREAKER 503L, GB-3, WF-1, CL-57, MAVCELL, MAVCIDE II, 7.5% HCL, MAVHTB-3, N2, 16/30 BRADY.

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KNISLEY #8-5 ST #2 - SUMMIT & MULKY SHALE (512-14) (54042) IRON POST (665-87) 24 HOLES - N2 FOAM FRAC

CEP MID - CONTINENT LLC.

