

15-189-21974-00-00
Stimulation Service Report



Schlumberger
Dowell

Customer: MOBIL DRILLING V390500757A
Job Number: 20151969

Well	Brower 4		Location (legal)	Sec. 1-32S-37W		Dowell Location	Ulysses, KS		Job Start	04/04/2000			
Field	Hugoton		Formation Name/Type	Chase		Deviation	0°		Bit Size	0 in			
County	Stevens		State/Province	Kansas		BHP	0 psi		BHST	0 °F			
Rig Name	Key Energy		Drilled For	Gas		Service Via	Land		Casing				
Offshore Zone			Well Class	Old		Well Type	Workover		Depth, ft	Size, in	Weight, lb/ft		
Primary Treating Fluid	80Q Foam		Polymer Loading	30 lb/1000gal		Fluid Density	lb/gal		Grade	Thread			
Service Line	Fracturing		Job Type	Frac.N2Foam/Energized		Tubing							
Max. Allowed Tubing Pressure	3000 psi		Max. Allowed Ann. Pressure	0 psi		Wellhead Connection	5 1/2 X 4 Swage		Perforated Intervals				
Service Instructions Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.									Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
									0	0	0	0	0 ft
									0	0	0	0	Diameter
									0	0	0	0	0 in
			Treat Down	Displacement	Packer Type	Packer Depth							
			Casing	0 bbl	None	0 ft							

Job Scheduled For:	04/04/2000 6:00	Arrived on Location:	04/04/2000 6:00	Leave Location:	04/04/2000 11:00	Tubing Vol.	0 bbl	CasingVol.	0 bbl	AnnularVol.	0 bbl	OpenHoleVol	0 bbl
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Time	BH Foam Q	BHinj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbl	psi	
9:30	0	0	0	0	0	0	0	START ACQUISITION
9:30	0	0	0	0	0	0	247.3	
9:31	0	0	0	0	0	0	215.2	
9:31	0	0	0	0	0	0	206	
9:32	0	0.13	0	0.13	0	0.061	3059	
9:32	0	0.13	0	0.13	0	0.061	3059	STOP ACQUISITION
9:33	0	0	0	0	0	0	-3718	
9:36	0	0	0	0	0	0	-3718	START ACQUISITION
9:36	0	0	0	0	0	0	2807	
9:37	0	0	0	0	0	0	2802	
9:37	0	0	0	0	0	0	2802	RECEIVED
9:38	0	0	0	0	0	0	2798	KANSAS CORPORATION COMMISSION
9:38	0	0	0	0	0	0	2798	6-28-2001
9:39	0	0	0	0	0	0	2793	JUN 28 2001
9:39	0	0	0	0	0	0	2793	
9:40	0	0	0	0	0	0	2788	CONSERVATION DIVISION
9:40	0	0	0	0	0	0	2788	WICHITA, KS
9:41	0	0	0	0	0	0	2779	
9:41	0	0	0	0	0	0	2779	
9:42	0	0	0	0	0	0	361.7	
9:42	0	0	0	0	0	0	361.7	[Total N2 Rate]=F[Total N2 Rate 2]
9:42	0	0	0	0	0	0	361.7	Start N2 tach rates
9:42	0	0	0	0	0	0	361.7	Start Job
9:42	0	0	0	0	0	0	32.05	
9:43	0	7.42	0	7.42	0	1.83	64.1	
9:43	76.25	36.19	4553	8.6	11700	5.84	334.2	
9:44	79.27	37.07	10721	7.69	12460	9.94	517.4	
9:44	79.69	39.13	17082	7.95	13220	13.8	746.3	
9:45	80.72	39.86	23891	7.69	13640	17.72	902	

Well		Field				Service Date		Customer		Job Number	
-Brower #4		Hugoton						MOBIL DRILLING V39050075		20151969	
Time	BH Foam Q	BHinj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi		Message		
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi				
9:45	73.78	56.13	31943	14.72	17560	23.36	1044	0			
9:46	80.09	77.86	44273	15.5	26440	30.94	1332	0			
9:46	80.13	81.29	58062	16.15	27620	38.91	1479	0			
9:47	80.1	80.5	71818	16.02	27340	46.98	1543	0			
9:47	79.94	80.54	85545	16.15	27300	55.05	1598	0			
9:48	80.11	80.55	99275	16.02	27360	63.11	1598	0	RECEIVED		
9:48	80.13	80.64	113028	16.02	27400	71.18	1658	0	KANSAS CORPORATION COMMISSION		
9:49	80.1	80.5	126773	16.02	27340	79.27	1699	0			
9:49	79.97	80.63	140515	16.15	27340	87.37	1708	0	JUN 28 2001		
9:50	79.99	80.73	154269	16.15	27380	95.48	1708	0			
9:50	79.97	80.63	168014	16.15	27340	103.6	1735	0			
9:51	80.07	80.41	181729	16.02	27300	111.7	1754	0	CONSERVATION DIVISION		
9:51	79.87	80.26	195439	16.15	27180	119.8	1767	0	WICHITA, KS		
9:52	79.87	80.26	209094	16.15	27180	128.	1763	0			
9:52	79.9	80.35	222754	16.15	27220	136.1	1767	0			
9:53	79.83	80.07	236412	16.15	27100	144.2	1781	0			
9:53	79.91	80.4	250085	16.15	27240	152.4	1767	0			
9:54	79.9	80.35	263778	16.15	27220	160.5	1749	0			
9:54	79.91	80.4	277469	16.15	27240	168.7	1717	0			
9:55	79.92	80.44	291173	16.15	27260	176.8	1699	0			
9:55	79.91	80.4	304881	16.15	27240	185.	1690	0			
9:56	79.92	80.44	318576	16.15	27260	193.1	1690	0			
9:56	79.82	80.67	332292	16.28	27300	201.2	1676	0			
9:57	79.77	80.48	345986	16.28	27220	209.4	1676	0			
9:57	80.04	80.27	359673	16.02	27240	217.5	1667	0			
9:58	79.9	80.35	373354	16.15	27220	225.6	1658	0			
9:58	79.9	80.35	387024	16.15	27220	233.7	1662	0			
9:59	79.93	80.49	400719	16.15	27280	241.8	1658	0			
9:59	79.92	80.44	414413	16.15	27260	249.9	1658	0			
10:00	79.98	80.03	428115	16.02	27140	258.	1639	0			
10:00	80.09	80.46	441834	16.02	27320	266.1	1658	0			
10:01	80.05	80.31	455568	16.02	27260	274.2	1644	0			
10:01	80.09	80.46	469290	16.02	27320	282.3	1658	0			
10:02	80.05	80.31	483014	16.02	27260	290.4	1648	0			
10:02	80.12	80.6	496770	16.02	27380	298.5	1625	0			
10:03	79.93	80.49	510501	16.15	27280	306.6	1644	0			
10:03	80.06	80.36	524217	16.02	27280	314.7	1630	0			
10:04	79.94	80.54	537934	16.15	27300	322.8	1625	0			
10:04	79.97	80.63	551668	16.15	27340	331.	1616	0			
10:05	79.94	80.54	565394	16.15	27300	339.1	1607	0			
10:05	79.94	80.54	579111	16.15	27300	347.2	1612	0			
10:06	79.92	80.44	592831	16.15	27260	355.3	1616	0			
10:06	80.04	80.27	606520	16.02	27240	363.4	1603	0			
10:07	79.86	80.21	620191	16.15	27160	371.5	1593	0			
10:07	79.92	80.44	633902	16.15	27260	379.6	1598	0			
10:08	79.9	80.35	647612	16.15	27220	387.7	1593	0			
10:08	79.93	80.49	661315	16.15	27280	395.8	1598	0			
10:09	79.94	80.54	675022	16.15	27300	403.9	1571	0			
10:09	79.91	80.4	688712	16.15	27240	412.	1589	0			
10:10	79.91	80.4	702405	16.15	27240	420.1	1580	0			
10:10	79.91	80.4	716098	16.15	27240	428.3	1575	0			
10:11	79.93	80.49	729792	16.15	27280	436.4	1580	0			
10:11	79.93	80.49	743504	16.15	27280	444.5	1589	0			
10:12	79.93	80.49	757210	16.15	27280	452.6	1607	0			

Well		Field				Service Date		Customer		Job Number	
Blower #4		Hugoton						MOBIL DRILLING V39050075		20151969	
Time	BH Foam Q	BH Inj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message			
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi				
10:12	79.87	80.26	770909	16.15	27180	460.7	1593	0			
10:13	79.9	80.35	784604	16.15	27220	468.8	1593	0			
10:13	79.93	80.49	799269	16.15	27280	478.5	1580	0			
10:14	79.93	80.49	812980	16.15	27280	486.6	1571	0	RECEIVED		
10:14	79.9	80.35	827736	16.15	27220	496.1	1580	0	KANSAS CORPORATION COMMISSION		
10:15	79.85	80.16	841399	16.15	27140	504.3	1584	0			
10:15	79.83	80.07	856083	16.15	27100	513.7	1598	0	JUN 28 2001		
10:16	79.8	79.97	869699	16.15	27060	521.9	1598	0			
10:16	79.79	79.93	884374	16.15	27040	531.4	1593	0			
10:17	79.81	80.02	897971	16.15	27080	539.5	1580	0	CONSERVATION DIVISION		
10:17	79.83	80.07	911592	16.15	27100	547.6	1607	0	WICHITA, KS		
10:18	100.	63.49	925171	0.	26920	550.6	1484	0			
10:18	100.	63.68	938740	0.	27000	550.6	1493	0			
10:19	0.	0.	944521	0.	0.	550.6	1337	0			
Post Job Summary											
Average Injection Rates, bpm						Volume of Fluid Injected, bbl					
Fluid	N2	CO2	Maximum Rate			Clean Fluid	Acid	Oil	CO2	N2 (scf)	
16	27500	0	16.4			550	0	0	0	944522	
Treating Pressure Summary, psi						Quantity of & placed, lb					
Breakdown	Maximum	Final	Average	ISIP	16 Min. ISIP	Total Injected	Total Ordered/Designed				
0	1783	1421	1600	1285	0	0	0				
N2 Percent	CO2 Percent	Designed Fluid Volume		Displacement		Slurry Volume		Pad Volume		Percent Pad	
80%	0%	100000 gal		64 bbl		550 bbl		0 gal		0 %	
Customer or Authorized Representative			Dowell Supervisor			Number of Stages		Fracture Gradient		<input checked="" type="checkbox"/> Job Completed	
John Rice			Dave Brawley			1		0 psi/ft		<input type="checkbox"/> Screen Out	