



# Sneed 9 Federal Com #1H AFE

COG OPERATING LLC AUTHORITY FOR EXPENDITURE DRILLING				
WELL NAME: SNEED 9 FEDERAL COM #1H		PROSPECT NAME: MALAMAR 713081		
S#4: 330 FNL & 150 FNL U.S.		STATE & COUNTY: New Mexico, Lea		
S#4: 330 FNL & 330 FNL U.S.		OBJECTIVE: SH-7 Vapo Horizontal		
FORMATION: Gravelly Sand		DEPTH: 13,333		
LEGAL: 62091174332		FWD: 8,700		
ITEMS & COSTS		BCE	ACE	TOTAL
1. Mud (Contract)	301	48,000		48,000
2. Mud (Contract)	302	22,000	0	22,000
3. Mud (Contract)	303	15,000	0	15,000
4. Mud (Contract)	304	1,000	0	1,000
5. Mud (Contract)	305	80,000	25,000	105,000
6. Mud (Contract)	306	1,000	2,870	3,870
7. Mud (Contract)	307			
8. Mud (Contract)	308			
9. Mud (Contract)	309	541,000	47,000	588,000
10. Mud (Contract)	310	150,000		150,000
11. Mud (Contract)	311	15,000	11,000	26,000
12. Mud (Contract)	312	58,000	1,000,000	1,058,000
13. Mud (Contract)	313	54,000	5,000	59,000
14. Mud (Contract)	314	41,000	0	41,000
15. Mud (Contract)	315			
16. Mud (Contract)	316			
17. Mud (Contract)	317	38,000		38,000
18. Mud (Contract)	318	20,000		20,000
19. Mud (Contract)	319	0	100,000	100,000
20. Mud (Contract)	320			
21. Mud (Contract)	321	1,000	0	1,000
22. Mud (Contract)	322	1,000	20,000	21,000
23. Mud (Contract)	323	1,000	13,000	14,000
24. Mud (Contract)	324			
25. Mud (Contract)	325	1,000		1,000
26. Mud (Contract)	326	15,000	21,000	36,000
27. Mud (Contract)	327	1,000	1,000	2,000
28. Mud (Contract)	328	1,000	1,000	2,000
29. Mud (Contract)	329	1,000	1,000	2,000
30. Mud (Contract)	330	1,000	1,000	2,000
31. Mud (Contract)	331	1,000	1,000	2,000
32. Mud (Contract)	332	1,000	1,000	2,000
33. Mud (Contract)	333	1,000	1,000	2,000
34. Mud (Contract)	334	1,000	1,000	2,000
35. Mud (Contract)	335	1,000	1,000	2,000
36. Mud (Contract)	336	1,000	1,000	2,000
37. Mud (Contract)	337	1,000	1,000	2,000
38. Mud (Contract)	338	1,000	1,000	2,000
39. Mud (Contract)	339	1,000	1,000	2,000
40. Mud (Contract)	340	1,000	1,000	2,000
41. Mud (Contract)	341	1,000	1,000	2,000
42. Mud (Contract)	342	1,000	1,000	2,000
43. Mud (Contract)	343	1,000	1,000	2,000
44. Mud (Contract)	344	1,000	1,000	2,000
45. Mud (Contract)	345	1,000	1,000	2,000
46. Mud (Contract)	346	1,000	1,000	2,000
47. Mud (Contract)	347	1,000	1,000	2,000
48. Mud (Contract)	348	1,000	1,000	2,000
49. Mud (Contract)	349	1,000	1,000	2,000
50. Mud (Contract)	350	1,000	1,000	2,000
51. Mud (Contract)	351	1,000	1,000	2,000
52. Mud (Contract)	352	1,000	1,000	2,000
53. Mud (Contract)	353	1,000	1,000	2,000
54. Mud (Contract)	354	1,000	1,000	2,000
55. Mud (Contract)	355	1,000	1,000	2,000
56. Mud (Contract)	356	1,000	1,000	2,000
57. Mud (Contract)	357	1,000	1,000	2,000
58. Mud (Contract)	358	1,000	1,000	2,000
59. Mud (Contract)	359	1,000	1,000	2,000
60. Mud (Contract)	360	1,000	1,000	2,000
61. Mud (Contract)	361	1,000	1,000	2,000
62. Mud (Contract)	362	1,000	1,000	2,000
63. Mud (Contract)	363	1,000	1,000	2,000
64. Mud (Contract)	364	1,000	1,000	2,000
65. Mud (Contract)	365	1,000	1,000	2,000
66. Mud (Contract)	366	1,000	1,000	2,000
67. Mud (Contract)	367	1,000	1,000	2,000
68. Mud (Contract)	368	1,000	1,000	2,000
69. Mud (Contract)	369	1,000	1,000	2,000
70. Mud (Contract)	370	1,000	1,000	2,000
71. Mud (Contract)	371	1,000	1,000	2,000
72. Mud (Contract)	372	1,000	1,000	2,000
73. Mud (Contract)	373	1,000	1,000	2,000
74. Mud (Contract)	374	1,000	1,000	2,000
75. Mud (Contract)	375	1,000	1,000	2,000
76. Mud (Contract)	376	1,000	1,000	2,000
77. Mud (Contract)	377	1,000	1,000	2,000
78. Mud (Contract)	378	1,000	1,000	2,000
79. Mud (Contract)	379	1,000	1,000	2,000
80. Mud (Contract)	380	1,000	1,000	2,000
81. Mud (Contract)	381	1,000	1,000	2,000
82. Mud (Contract)	382	1,000	1,000	2,000
83. Mud (Contract)	383	1,000	1,000	2,000
84. Mud (Contract)	384	1,000	1,000	2,000
85. Mud (Contract)	385	1,000	1,000	2,000
86. Mud (Contract)	386	1,000	1,000	2,000
87. Mud (Contract)	387	1,000	1,000	2,000
88. Mud (Contract)	388	1,000	1,000	2,000
89. Mud (Contract)	389	1,000	1,000	2,000
90. Mud (Contract)	390	1,000	1,000	2,000
91. Mud (Contract)	391	1,000	1,000	2,000
92. Mud (Contract)	392	1,000	1,000	2,000
93. Mud (Contract)	393	1,000	1,000	2,000
94. Mud (Contract)	394	1,000	1,000	2,000
95. Mud (Contract)	395	1,000	1,000	2,000
96. Mud (Contract)	396	1,000	1,000	2,000
97. Mud (Contract)	397	1,000	1,000	2,000
98. Mud (Contract)	398	1,000	1,000	2,000
99. Mud (Contract)	399	1,000	1,000	2,000
100. Mud (Contract)	400	1,000	1,000	2,000
101. Mud (Contract)	401	1,000	1,000	2,000
102. Mud (Contract)	402	1,000	1,000	2,000
103. Mud (Contract)	403	1,000	1,000	2,000
104. Mud (Contract)	404	1,000	1,000	2,000
105. Mud (Contract)	405	1,000	1,000	2,000
106. Mud (Contract)	406	1,000	1,000	2,000
107. Mud (Contract)	407	1,000	1,000	2,000
108. Mud (Contract)	408	1,000	1,000	2,000
109. Mud (Contract)	409	1,000	1,000	2,000
110. Mud (Contract)	410	1,000	1,000	2,000
111. Mud (Contract)	411	1,000	1,000	2,000
112. Mud (Contract)	412	1,000	1,000	2,000
113. Mud (Contract)	413	1,000	1,000	2,000
114. Mud (Contract)	414	1,000	1,000	2,000
115. Mud (Contract)	415	1,000	1,000	2,000
116. Mud (Contract)	416	1,000	1,000	2,000
117. Mud (Contract)	417	1,000	1,000	2,000
118. Mud (Contract)	418	1,000	1,000	2,000
119. Mud (Contract)	419	1,000	1,000	2,000
120. Mud (Contract)	420	1,000	1,000	2,000
121. Mud (Contract)	421	1,000	1,000	2,000
122. Mud (Contract)	422	1,000	1,000	2,000
123. Mud (Contract)	423	1,000	1,000	2,000
124. Mud (Contract)	424	1,000	1,000	2,000
125. Mud (Contract)	425	1,000	1,000	2,000
126. Mud (Contract)	426	1,000	1,000	2,000
127. Mud (Contract)	427	1,000	1,000	2,000
128. Mud (Contract)	428	1,000	1,000	2,000
129. Mud (Contract)	429	1,000	1,000	2,000
130. Mud (Contract)	430	1,000	1,000	2,000
131. Mud (Contract)	431	1,000	1,000	2,000
132. Mud (Contract)	432	1,000	1,000	2,000
133. Mud (Contract)	433	1,000	1,000	2,000
134. Mud (Contract)	434	1,000	1,000	2,000
135. Mud (Contract)	435	1,000	1,000	2,000
136. Mud (Contract)	436	1,000	1,000	2,000
137. Mud (Contract)	437	1,000	1,000	2,000
138. Mud (Contract)	438	1,000	1,000	2,000
139. Mud (Contract)	439	1,000	1,000	2,000
140. Mud (Contract)	440	1,000	1,000	2,000
141. Mud (Contract)	441	1,000	1,000	2,000
142. Mud (Contract)	442	1,000	1,000	2,000
143. Mud (Contract)	443	1,000	1,000	2,000
144. Mud (Contract)	444	1,000	1,000	2,000
145. Mud (Contract)	445	1,000	1,000	2,000
146. Mud (Contract)	446	1,000	1,000	2,000
147. Mud (Contract)	447	1,000	1,000	2,000
148. Mud (Contract)	448	1,000	1,000	2,000
149. Mud (Contract)	449	1,000	1,000	2,000
150. Mud (Contract)	450	1,000	1,000	2,000
151. Mud (Contract)	451	1,000	1,000	2,000
152. Mud (Contract)	452	1,000	1,000	2,000
153. Mud (Contract)	453	1,000	1,000	2,000
154. Mud (Contract)	454	1,000	1,000	2,000
155. Mud (Contract)	455	1,000	1,000	2,000
156. Mud (Contract)	456	1,000	1,000	2,000
157. Mud (Contract)	457	1,000	1,000	2,000
158. Mud (Contract)	458	1,000	1,000	2,000
159. Mud (Contract)	459	1,000	1,000	2,000
160. Mud (Contract)	460	1,000	1,000	2,000
161. Mud (Contract)	461	1,000	1,000	2,000
162. Mud (Contract)	462	1,000	1,000	2,000
163. Mud (Contract)	463	1,000	1,000	2,000
164. Mud (Contract)	464	1,000	1,000	2,000
165. Mud (Contract)	465	1,000	1,000	2,000
166. Mud (Contract)	466	1,000	1,000	2,000
167. Mud (Contract)	467	1,000	1,000	2,000
168. Mud (Contract)	468	1,000	1,000	2,000
169. Mud (Contract)	469	1,000	1,000	2,000
170. Mud (Contract)	470	1,000	1,000	2,000
171. Mud (Contract)	471	1,000	1,000	2,000
172. Mud (Contract)	472	1,000	1,000	2,000
173. Mud (Contract)	473	1,000	1,000	2,000
174. Mud (Contract)	474	1,000	1,000	2,000
175. Mud (Contract)	475	1,000	1,000	2,000
176. Mud (Contract)	476	1,000	1,000	2,000
177. Mud (Contract)	477	1,000	1,000	2,000
178. Mud (Contract)	478	1,000	1,000	2,000
179. Mud (Contract)	479	1,000	1,000	2,000
180. Mud (Contract)	480	1,000	1,000	2,000
181. Mud (Contract)	481	1,000	1,000	2,000
182. Mud (Contract)	482	1,000	1,000	2,000
183. Mud (Contract)	483	1,000	1,000	2,000
184. Mud (Contract)	484	1,000	1,000	2,000
185. Mud (Contract)	485	1,000	1,000	2,000
186. Mud (Contract)	486	1,000	1,000	2,000
187. Mud (Contract)	487	1,000	1,000	2,000
188. Mud (Contract)	488	1,000	1,000	2,000
189. Mud (Contract)	489	1,000	1,000	2,000
190. Mud (Contract)	490	1,000	1,000	2,000
191. Mud (Contract)	491	1,000	1,000	2,000
192. Mud (Contract)	492	1,000	1,000	2,000
193. Mud (Contract)	493	1,000	1,000	2,000
194. Mud (Contract)	494	1,000	1,000	2,000
195. Mud (Contract)	495	1,000	1,000	2,000
196. Mud (Contract)	496	1,000	1,000	2,000
197. Mud (Contract)	497	1,000	1,000	2,000
198. Mud (Contract)	498	1,000	1,000	2,000
199. Mud (Contract)	499	1,000	1,000	2,000
200. Mud (Contract)	500	1,000	1,000	2,000
201. Mud (Contract)	501	1,000	1,000	2,000
202. Mud (Contract)	502	1,000	1,000	2,000
203. Mud (Contract)	503	1,000	1,000	2,000
204. Mud (Contract)	504	1,000	1,000	2,000
205. Mud (Contract)	505	1,000	1,000	2,000
206. Mud (Contract)	506	1,000	1,000	2,000
207. Mud (Contract)	507	1,000	1,000	2,000
208. Mud (Contract)	508	1,000	1,000	2,000
209. Mud (Contract)	509	1,000	1,000	2,000
210. Mud (Contract)	510	1,000	1,000	2,000
211. Mud (Contract)	511	1,000	1,000	2,000
212. Mud (Contract)	512	1,000	1,000	2,000
213. Mud (Contract)	513	1,000	1,000	2,000
214. Mud (Contract)	514	1,000	1,000	2,000
215. Mud (Contract)	515	1,000	1,000	2,000
216. Mud (Contract)	516	1,000	1,000	2,000
217. Mud (Contract)	517	1,000	1,000	2,000
218. Mud (Contract)	518	1,000	1,000	2,000
219. Mud (Contract)	519	1,000	1,000	2,000
220. Mud (Contract)				

**COG OPERATING LLC  
AUTHORITY FOR EXPENDITURE  
DRILLING**

WELL NAME:	SNEED 9 FEDERAL COM #1H	PROSPECT NAME:	MALJAMAR 713083
SHL:	330' FNL & 150' FWL UL-D	STATE & COUNTY:	New Mexico, Lea
BHL:	330' FNL & 330' FEL UL-A	OBJECTIVE:	SH57 Yeso Horizontal
FORMATION:	Glorieta Yeso	DEPTH:	11,330
LEGAL:	SEC9 T17S-R32E	TVD:	6,700

INTANGIBLE COSTS		BCP		ACP		TOTAL
Title/Curative/Permit	201	10,000				10,000
Insurance	202	22,000	302	0		22,000
Damages/Right of Way	203	15,000	303	0		15,000
Survey/Stake Location	204	3,000	304	0		3,000
Location/Pits/Road Expense	205	60,000	305	25,000		85,000
Drilling / Completion Overhead	206	5,000	306	2,000		7,000
Turnkey Contract	207		307			0
Footage Contract	208		308			0
Daywork Contract (0 days f/spud-ris @ \$0)	209	341,000	309	47,000		388,000
Directional Drilling Services (0 dir days @ \$0)	210	150,000	310			150,000
Fuel & Power	211	83,000	311	12,000		95,000
Water	212	58,000	312	100,000		158,000
Bits	213	54,500	313	5,000		59,500
Mud & Chemicals	214	47,000	314	0		47,000
Drill Stem Test	215		315	0		0
Coring & Analysis	216					0
Cement Surface	217	38,000				38,000
Cement Intermediate	218	20,000				20,000
Cement 2nd Intermediate/Production	218	0	319	100,000		100,000
Cement Squeeze & Other (Kickoff Plug)	220		320	0		0
Float Equipment & Centralizers	221	2,000	321	30,000		32,000
Casing Crews & Equipment	222	5,000	322	12,000		17,000
Fishing Tools & Service	223		323			0
Geologic/Engineering	224	10,000	324			10,000
Contract Labor	225	20,000	325	21,000		41,000
Company Supervision	226	2,000	326	2,000		4,000
Contract Supervision	227	38,000	327	20,000		58,000
Testing Casing/Tubing	228	3,000	328	12,000		15,000
Mud Logging Unit (logging f/24 days)	229	21,000	329			21,000
Logging	230	25,000	330			25,000
Perforating/Wireline Services	231	3,500	331	50,000		53,500
Stimulation/Treating			332	1,400,000		1,400,000
Completion Unit			333	30,000		30,000
Swabbing Unit			334			0
Rentals-Surface	235	36,000	335	250,000		286,000
Rentals-Subsurface	236	64,000	336	75,000		139,000
Trucking/Forklift/Rig Mobilization	237	54,000	337	20,000		74,000
Welding Services	238	5,000	338	2,500		7,500
Water Disposal	239	0	339	40,000		40,000
Plug to Abandon	240	0	340	0		0
Seismic Analysis	241	0	341	0		0
Closed Loop & Environmental	244	143,000	344	0		143,000
Miscellaneous	242	0	342	0		0
Contingency 10%	243	134,000	343	226,500		360,500
TOTAL INTANGIBLES		1,472,000		2,482,000		3,954,000
TANGIBLE COSTS						
Surface Casing (13 3/8" 48# H40 STC)	401	33,000				33,000
Intermediate Casing(9 5/8" 40# J55 LTC)	402	64,000	503	0		64,000
Production Casing (7" 26# & 5 1/2" 17# L80)			503	217,000		217,000
Tubing			504	33,000		33,000
Wellhead Equipment	405	6,000	505	35,000		41,000
Pumping Unit			506	90,000		90,000
Prime Mover			507	20,000		20,000
Rods			508	20,000		20,000
Pumps			509	10,000		10,000
Tanks			510	21,000		21,000
Flowlines			511	11,000		11,000
Heater Treater/Separator			512	30,000		30,000
Electrical System			513	30,000		30,000
Packers/Anchors/Hangers	414	0	514	2,500		2,500
Couplings/Fittings/Valves	415	500	515	60,000		60,500
Gas Compressors/Meters			516	5,000		5,000
Dehydrator			517			0
Injection Plant/CO2 Equipment			518			0
Miscellaneous	419	500	519	500		1,000
Contingency	420	6,000	520	30,000		36,000
TOTAL TANGIBLES		110,000		615,000		725,000
TOTAL WELL COSTS		1,582,000		3,097,000		4,679,000

COG Operating LLC

By: Carl Bird

Date Prepared: 2/8/2013

JJ

COG Operating LLC

We approve:

% Working Interest

By:

Company:

By:

Printed Name:

Title:

Date:

This AFE is only an estimate. By signing you agree to pay your share of the actual costs incurred.