

June 7th, 2001

CERTIFIED MAIL-RETURN RECEIPT

Forcenergy Onshore, Inc. C/O Forest Oil Corporation 1600 Broadway, Suite 2200 Denver, Colorado 80202



T. H. McElvain Oil & Gas Limited Partnership 1050 17th Street, Suite 1800 Denver, Colorado 80265

Dugan Production Corporation 709 East Murray Drive Farmington, New Mexico 87499

RE: Two Well Proposal Bishop Federal #25-1 Well Bishop Federal #25-2 Well <u>Township 25 North – Range 3 West, NMPM</u> Section 25: NE/4 Rio Arriba County, New Mexico

Gentlemen:

D. J. Simmons, Inc. ("Simmons") is proposing the drilling of two (2) test wells. One in the NE/4 of Section 25, the other in the SE/4 of Section 25, Township 25 North – Range 3 West, NMPM, Rio Arriba County, New Mexico to test all productive formations between the surface of the earth and one hundred feet below the top of the Burro Canyon formation. Well spacing for all formations except the Fruitland Coal and Mesaverde is 160 acres. The Fruitland Coal and Mesaverde spacing is 320 acres. Simmons' main objective is the Dakota formation, however, Simmons is proposing an E/2 unit in the event the Mesaverde is commercially productive.

D.J. Simmons, Inc.

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The Unit percentages in and to the E/2 of Section 25, Township 25 North – Range 3 West, NMPM, Rio Arriba County, New Mexico are as follows:

D. J. Simmons, Inc.	75.000%
Forcenergy Onshore, Inc.	12.500%
T. H. McElvain Oil & Gas Limited Partnership	9.375%
Dugan Production Corporation	3.125%
-	100.000%
Lease ownership as follows:	
Section 25: NE/4 and the N/2SE/4	
D. J. Simmons, Inc.	100.000%
Section 25: S/2SE/4	
Forcenergy Onshore, Inc.	50.000%
T. H. McElvain Oil & Gas Limited Partnership	37.500%
Dugan Production Corporation	12.500%
	100.000%

The location for the proposed Bishop Federal #25-1 is in the NE/4 and the location for the Bishop Federal #25-2 is the NW/4SE/4, both in Section 25, Township 25 North – Range 3 West, NMPM, Rio Arriba County, New Mexico. These wells will be permitted as Dakota tests. The locations have been staked, and the permitting process with the BLM and the New Mexico OCD has begun.

Simmons offers you the options to either participate or farmout your interest in the Mesaverde formation only, and only at such time as Simmons completes that zone for the First Test Well (Bishop Federal #25-1). The Bishop Federal #25-2 would be drilled as a Gallup/Dakota test with partners participating as to their interests. Enclosed herewith for your perusal is Simmons well procedures and AFEs for the subject wells. Should the wells be productive in the Mesaverde formation, and you chose to participate or farmout, Simmons will provide you with a Joint Operating Agreement 610-1982 with a 100/300/300 percent non-consent and a COPAS 1984 Accounting Procedure with a Overhead-Fixed Rate of \$350/\$3,500 per well. In addition, you will be provided with information concerning the drilling and completion of the Bishop Federal #25-1 and #25-2 wells. Simmons would also entertain the purchase of your rights as to the Mesaverde formation only, at a fair market value.

As you are obviously aware, McElvain Oil & Gas Properties, Inc. is proposing the formation of a S/2 Section 25 spacing unit and is in conflict with this proposal. The matter is currently before the New Mexico OCD for a decisions. In the event the OCD should rule in favor of the McElvain proposal, Simmons would propose the formation of a N/2 Section 25 spacing unit for the Mesvarede in the Bishop Federal #25-1. Obviously, the ability to commingle or re-complete the Mesaverede as to the Bishop Federal #25-2 would be lost.

In that time is of the essence, your early reply would be most appreciated.

<u>A. B. Geren, Jr., President</u>

enclosures

D.J. SIMMONS, INC.

Drilling Plan

Well Name:	Bishop Federal 25-1
Surface Location:	1303 FNL x 710 FEL, Section 25, T29N, R9W Rio Arriba County, NM
Bottom Hole Location	• •

Formation: Gallup/Dakota

Elevation: 7235' GL

Geology:

Formation	Top True Vertical Depth	Top Measured Depth	Probable Content
San Jose	Surface	Surface	
Ojo Alamo	3321	3321	salt water
Fruitland	3421	3421	gas/water
Pictured Cliffs	3607	3607	gas
Chacra	4022	4022	gas
MesaVerde	5207	5207	gas
Menefee	5305	5305	gas
PointLookout	5720	5720	gas
Mancos	5960	5960	gas/oil
Gallup	6758	6760	gas/oil
Graneros	7872	8215	gas/oil
Dakota	7979	8366	gas/oil
Burro Canyon	8147	8147	gas/water

Logging Program:

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Spectral Density, Epithermal Neutron, Induction Log from TD to surface casing shoe.

Drilling Fluid Program:

* Note: all depths are Interval	e Measured Depths Fluid Type	Weight	Viscosity	Fluid Loss
0' - 600'	fresh water spud mud	8.4 – 9.0 ppg	30 - 50 sec	no control
600' - 5207'	2% KCL / PHPA polymer	8.4 – 9.0 ppg		no control
520 7' - TD	2% KCL / PHPA polymer	8.4 – 9.0 ppg		10

rrg\BishopFed251drillingplanAPD.doc

D.J. Simmons, Inc.

P.O. Box 1469 3005 Northridge Dr. Page 1 of 3 Farmington, New Mexico 87499 87401 FAX (505) 327-4659

(505) 326-3753

Casing Program:

* Note: all depths are Measured Depths

Interval	Hole Diameter	Csg Size	Wt.	Grade Thread
0'-600'	12 ¼"	9 5/8"	32 ppf	J-55 LTC
0' - 6200'	7 7/8"	5 1/2"	15.50 ppf	J-55 LTC
6200' - 7700'	7 7/8"	5 1/2"	17 ppf	J-55 LTC
7700' - 8715'	7 7/8"	5 1/2"	17 ppf	N-80 LTC

Tubing Program: 0 – 8600', 2 3/8", 4.7 ppf, J55, EUE

BOPE and Wellhead Specifications and Testing:

From surface casing shoe to TD: 9 5/8" 3000 psi threaded casing head with two 2" outlets. 11", 3000 psi double gate BOP and 3000 psi choke manifold (see figures 1 and 2). Pressure test BOPE to 3000 psi and 9 5/8" surface casing to 600 psi prior to drilling surface casing shoe.

For completion operations: $7" \ge 23/8"$, 3000 psi tree assembly. 71/16", 3000 psi double gate BOP system (see figure 3).

General Operation:

- Actuate pipe rams once each day during drilling operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing Program:

9 5/8" Surface Casing String: Run casing with saw tooth guide shoe on bottom, insert float valve one joint from bottom, and install bowspring centralizers as per Onshore Order #2. Cement with 350 sks class 'G' with ¼ #/sk flocele and 3% CaCl2 (413 cf slurry, 100% excess to circulate to surface).

5 ¹/₂" Production Casing String: Run casing with float shoe on bottom, float collar one joint from bottom and centralizers every other joint from TD to 3700'. Install stage collars at 5960' and 3700'. Cement in three stages. Stage 1 (8715' – 5960'); 450 sks class 'G' 50/50 poz with, 2% gel, ¹/₄ #/sk flocele, 5 #/sk gilsonite. Stage 2 (5960' – 3700'); 370 sks class 'G' 50/50 poz with 2% gel, ¹/₄ #/sk flocele, 5 #/sk gilsonite. Stage 3 (3700' – 0'); 610 sks class 'G' 50/50 poz with 2% CaCl2, 6% gel, ¹/₄ #/sk flocele, 5 #/sk gilsonite. Precise slurry volumes to be calculated from open hole log caliper plug 25% excess. Top of cement to be at surface.

Special Drilling Operations:

Directional Drilling

This well will be directionally drilled to the bottom hole location specified above. A detailed directional plan is supplied as Attachment #1. Directional surveying will be primarily performed with MWD (measurement while drilling) tools.

Additional Information:

- This well is to be completed in the Gallup and Dakota formations.
- No abnormal temperature or pressure, or other hazards are anticipated.
- LCM will be added to the mud system as required to maintain circulation.
- Estimated formation pressures:

1	Fruitland Coal	300 psi
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-	Pictured Cliffs	300 psi
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	MesaVerde	600 psi
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- Gallup 650 psi
- Dakota 800 psi

Completion Information:

The completion procedure will be prepared after open hole logs are analyzed. The well will probably be completed by hydraulic frac in two to three stages.

Prepared by: <u>Robert R. Griffee</u> Operations Engineer Date: <u>06/07/01</u> -

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	nd Completion AFE irectionally drilled Gallup/Dakota test. Assumes stand	lard drilling rig is u	ulized.	page 1
	e Gallup and Dakota formations with a two stage frac.			
			Prepared by: R	R. Griffee
Dry Hole Cost				
Cost Item Code	Description	intangibi e	Tangible	Total
reparation				
101 Permitting	permitting, survey, and archaeology	\$10,000.00		\$10,000
102 Dirtwork	blading, location preparation, anchors	\$5,500.00		\$5,500
103 Reclamation	dirtwork, water disposal	\$1,500.00		\$1,500
Drilling Rig Costs				
110 Rig Mobilization		\$25,000.00		\$25,000
111 Daywork Drilling Cost	14 days @ \$7500 per day	\$105,000.00		\$105,000.
112 Foolage Drilling Cost 113 Turnkey Drilling Cost				
Drilling Equipment 120 Drilling Bits		\$25,000.00		\$25,000.
121 Drilling Tools	reamers, stablizers, rental drill pipe, etc.	¥10,000.00		wa w,000.
122 Rental Equipment	- manine of animitation of Lot tree of the States	\$2,240.00		\$2,240
Services				
133 Trucking	hauling pipe & materials, hot shot services	\$10,000.00		\$10,000
134 Water	water cost and hauling charges	\$25,000.00		\$25,000
135 Fuel	drilling contractor to provide			
136 Mud	mud, chemicals, scep, etc.	\$6,500.00		\$6,500.
137 Air Drilling Services		too 000 00		
138 Directional Services		\$80,000.00		\$80,000.
139 Fishing Services 140 Safety Services	H2S monitoring, etc.			
141 Wireline Services	acade anticat 🐉 29,000-			
142 Contract Labor	roustabout services, casing crews, welders, etc.	\$10,000.00		\$10,000.
143 Inspection Services	· · · · · · · · · · · · · · · · · · ·			
144 Down-hole Tools				
148 Other Services				
Cementing				
150 Primary Gementing	surface casing	\$3,500.00		\$3,500.
151 P&A Cementing		\$5,100.00		\$5,100.
152 Remedial Cementing				
esign and Supervision				
160 Engineering/Geology Design		\$9.600.00		\$9,600.
161 Field Supervision 162 Operator Overhead		\$9,000.00		45,000.
163 Outside Operated Overhead				
ormation Evaluation				
170 Open Hole Logging		\$30,000.00		\$30,000.
171 Drill Stem Testing	a sentence and the second second second			
172 Coring	coring, and core analysis			
173 Mud Logging				
174 Field Geologist 175 Flow Testing		6		
176 Laboratory Services				
angible Koms				
180 Conductor Casing				
181 Surface Casing	600', 9 5/8", 32 ppf, J55 @ \$8.71/t		\$7,680.00	\$7,680.0
182 Intermediate Casing				
183 Intermediate Casing	abob DV autor controlling at		E1 150 00	84 4ED 4
184 Float Equipment	shoë, DV cellar, centralizers, etc.		\$1,150.00	\$1,150.0
185 Casing Tools 186 Pipe Inspection	liner hanger, etc. casing and tubing strings			
			\$1,500.00	\$1,500.0
187 Well Head Equipment				
liscelleneous				

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Completion Costs				page 2
Post to our Braduction Caeling and M	amplete with two stage frac in both the Gallup and Dal	ota		
Jost to full Production Casing and G			prepared by: R.	Griffee
David Maan	Description	Intangible	Tangible	Total
Cost Item Code	Description	unangiore	, nindhare	
reparation				
201 Permitting	that the standard means the sector	\$1,500.00		\$1,500.0
202 Dirtwork 203 Reclamation	blading, location preparation, anchors dirtwork, water disposal	\$1,500.00		Ψ1,000.0
203 Recianabon	Circason, marci cispusai			
Completion Rig Costs				
210 Rig Mobilization		\$2,800.00		\$2,800.0
211 Hourly or Daily Cost		\$25,680.00		\$25,680.0 \$1,800.0
212 Expendables	swab cups, line, etc.	\$1,800.00		\$1,000.0
213				
Workover Equipment				
220 Bits and Mills		\$650.00		\$650.0
221 Workover tools				
222 Rental Equipment		\$2,000.00		\$2,000.0
_ . .				
233 Trucking	hauling pipe & materials, hot shot services	\$14,500.00		\$14,500.0
233 Trucking 234 Water	water cost and hauling charges	\$20,000.00		\$20,000.0
234 Foel	for air drilling equipment			
236 Mud	mud, chemicals, soap, etc.			
237 Air Drilling Services				
238 Directional Services				
239 Fishing Services	fishing tools, etc. Mills			\$0.0
240 Safety Services	H2S monitoring, etc. CBL, correlation, squeaze perforating, etc.	\$6,500.00		\$6,500.0
241 Wireling Services 242 Contract Labor	roustabout services, casing crews, weiders, etc.	\$2,500.00		\$2,500.0
243 Inspection Services	Independent det sinder, dimense artentet, statistical arte	+		
244 Down-hole Tools	test packers, bridgeplugs, coment retainers	\$15,000.00		\$15,000.0
245 Stimulation Services	acidizing, frac, etc.	\$100,000.00		\$100,000.0
246 Misc Pumping Services	CO2, Nitrogen, etc.			
247 Hydrotesting Services				
248 Other Services				
Cementing				
250 Primary Cementing	cementing of new production string	\$45,000.00		\$45,000.0
251 PBA Cementing				
252 Remedial Comenting				
Design and Supervision				
26D Engineering/Geology Design				
261 Field Supervision	1	\$6,400.00		\$6,400.0
262 Operator Overhead				
263 Outside Operated Overhead				
Formation Evaluation	and the second second second second second			
270 Cased Hole Logging	for formation evaluation			
271 Drill Stem Testing	coring, and core analysis			
272 Coring 273 Mud Logging	cound, and core analysis			
274 Field Geologist				
275 Flow Testing	flow test, pressure built up, etc.			
276 Laboratory Services	gas, oil, & water analysis			
Tangible Items			\$58,782.45	\$58,782.4
280 Production Casing	8715' of 5 1/2" 15.50 and 17 ppf casing		\$18,060.00	\$18,060.0
281 Tubing	8600' of 2 3/8" EUE		\$10,000.00	ψ10,000.0
282 Tubing 283 Tubing String equipment			\$1,100.00	\$1,100.0
284 Float Equipment	shoe, DV collar, centralizers, etc.		\$15,000.00	\$15,000.0
285 Casing Tools	liner hanger, etc.			
286 Pipe Inspection	casing and tubing strings			
287 Well Head Equipment			\$5,400.00	\$5,400.0
288 Permanent Packers	permanent production packers, bridgeplugs, etc.		#4 500 00	e4 600 0
289 Miscelleneous Pipe and Fittin	gs		\$1,500.00	\$1,500.0
Miscelleneous 290				
230			·····	
	Completion Cost Total	\$244,330.00	\$99,842.45	\$344,172.4

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Produ	Iction Equipment						pa	ge 3
		s to set Production Tanks, Separator, and prep location.				epared by: R	≀. G	riffee
O t	Does not include pipeline or pur		,	luton oikito		Townikia		Total
Cost Code		Description	1	Intangible		Tangible		10141
Tangi	ble items							
501	Production Tanks				\$	17,500.00		\$17,500.00
502	Flow Lines, Valves, and Fittings				\$	5,000.00		\$5,000.00
503	Pumping Equipment - Surface	pumping unit						
504	Pumping Equipment - Downhold	o rods, pump, etc						
505	Production Units heater	treater / separator			\$	35,000.00		\$35,000.00
506	Metering Equipment							
507	Wellsite Compression							
508	Buildings							
509	Miscellenous				\$	5,000.00		\$5,000.00
install	ation and Construction							
520	Contract Labor		\$	20,000.00				\$20,000.00
		Production Equipment	t Total \$	20,000.00	\$	62,500.00	\$	82,500.00

	AFE Summary								
Cost Code	Item	Description	Intanĝible	Tangible	Total				
	Dry Hole Cost less P&A Cementing Cost Completion Cost Production Equipment Cost		\$353,940.00 -\$5,100.00 \$244,330.00 \$ 20,000.00	\$0.00	\$364,270.00 -\$5,100.00 \$344,172.45 \$ 82,500.00				
	Total Estimated Well Cost excluding pipeline and pumpir	ng unit	\$613,170.00	\$172,672.45	\$785,842.45				

D.J. SIMMONS, INC.

Drilling Plan

Well Name:	Bishop Federal 25-2
Surface Location:	2175 FSL x 1813 FEL, Section 12, T29N, R9W Rio Arriba County, NM
Bottom Hole Location	n: Same
Formation:	Gallup/Dakota

Elevation: 7187' GL

Geology:

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Formation Top Probable Con Measured Depth	tent
San Jose Surface	
Ojo Alamo 3235 salt water	
Fruitland 3335 gas/water	
Pictured Cliffs 3510 gas	
Chacra 3945 gas	
MesaVerde 5197 gas	
Menefee 5294 gas	
PointLookout 5710 gas	
Mancos 5948 gas/oil	
Gallup 6677 gas/oil	
Graneros 7802 gas/oil	
Dakota 7909 gas/oil	
Burro Canyon 8079 gas/water	

Logging Program: Spectral Density, Epithermal Neutron, Induction Log from TD to surface casing shoe.

Drilling Fluid Program:

Interval	Fluid Type	Weight	Viscosity	Fluid Loss
0' - 600'	fresh water spud mud	8.4 – 9.0 ppg	30 - 50 sec	no control
600' - 5197'	2% KCL / PHPA polymer	8.4 – 9.0 ppg		no control
5197' - TD	2% KCL / PHPA polymer	8.4 – 9.0 ppg		10

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 D.J. Simmons, Inc.
 P.O. Box 1469
 Farmington, New Mexico 87499

 3005 Northridge Dr.
 87401

 (505) 326-3753
 FAX (505) 327-4659

Casing Program:

Interval	Hole Diameter	Csg Size	Wt.	Grade Thread
0' - 600'	12 1/4"	9 5/8"	32 ppf	J-55 LTC
0' - 6200'	7 7/8"	5 1/2"	15.50 ppf	J-55 LTC
6200' - 7500'	7 7/8"	5 1/2"	17 ppf	J-55 LTC
7500' - 8150'	7 7/8"	5 1/2"	17 ppf	N-80 LTC

Tubing Program: 0 – 8100°, 2 3/8°, 4.7 ppf, J55, EUE

BOPE and Wellhead Specifications and Testing:

From surface casing shoe to TD: 9 5/8" 3000 psi threaded casing head with two 2" outlets. 11", 3000 psi double gate BOP and 3000 psi choke manifold (see figures 1 and 2). Pressure test BOPE to 3000 psi and 9 5/8" surface casing to 600 psi prior to drilling surface casing shoe.

For completion operations: 7" x 2 3/8", 3000 psi tree assembly. 7 1/16", 3000 psi double gate BOP system (see figure 3).

General Operation:

- Actuate pipe rams once each day during drilling operations. Actuate blind rams once each trip.
- An upper Kelly cock valve, with handle, will be available on the rig floor to fit each drilling string.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in the daily drilling report.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing Program:

9 5/8" Surface Casing String: Run casing with saw tooth guide shoe on bottom, insert float valve one joint from bottom, and install bowspring centralizers as per Onshore Order #2. Cement with 350 sks class 'G' with ¼ #/sk flocele and 3% CaCl2 (413 cf slurry, 100% excess to circulate to surface).

5 $\frac{1}{2}$ " Production Casing String: Run casing with float shoe on bottom, float collar one joint from bottom and centralizers every other joint from TD to 3700'. Install stage collars at 5800' and 3800'. Cement in three stages. Stage 1 (8225' - 5800'); 350 sks class 'G' 50/50 poz with, 2% gel, $\frac{1}{4}$ #/sk flocele, 5 #/sk gilsonite. Stage 2 (5800' - 3800'); 400 sks class 'G' 50/50 poz with 2% gel, $\frac{1}{4}$ #/sk flocele, 5 #/sk gilsonite. Stage 3 (4100' - 0'); 670 sks class 'G' 50/50 poz with 2% CaCl2, 6% gel, $\frac{1}{4}$ #/sk flocele, 5 #/sk gilsonite. Precise slurry volumes to be calculated from open hole log caliper plug 25% excess. Top of cement to be at surface.

Special Drilling Operations:

No special operations are anticipated

Additional Information:

- This well is to be completed in the Gallup and Dakota formations.
- No abnormal temperature or pressure, or other hazards are anticipated.
- LCM will be added to the mud system as required to maintain circulation.
- Estimated formation pressures:
 - Fruitland Coal 300 psi
 - Pictured Cliffs 300 psi
 - MesaVerde 600 psi
 - Gallup 650 psi
 - Dakota 800 psi

Completion Information:

The completion procedure will be prepared after open hole logs are analyzed. The well will probably be completed by hydraulic frac in two to three stages.

Prepared by:	Robert R. Griffee
	Operations Engineer
Date:	06/07/01

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	nd Completion AFE st. Assumes standard drilling rig is utilized.			page 1
	e Gallup and Dakota formations with a two stage frac.			
Dry Hole Cost			Prepared by: R	. Griffee
-	On the state of the state	Informible	Torolbia	Total
Cost Item Code	Description	Intangible	Tangible	1014
Preparation				
101 Permitting	permitting, survey, and archaeology	\$10,000.00		\$10,000
102 Dirtwork	blading, location preparation, anchors	\$5,500.00		\$5,500
103 Reclamation	dirtwork, water disposal	\$1,500.00		\$1,500
Drilling Rig Costs		105 000 00		
110 Rig Mobilization		\$25,000.00		\$25,000
111 Daywork Drilling Cost	10 days @ \$7500 per day	\$75,000.00		\$75,000
112 Footage Drilling Cost 113 Turnkey Drilling Cost				
Drilling Equipment 120 Drilling Bits		\$15,000.00		\$15,000
121 Drilling Tools	reamers, stabilizers, rental drill pipe, etc.			
122 Rental Equipment		\$1,600.00		\$1,600
Services	the state of the second state of the state of the second state of	#40 000 00		F40 000
133 Trucking	hauling pipe & materials, hot shot services	\$10,000.00 \$25,000.00		\$10,000 \$25,000
134 Water 135 Fuel	water cost and hauling charges drilling contractor to provide	\$23,000.00		\$23,000
136 Mud	mud, chemicals, soap, etc.	\$5,500.00		\$5,500
137 Air Drilling Services	an ann a' fha bha an an dian tha san an a	40,000.00		40,000
138 Directional Services				
139 Fishing Services				
140 Safety Services	H2S menitering, etc.			
141 Wireline Services				
142 Contract Labor	roustabout services, casing crews, welders, etc.	\$10,000.00		\$10,000
143 Inspection Services				
144 Down-hole Tools 148 Other Services				
140. OTHE OCIAICES				
ementing	· · ·			
150 Primary Cementing	surface casing	\$3,500.00		\$3,500.
151 P&A Cementing		\$5,100.00		\$5,100
152 Remedial Cementing				
esign and Supervision				
160 Engineering/Geology Design 161 Field Supervision		\$8,000.00		\$8,000.
162 Operator Overhead		90,000.00		4 0,00 0.
163 Outside Operated Overhead				
ormation Evaluation				
170 Open Hole Logging		\$30,000.00		\$30,000.
171 Drtll Stem Testing				
172 Coring	coring, and core analysis			
173 Mud Logging				
174 Field Geologist				
175 Flow Testing 176 Laboratory Services				
angible items 180 Conductor Casing				
181 Sufface Casing	600', 9 5/8'', 32 ppf, J55 @ \$8.71/ft		\$7,680.00	\$7,680.
182 Intermediate Casing				
183 Intermediate Casing	the state of the second state of the		** *** **	
184 Float Equipment	shoe, DV collar, centralizers, etc.		\$1,150.00	\$1,150.
185 Casing Tools	liner hanger, etc.			
186 Pipe Inspection 187 Well Head Equipment	casing and tubing strings		\$1,500.00	\$1,500.
liscelleneous				
190			A / A A	
	Total Dry Hole Cost	\$230,700.00	\$10,330.00	\$241,030.

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Completion Costs				page 2
Cost to run Production Casing and th	mplete with two stage frac in both the Gallup and Dal	kota		
COLID FIGURE Casing and C			prepared by: R.	Griffee
iost item	Description	Intangible	Tangible	Total
ode				
reparation				
201 Permitting	the second se	R4 600 00		e+ 600 /
202 Dirtwork 203 Reclamation	blacting, location preparation, anchors dirtwork, water disposal	\$1,500.00		\$1,500.0
	· · · ·			
Completion Rig Costs 210 Rig Mobilization		\$2,800.00		\$2,800.0
211 Hourty or Daily Cost		\$25,680.00		\$25,680.0
212 Expendables	swab cups, line, etc.	\$1,800.00		\$1,800.0
213				
Vorkover Equipment				
220 Bits and Mills		\$650.00		\$650.0
221 Workover tools				
222 Rental Equipment		\$2,000.00		\$2,000.0
Services	and a second			
233 Trucking	hauling pipe & materials, hot shot services	\$14,500.00		\$14,500.0
234 Water	water cost and hauling charges	\$20,000.00		\$20,000.0
234 Fuel	for air drilling equipment			
236 Mud	mud, chemicals, scap, etc.			
237 Air Driffing Services				
238 Directional Services				
239 Fishing Services	fishing tools, etc. Mills			
240 Safety Services	H2S monitoring, etc.			\$0.0
241 Wireline Services	CBL, correlation, squeeze perforating, etc.	\$6,500.00		\$6,500.
242 Contract Labor	roustabout services, casing crews, welders, etc.	\$2,500.00		\$2,500.0
243 Inspection Services				
244 Down-hole Tools	test packers, bridgeplugs, cement retainers	\$15,000.00		\$15,000.
245 Stimulation Services	acidizing, frac, etc.	\$100,000.00		\$100,000.0
246 Misc Pumping Services	COZ, Nitrogen, etc.			
247 Hydrotesting Services				
248 Other Services				
Sementing		•		
250 Primary Cementing	cementing of new production string	\$45,000.00		\$45,000.0
251 P&A Cementing				
252 Remedial Cementing	· · · ·			
Jesign and Supervision				
260 Engineering/Seology Design				
261 Field Supervision		\$6,400.00		\$6,400.
262 Operator Overhead				
263 Outside Operated Overhead				
ormation Evaluation				
270 Cased Hole Logging	for formation evaluation			
271 Onll Stem Testing				
272 Coring	coring, and core analysis			
273 Mud Logging				
274 Field Geologist				
275 Flow Testing	now test, pressure build up, etc.			
276 Laboratory Services	gas, oil, & water analysis			
langible Items				
280 Production Casing	8150 of 5 1/2" 15.50 and 17 ppf casing		\$55,488.50	\$55,488.
281 Tubing	8050' of 2 3/8" EUE		\$16,905.00	\$16,905.
282 Tubing				
283 Tubing String equipment			\$1,100.00	\$1,100.
284 Float Equipment	shoe, DV collar, centralizers, etc.		\$15,000.00	\$15,000.0
285 Casing Tools	liner hanger, etc.			
286 Pipe Inspection	casing and tubing strings			PC 405
287 Well Head Equipment			\$5,400.00	\$5,400.
288 Permanent Packers 289 Miscelleneous Pipe and Fittin	permanent production packers, bridgeplugs, etc.		\$1,500.00	\$1,500.0
202 Masonie rous rupo and runi	-		. ,	
liscelleneous 290				
	Completion Gost Total	\$244,330.00	\$95,393.50	\$339,723.

Produ	iction Equipment						pa	ge 3
Costs to set Production Tanks, Separator,			prep location.		prepared by: R. Griffee			riffee
	Does not include pipeline or pump	xing unit costs						
Cost	ltem De	scription		Intangible		Tangible		Total
Code						-		
Tangi	ble Items							
501	Production Tanks				\$	17,500.00		\$17,500.00
502	Flow Lines, Valves, and Fittings				\$	5,000.00		\$5,000.00
503	Pumping Equipment - Surface p	umping unit						
	Pumping Equipment - Downhole							
		eater / separator			\$	35,000.00		\$35,000.00
506	Metering Equipment	- 1 .				•		
	Wellsite Compression							
	Buildings							
	Miscellenous				\$	5,000.00		\$5, 000 .00
nstall	ation and Construction	:						
520	Contract Lebor		\$	20,000.00				\$20,000.00
		Production Equipment T	'otal \$	20,000.00	\$	62,500.00	\$	82,500.00

	AFE Summary		· .
Cost Code	item Description	intangible Tangible	Total
	Dry Noie Cost less P&A Cementing Cost Completion Cost Production Equipment Cost	\$230,700.00 \$10,330.0 -\$5,100.00 \$0.0 \$244,330.00 \$95,393.5 \$ 20,000.00 \$ 62,500.00	0 -\$5,100.00 0 \$339,723.50
	Total Estimated Well Cost excluding pipeline and pumping unit	\$489,930.00 \$168,223.5	0 \$658,153.50

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